

Table S1. InDel markers (25477) differentiating high pod number-containing parental accession (Pusa 1103) and homozygous bulk (HPNB) of a mapping population (Pusa 1103 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/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
C11060010_P1_682	C11060010	682	AATTATT/AATTATTATT	TCCGATATGCACCAAT GAAA	AGGCGTCGGTTTTTCT TTCT	59.9	413	INTERGENIC	--	--	--
C11109468_P1_1121	C11109468	1121	TTATTTGT/TTCTCAAAAAATATTTGT	TGTTTTGCAGGAACGA AATG	TGTGGTGGTGACAAAT CAAGA	59.7	517	INTERGENIC	--	--	--
C11119398_P1_1161	C11119398	1161	TTATATATATA/TTATATATA	CATGCATGCTGAGGGA TATG	TGTTTGTTCGTCAT CACTTT	60.1	268	INTERGENIC	--	--	--
C11119398_P1_1428	C11119398	1428	GACACACA/GACACA	CATGCATGCTGAGGGA TATG	CGGTACCCACACTTAA TTTAACAA	60.1	822	INTERGENIC	--	--	--
C11154862_P1_690	C11154862	690	GAA/GA	TGGCAATCAGAAGCAG TGAG	TGACAGAACGAAGCAA ATCG	60.1	561	INTERGENIC	--	--	--
C11154966_P1_887	C11154966	887	GAAAAAAAAA/GAAAAAAAAA	TTCAAGAGTCTCCTAG GGCG	TTGCTTGTGTCGTTAG CTGC	59.6	669	DRR	Ca_28249	E	MYB
C11155258_P1_2950	C11155258	2950	TAAGAAGAAGAAGAAGAA/TAAGA AGAAGAAGAA	TTGCAATGCACTTTATT GGC	AGGGATGTTAAGGTG GTCCC	59.7	921	DRR	Ca_28113	--	--
C11155258_P1_5339	C11155258	5339	TTAAT/TT	CCACATTTTCATGATT CCC	GCTTCAATGAAATCGC AATACA	60.0	456	INTERGENIC	--	--	--
C11159426_P1_3587	C11159426	3587	TAA/TA	CACATTGAAGGTGCAT CGAG	TTGTGACGCTAACGAC TTGG	60.3	462	DRR	Ca_27806	--	--
C11164954_P1_502	C11164954	502	CATATATATATATATATATATATATA T/CATATATATATATATATATATATATA T	TTTTTCTTAACACACTT TGGTGAAA	TTTAAATTTATGTAATT TGGTCAACGA	59.2	476	INTERGENIC	--	--	--
C11168930_P1_5756	C11168930	5756	TCCC/TCC	TGAGCAAAAGCAAACA GTGG	ATTAAGGGGCGCATT TCTT	60.0	434	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
C11168930_P1_7154	C11168930	7154	TG/T	CGGCAACGTCCAAGAT AGTT	TCAGCGTCTTCAACAT TTGC	60.1	640	INTERGENIC	--	--	--
C11169592_P1_3333	C11169592	3333	CTTTT/CTTTT	TCTTTTCCGATGTTTT CACG	GGGTGCCATCAACACA TACA	60.1	125	INTERGENIC	--	--	--
C11172910_P1_8105	C11172910	8105	AATATATATATATAT/AATATATATATA TATAT	TTCCATCACCAACAAG ACCA	GTAATTCAGGTCCTCG TGTC	59.9	287	INTRON	Ca_27557	P	--
C11177592_P1_10688	C11177592	10688	ATTTTT/ATTTT	TAATCCCAAGCCTGC CATA	GGGTGGGAGATGAAG GAGTT	60.4	749	DRR	Ca_27746	O	bHLH
C11178328_P1_11882	C11178328	11882	GAC/G	AAATCGGAGGAATACC CTGG	GAGGAGGCCTAAAAG ATGGG	60.1	678	DRR	Ca_28266	T	M-type
C11178328_P1_12753	C11178328	12753	CAT/CATTAT	CCATCTTTTAGGCCTC CTCC	GAAGGCAACCATTCTA GGCA	60.0	925	DRR	Ca_28266	T	M-type
C11178532_P1_10916	C11178532	10916	TTATATATATATATATATAT/TTATAT ATATATATATATAT	CTTCTATAGGCCCAA GCC	AACAAAGGCTTGCAA ATCG	60.1	637	INTERGENIC	--	--	--
C11181782_P1_15288	C11181782	15288	ATTTTTTTT/ATTTTTTT	AACCACGTATCAAAGC CCAA	TTCAAAGTGTTGAG CCGT	60.4	650	INTERGENIC	--	--	--
Ca1_P1_10040103	Ca1	10040103	ATTT/ATT	ATGCATCGAAAACCA CACA	TGCAATCCGGGCTTAC TATC	60.0	378	INTRON	Ca_02784	LK	--
Ca1_P1_10057638	Ca1	10057638	CATATATATATATATAT/CATATATA TATATAT	TGATGGGAGCAATGAA TGAA	TCAAATCCGACTTGA GGGA	60.0	542	INTERGENIC	--	--	--
Ca1_P1_10060949	Ca1	10060949	T/TATATATATATATATA	AATCCAGAAATGCATC AGGG	ATTGGTTTAACCCCTC GTGA	59.9	225	INTERGENIC	--	--	--
Ca1_P1_10064752	Ca1	10064752	TTATATATATATATATATA/TTATATATA TATATATATATATATA	ATGCAAAATCTCCCC TCTT	TCATTGATTTTAATTG GACGA	59.9	750	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_10070211	Ca1	10070211	GAATAATAATAATAATAATAATAA/ GAATAATAATAATAATAATAATAA TAA	TGCTGATGCGTCTGTC CTAC	TTATATGGGAAACCGG AGGG	60.0	410	DRR	Ca_02782	--	--
Ca1_P1_10104142	Ca1	10104142	TTATATATATATATATATATAT/TTAT ATATATATATATATATATATAT	TTCCAATGAGGACATG TGTGA	GGAGCTTTTGTGAT AACGG	60.0	383	INTERGENIC	--	--	--
Ca1_P1_10168572	Ca1	10168572	GTTTTTTTTT/GTTTTTTTTT	AGACAGGCATGGAGAA ATGG	TTAAGGCGTGGATGT CGTT	60.1	632	INTERGENIC	--	--	--
Ca1_P1_1029183	Ca1	1029183	TTTAT/TTTATTAT	TCAAAGAATAGGACGG AAGCA	CCACCTTGATTCGGTT GAGT	59.8	783	INTERGENIC	--	--	--
Ca1_P1_10323177	Ca1	10323177	G/GAGCT	TTGAGTGCTTCACCAT TTGC	GTTGATTGGCTCTCC TCGC	59.8	463	INTRON	Ca_02746	B	C2H2
Ca1_P1_10360863	Ca1	10360863	TTAATAATAATAATAATAATAAT/T TAATAATAATAATAATAATAAT	CATTGGTATGGCTAAG GCGT	TGGCTTGAATTTGGTG ATGA	60.0	667	INTERGENIC	--	--	--
Ca1_P1_10397505	Ca1	10397505	ATCTCTCTCTCTCTCTCTCTCTCTC TCTCTCTCT/ATCTCTCTCTCTCTCTC TCTCTCTCTCTCTCTCT	TGCTGCTGATGTTCAA AACC	TCCGAATTTGTTTCGT TTCC	59.8	168	INTERGENIC	--	--	--
Ca1_P1_10414677	Ca1	10414677	CAGGAATNNNNNNNNNAGGAAT/CA GGAAT	TTCTAAACGAGGCTTT TCAGTTG	GCATGTTGCTGATGAT GGTC	59.9	489	DRR	Ca_02735	R	ERF
Ca1_P1_10458891	Ca1	10458891	TACACACA/TACACA	CCAATTTCAAGTAGGCC CAAA	AGCATTGAAACCAAAC CAGC	59.9	583	DRR	Ca_02729	--	HSF
Ca1_P1_10471260	Ca1	10471260	TTATATATATATATATATA/TTATATA TATATATATATATA	TTCTCCATTGCACTC ACAC	TCAAATTTGGAGGCTG GAAC	59.8	312	INTERGENIC	--	--	--
Ca1_P1_10513925	Ca1	10513925	CTTATTTATTTATTTATTTATTTA TTTATTTATTTATTT/CTTATTTATTTAT TATTTATTTATTTATTTATTT	CCAGATTTCTTTTCC CCTC	GGGTAGGCCACAGAC TGTCCTA	59.9	634	INTERGENIC	--	--	--
Ca1_P1_10767761	Ca1	10767761	GTAACATTTAACTATTTAA/GTAAC TTTAA	TTTACAATATTCTCTC GGCTCAA	CAATGGCGTAATGGTG TGAG	59.3	509	DRR	Ca_02684	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_10800904	Ca1	10800904	GAAAAAAAA/GAAAAAAAAA	AAACAAAGGACCGTGA TTGC	CGCGCCAAACTACCAT ATTT	60.0	598	INTERGENIC	--	--	--
Ca1_P1_1084300	Ca1	1084300	A/AC	TCCCAATGACTTAATC CGC	ATCGTCGGAGAAATT GACG	59.9	608	INTRON	Ca_00134	DO	LBD
Ca1_P1_10843362	Ca1	10843362	CATATATATATATA/CATATATATAT ATATATA	CCGATATCTTCTCGC ATGT	GGAGATGTTGCAGTTG ACCA	60.1	760	INTRON	Ca_02674	G	NAC
Ca1_P1_1084582	Ca1	1084582	TTT/TTTAACCCAATGGGTT	TTCCAACAGGACAGAC CTCC	CTGCGAGTGTTTTCTG GTCA	60.1	719	INTRON	Ca_00134	DO	LBD
Ca1_P1_10846457	Ca1	10846457	CAAAAA/CAAAAAA	TTCCCACTTAACGAT CGAC	CAATGAACCTGAGTTT TGCCC	59.9	865	INTERGENIC	--	--	--
Ca1_P1_1084940	Ca1	1084940	CTTT/CTTTT	CGTCAAAATTCTCCGA CGAT	CTGCGAGTGTTTTCTG GTCA	60.1	290	INTRON	Ca_00134	DO	LBD
Ca1_P1_1085307	Ca1	1085307	AAT/AATAT	TGACCAGAAAACACTC GCAG	TCAGTGCTTGTAAGA TGGC	60.0	710	INTRON	Ca_00134	DO	LBD
Ca1_P1_1088158	Ca1	1088158	TCCAC/TCCACCAC	TCGAAAGCTGAATTCG TGTG	GCCCATACTTGAAACC ACTAGC	60.0	482	DRR	Ca_00135	--	C2H2
Ca1_P1_1088478	Ca1	1088478	A/AC	GGCATCACATTTGTGT CGAA	TCACCCCACTATCCCG TTTA	60.5	717	DRR	Ca_00135	--	C2H2
Ca1_P1_10934337	Ca1	10934337	ATTTTTTTTT/ATTTTTTTTTT	CACCTGCAATTTGATTG GTGG	CAAAACACCAATTTTC ACCC	60.0	436	INTERGENIC	--	--	--
Ca1_P1_10944660	Ca1	10944660	TAAAAAAAAA/TAAAAAAAAA	GCGACCTCGTGAATGA AAAA	GGCATAATTGTTCCCA CAAA	61.1	534	INTERGENIC	--	--	--
Ca1_P1_1094498	Ca1	1094498	AC/A	TTGAGGAATGGTGCAA GATG	TGTACTTGCTATTCAAT CTCGTTGA	59.6	254	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_1094637	Ca1	1094637	TAAAAAA/TAAAAAAA	TTGAGGAATGGTCAA GATG	TTTGCTAATAAAAGTAA ATGAGTTGGA	59.6	394	INTERGENIC	--	--	--
Ca1_P1_10950044	Ca1	10950044	AATATATATATATATA/AATATATAT ATATATATATATATATATATATA	TGACGGGTTGTGATT TCAA	AAAAAGTTTTGCGTAC AAGTCAA	59.9	388	INTERGENIC	--	--	--
Ca1_P1_1095503	Ca1	1095503	GTTTT/GTTT	TGTAGGAGAGAGGAAC TGAGGAA	TTGTTGTGATGGATTG GGTG	59.5	324	INTERGENIC	--	--	--
Ca1_P1_1095824	Ca1	1095824	TTAAAAATAAAATAAAAT/TTAAA ATAAAATAAAAT	CACCCAATCCATCACA ACAA	GCTTCTCCTGCCATC AAAG	60.2	540	INTERGENIC	--	--	--
Ca1_P1_1097365	Ca1	1097365	AAA/AAACAA	GGGACAACTTGGAGT TGGA	TGCATGCCAATTAAT AAATCA	59.9	691	INTERGENIC	--	--	--
Ca1_P1_1102337	Ca1	1102337	CTT/CTTT	CTTAAGCCATGCCACA AATG	TCTCTTCATCAATCA GATGCC	59.2	432	INTERGENIC	--	--	--
Ca1_P1_11056418	Ca1	11056418	TAAAAAAAAAAAA/TAAAAAAAAAA	GGATCACAGGGAAGT GCAC	CCCCCTTGTTGCACT CTTA	60.5	288	INTERGENIC	--	--	--
Ca1_P1_11102279	Ca1	11102279	ATTTTTTTTT/ATTTTTTTTT	TGCCGCGAATTAGAT CTTT	TCGGTGTTGGTGCGT TATC	59.8	255	DRR	Ca_02649	C	--
Ca1_P1_11145101	Ca1	11145101	TTATATATATATATATATATAT/TT ATATATATATATATATATATAT	TTTGAGTCCAAATTGA AGGCT	CGGATCAAAATTCGCA CAAT	58.8	837	INTERGENIC	--	--	--
Ca1_P1_11148737	Ca1	11148737	CAATAATAAAT/CAATAAAT	CGTGTAAATGGTAATG TGCCA	GGCTAACTGAAGTCG TGCC	59.4	693	INTERGENIC	--	--	--
Ca1_P1_11152932	Ca1	11152932	T/TCAATAATAA	CTCAATCTCCAATCC CAAA	TGAATCTGGTCCAAAC ATGAA	59.9	236	INTERGENIC	--	--	--
Ca1_P1_11170203	Ca1	11170203	CATA/CATATATA	ATGAGGGTATCCGAGC CATA	CCACAAGAGTTTTGCC ATTG	59.4	378	DRR	Ca_02641	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_11190216	Ca1	11190216	ATTACT/ATTACTTACT	TATGGCTAGCTGGTGA AGCA	TGAATCCCACGCAGC TCTT	59.6	304	INTRON	Ca_02639	--	--
Ca1_P1_11195317	Ca1	11195317	TTCTCTCTCTCTCTCTCTCTC/TTCTCTCTCTCTCTCTCTC	AGGTGGTAAGACACG TGGG	TGAACTCGTACGAAC CTTG	59.9	338	DRR	Ca_02638	--	--
Ca1_P1_11324975	Ca1	11324975	GAAGA/GAAGAAAGA	CTGCATCGGGGATACT TCAC	TTTTGACCAGCCAGA TACC	60.5	317	INTRON	Ca_02622	--	--
Ca1_P1_11331703	Ca1	11331703	TTTTA/TTTTAGTTTA	CCTCTGCTCACCCCT TTTC	CACCATTTATCTGTTTT GCGTT	59.8	860	INTERGENIC	--	--	--
Ca1_P1_11354233	Ca1	11354233	CTTTTTTTTTT/CTTTTTTTTTT	TTGATTGATCCGGTTT TTCC	CGAGTTGCATACAAA GATTGG	59.7	852	INTERGENIC	--	--	--
Ca1_P1_11425487	Ca1	11425487	TTATATATATATATA/TTATATATATATA TATA	TTGTCTCACGTGAATC TGGG	GGAGTTTGAGAGAA GGAGTGA	59.7	745	INTERGENIC	--	--	--
Ca1_P1_1145463	Ca1	1145463	AATATATATATATATATATATATATA TA/AATATATATATATATATATATATA ATA	TTCACAAACACCA CACAA	GTGTCTCTCTACCA CCCA	58.5	485	INTERGENIC	--	--	--
Ca1_P1_11456505	Ca1	11456505	TTATATATATATATATATA/TTATATA TATATATATATATA	AACCGAGTGCCCTTTA ACAA	TTGTTTTGCATTTTGG GACA	59.6	273	INTERGENIC	--	--	--
Ca1_P1_11457087	Ca1	11457087	ATTTTTTTTTT/ATTTTTTTTTT	TGTCCCAAAATGCAAA ACAA	GGAGATGACACATCCT ATAACTTTTT	59.9	667	INTERGENIC	--	--	--
Ca1_P1_11563390	Ca1	11563390	ATT/AT	AATGAACATGCGGACC AAAT	TTATACTGTCTCCCGC CACC	60.2	303	INTERGENIC	--	--	--
Ca1_P1_1160199	Ca1	1160199	GATATATATATATATATATATATA/G ATATATATATATATATATATATATA A	ATATTCGGGGGAATCAC CTCC	AGCCGACCTTCCCACT TAAT	60.0	578	DRR	Ca_00145	--	--
Ca1_P1_11766477	Ca1	11766477	TTATATATATATATATATA/TTATATA TATATATATATATA	TCGTGCACCTTTCTTA GAATTT	TCGATTTTACAGGGT TCGG	57.2	858	INTRON	Ca_02576	--	YABBY

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_11788825	Ca1	11788825	AATATATATATATATA/AATATATATAT ATATATA	TGGGAATAGGTCAGAC CAGG	CCAAGTTGTTTGAGAG AATTTGTTT	59.9	696	INTERGENIC	--	--	--
Ca1_P1_11810350	Ca1	11810350	CTTTTTTTT/CTTTTTTTTT	CGGTATAAGGCAACA TCAGC	GAATGGCGAAAAATCC TCAA	59.6	696	INTERGENIC	--	--	--
Ca1_P1_11814946	Ca1	11814946	CATATATATATATATATATATATATA /CATATATATATATATATATATATAT ATATATATATA	CTTGTGGCCAAAACG AAAT	TTCGAAAAACAAACAA CGACA	60.0	647	INTERGENIC	--	--	--
Ca1_P1_11830305	Ca1	11830305	TTATATATATATATATATATATATAT ATA/TTATATATATATATATATATATA TATA	CCTTGCCCTTCTCTCC CTCT	GCTCATCGCTATCAAG CACA	60.0	543	INTERGENIC	--	--	--
Ca1_P1_11834197	Ca1	11834197	AA/AATAATA	TGCATTGCGGAGAGCT AATA	TTGAGTTTGTTAGCCG GTGA	59.6	674	INTERGENIC	--	--	--
Ca1_P1_1186147	Ca1	1186147	CTTTTT/CTTTTTTT	TATCGCAGAAATTTTCG TCCC	AAGAGTTGCCACCAATG GACC	60.0	320	INTRON	Ca_00147	EH	bHLH
Ca1_P1_11868314	Ca1	11868314	TTATATATATATATATAT/TTATATATAT ATATATATATATAT	GCAAGTATGCAACAAC CTTCC	TTGCATATATTGTCAC ACCGC	59.6	346	INTERGENIC	--	--	--
Ca1_P1_11948916	Ca1	11948916	AATATATATATATATATATATATATA /AATATATATATATATATATATATAT ATATATATA	AGGCAACATGGCAAA ATTCT	TCTTTGCCTATGCCTA TGAGC	59.9	746	INTERGENIC	--	--	--
Ca1_P1_11977187	Ca1	11977187	CAAAAA/CAAAAAA	GCAATTGGATGACATT GCATA	ACAGACAGGGCACAG GATCT	59.4	479	INTERGENIC	--	--	--
Ca1_P1_11994844	Ca1	11994844	CATATATATATATATAT/CATATATATA TATAT	TGACTGGTGAGCGTTCT TTTG	GGCAATGAATGAAACG GTCT	60.0	602	INTERGENIC	--	--	--
Ca1_P1_12090006	Ca1	12090006	TTGGAGAATGGAGAATGGAGAATGG AGAATGGAG/TTGGAGAATGGAGAAT GGAGAATGGAG	GTAGTGTCGATGCTGC TGGA	AAGCTTCAATAAATGG TCCGT	60.0	277	INTERGENIC	--	--	--
Ca1_P1_12092743	Ca1	12092743	AATATATATATATATATATAT/AATATA TATATATATATATATATATATAT	CGGCAATTTTGAGTTG ATTTG	CATCGGATGGTCCAGAA AAGT	60.5	825	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_1210052	Ca1	1210052	TC/T	AAATACCCCTTTTCCGT GGC	CCTTGTTTCTCTGCTT TGCC	60.2	486	INTERGENIC	--	--	--
Ca1_P1_12102708	Ca1	12102708	AT/A	AATGTGCTTGACTCT GTGG	CACAACCCAAGTCAAA CCAA	59.8	245	INTRON	Ca_02545	--	--
Ca1_P1_12135797	Ca1	12135797	GATATATATATATATATATATATATA TATATATA/GATATATATATATATAT ATATATATATATATATATATATA	GGTGTGGAGTCATGC CTTT	GTGCGACGGAAACAAC GTA	60.0	234	INTERGENIC	--	--	--
Ca1_P1_12165802	Ca1	12165802	AATATATATATATATAT/AATATATATA TATATATATATATATATAT	AGGTGGACGTTACAAA AACG	AACATTGCGAAACAAC ATCG	57.7	613	INTERGENIC	--	--	--
Ca1_P1_12195477	Ca1	12195477	CTTTTTTTTT/CTTTTTTTTTT	TTGTTTGTTTCCTTGTG GCA	AGAAAAATGCGATGGT TCTTT	60.1	250	INTERGENIC	--	--	--
Ca1_P1_12208944	Ca1	12208944	ATTTTTTTTTT/ATTTTTTTTTT	GGGTACCCCAAATTT ATTTGA	GACTAACGAGTGCTGC TAAGAAAA	59.0	807	DRR	Ca_02535	--	--
Ca1_P1_1225540	Ca1	1225540	ATAATAATTAATAAATAAAT/ATAAT AATTAATAATTAATAAATAAAT	ATGCCGATAACACCCT CATC	CCCGGTCAAACGTTA CTGT	59.8	688	INTRON	Ca_00151	O	--
Ca1_P1_1230729	Ca1	1230729	AATATATATATATATATATATATATA TATATATAT/AATATATATATATATAT ATATATATATATATAT	ATCACTCACCGAAAGC GTCT	TTTCCCATTCTTTGCC TCAC	59.9	867	INTRON	Ca_00152	--	--
Ca1_P1_12340166	Ca1	12340166	TCCGTCTCTCTTCACCG/TCCG	TCGCATCACATTCTAT CCCA	GCGCTCATGTGTTGAA AAGA	60.0	738	DRR	Ca_02515	K	ERF
Ca1_P1_1236378	Ca1	1236378	AATTATTATTATTATTATTATTATT ATTATTATTATCATTATTATTATTATTA TTATTATTATT/AATTATTATTATTATTA TTATTATTATTATTCATTATTATTAT TATTATTATTATTATT	AACCATAATCTCCTTCA CTCCTTG	ACCCCCAAGAACAAG TGAA	59.9	828	INTERGENIC	--	--	--
Ca1_P1_12375128	Ca1	12375128	ATAGTGTATT/ATAGTGTATTTTAGT GTATT	CAACGTAACATTTTCG GGCT	TTGTCTCGATTGAGAG GTGG	60.0	695	INTERGENIC	--	--	--
Ca1_P1_1237664	Ca1	1237664	GTC/G	CATCATCAATGAACGA GCCA	CGTAACTTGTGTTTGT CATGAGA	60.6	626	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_12376905	Ca1	12376905	GGTTGTT/GGTT	GAAGGTTTGCTACGCA GGAG	TCCACATTGCTTCTCC AAGA	60.0	143	INTERGENIC	--	--	--
Ca1_P1_12420239	Ca1	12420239	CAAAAAAAAA/CAAAAAAAAA	AAATGCAATCTTGTTT CCA	TTTTGGTAATGTGCCC ATGATA	58.1	595	INTERGENIC	--	--	--
Ca1_P1_12445428	Ca1	12445428	TAAA/TAAA	TAGTGCACACATCCC ACCA	ATGGCCCAAAATATGG GTTT	59.8	142	INTERGENIC	--	--	--
Ca1_P1_12550318	Ca1	12550318	ATTTTTTTTT/ATTTTTTTTT	CGTCTTTATTTATGCG AGCG	TAATGCCGATGGTGTC AAAA	59.9	252	INTERGENIC	--	--	--
Ca1_P1_12580190	Ca1	12580190	TAAAAAAAA/TAAAAAAAA	TAATCACTCACCATC GCCA	TTTCATTTTGGTGTGG CACT	60.1	476	INTERGENIC	--	--	--
Ca1_P1_12644727	Ca1	12644727	TGTA/TGTACGTA	TTGATTTTCAATTGGGA GCC	TGCCAGGATGTAACCC TTTC	59.9	807	INTERGENIC	--	--	--
Ca1_P1_12644922	Ca1	12644922	AC/A	ACCCAACGCAAAAC AATA	TGCCAGGATGTAACCC TTTC	60.2	440	INTERGENIC	--	--	--
Ca1_P1_12645139	Ca1	12645139	T/TTCAAAG	GAAAGGGTTACATCCT GGCA	TCAACATTGAAGAGGG TGTC	59.9	149	INTERGENIC	--	--	--
Ca1_P1_12690899	Ca1	12690899	TTAAATAAATAAATAA/TTAAATA AATAAATAAATAAATAA	TGCTTCATACCAACGT TCCA	CAGAGTTTTAAACGTA TGACGGTG	60.1	516	INTERGENIC	--	--	--
Ca1_P1_12722291	Ca1	12722291	TC/T	TGCAAAACAACCTC TGGA	TGGTTTTAGTGGATT CGGC	60.3	519	INTERGENIC	--	--	--
Ca1_P1_12727627	Ca1	12727627	TTATATATATATATATATAT/TTAT ATATATATATATATAT	CCTTACGGACAACCA GCAT	GCAAAAGAATTTGCAA CAAAGA	60.0	419	INTERGENIC	--	--	--
Ca1_P1_12767960	Ca1	12767960	ATTTTTTTT/ATTTTTTTT	TGGTTCGGTGATTTTA GAGAAGA	GAATGCACACAGTAAG CCCA	60.1	744	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_12774149	Ca1	12774149	TTAAT/TTAATCGTTATAAT	GAAGCAGCCTCAACCT CAAC	TCGCCACCTCTAAAT ATGAA	60.0	782	INTERGENIC	--	--	--
Ca1_P1_12776177	Ca1	12776177	T/TC	ATCTCCCCGTCAGATA TCCC	GACAATAACCAACCCAG TGCC	60.1	225	INTERGENIC	--	--	--
Ca1_P1_1280971	Ca1	1280971	TTATATATATATATATATATA/TTATA TATATATATATATATATATA	GGGGAAAACCTTGCTC CTAC	AGGGGGAGCAAAACA AAAAT	59.9	379	INTRON	Ca_00158	--	--
Ca1_P1_12816686	Ca1	12816686	CAAAAAAAAA/CAAAAAAAAA	CCTTCATTGGACTTGA TGGG	TAAATAGGACGGGTG CAGG	60.3	818	DRR	Ca_02467	U	WOX
Ca1_P1_12876413	Ca1	12876413	AAGGGTAGG/AAGG	AAGCACGCCTTCAAA CTTA	CCAAACATGCTGCTA ACCC	59.9	574	DRR	Ca_02459	R	C2H2
Ca1_P1_12879368	Ca1	12879368	T/TG	CATAAATGTCATGTCG TGGC	GATCTCTTCGTTGCGT CACA	60.0	375	DRR	Ca_02458	A	--
Ca1_P1_12927388	Ca1	12927388	GAAAAAA/GAAAAAA	ACCTACGACATCGGGT TTTG	TGGAAGAAACCAGAGT TGGG	59.9	919	INTERGENIC	--	--	--
Ca1_P1_12947634	Ca1	12947634	ATAAATTTAAA/ATAAATTTAAATTTA AATTTAAA	AACTTTGTGGTCGTTT TGGC	TGCTTATTGTGGCTGC TTTG	60.0	647	INTERGENIC	--	--	--
Ca1_P1_12950830	Ca1	12950830	TTT/TTTATT	GCATTGAGTGCATTTG GTTG	ACGCCATGCATACTGA CAGA	60.1	130	INTERGENIC	--	--	--
Ca1_P1_12956423	Ca1	12956423	CAAAAAA/CAAAAA	TTGTCGGATACCTGCT CAGT	TTGCAAAATCGGACAA ACAA	58.3	455	INTERGENIC	--	--	--
Ca1_P1_1297317	Ca1	1297317	ATTTTTTTTT/ATTTTTTTTT	TGCATGAACAAAGGGA CAAG	TAACATCCCGCGTAAC ATGA	59.7	625	INTERGENIC	--	--	--
Ca1_P1_12988934	Ca1	12988934	C/CGGG	ATCGGCATCCTTCCTT CTTT	GACGCTAAGCCCTTT CTCT	60.0	354	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_13005887	Ca1	13005887	TAAAAAAAAAAAAA/TAAAAAAAAA	TCGTCATCTAGCACCA GCAC	TCCCTCGTAAAGACCC ATCT	60.0	347	INTERGENIC	--	--	--
Ca1_P1_13007507	Ca1	13007507	TTAT/TTATATAT	CACGGGTCCAGATGGT TAGT	CCAAGCATCTTGGTGC ATAA	59.8	322	INTERGENIC	--	--	--
Ca1_P1_13012418	Ca1	13012418	TCC/TC	TTGATGAGGATCTTTC TATGGGA	TGCGATAATATTCATC CCGTG	59.9	306	INTERGENIC	--	--	--
Ca1_P1_13052834	Ca1	13052834	ACCCCCC/ACCCCCC	CACAAAGCCAAACCA AAAA	GGAGTCATTGTGAGG GAGGA	60.0	513	INTERGENIC	--	--	--
Ca1_P1_13117590	Ca1	13117590	TAATAAAAAATAAAAA/TAATAAA AATAAAA	TGTTGTTTACGGAATTT GGTTTT	TTTCGTTGTATATTTAA GCACGG	59.7	547	INTERGENIC	--	--	--
Ca1_P1_13134589	Ca1	13134589	TAAAAAAA/TAAAAAAA	CGATGGATGACTTCCC GTAT	TTTACGTTGACGCACG AGAC	59.8	587	INTERGENIC	--	--	--
Ca1_P1_1319197	Ca1	1319197	AATATATATATATATATATATATA TATATATATATA/AATATATATATAT ATATATATATATATATATA	AACCATGGCATTTC AATTA	GAGCACCAAAAAGTTG CACA	57.1	567	INTERGENIC	--	--	--
Ca1_P1_13196182	Ca1	13196182	GCTCTCTCTCTCTCTCTCTCTC/GC TCTCTCTCTCTCTCTCTCTCTC	GGAAATGCGGTTCAAT CACT	ATGTGGCGAAGATCCA AACT	59.9	199	INTERGENIC	--	--	--
Ca1_P1_13302943	Ca1	13302943	TTTA/TTACTTTCATCTTA	AAGATGGATTCAATGC AGGG	TTTTGTCTGAACCTTT GATTTTGA	59.9	373	INTERGENIC	--	--	--
Ca1_P1_13303635	Ca1	13303635	AA/AATTA	TTCAAAATCAAGGTT AGACAAA	CTACGGGGTGTGGT ATTGG	60.0	429	INTERGENIC	--	--	--
Ca1_P1_13342022	Ca1	13342022	TTATATATATATATATATATAT/TT ATATATATATATATATATAT	GTCCCATTTGTGGAAC CAGT	TCGGATCGGATCAAT TTCT	59.7	633	INTRON	Ca_14096	--	--
Ca1_P1_13342900	Ca1	13342900	GATATATATATATATATATATATA TATA/GATATATATATATATATATAT ATATATA	GGTACAACATGTTTAG ACGCTTG	CAATCCCGCGTTATT CTTA	58.8	278	INTRON	Ca_14096	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_13552505	Ca1	13552505	AT/A	GAAGAAGGTTCTTGG GAGG	GC GTGGTAGACGTGG AAACT	60.0	569	DRR	Ca_14122	F	MYB_related
Ca1_P1_13570743	Ca1	13570743	AT/ATCTCCTCCT	CCGGAAGAACATTCAA AGGA	TTCAAACCCAAACCTC TTCG	60.0	460	INTERGENIC	--	--	--
Ca1_P1_13671430	Ca1	13671430	T/TC	CGAGGAAGAGGTGGA TTCAA	TGGTTTATGATAGGTT CAATTTGG	60.2	348	INTERGENIC	--	--	--
Ca1_P1_13671513	Ca1	13671513	AACA/AA	CGAGGAAGAGGTGGA TTCAA	TGGTTTATGATAGGTT CAATTTGG	60.2	348	INTERGENIC	--	--	--
Ca1_P1_13671962	Ca1	13671962	ATTT/ATT	CCAAATTGAACCTATC ATAAACCA	AAAAGACCAAATCGGG AAAAA	59.2	748	INTERGENIC	--	--	--
Ca1_P1_13672025	Ca1	13672025	TA/T	CCAAATTGAACCTATC ATAAACCA	AAAAGACCAAATCGGG AAAAA	59.2	748	INTERGENIC	--	--	--
Ca1_P1_13672495	Ca1	13672495	CAAAAAAAAA/CAAAAAAAAA	TTTTTCCCGATTGGT CTTTT	TTTCCCGATTGCTCC TTTA	59.8	448	INTERGENIC	--	--	--
Ca1_P1_13672951	Ca1	13672951	TAAAAAAAA/TAAAAAAAA	TAAAGGAGCAAATCGG GAAA	AAGCCCCGTGAATAAT TGTG	59.7	506	INTERGENIC	--	--	--
Ca1_P1_13673338	Ca1	13673338	TTCCCCA/TTCCCCAATCCCCA	CACAATTATTCACGGG GCTT	TGTTCAGCCCTAGTCC AACC	59.8	187	INTERGENIC	--	--	--
Ca1_P1_13674092	Ca1	13674092	ATTTT/ATTT	AACTGGTTCGATTGCG TTTTT	TGAAAATTCGCATTC ACCA	59.9	382	INTERGENIC	--	--	--
Ca1_P1_13676235	Ca1	13676235	T/TC	CCGCTACAAGGCGATA GAAG	GGGTGTCATCATAGGT GGCT	60.0	856	DRR	Ca_14132	--	--
Ca1_P1_13676261	Ca1	13676261	ACT/ACTCT	CCGCTACAAGGCGATA GAAG	GGGTGTCATCATAGGT GGCT	60.0	856	DRR	Ca_14132	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_13677531	Ca1	13677531	TAAAAA/TAAAAA	ATCTGTCAATTTGTGGC TCCC	TTGGTTGAGAGGGTAT TCCG	59.9	657	INTERGENIC	--	--	--
Ca1_P1_13677982	Ca1	13677982	AAAC/A	CGGAATACCCCTCTCAA CCAA	GATTTTCCGAAAGGGA ACAA	59.9	314	DRR	Ca_14133	--	ERF
Ca1_P1_13678266	Ca1	13678266	TGGGGG/TGGGG	CGGAATACCCCTCTCAA CCAA	TCCAAAGTATTTCTGC ATTGAA	59.9	969	DRR	Ca_14133	--	ERF
Ca1_P1_13678320	Ca1	13678320	CATA/CATAACGAGCCTATA	TTGTTCCCTTTCGGAA AATC	TCCAAAGTATTTCTGC ATTGAA	59.0	675	DRR	Ca_14133	--	ERF
Ca1_P1_13679562	Ca1	13679562	TAAA/TAA	TAACCCCTATCCATGC CAAA	GCAAATCCGAGTCCA TGAT	60.1	524	DRR	Ca_14133	--	ERF
Ca1_P1_13680810	Ca1	13680810	ATTTT/ATTTT	TGGTTGAAGTGTGAAC AGGC	CCAATTTCCCTACCC AAAT	59.7	559	INTERGENIC	--	--	--
Ca1_P1_13682432	Ca1	13682432	CA/CA	TTTCTTCCTCGGCCTC TCTT	TTCGGCGTTACACTAG GGAC	60.5	812	INTERGENIC	--	--	--
Ca1_P1_13683741	Ca1	13683741	CTTTTTTTTT/CTTTTTTTTT	TCTAGGGCGTGCATGT GTTA	GACTTTGACCCATT CGAT	60.3	245	DRR	Ca_14134	--	MYB_related
Ca1_P1_13685328	Ca1	13685328	CTATA/CTA	CACCCATTGCTTGGTC TTTT	TGGTGAACCTTACTCG GTCC	60.0	650	INTRON	Ca_14134	--	MYB_related
Ca1_P1_13685418	Ca1	13685418	CATATATAT/CATAT	CACCCATTGCTTGGTC TTTT	TGGTGAACCTTACTCG GTCC	60.0	650	INTRON	Ca_14134	--	MYB_related
Ca1_P1_13685880	Ca1	13685880	TTAGATA/TTA	GGACCGAGTAAGGTT ACCA	TTTTGACACCACCCGT ACAA	60.0	205	INTRON	Ca_14134	--	MYB_related
Ca1_P1_13686356	Ca1	13686356	T/TCTC	TTGTACGGGTGGTGTC AAAA	GAGGGTGACTCTGCT GGAAC	59.9	655	INTRON	Ca_14134	--	MYB_related

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_13688361	Ca1	13688361	C/CG	TCACACGTTGTCATT GGAA	GGCTACATTGTGGT GAGGT	58.5	760	INTERGENIC	--	--	--
Ca1_P1_13688857	Ca1	13688857	CCCGCACACC/CCC	ACCTCCACCACAATG AGCC	GGGTAGCGGACTCAG GTGTA	59.9	312	INTERGENIC	--	--	--
Ca1_P1_13690477	Ca1	13690477	CAA/CAATCGGTTTTATAA	CCGGTTATTTAACCAT AACCAA	TGCAAGGAACAATGG CATA	57.9	200	INTERGENIC	--	--	--
Ca1_P1_13692764	Ca1	13692764	CTTTT/CTTTT	CGCCAGTGGTTATGCT CTTA	AAGGAACCACTTGA ACCG	58.9	875	INTERGENIC	--	--	--
Ca1_P1_13694461	Ca1	13694461	GTA/GTAATA	CCACTTCGCCACGTTT TTAT	CGGTTTATCGTCAAG CGAT	60.0	379	INTERGENIC	--	--	--
Ca1_P1_13694751	Ca1	13694751	TA/TAA	CCACTTCGCCACGTTT TTAT	TTTCAATTTCAACCCC AACA	60.0	882	INTERGENIC	--	--	--
Ca1_P1_13696144	Ca1	13696144	TAAAAA/TAAAA	TTTGC GTTACGAATTT GATGA	AGAAGTTGAAC TCAG AATCACA	59.2	757	INTERGENIC	--	--	--
Ca1_P1_13697223	Ca1	13697223	CAA/C	GCAAGCATTTTGGCA AACT	GGGCATTATTCTTAAA CCATACAA	60.3	546	DRR	Ca_14135	--	bHLH
Ca1_P1_13697453	Ca1	13697453	TAAAAAA/TAAAAAA	TCTGAAAACAATTTCCC CTTG	CTAGACCATGGCCGTT CAAT	59.1	865	DRR	Ca_14135	--	bHLH
Ca1_P1_13698221	Ca1	13698221	TG/T	TTGAACGGCCATGGTC TAGT	ATGGAATTATGGTGGC GTGT	60.5	611	DRR	Ca_14135	--	bHLH
Ca1_P1_13699506	Ca1	13699506	GAAAAAAAA/GAAAAAAAA	GGCAAGACCATTGAGC TCTC	CGGTTATGGGATGATT TAGGAA	60.0	921	INTRON	Ca_14135	--	bHLH
Ca1_P1_13701840	Ca1	13701840	AGAATGTATAT/A	TGCAAAACCAAGTCTG TCCA	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/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_13704708	Ca1	13704708	A/AT	CAAACCGACAAATT TTCAA	GGATATGCAATTGGGA TGCT	58.6	725	INTRON	Ca_14135	--	bHLH
Ca1_P1_13754063	Ca1	13754063	CATATATATATATATATATAT/CATATA TATATATATATATATATAT	CCATATCAATTTGGAAA ATTTGTG	AAATGATAACGCTTTT GCCG	59.5	387	INTERGENIC	--	--	--
Ca1_P1_13767969	Ca1	13767969	TA/TACA	TGTTCTTTTCACGTGC TTTG	CTCAACAAACGAGCCC TCTC	59.9	655	INTRON	Ca_14138	BK	bHLH
Ca1_P1_13814671	Ca1	13814671	TT/TTCCT	TGCTGATTTCAAGAA TCGAT	TGTGCAGCCAATAAAC CAAA	59.7	184	INTRON	Ca_14146	G	Trihelix
Ca1_P1_13822052	Ca1	13822052	GAA/GA	AAGCCGTGTCTCTCAA GCAT	CGAAGCAACGAAAAACA AACA	60.0	503	INTERGENIC	--	--	--
Ca1_P1_13841782	Ca1	13841782	GTTTTTTTTT/GTTTTTTTTT	CATCTCTATTTCGG CCTA	TGAATCAATGCAACTT TTTATGC	60.2	465	INTERGENIC	--	--	--
Ca1_P1_13887259	Ca1	13887259	ATTTTTTTTTT/ATTTTTTTTTT	GTAAGGCCCAAGCTAT CGGT	CCCAAAAACACCTGTA TCGG	60.5	516	INTERGENIC	--	--	--
Ca1_P1_13939746	Ca1	13939746	TA/TACTTTATTAATAA	TCAGGTGTCTCATCCA CTGC	TGGATTTTCAATGCCA GACA	59.8	755	DRR	Ca_07137	--	--
Ca1_P1_13950738	Ca1	13950738	TAAAAAAAAA/TAAAAAAAAA	CACAAAACCATATCC CCGT	TTGCGACAAATTAAGA CCCC	59.5	593	INTERGENIC	--	--	--
Ca1_P1_1397435	Ca1	1397435	CA/C	TGGAACAGCAACGTG GTAG	CAAAGGGTTGGATTTT CCAC	59.8	555	INTERGENIC	--	--	--
Ca1_P1_14094110	Ca1	14094110	TA/TAA	GAATTTCTTTTGGA GGAGAA	CCAACTACATTGTTTG TGCCA	58.7	442	INTERGENIC	--	--	--
Ca1_P1_14146591	Ca1	14146591	TTATATATATATATATATATATATATAT ATATATATATAT/TTATATATATATATAT ATATATATATATATATATAT	GGGAGAGTTCTGAG GAACA	TCAAATCCCTCCCAT TTCA	59.2	711	INTERGENIC	--	--	--

[illegible]

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_14995847	Ca1	14995847	ACATGCATGCA/ACATGCA	CAGCGCTTTTCCCAA TAAG	CCAAAAAGGGTGGAG ATTGA	59.8	359	INTERGENIC	--	--	--
Ca1_P1_15037301	Ca1	15037301	CATATATATATATA/CATATATATAT ATATATA	GTCACACGAGCATGGA AAGT	TAACCTGGCCAGTCAC CATT	58.7	578	INTERGENIC	--	--	--
Ca1_P1_15051879	Ca1	15051879	GATATATATATATATATATATATATA T/GATATATATATATATATATATATA TATAT	GCGACCACAAGCAGGT TAAG	CGACGAGAGTAATTGT GTCCA	60.8	803	INTERGENIC	--	--	--
Ca1_P1_15188200	Ca1	15188200	TTATATATATATATAT/TTATATATAT ATATAT	TCAGCCAAACCACAAT TTGA	TCCTAGTGCAGGTC GTTTT	60.1	661	INTERGENIC	--	--	--
Ca1_P1_15326926	Ca1	15326926	CATATATATATAT/CATATATATAT	GTTAAGCATCCCAAGG TGGA	AGCCAAGAGTTTGTGG AGTTG	59.9	626	INTERGENIC	--	--	--
Ca1_P1_15380342	Ca1	15380342	ATTCTTCTTCTTCTTCTT/ATTCTT CTTCTTCTTCTTCTTCTTCTT	GGCTAAGCCATAAGTT CCCA	TGAACAGGATTTGGAC GACA	59.2	238	INTERGENIC	--	--	--
Ca1_P1_1540452	Ca1	1540452	CTTTTTT/CTTTTTTTTTTT	AGTCTAAAGCCCCGA TTGT	ATTTGGCGGGTCTTGT GTAG	60.0	476	INTERGENIC	--	--	--
Ca1_P1_15437403	Ca1	15437403	CTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTATT A/CTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTAT TATTATTATTA	GAGGACCAAAACGGCA ATTA	GAGTTTGATAGAGTGG GGCG	59.9	323	DRR	Ca_06994	GMW	NAC
Ca1_P1_1559946	Ca1	1559946	GTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTATT/ GTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTATT ATTATTATT	AAAGCACACCCCATGC TAAC	ATATTGCAGAAGCACC ACCC	60.0	551	INTRON	Ca_00189	--	--
Ca1_P1_15641150	Ca1	15641150	GA/GGACAACCCATATA	AGGGAAAGACAAAGC AGCA	GGAGTCAAGCAAAGG CACTC	60.0	528	INTERGENIC	--	--	--
Ca1_P1_15667505	Ca1	15667505	AC/A	TCGGGCAAAAATTCTG ACAT	CAATCCCACAGGTAC GCTT	60.4	447	INTERGENIC	--	--	--
Ca1_P1_15811388	Ca1	15811388	TAAAAAA/TAAAAAAA	GCGAGATTTTCGACTT CTGC	TGCGGCAACGTAATT GTAA	60.1	590	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_15821141	Ca1	15821141	GTTATT/GTTATTCATTATT	GGGGGAATTGGTGAAA AGTT	ATTAAACCAGCCACAC AGGC	60.0	530	INTERGENIC	--	--	--
Ca1_P1_15835234	Ca1	15835234	TTTATTATTATTATTATTATTATT TTATT/TTTATTATTATTATTATTAT TATTATT	TCGTTTGCCGTTAACT AGGG	TTGGCCTAACCTGAAA GCAT	60.1	768	INTERGENIC	--	--	--
Ca1_P1_15849492	Ca1	15849492	CAAAAAAAAA/CAAAAAAAAAA	CCCCATTTTGTCTCT CCA	CCACTTTCGAAAACA ACGA	59.9	335	INTERGENIC	--	--	--
Ca1_P1_15849587	Ca1	15849587	AATATATATATATATATATATATA TATATATA/AATATATATATATATAT ATATATATATATATA	CCCCATTTTGTCTCT CCA	ATTCTTGGAGGAGCG GGTAT	59.9	872	INTERGENIC	--	--	--
Ca1_P1_15852981	Ca1	15852981	CAA/CA	TGGAGGAAAAATGTAC AACATCC	CGCTCGCGGTCACTA GTA	60.1	400	INTERGENIC	--	--	--
Ca1_P1_15865372	Ca1	15865372	TTATATATATATATATATA/TTATATA TATATATATATATA	AAAATGGGTTGGTGTC AAGC	ACAATAATGAAGGGGG AGCC	59.8	654	INTRON	Ca_06964	QR	B3
Ca1_P1_15890229	Ca1	15890229	ATTTTT/ATTTTTT	AATTCAAATGCGCTGC TTCT	TTGTCAATTACTTGCA TCTCCC	60.0	707	DRR	Ca_06963	--	--
Ca1_P1_15947037	Ca1	15947037	TTCTCTCTCTCTCTCTCTCTCTCTC T/TTCTCTCTCTCTCTCTCTCTCTC TCTCT	AAGAATGGCGTGAGCT TCTC	TGCATTTGCACTGAAA CGA	59.6	210	INTERGENIC	--	--	--
Ca1_P1_15952461	Ca1	15952461	GAAAAAAAA/GAAAAAAAAA	CCTTGGATTGGGTAC CTCA	CATTGGCCTCTCCATC AACT	60.1	422	INTERGENIC	--	--	--
Ca1_P1_16002199	Ca1	16002199	CTATATATATATATATATATATATAT AT/CTATATATATATATATATATATA TATATAT	TGGGAAAAATTGGTGCC TAAA	TGCTTTTGCCACACAA AAAG	60.3	612	INTERGENIC	--	--	--
Ca1_P1_1606579	Ca1	1606579	CTATTATTATTATTAT/CTATTATT ATTATTAT	TTCATCTGTCTCGCTC GATG	TGCAATTTTGA CTCTT CAAAC	60.1	557	DRR	Ca_00196	S	--
Ca1_P1_16078538	Ca1	16078538	CTTTTTTTTT/CTTTTTTTTT	TGCATGTTGTTGGTAG AGTCAA	GCACAAGGTATGCCAA ATGA	59.2	632	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_16087465	Ca1	16087465	AGG/AGGG	GACGAAAGCAGAACAG AACAGA	AATCGAGCATTGCATT TTCA	59.7	836	DRR	Ca_06942	--	bHLH
Ca1_P1_16092158	Ca1	16092158	CTATATATATATATAT/CTATATATA TATATATATAT	AGCTACGGTGACTCGG TTTG	CAACATGTCCATGCAG CATAC	60.3	710	INTERGENIC	--	--	--
Ca1_P1_16096244	Ca1	16096244	TG/TGG	ATGTAAGATTGGAAGC GGCA	CAATTGTTCCCACTT GCTT	60.6	298	INTERGENIC	--	--	--
Ca1_P1_16096283	Ca1	16096283	TATTTAATTT/TATTT	ATGTAAGATTGGAAGC GGCA	CAATTGTTCCCACTT GCTT	60.6	298	INTERGENIC	--	--	--
Ca1_P1_16106451	Ca1	16106451	ACCC/ACCCC	AGCCTTTGGCTGTCAC TCAT	CCATAATACAACTGT AGCCGC	59.9	341	INTERGENIC	--	--	--
Ca1_P1_16106759	Ca1	16106759	ATTTTTTT/ATTTTTT	TCAGCATTTACGCAC CTAC	AAGGGGATCAAATTGA AGTAAAA	59.9	723	INTERGENIC	--	--	--
Ca1_P1_16108380	Ca1	16108380	AT/A	CGAGAGCGATTACAT TTTC	ACGTGGGTTGGCAGA TAGAG	58.5	861	INTERGENIC	--	--	--
Ca1_P1_16110091	Ca1	16110091	GATATATAT/GATATATATATAT	AAATGTTATACGTTG GGAAAGA	AAAGGACGGGTGTAG TCTTACG	59.0	375	INTRON	Ca_06940	R	--
Ca1_P1_16116299	Ca1	16116299	AT/ATT	AATGCAACGGTTGGTT TGAT	GAATCTTGTATAAAT TTGGCGA	60.2	444	DRR	Ca_06940	R	--
Ca1_P1_16116426	Ca1	16116426	GA/GAA	AATGCAACGGTTGGTT TGAT	GCACAAATGAAAAGCA GAACA	60.2	826	DRR	Ca_06940	R	--
Ca1_P1_16118156	Ca1	16118156	AT/A	ATGCCATTTTGAAGAC TGCC	TGGGGGCAGTTACCC TTATT	60.1	489	INTERGENIC	--	--	--
Ca1_P1_16145317	Ca1	16145317	TAAA/TAAAA	TGGACATAATTAATG GCGG	TTGTATTGTGCAACTC AGGGA	58.4	341	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_16155793	Ca1	16155793	ATT/AT	GGCAACTCCATTGAAT TCGT	AATCCCCACCCTAAAT GACC	59.9	333	INTERGENIC	--	--	--
Ca1_P1_16155879	Ca1	16155879	TAAAAAAA/TAAAAA	GGCAACTCCATTGAAT TCGT	AATCCCCACCCTAAAT GACC	59.9	333	INTERGENIC	--	--	--
Ca1_P1_16158386	Ca1	16158386	TAAAA/TAAAAA	TAGAGCCGTCAAATG GACC	CACTAAATGGGTTGCG GACT	60.1	314	INTERGENIC	--	--	--
Ca1_P1_16158489	Ca1	16158489	TAAAA/TAAAAA	TAGAGCCGTCAAATG GACC	CACTAAATGGGTTGCG GACT	60.1	314	INTERGENIC	--	--	--
Ca1_P1_16159274	Ca1	16159274	AAAA/AAAAACAAA	ATGGTTTTAAGCATTG CCCA	TTAAGTTGCGAGGTTG CTCA	59.3	457	INTERGENIC	--	--	--
Ca1_P1_16160051	Ca1	16160051	ATTTTTTTT/ATTTTTTTT	AATGTCCTTGCAATT GGG	TACGTGCGCAAAGACA AATC	59.8	363	INTERGENIC	--	--	--
Ca1_P1_16160389	Ca1	16160389	TT/TTCT	CATGTGGATTGTCTT TGCG	GCACAAGATCCTCAA ACTGG	60.1	238	INTERGENIC	--	--	--
Ca1_P1_16162054	Ca1	16162054	CTT/CTTT	TCCTCATGGCTTTTCAT TCC	TCAATCTTCATAGGCT GAACGA	60.0	796	INTRON	Ca_06938	R	--
Ca1_P1_16162316	Ca1	16162316	TAAAAAAA/TAAAAA	CGTTGGCTCTTTGATT GGTT	CCGCAATAGTTTTCT TGGC	60.1	833	INTRON	Ca_06938	R	--
Ca1_P1_16164443	Ca1	16164443	AT/ATTAATAATGAGCACTT	ACATTCCCGAAGGGGT TATC	TCCCAATATCCCCAA AACA	60.0	444	CDS (large-effect mutations)	Ca_06938	R	--
Ca1_P1_16166882	Ca1	16166882	AC/A	CCAGAGGTGTCCACTG ATTACA	TTTTTAAACGTGCCA TGCT	60.0	495	DRR	Ca_06938	R	--
Ca1_P1_16167140	Ca1	16167140	TAAAA/TAAAAA	TTTTTAGCATGGCAG TTTT	CGGGTTGATTAGATT TCAAG	58.4	378	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_1617458	Ca1	1617458	AC/ACC	TGAAATCAAGTTTGGA AGAGTCA	TAAAAAGGAAATTGCG TCCG	58.9	350	INTERGENIC	--	--	--
Ca1_P1_16175034	Ca1	16175034	A/AAT	CCACGCGGTATTGTTT TTCT	TATGGAACGCGCGAC ATAAT	60.0	751	INTERGENIC	--	--	--
Ca1_P1_16182458	Ca1	16182458	TAAAAAAA/TAAAAAA	ATGTTGGATTGCGTT GTTT	ACAAACGGTTGTTGTG GGAT	60.4	292	INTERGENIC	--	--	--
Ca1_P1_16184284	Ca1	16184284	A/AT	AAACCATTTCCAACCAA ACG	TGGTCACAAGGAATGG ATCA	59.7	862	DRR	Ca_06937	--	--
Ca1_P1_16187503	Ca1	16187503	AGTTTATGACG/AG	GTGTCAACATTGGCAA TACG	TTCTTCGACCTCACA ATCC	59.8	382	CDS (large-effect mutations)	Ca_06937	--	--
Ca1_P1_16195304	Ca1	16195304	CAA/CAA	AAAAAGATGGAGCCAT AAGCC	CAGGTAAAATTGGGGT GGTG	59.6	562	INTERGENIC	--	--	--
Ca1_P1_16197519	Ca1	16197519	TA/TAA	TTGGTAAGTGGAAGAA GATGAGA	TTGGAGGCAACCAACA AAAT	58.0	789	INTERGENIC	--	--	--
Ca1_P1_16197580	Ca1	16197580	AAATAA/AAA	TTGGTAAGTGGAAGAA GATGAGA	TTGGAGGCAACCAACA AAAT	58.0	789	INTERGENIC	--	--	--
Ca1_P1_16199745	Ca1	16199745	AATATATATATA/AATATATATAT ATATA	TCAAGTCCCGTCTTAC CTCG	AGATAGGGACATGGC CTCCT	60.2	310	INTERGENIC	--	--	--
Ca1_P1_16199818	Ca1	16199818	G/GA	TCAAGTCCCGTCTTAC CTCG	AGATAGGGACATGGC CTCCT	60.2	310	INTERGENIC	--	--	--
Ca1_P1_16201985	Ca1	16201985	CCTA/CCTACTA	CCAACCGTGACCAAAA GACT	AGTGTGTTTGTGAATC CGGC	60.0	877	INTERGENIC	--	--	--
Ca1_P1_16203089	Ca1	16203089	TC/T	CTTGTGTGGGAAGGT CACT	TGTGTGACCCCTGCTG AATA	60.0	685	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_16206365	Ca1	16206365	AA/AATTA	CTCGCAAGTTGTAGT TCAATC	GGGGCTTACGAGTAC AGACTCA	58.9	128	INTERGENIC	--	--	--
Ca1_P1_16206512	Ca1	16206512	GATA/GA	GAGTCTGTACTCGTAA GCCCCCT	CGTCATCAACCACATT GATTT	58.9	603	INTERGENIC	--	--	--
Ca1_P1_16210891	Ca1	16210891	TA/T	CCAAGGTGGGAAAACA CTTG	GCCTCTTCCAGCTGTT TGTT	60.4	280	INTERGENIC	--	--	--
Ca1_P1_16211868	Ca1	16211868	CT/CTATAT	TGGTGGGACACATCAA GAAA	GGCCAAAATCGCACTT ACTC	59.9	465	INTRON	Ca_06936	--	bHLH
Ca1_P1_16212109	Ca1	16212109	CAA/CAATCTGTTAATCCAAA	TGGATTGGAATCAACC ACCT	TTGACCTTGACATAAC CCCA	60.2	539	INTRON	Ca_06936	--	bHLH
Ca1_P1_16214320	Ca1	16214320	ATAGTAGTA/ATAGTA	TGCCCTTTTACCAGGT TTTG	CCCCACTCTCTCTTT TTCC	60.0	538	INTRON	Ca_06936	--	bHLH
Ca1_P1_16215379	Ca1	16215379	TTTGAAGGAATCATTGAA/TTTGAA	GCGTGGAATTAGGAAG GACA	TGAGAGTTTGTGGTCC CCTC	60.1	634	DRR	Ca_06936	--	bHLH
Ca1_P1_16254186	Ca1	16254186	TAAAAAAAAA/TAAAAAAAAA	AAAAGGGCCATTAGT TGGG	TTTTGCCGGCTAATTG AAAC	60.2	321	INTERGENIC	--	--	--
Ca1_P1_16259144	Ca1	16259144	GATATATATATATATATATA/GATAT ATATATATATATATA	AAGTGTTTTGGGGAGA TGAGAA	GCGTGAACCTCTAAAG CCTG	60.0	386	INTERGENIC	--	--	--
Ca1_P1_16259872	Ca1	16259872	AATATATATATATATATATATATA TATATATATAT/AATATATATATATAT ATATATATATATATATATAT	GGCCAAACAGCTTTCC AATA	TTCCCTCCTAATTTTC CGC	60.1	760	INTERGENIC	--	--	--
Ca1_P1_16398704	Ca1	16398704	TAAAAAA/TAAAAAA	ATTGCGCCAGAGATTGT GCTT	TCATATCCTTATTTACA TTCTGACAAA	59.8	684	DRR	Ca_06924	--	--
Ca1_P1_16438862	Ca1	16438862	TAAAA/TAAA	TTTGTGGGAAACTTTG GAAT	TGCTTCAATTTTGAGG GGAC	57.0	996	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_16475601	Ca1	16475601	TATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAAAAA TAATAATAAAAAATAATAAT/TATAA TAATAATAATAATAATAATAATAAT AATAATAATAATAATAATAAAAAATA ATAATAATAATAATAATAATAATAA	TGGAAAAACCAAAAC CCAA	TTCTCCGTATTGGAG GATG	60.2	753	INTRON	Ca_06916	Z	WRKY
Ca1_P1_16509431	Ca1	16509431	C/A/C	AAATACGGTGCTTTTG GTGC	TCCGACGTGTAACCTC CCAT	60.0	714	INTRON	Ca_06913	--	--
Ca1_P1_16583164	Ca1	16583164	AATATATATATATATATATATA/AAT ATATATATATATATATATA	TTTGGCACTTTCTCATT CCC	GCCATGTATGGTCCAA GGTC	60.1	793	INTERGENIC	--	--	--
Ca1_P1_16629521	Ca1	16629521	TTTAATTAATTAATTAATT/TTTAATTA TTAATTAATTAATTAATT	AACGTTTGAGGATTCC GTTG	GAAACTCCAGCTCCAA AACG	60.0	370	INTERGENIC	--	--	--
Ca1_P1_16707141	Ca1	16707141	TTATATATATATATATATATATATAT AT/TTATATATATATATATATATATAT AT	CTTTACAACCGCCACA AACC	CGAACAAAGTGCTTGT GGAA	60.4	755	INTERGENIC	--	--	--
Ca1_P1_16739207	Ca1	16739207	TTAATAATAATAATAATAATAATAA TAATA/TTAATAATAATAATAATAA TAATAATA	CCACTCATCGTGTAAG CTTTTC	TTCACAATTGGGAGG GAAG	58.9	630	INTERGENIC	--	--	--
Ca1_P1_16782782	Ca1	16782782	TAAAAAAAAA/TAAAAAAAAA	TTTTGAATCCAAGGAC ACCC	GCATCCAACCTAATTG CACA	59.8	627	INTERGENIC	--	--	--
Ca1_P1_16866662	Ca1	16866662	AATATATATATATAT/AATATATATATA TATAT	CAATTTGGGTCGTCCA TCTC	TTAAGACCAACCCGAA CCTG	60.3	614	DRR	Ca_06887	--	--
Ca1_P1_16901920	Ca1	16901920	T/TA	AATTTCCCTTTTATGC GAC	GCCAGTGTTTGAAGT TGGT	60.2	422	CDS (FRAME SHIFT)	Ca_06882	R	GRAS
Ca1_P1_16943629	Ca1	16943629	TTTTAAATTTA/TTTTAAATTTAAATTTA	TTTTCTTAAGACGGGC ATGA	TGAAGGGTATACGGCA CCTC	58.4	776	DRR	Ca_06876	O	--
Ca1_P1_16976485	Ca1	16976485	AATATATATATATAT/AATATATATATA TATAT	AAAAAGAGTCCATAAA ACAACAAAT	TGAGAAGTTGCATTGG CTTG	57.2	602	INTERGENIC	--	--	--
Ca1_P1_17001643	Ca1	17001643	TTAATAATAATAATAATAATAATAA TAATAATAATAATAATAA/TTAATAATA ATAATAATAATAATAATAATAATAA TAATAA	TCAATTTTGTATCCAG CAAA	GGCGTGGCACAATAA GTGTA	59.1	732	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_17038860	Ca1	17038860	GATATATATATATATATATATA/GAT ATATATATATATATATATATATA	TCCTTCGTCTCCATTC ATCC	CGATTTGATTAGGCA TGTTTG	60.0	833	INTERGENIC	--	--	--
Ca1_P1_1707710	Ca1	1707710	TAAAAAAAAA/TAAAAAAAAA	TGAATTGAAGGGTTGG AGGA	TAATCCATTGCACCCC CTTA	60.4	479	INTERGENIC	--	--	--
Ca1_P1_17120792	Ca1	17120792	TAAAAAA/TAAAAAA	TGTCATGGTAGTATATT TTCGCAGA	ACATTGAGGGTGCA GGTAG	59.9	596	INTERGENIC	--	--	--
Ca1_P1_17121112	Ca1	17121112	CTT/CTTCTTTT	CCTGCACCCCTGAATG TAGT	CGATCACAAATTTTGA CTTATGTTG	60.0	557	INTERGENIC	--	--	--
Ca1_P1_17163326	Ca1	17163326	AATATATATATATATATATAT/AA TATATATATATATATATATAT	ATGGCATGGTGTGACA CTTC	ATCGAGGCATTGTAGG CTCA	59.4	402	INTERGENIC	--	--	--
Ca1_P1_17185713	Ca1	17185713	TTTGATATTTGATTAT/TTTGATATTTG ATTATTGATATTTGATTAT	GCGTTAAAGTTGGA CCCA	TGACGTGACATCGAGA GTCTG	60.0	594	INTERGENIC	--	--	--
Ca1_P1_17215249	Ca1	17215249	ATT/AT	GGTTGGGTTGAGGAG GAAAT	TGTGAACGAACACCTT CGAC	60.2	447	INTERGENIC	--	--	--
Ca1_P1_1723303	Ca1	1723303	TTGTAT/TT	ATGTCATCTGTGACCA AGCG	TGGATGAGTGAAAATT GATTGG	59.7	420	DRR	Ca_00216	R	--
Ca1_P1_1729960	Ca1	1729960	AAATAATAATAATAATAATAATAAT AATAATAATAATAATAATAATAATA ATAA/AAATAATAATAATAATAATA ATAATAATAATAATAATAATAATA TAATAATAATAATAA	GGAACGACCGTTGACT GATT	TTAACTCAGAGGAGCG CAGC	60.0	618	DRR	Ca_00217	--	TALE
Ca1_P1_1732737	Ca1	1732737	TT/TTGT	GGAAGCTGGCCCTAAA AGTT	TGGAGAAGGTGGATT GGTC	59.7	257	INTRON	Ca_00217	--	TALE
Ca1_P1_1736394	Ca1	1736394	C/CCTAT	GGCACTACTCCAAGAT GGAAA	TTTTCCAGCACTCATT GACG	59.2	738	INTERGENIC	--	--	--
Ca1_P1_1737545	Ca1	1737545	CTATATAT/CTATAT	TGAGGTGAAGTTTGG GTCC	TGCGTCAACTTGATAA AATATCG	59.9	786	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca1_P1_1744310	Ca1	1744310	ATGATGGATTGATGG/ATGATGG	TTGGCCTTCAATCAAC CTTC	ATGGTATTGTGCCACA GGGT	60.1	397	DRR	Ca_00218	--	TALE
Ca1_P1_1745242	Ca1	1745242	AG/A	ATTGTGATTGCATTGC ATGG	GAGTAGGTGCCTTCCC ACAA	60.4	548	INTRON	Ca_00219	--	TALE
Ca1_P1_17478284	Ca1	17478284	TTATATATATATATAT/TTATATATAT ATATATATAT	CTTTCATTCCCATTGTG ACCC	TGTTGGGAGGAAACA AGGT	60.2	573	INTRON	Ca_14787	--	--
Ca1_P1_17532277	Ca1	17532277	CTTTTT/CTTTTTT	AAAATTGGCAATGTT GTGTG	TCAATATTGGGCAAA GCAT	59.8	700	INTERGENIC	--	--	--
Ca1_P1_17595576	Ca1	17595576	AATATATATATATATATATATATATA TATAT/AATATATATATATATATATAT ATATATATATATAT	CGTGGCCATTTTATTG TCTCT	TCACAAAAGTCATTGG TGGAA	59.1	581	INTERGENIC	--	--	--
Ca1_P1_17655526	Ca1	17655526	CTTATTTTTTTATTTTTTAT/CTTAT TTTTTTAT	GTAGCATGCATCGCTT TTCA	TTGAGGGTCGAGTGA GCTTT	60.0	301	INTERGENIC	--	--	--
Ca1_P1_17666536	Ca1	17666536	TTTATTCATTATTAATTATTCATTATTA A/TTTATTCATTATTAA	GATGCCACCGTTGAGG TAAT	TGCACAAAAGGGAGA TGAA	59.8	661	INTERGENIC	--	--	--
Ca1_P1_17761773	Ca1	17761773	ATTTTTTT/ATTTTTT	ATAGGTTGTCGGGCAC TCAC	GTCAGACAAGCAGCT GCAAA	60.0	563	INTRON	Ca_14761	IOT	--
Ca1_P1_1779893	Ca1	1779893	A/AAGT	GGTGAATGTTTGCTTC CTCAA	TGCATCGTCACTTTAT ACGAAA	60.1	222	INTERGENIC	--	--	--
Ca1_P1_1780788	Ca1	1780788	TTT/TTTAAAAAAAAGATATT	AACCGAAATGCGACCT TTTA	CTGCGTCCCATAACCA AGTT	59.6	424	INTERGENIC	--	--	--
Ca1_P1_17816780	Ca1	17816780	TCC/TC	TGGCCATCAAGTGCT TCTC	TTTCCAGTCCTTCTGA TGCC	58.8	568	INTERGENIC	--	--	--
Ca1_P1_1783341	Ca1	1783341	T/TTA	CTGAACCTTTTGTCT GCC	TGACCTTCACACTGTT TGCC	60.0	940	INTRON	Ca_00224	S	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_1784592	Ca1	1784592	GTTT/GTTTT	TTGCAACAAGGCGTGT AAAG	CCGCAAGTAGAACTTT TGCG	59.9	892	DRR	Ca_00224	S	--
Ca1_P1_1785166	Ca1	1785166	AG/A	TCTACTTGC GGCAACT TGTG	CATCATTCCAATCAAG CACG	60.1	319	DRR	Ca_00224	S	--
Ca1_P1_17920630	Ca1	17920630	CATATATATATATATATATATATATA/C ATATATATATATATATATATATA	CCAAAAATCAAAAGGG TGGA	TTTCTTCTTTCTGCTC CCCA	59.8	574	INTERGENIC	--	--	--
Ca1_P1_179359	Ca1	179359	AATATATATATATATATATATATATA TATATATAT/AATATATATATATATATAT ATATATATATATATATATATAT	CCTCAAACAATCGCAA CCAT	ATTTTGGGGAAGTTGG ATTG	60.9	726	INTERGENIC	--	--	--
Ca1_P1_1794406	Ca1	1794406	GTTT/GTT	TCTTGAACGAGAAAC CGCT	ACGGTTTCTTGCTTTT TCCC	60.0	365	INTERGENIC	--	--	--
Ca1_P1_17969327	Ca1	17969327	NNA/A,C,G,T	AAATAAGTGCTGGTGT GGGG	AGGTGCTTTCGTTGAG GAGT	59.9	492	INTERGENIC	--	--	--
Ca1_P1_1797134	Ca1	1797134	ACACCAC/ACAC	CCCTTTCATCAACCTC GTGT	CTGGAACACTCCATGG TCCT	60.0	501	INTRON	Ca_00227	P	--
Ca1_P1_1800007	Ca1	1800007	AGTT/A	TGTTGCACAAGGTCCA GAAG	TTTTGGCCAAGAGATG GATG	59.9	601	DRR	Ca_00227	P	--
Ca1_P1_18007777	Ca1	18007777	TTTCTTCTTCTTCTTCTTCTTCTT/TTT CTTCTTCTTCTTCTTCTT	CTTCCACGTGCTTCAC TCAA	GAACGAATGTGATGGT CACG	60.0	524	CDS (large-effect mutations)	Ca_14742	--	--
Ca1_P1_18022154	Ca1	18022154	AATTATTATTATTATTATTATTATT ATTAAATTATTATTATTATTATTAT TATTATTATTA	GGGGACTAAACGGGA AACAT	TTGCACTGAAACTCAC TCCCT	60.1	438	INTERGENIC	--	--	--
Ca1_P1_1805050	Ca1	1805050	TAAA/TAAAA	TTCAGTTGACCTTTCT GCATTT	GGTTTGGGATTTTGC ATCA	58.9	727	DRR	Ca_00228	F	MYB_related
Ca1_P1_18078016	Ca1	18078016	TTCTCTCTCTCTCTCTCTCTCTCTC TCTCTCTCT/TTCTCTCTCTCTCTCTC TCTCTCTCTCTCTCTCT	CCCTTTTCTACCACCA TCCA	CAACAATGTCTTTCCT TGCG	59.8	791	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_18088	Ca1	18088	TA/TAA	CCGCTTGTTTTCTTTG CAG	TTGATTGCTTGTGCT CCAG	60.9	543	INTERGENIC	--	--	--
Ca1_P1_1811628	Ca1	1811628	AATGT/AATGTTATGT	TGTGAACGTACTTTGA GGCG	TGGCACTTACCTCTGG CTTT	59.9	469	INTERGENIC	--	--	--
Ca1_P1_1817297	Ca1	1817297	ATTTTT/ATTTT	TTCCAATTTCAACACAT GCC	TGGAAAAATGGCCAGA GAAG	59.4	504	INTERGENIC	--	--	--
Ca1_P1_1817917	Ca1	1817917	G/GGAA	CTTCTCTGGCCATTTT CCA	ATTGATTCGGCATAGC CAAG	60.2	752	INTERGENIC	--	--	--
Ca1_P1_18181716	Ca1	18181716	AATATATATATATATATATATATATA /AATATATATATATATATATATATATA ATATA	CGAATACTCATGTTTT TTGATCTG	ACCCAACGTAGCACGT TACC	59.9	626	INTERGENIC	--	--	--
Ca1_P1_18191422	Ca1	18191422	CAAA/CAAAA	CCAATGCTCAACTGCC CTAT	ATGAAGTGCTGGTACT GGGG	60.1	486	INTERGENIC	--	--	--
Ca1_P1_1820515	Ca1	1820515	AT/ATT	TGTTGACATTAAGGAA GACCGTT	GCTGTTACTACATGCT CTTCAA	59.9	823	INTERGENIC	--	--	--
Ca1_P1_18298335	Ca1	18298335	TCC/TC	GGTAATGCCTCGTACA AAACAA	CATTCTTATGCCTCC TACACC	59.1	751	INTERGENIC	--	--	--
Ca1_P1_18299880	Ca1	18299880	TTCCTATCCTATCC/TTCCTATCC	TGGATCACTCACCTCT CTTCC	TGGAAGTGGTGGTTTT GTTG	59.2	185	INTERGENIC	--	--	--
Ca1_P1_18300800	Ca1	18300800	ATTT/ATT	AGCAAGAAAAATTGAAG GCCA	GGAAGCTTTAAAGGGA GCAAA	59.8	161	INTERGENIC	--	--	--
Ca1_P1_18301437	Ca1	18301437	AATT/A	TGATAAGCTAACAGGC CAAAAA	ACATGGGCTAGCAAGA AACC	58.9	417	INTERGENIC	--	--	--
Ca1_P1_18317638	Ca1	18317638	T/TG	TCATTTTCAACCCTTAG CAACA	TGGTAAGGTATACGCG GGAG	59.6	690	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_18317709	Ca1	18317709	TAAAAAA/TAAAAA	TCATTTTCAACCTTAG CAACA	TGGTAAGGTATACGCG GGAG	59.6	690	INTERGENIC	--	--	--
Ca1_P1_18325523	Ca1	18325523	AGG/AG	CGGATCATTACACACT TGCG	GCCAAAGCCATGTTTT CAAT	60.1	324	INTERGENIC	--	--	--
Ca1_P1_18325896	Ca1	18325896	TC/T	ATTGAAACATGGCTT TGGC	TTTTGGAGGAACACG GCAC	59.9	648	INTERGENIC	--	--	--
Ca1_P1_18328170	Ca1	18328170	GTTTTT/GTTTTTTT	TTAAACCACAAAATG GGGC	GAGGCAAAGCTTCCAA ATCA	59.7	475	INTERGENIC	--	--	--
Ca1_P1_1835247	Ca1	1835247	ATGAC/A	TCATAAGCCAGAACCC AAGC	GGTGGTGGAGATTCC AAGAA	60.2	448	INTERGENIC	--	--	--
Ca1_P1_18364053	Ca1	18364053	GAAA/GAAAA	CCCGTAGCAAGACTTG AAGC	TTGGAGAAACTTTTCC GCTG	60.0	627	INTERGENIC	--	--	--
Ca1_P1_1836845	Ca1	1836845	TATTTTAATT/TATTTTAATTTAATT	CATTTCATACCGTTT CACG	AGCACCACTTCTTCAT TCAAAA	60.0	704	INTERGENIC	--	--	--
Ca1_P1_1841034	Ca1	1841034	TTTCTTCT/TTTCT	TCAAGGTGTTGATTGCG GTAGG	TTTTGCAACCCGGTCT ATTCT	60.0	595	INTERGENIC	--	--	--
Ca1_P1_1841061	Ca1	1841061	TAAAA/TAAAAAAA	TCAAGGTGTTGATTGCG GTAGG	TTTTGCAACCCGGTCT ATTCT	60.0	595	INTERGENIC	--	--	--
Ca1_P1_1841424	Ca1	1841424	A/AT	GAATAGACCGGGTTGCG AAAA	CCTCTTTCCGGACAAC ACAT	59.9	302	INTERGENIC	--	--	--
Ca1_P1_1841547	Ca1	1841547	G/GATTATTCGTT	ATGTGTTGTCCGGAAA GAGG	TGAATCCGGAATAGAA CCGA	60.0	147	INTERGENIC	--	--	--
Ca1_P1_1843109	Ca1	1843109	C/CG	AAGCCATAATACGCC ACAG	TGACGAGTCACCATCT TTGC	60.0	600	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_1843387	Ca1	1843387	ATATT/AT	CAACCAAAAATGCGAC TTGA	GCCAAGCTAAGCTGAC GAGT	59.7	526	INTERGENIC	--	--	--
Ca1_P1_18441371	Ca1	18441371	CACAAGAGAC/CAC	CCCTCTGTATGCCAGT CGAT	TGGCATTGATGATGGC TTTA	60.1	771	INTERGENIC	--	--	--
Ca1_P1_18441535	Ca1	18441535	CCGGACGG/CCGG	TTGACTGAGCAAGGCA CAAG	TGGCATTGATGATGGC TTTA	60.2	382	INTERGENIC	--	--	--
Ca1_P1_18472041	Ca1	18472041	CAAAAAAAAA/CAAAAAAAAA	CCTACATTCGCACGAG TTCA	TTTTTCTCCAGTTTGG GTCCT	59.9	404	INTERGENIC	--	--	--
Ca1_P1_1849075	Ca1	1849075	AATTATTATTATTATTATTAT/AATT ATTATTATTATTATTAT	GAATTCACGGTGTGG GACT	TGTTTGAGCCAATGT GGAA	59.8	271	CDS (large-effect mutations)	Ca_00232	K	MYB
Ca1_P1_18495696	Ca1	18495696	A/AT	CGGCATTATTTTGGTC TCGT	TTTGATGTTACGGCT TCAA	60.0	679	INTERGENIC	--	--	--
Ca1_P1_1850030	Ca1	1850030	CAATTAATTA/CAATTA	GTTGTCCGTCCTTCCT GGTA	GGACAACCGAAGAGG ATCAA	60.0	563	INTRON	Ca_00232	K	MYB
Ca1_P1_1852604	Ca1	1852604	TA/TAA	ACACGGCGTTCATTT CTTC	CAAACCATGGGAGAGA GAGC	60.1	843	INTERGENIC	--	--	--
Ca1_P1_18552012	Ca1	18552012	ATTTTTTTT/ATTTTTTTT	TCTGATGCAGTGTTCG GCTC	GCTTTCTTTGCTGCGC TTGG	60.0	331	INTERGENIC	--	--	--
Ca1_P1_18609095	Ca1	18609095	ATATTATTATTAT/ATATTATTATTAT T	CCCTCTACGAATTCCA AAAGAA	CGATTTGCTTTCAATTT TGG	59.6	540	INTERGENIC	--	--	--
Ca1_P1_186383	Ca1	186383	T/TC	TTCTGCATCACCATCT GAGG	TGATGAAGATCCCCCA AGAG	59.8	783	INTRON	Ca_00014	--	--
Ca1_P1_18688865	Ca1	18688865	TTGT/TT	TAGCAGCTGGAGGAAC ATGA	GCACCCAGTGAAGAC CCAT	59.5	301	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca1_P1_18703001	Ca1	18703001	CAAAA/CAAA	AATGGTGGCTCTACCG AGTG	TGGTTTTGTTGACTG CTGC	60.1	536	DRR	Ca_17385	--	WRKY
Ca1_P1_1874080	Ca1	1874080	AC/ACC	AACATCGTGCCCTCAT ATCC	CCCAGATCAAACAG AAGC	59.8	316	INTERGENIC	--	--	--
Ca1_P1_18756557	Ca1	18756557	AATATATATATATATATATATATATA TATATATATATATA/AATATATATAT ATATATATATATATATATATATATAT ATATATATATA	TGACTTGATATTTTGC TCCA	CACCCAAAGTTTAATT GGTTCA	58.2	671	INTERGENIC	--	--	--
Ca1_P1_1875806	Ca1	1875806	T/TATA	TCCAAGGTGGGTCAA AGAC	ACGTGTTTTTAATTC GCCG	59.9	574	INTERGENIC	--	--	--
Ca1_P1_1876420	Ca1	1876420	AT/ATACGTAGTTCGGTTGAGT	CGGGTCTTCAAATGG AATG	CAAAGGAACGTGCTT CCAG	60.3	861	INTERGENIC	--	--	--
Ca1_P1_1882571	Ca1	1882571	TC/T	ATATCGTTTTTACACC CGC	GGTGCAAATGCAAGA GTCAA	59.8	282	INTERGENIC	--	--	--
Ca1_P1_1882757	Ca1	1882757	CTA/CTATA	TTGACTCTTGCAATTG CACC	ATGCAGGAATGTTGG GTAA	59.8	140	DRR	Ca_00237	A	--
Ca1_P1_1882903	Ca1	1882903	GT/GTCAGCTTCTAT	TTGACTCTTGCAATTG CACC	ACATATGCGATTGGGA CACA	59.8	581	DRR	Ca_00237	A	--
Ca1_P1_1883092	Ca1	1883092	C/CT	GCACGTGCCCCACTTA TACT	ACATATGCGATTGGGA CACA	60.0	244	DRR	Ca_00237	A	--
Ca1_P1_1883148	Ca1	1883148	G/GA	GCACGTGCCCCACTTA TACT	ACATATGCGATTGGGA CACA	60.0	244	DRR	Ca_00237	A	--
Ca1_P1_18868658	Ca1	18868658	CGG/CGGGAATGG	AATCGATTGATTCAGC CCAG	CGTTTTTCAAAGCGAG GGTA	60.0	707	INTERGENIC	--	--	--
Ca1_P1_18880691	Ca1	18880691	ATATTAT/ATATTATTAT	TCATTTCTTGCGTCTC CCTT	CAAAAACCACATTCGC ACAC	59.8	195	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_1888179	Ca1	1888179	TAAAAAA/TAAAAAAA	CCTCACCCCATTTCC TTTT	ACCATGAACCATTGCC AAGT	60.2	455	INTERGENIC	--	--	--
Ca1_P1_1888709	Ca1	1888709	TAAAA/TAAA	CCAATGTGCCACTTGT TGAC	CATTGGCTTGTTGG CATA	60.0	627	INTERGENIC	--	--	--
Ca1_P1_1888957	Ca1	1888957	GGA/G	CCTTACCCACCCAAC ACTA	GGGTCAAAGTTCAATT GGGA	59.7	622	INTERGENIC	--	--	--
Ca1_P1_18899804	Ca1	18899804	CTATATATATATATATATAT/CTATA TATATATATATATATATAT	GCTTCAATGTGCACGA TACG	TTCTTTGTTGGTAGGG CACC	60.3	237	INTERGENIC	--	--	--
Ca1_P1_18904416	Ca1	18904416	ATTGTTGT/ATTGTTGTTGT	TTTCAGAGCACAAATG CCAG	AACAAGCCGAGAGCTT ACCA	60.0	767	INTRON	Ca_17369	--	--
Ca1_P1_18928985	Ca1	18928985	CTTATTTATTTATTTATTTAT/CTT ATTTATTTATTTATTTATTTATTT AT	TTTACCCTATCCACA CCCC	TCCAATGATTCCTGTT TTTGC	60.8	613	INTERGENIC	--	--	--
Ca1_P1_18957444	Ca1	18957444	C/CA	AACACCCCTATGTGGG ATGA	ATAACCCAACACCCAA TCCA	60.1	425	INTERGENIC	--	--	--
Ca1_P1_1903048	Ca1	1903048	GTT/GT	ATTGTGACCCAAGCAA GACC	ATGTTTGCTGATTCAA GGGG	60.0	479	INTRON	Ca_00238	R	--
Ca1_P1_19040329	Ca1	19040329	TTATATATATATATATATATATAT A/TTATATATATATATATATATATA TATATA	TTGTGCGAATGAACCT TTAATAATG	CGATTGTGCTTCCCA CATCT	59.6	715	INTERGENIC	--	--	--
Ca1_P1_19084336	Ca1	19084336	TGCAGG/TG	ACAACAAACCGTGCAA TCAA	ACCCTGGATGCTTGTA TGAA	60.0	631	CDS (FRAME SHIFT)	Ca_17356	--	NF-X1
Ca1_P1_1909356	Ca1	1909356	T/TTTA	TGACAAATGCACAGTT GGTTT	TGGAAGGAGGAATGTT TTGC	59.1	695	INTRON	Ca_00239	--	--
Ca1_P1_19093958	Ca1	19093958	GTTATTATTATTATTATTATTAT/G TTATTATTATTATTATTATTATTAT	ATGCTAGGTCGTTCTG CAGG	AGTATGGCATGGCCTG AAAG	60.3	510	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_1909441	Ca1	1909441	T/TTAAAAA	TGACAAATGCACAGT GGTTT	TGGAAGGAGGAATGTT TTGC	59.1	695	INTRON	Ca_00239	--	--
Ca1_P1_1910096	Ca1	1910096	TTATATATATATATATATATA/TTATA TATATATATATATA	GCAAAACATTCCTCCT TCCA	AGGTCGCTGTTCTCAC CACT	60.1	511	INTRON	Ca_00239	--	--
Ca1_P1_1913927	Ca1	1913927	AATATATATATATATA/AATATATAT ATATATA	TCTTTCACGTGGTTGC ATCT	TGACGTGACAAAATAT TAAATGAGG	59.3	795	INTERGENIC	--	--	--
Ca1_P1_19150973	Ca1	19150973	CTT/CT	AACTAGCCCGTCTTTG GGTT	GAAAACAAAAGCTTTA CGGTCA	60.0	488	INTERGENIC	--	--	--
Ca1_P1_1915229	Ca1	1915229	CTCAT/CTCATCTGTTTCAT	TGGATACACAAAACC GAACA	CACCTTTTCCATCCAT CGAC	58.9	709	INTERGENIC	--	--	--
Ca1_P1_19168	Ca1	19168	GCTCTCT/GCTCT	CAGAACCGAGGAATTA AGCG	AGGCTTGAAGCGTGG TAATG	59.8	637	INTERGENIC	--	--	--
Ca1_P1_1917237	Ca1	1917237	GAAAAA/GAAAA	TGGTTGATGAAAGAGA GATGGA	TGTAACAAGCAGATGG AATCTTG	59.7	247	INTERGENIC	--	--	--
Ca1_P1_1926263	Ca1	1926263	TAA/TAAA	AGCCTATGTTTGGTTC CACG	ATGCTCGAATCTGTTT TGGG	60.0	797	INTRON	Ca_00240	--	C3H
Ca1_P1_1930262	Ca1	1930262	ATTTTTTTT/ATTTTTTTTTT	GGCAACATTTTACAAA AGTTAAGG	AGTTTGATTAATGTCG GGCG	58.3	318	INTERGENIC	--	--	--
Ca1_P1_19308287	Ca1	19308287	GA/GAA	TGTTTGACTCATTGTAC CTCGATT	CAACAACCTCTCATGC TCGC	59.9	244	INTERGENIC	--	--	--
Ca1_P1_19394808	Ca1	19394808	TAGAGAGAGAGAGAGAGAGAGAGAG AGA/TAGAGAGAGAGAGAGAGAGAGA GAGAGAGA	CAAACTACTGGGAAC GGTG	AAAAGGGGTCAATTTG AGGG	59.0	428	INTERGENIC	--	--	--
Ca1_P1_19422873	Ca1	19422873	CTTATTATTT/CTTATTT	GCCCATACCTAGCCC ATTT	TCGTGTCCCAAACTC AATG	60.2	713	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_19423044	Ca1	19423044	TAAAAAA/TAAAAA	TCTTTGAGTTGTTAGG ATACAAGTGG	TCGATTATGCGTAGGG AAGG	60.0	728	INTERGENIC	--	--	--
Ca1_P1_19423865	Ca1	19423865	ATTATTTATTTATTTATTTA/ATTA TTTATTTATTTATTTATTTATTTA	ACCGTTTTTAACGGAT GTCG	TGTTCAAACCCGGGAG TAAG	59.9	525	INTERGENIC	--	--	--
Ca1_P1_19431535	Ca1	19431535	TCA/T	TCTGATGCAGTGTTCG GCTC	GTGATAAAGCGCTCAA CGGT	60.0	688	INTERGENIC	--	--	--
Ca1_P1_19431572	Ca1	19431572	TAAAAAA/TAAAAAAA	TCTGATGCAGTGTTCG GCTC	GTGATAAAGCGCTCAA CGGT	60.0	688	INTERGENIC	--	--	--
Ca1_P1_19493855	Ca1	19493855	AC/A	TAGCAGACTGCCACGA TCAG	TGTGACATTGGGTGTC GAAT	60.2	446	INTERGENIC	--	--	--
Ca1_P1_19498678	Ca1	19498678	TTTTGATCCTTTGAT/TTTGAT	GCCCCGAGTTAACAACA AACG	ATCGATTTCCTCAGCA CTGG	60.5	374	INTERGENIC	--	--	--
Ca1_P1_1950794	Ca1	1950794	CAAAA/CAAAAA	TCGATCGCTAGTGTGA CTGAA	TTGAAGAATGTGTGGG TGGA	59.6	625	INTERGENIC	--	--	--
Ca1_P1_19508791	Ca1	19508791	TT/TTATAT	CAGCATAGAGGCCAAAC GACA	TCATGTGGTCGCTTTC TCAG	60.0	817	INTERGENIC	--	--	--
Ca1_P1_1951397	Ca1	1951397	CATT/CATTATT	TATCCTCCACTCTACG CGCT	GCTAGCATGAGTGGC CAAAT	60.0	172	INTERGENIC	--	--	--
Ca1_P1_19536862	Ca1	19536862	TCCCC/TCCCCC	TAGCACCTTCCTCCCA GAAA	CTACCAACAGAAAGGC CCAA	59.8	352	INTERGENIC	--	--	--
Ca1_P1_19559477	Ca1	19559477	GTATATATATATATATATATATAT GTATATATATATATATATATAT	AAGTTGAGGCCACAAT GTCC	TAACCATGTCAATTCC CCCT	60.0	274	INTERGENIC	--	--	--
Ca1_P1_19632190	Ca1	19632190	AATATATATATATATAT/AATATATA TATATATAT	CAATTGGCCACATTTTG ACG	CAATGAACATGTTGAA CCCG	60.0	679	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_1963997	Ca1	1963997	ATATTTATTT/ATATTTATTTATTT	AGGCAAACTTTTG CACC	TTACAATGTCATAG GGGA	60.2	317	DRR	Ca_00244	--	B3
Ca1_P1_1966252	Ca1	1966252	TTCTCT/TTCTCTCT	GGCAAGAGAGCATCAA AAGG	CAAGTGAAGTTTGTAT TCAAGGG	60.0	703	DRR	Ca_00245	U	bZIP
Ca1_P1_1968368	Ca1	1968368	CAAAGAAAGAAAGAAAGA/CAAAGAA GAAAGA	TCCAATCCATTCCACC ATTT	TGCATTCCATTTAGCA GCAG	60.0	775	INTERGENIC	--	--	--
Ca1_P1_19687346	Ca1	19687346	TTTTTATTT/TTTTTATTTATTTT	TCACCACTGATATTTAT TGAAGAACC	TCGATGTTGTTTGCCA ATGT	59.7	393	INTERGENIC	--	--	--
Ca1_P1_1969241	Ca1	1969241	AAATTAA/AAA	AGAAGAGAACGGTTGC GTGT	GAAAACTACCACGGCC AAAA	59.9	604	INTERGENIC	--	--	--
Ca1_P1_1970241	Ca1	1970241	CAA/CAAAA	CGGATTTGGGCAGTGA TATT	TTTCGAGGTGGTTTCATT TCTT	59.8	870	INTERGENIC	--	--	--
Ca1_P1_1974312	Ca1	1974312	A/AG	TTCAAATGACCAACCA GCAA	CAAGAGGAAGCAACAC AGCA	60.1	450	INTRON	Ca_00246	A	--
Ca1_P1_1975964	Ca1	1975964	TAA/TAAA	CGTGCAACTTCTTTGA CTGG	CAGATTCAATTGCCTG CTCA	59.5	743	INTRON	Ca_00246	A	--
Ca1_P1_1979258	Ca1	1979258	C/CCTGA	TACGCCTTTTCAGTT GGAC	CCGTGCTAGTAGCCCA CATT	60.1	621	INTERGENIC	--	--	--
Ca1_P1_1979311	Ca1	1979311	AATATATATATATA/AATATATATATA	TACGCCTTTTCAGTT GGAC	CCGTGCTAGTAGCCCA CATT	60.1	621	INTERGENIC	--	--	--
Ca1_P1_1985681	Ca1	1985681	TATG/T	TGAAAAGACCCTACTC ACCCA	TGGGGCCTACAATTTA TCCA	59.6	209	INTERGENIC	--	--	--
Ca1_P1_1988980	Ca1	1988980	TC/TCCC	ACCTGCCAAAAGCAGA AGAA	CACTGAGTTTTCGGGG AGAA	60.0	776	INTRON	Ca_00248	T	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_19903627	Ca1	19903627	TA/TAATTGGCAGCA	TGGGCTGAAAAGCAACTTCT	ACCAGTGTCTGTTCCCAATC	60.0	233	INTRON	Ca_08847	K	--
Ca1_P1_1990497	Ca1	1990497	TAA/TA	TGGGTCAACGTTGGTGCTA	CCACTCAAAGGCTCACACAA	60.0	769	INTERGENIC	--	--	--
Ca1_P1_19909063	Ca1	19909063	TTATATATATATATATATATATATATATATATAT/TTATATATATATATATATATATATAT	CCATAATTTTTGGATCCCTCT	TTTGCTTATGAGAAAAAGGAGATGT	57.1	235	INTERGENIC	--	--	--
Ca1_P1_1991447	Ca1	1991447	GATATATATATATATATATATATATATATATAT/GATATATATATATATATATATATATAT	CCAACCCTTAGGGGACAAAT	CATGTGCCAGAAAGCTCAAA	60.0	505	DRR	Ca_00249	CR	HB-other
Ca1_P1_1992977	Ca1	1992977	TAC/TACAC	AGCCTGCACCTGCACTTAAT	ATTATCGGCATTCAAGGTGG	59.9	185	INTRON	Ca_00249	CR	HB-other
Ca1_P1_19939016	Ca1	19939016	AATATATATATATAT/AATATATATATATATAT	CATCAGTTTGCTTCCCATCA	TGCAACTCAGGGATTAAATG	59.6	654	INTERGENIC	--	--	--
Ca1_P1_1995874	Ca1	1995874	G/GT	CGAGTATTTGCCACGGTTTT	TTCAC TTGATTTGGGAGGG	60.0	595	INTRON	Ca_00250	CR	HB-other
Ca1_P1_19962858	Ca1	19962858	CTTTTTTTTT/CTTTTTTTTTTT	TGGGATCGCCACATGTATATT	TTTTCTGTGAATCATTGTCACTC	60.1	486	INTERGENIC	--	--	--
Ca1_P1_1999397	Ca1	1999397	AGTGT/AGT	GACGAATATCGGTGCAATACAA	GTCCAAACATCGGAAAAGGA	59.0	706	INTERGENIC	--	--	--
Ca1_P1_2001214	Ca1	2001214	GAAAAA/GAAAAAA	CATCATACAAAGCACC GGG	GTTCCGTGTTTTCTTCCAA	59.9	410	DRR	Ca_00251	J	--
Ca1_P1_2001586	Ca1	2001586	TAAG/TAAGAAG	AGCACTGGGCAGAAAG AAAA	TATCCCTGGCTGATGTAGCA	60.0	538	DRR	Ca_00251	J	--
Ca1_P1_2006509	Ca1	2006509	ATT/AT	ATGAAACGAATTGCTCAGGG	TGTGGTTTGGGTGTGAGAGA	60.1	924	DRR	Ca_00252	--	TCP

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_2007237	Ca1	2007237	GGTG/GG	TCTCTCACACCAAC CACA	TGTGAATTTTGCCAC TCAA	60.1	741	DRR	Ca_00252	--	TCP
Ca1_P1_2008759	Ca1	2008759	GCCCC/GCC	ATCTTGTCACCGCAG TCTT	TGGTATGTATGAAGAA ATCCGAA	59.9	181	INTERGENIC	--	--	--
Ca1_P1_20097334	Ca1	20097334	CNNNNNNNNNNNN/CNNN	TTTCGTTTGCATAGT GATCC	TCATTTCAAGATCTCG GTTCC	60.1	250	INTERGENIC	--	--	--
Ca1_P1_2011618	Ca1	2011618	AGG/AG	ACCATCAGGGCAAAGA TCAC	GCCCCTCAACCAATTA CAAA	59.9	969	INTRON	Ca_00253	E	--
Ca1_P1_2015582	Ca1	2015582	TTGT/TT	CTCTAGAACCCCAAC TCCC	CTCCAATGTTGGGAGA CTACG	59.9	499	DRR	Ca_00253	E	--
Ca1_P1_2023898	Ca1	2023898	TAA/TAAA	TAATGAGGGCTTGAAT TCGC	TCCGTTGTTGAGGATG ATGA	60.2	386	DRR	Ca_00255	--	--
Ca1_P1_2028913	Ca1	2028913	CT/CTT	ACCTGTTCCGCTTCTC TCAA	CCCCTTCTGTGAAGT CCCC	59.7	597	INTRON	Ca_00256	U	M-type
Ca1_P1_203179	Ca1	203179	CAATAATAATAATAATAATAAT AACATAATAATAA/CAATAATAATAAT AATAATAATAACAATAATAATAA	CAGCGAAGAAAATGAG GAGG	GCTTTATCCTGCCAAA ACCA	59.9	719	CDS (large-effect mutations)	Ca_00016	A	C3H
Ca1_P1_2049868	Ca1	2049868	ATT/ATTT	TGATGTTTCGTTTTCGT AAGGA	ATTGGCGTCAACCTTG TTTC	59.6	619	INTERGENIC	--	--	--
Ca1_P1_2057712	Ca1	2057712	TAAAAAA/TAAAAA	CGCCACTTCTTTGAA TCGT	ACCTCTGCGGTAACCT TTCG	60.2	560	DRR	Ca_00261	--	--
Ca1_P1_2057962	Ca1	2057962	GAAAAGTTA/GA	TGTGCATGAAAGCAAA ATTGA	GGCCGTGAAAGATATT TGGA	60.2	712	DRR	Ca_00261	--	--
Ca1_P1_2067917	Ca1	2067917	ACGCCG/ACGCCGCCG	GTGCAGCTTCCCTCTT CATC	TTTGCATCATGAGCCA CATT	60.0	344	INTRON	Ca_00262	U	M-type

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_2073961	Ca1	2073961	CTTT/CTTT	AGAGGCACGAGATTC CAGA	AAATATCCCGCAATA AGGG	60.0	336	CDS (FRAME SHIFT)	Ca_00263	T	M-type
Ca1_P1_2085633	Ca1	2085633	CTTT/CTT	TGGGTTTGTAAGTGA AAAGTGA	TTGAGATTTTCCAAGC TCAAAG	58.6	737	INTERGENIC	--	--	--
Ca1_P1_2088365	Ca1	2088365	AAAACA/AA	ACAGCAACCAAGAGTT GTGC	CAGAAAAAGCTATTCA GGCCA	58.9	529	INTERGENIC	--	--	--
Ca1_P1_2088423	Ca1	2088423	ATT/AT	ACAGCAACCAAGAGTT GTGC	GCAGGTGGCATCAATT TACC	58.9	548	INTERGENIC	--	--	--
Ca1_P1_2088597	Ca1	2088597	TTTT/TTTTTTTAAAACTTTT	ACAGCAACCAAGAGTT GTGC	GCATCGGCCAAAAATA AATA	58.9	654	INTERGENIC	--	--	--
Ca1_P1_2088953	Ca1	2088953	ATATTTATTTATTT/ATATTTATTTATTT ATTTATTT	GGTAAATTGATGCCAC CTGC	TTTTGCTGCCACCATG ATTA	60.3	469	INTERGENIC	--	--	--
Ca1_P1_2108793	Ca1	2108793	GTT/GTTTT	GTTTTATCTGCGAAC CTGC	CAATGGCAGTGATCTG CTCT	59.7	678	INTRON	Ca_00267	D	NAC
Ca1_P1_2116628	Ca1	2116628	A/AC	TTGCGTTCATTACGTT TGA	TCAATTCATTCATGC CCAA	57.8	636	INTERGENIC	--	--	--
Ca1_P1_2118876	Ca1	2118876	TATCTTTT/TATCTTTTGAATCTTTT	CCGGCCATCAGAGTAT CATT	AAGCGGTCTTTAAGTG CCAA	59.9	273	INTERGENIC	--	--	--
Ca1_P1_2131502	Ca1	2131502	TAAAAAAA/TAAAAAAA	GGCCAACCTTGCTCAA AATA	ACATGTTACGGGTAG CGCA	60.1	451	INTERGENIC	--	--	--
Ca1_P1_2135161	Ca1	2135161	AGTGTG/AGTGTGTG	AGAATTTACTCCACGT CCCG	TGAACCTCGTGCATGT AATTCT	59.1	437	INTERGENIC	--	--	--
Ca1_P1_2136478	Ca1	2136478	CAA/CAAA	CTGCTCAGAACGCTGC ATAA	TCATCAAATTCGTAAC GCAAA	60.3	480	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_2139237	Ca1	2139237	ATTTTTTT/ATTTTTTTT	CCAACGTGGTTGGTTT CTTT	ATCGTTGAGGTCCGTT TCAC	59.9	623	INTERGENIC	--	--	--
Ca1_P1_21655501	Ca1	21655501	AAACAA/AAA	CTCCCCCTTTTTGGCA TAAT	TTGAAGCTCAGATGGC ACAC	60.1	721	INTERGENIC	--	--	--
Ca1_P1_21683923	Ca1	21683923	AATATATATATATATATATATATATATATATATATATATA/AAATATATATATATATATATATATATATATATATATATATA	GGCGCTAGATACTACA TCGCTT	GCAAATGGAAAGGTTT CACG	59.9	738	DRR	Ca_22118	--	--
Ca1_P1_2169501	Ca1	2169501	TT/TATTAT	TCGCTGAAAAAGAAAG GTGA	ATGTAGGTGATGGGAT GGGA	58.6	509	DRR	Ca_00273	Z	--
Ca1_P1_21746056	Ca1	21746056	AC/ACACATATCAGCTTTC	CTATTGCCCTCCTC CTAC	TACCGATACCTCCAAG TGCC	59.9	585	INTRON	Ca_22116	S	--
Ca1_P1_21762018	Ca1	21762018	AATATATATATATATATATATATATATATATATATA/AAATATATATATATATATATATATATATATA	ATTCTTGTGCGACGGT GATT	TTTGTGTTGAACGGCA AAAG	59.4	639	INTERGENIC	--	--	--
Ca1_P1_21772275	Ca1	21772275	CATATATATATATATAT/CATATATATA TATATATAT	CTTTTGTCTCCCATC CTCA	AAAAC TGAGACGAAAA AGTTGTCC	60.0	342	DRR	Ca_22115	--	MYB
Ca1_P1_21850480	Ca1	21850480	TTAATAATAATAATAATA/TTAATAATA ATAATAATAATA	CATTAGTGCGTTGGT TGTG	TGTGACATGGGAGGC TCATA	60.0	456	INTERGENIC	--	--	--
Ca1_P1_21915840	Ca1	21915840	C/CG	GTGCTCCGGTCTATGT TGGT	TGAATGCTTCTTTGTG CTGG	60.0	166	INTERGENIC	--	--	--
Ca1_P1_21938049	Ca1	21938049	CACTGAGTCCAGA/CACTGAGTCCAG ACTGAGTCCAGA	TGTCAAAGGCCAAGAT TCCT	CCTCACATCAAGAGCA GCAA	59.7	526	INTRON	Ca_22106	--	MIKC
Ca1_P1_21987016	Ca1	21987016	TTATATATATATATATATAT/TTATATAT ATATATATATATATAT	AGAAACGGAGGAGGTA GTTTTT	AAAGAATTTTGCATAA AAAGGACAA	57.6	636	INTRON	Ca_22102	--	--
Ca1_P1_22029011	Ca1	22029011	TTATATATATATATATATATATATATATATATATATATATATATATATATA	CGAATCTTCACCCCTCT TTGG	GCCGGATCCAAAATCA AAAT	59.7	839	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_22091873	Ca1	22091873	AATATATATATATATATATA/AATAT ATATATATATATA	TTTCCAAATGGGCATT TCTC	CATTTCGAACCTGGGC TTGT	59.9	331	INTERGENIC	--	--	--
Ca1_P1_22131328	Ca1	22131328	AATATATAT/AATATATATAT	GTGTGGACATGCCTAA AACG	GTTGCAATTGAGGTGC TGAA	59.1	403	INTERGENIC	--	--	--
Ca1_P1_22131513	Ca1	22131513	GAAAAA/GAAAA	GTGTGGACATGCCTAA AACG	GTTGCAATTGAGGTGC TGAA	59.1	403	INTERGENIC	--	--	--
Ca1_P1_22132039	Ca1	22132039	G/GC	GGATGGTAGTTCAGCA CCTCA	GAGCATTAGTGCTTGG CACA	60.1	774	INTERGENIC	--	--	--
Ca1_P1_22183065	Ca1	22183065	CATCGCAG/C	TCCCACTGGAAAGAAG ATCG	CCATTAGATATGGGCC ACCA	60.2	192	INTERGENIC	--	--	--
Ca1_P1_22189988	Ca1	22189988	AATATATATATATATAT/AATATATA TATATATAT	GTATTGGTCCGGTCTT GGAA	AAGGAATTCATCAAT CGTCG	59.8	547	INTERGENIC	--	--	--
Ca1_P1_22194021	Ca1	22194021	TTATATATATATATATATATATATAT ATATATATATATATATATA/TTATATA TATATATATATATATATATATATATA TATATATATATA	CCCCCTTCATCTTCGA CAA	TTATGAAAAAGAAATC AAATTGACA	61.0	587	INTERGENIC	--	--	--
Ca1_P1_22194556	Ca1	22194556	TTATATATATATATAT/TTATATATATAT ATATATAT	ATTGTCAATTTGATTTT TTTTTCAT	CATTTGTGACCATTGG CACC	57.4	747	INTERGENIC	--	--	--
Ca1_P1_22195947	Ca1	22195947	CATATATATATATATATATATATATA TAT/CATATATATATATATATATATATA TATAT	TTTCATTGGCACTTGG TAGG	TCGTCGCGTCACTATG AATC	58.6	838	INTERGENIC	--	--	--
Ca1_P1_2223979	Ca1	2223979	TATAATAATAATAATAATAATAATA ATAATAA/TATAATAATAATAATAATAA TAATAATAATAATAATAA	AATAGGTCAGGCCAGG CTTT	TATGGATGGGAATAGG CTCG	60.1	659	INTERGENIC	--	--	--
Ca1_P1_22298046	Ca1	22298046	CTAA/CTAATAA	TGAAATTTAGATGATTG CCGC	GATTTGCATATGGGTG GTCC	60.1	821	DRR	Ca_20631	--	SAP
Ca1_P1_22335552	Ca1	22335552	AATATATATATATATATATATATATA TATATATA/AATATATATATATATATAT ATATATATATATATATATATA	TTGAATTGCGAATTGG AATCTG	TGATGCACCAAAAGAC TATTTCA	60.1	796	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_22384776	Ca1	22384776	G/GAACAAGTGTGT	CTTCAGATCCTTGAGC TGCC	TGAATCTTTGTGCC ACCC	60.1	539	INTERGENIC	--	--	--
Ca1_P1_2239989	Ca1	2239989	AATATATATATATATATATAT/AATA TATATATATATATAT	ATGGTGGCAACACAAC TTGA	TGGTTTGTATTGAGC TTTCC	60.0	775	DRR	Ca_00280	I	--
Ca1_P1_22415512	Ca1	22415512	AATATATATATATA/AATATATATATAT ATA	TTTTGTATGACAAGTT AGCACCA	CCACAGTTGCAACAAA GAATG	58.8	519	INTERGENIC	--	--	--
Ca1_P1_22457190	Ca1	22457190	CAAAAAAAAA/CAAAAAAAAA	TGATTTGGATTGATCG AATGTG	AAACATGGCCTCATCT GGAG	60.7	331	INTERGENIC	--	--	--
Ca1_P1_226454	Ca1	226454	AATATATATATATATATA/AATATATAT ATATATATATATA	TGGCATGTGAAATATG AACGA	TGTCCACGTACCCTA ATCA	59.9	560	INTERGENIC	--	--	--
Ca1_P1_22663919	Ca1	22663919	A/AAACAACACAATGAACCTC	CAAATCAGCAACAGCA GGAA	CGATCCCACCTCTAAC CAAC	60.0	666	INTRON	Ca_20616	--	bHLH
Ca1_P1_22666073	Ca1	22666073	AATTTTTATTTTTATTT/AATTTTTA TTTTTTATTTTTATTT	TGAATTTTGGCCTAGT CCCC	AGGCGCCAATTAGAA TGAG	61.2	417	INTRON	Ca_20616	--	bHLH
Ca1_P1_22684322	Ca1	22684322	AAATAATAATAATAATAATAATAAT AATAATAATAATAATAATAATAATA ATAAT/AAATAATAATAATAATAAT AATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAAT	GGATTCGATAAACGTA ATCGGT	AGGAACGGTGTCTTT CCCT	59.3	381	INTRON	Ca_20616	--	bHLH
Ca1_P1_22737650	Ca1	22737650	TAAAA/TAAAA	TTTGCGCCAAACCAT TTAT	AAGGGGATGCTCATTT TGTG	60.3	570	INTERGENIC	--	--	--
Ca1_P1_22745256	Ca1	22745256	AATATATATATATATATATATATA /AAAAATATATATATATATATATAT ATATA	CTCCAGAAATTTTGCC TCCA	GTTAGGCCGAGGCTC TCTTT	60.2	480	INTRON	Ca_20613	BD	bHLH
Ca1_P1_22757866	Ca1	22757866	CATATATATATATATAT/CATATATA TATATATATATAT	TGTAAATATTAATGATT CGTTTGATGC	ACCTGGTAATGTCGGG AAAA	59.6	959	INTERGENIC	--	--	--
Ca1_P1_22778168	Ca1	22778168	ATTTT/ATTTTT	TCCAACATCCACCAAT TCAA	TCAAGGCAACTCATCA ACCA	59.8	590	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_22808194	Ca1	22808194	TTCTCTCTCTCTCTCTCTCTCTCT/TTCTCTCTCTCTCTCTCTCTCTCTCT	AGGCAGGGAGAAGGAAGAAG	TGTGAAATTGTGGGTGAA	60.0	179	INTERGENIC	--	--	--
Ca1_P1_22886112	Ca1	22886112	GAA/GAAA	TGATTTGGGGTTTGTGGTAA	GGGTGAGTCTTTGAGGGTG	60.0	531	INTERGENIC	--	--	--
Ca1_P1_22896758	Ca1	22896758	CTTTTTTTTTTTTT/CTTTTTTTTTT	GCACCGTTTACAACGCTTTT	GATGAAACCGAGGACAGAA	60.2	400	INTERGENIC	--	--	--
Ca1_P1_22957875	Ca1	22957875	CT/C	GTACATTTGTGGCCGCTTT	GGCAGAGAGAAGGTCGAAAA	60.0	147	INTERGENIC	--	--	--
Ca1_P1_22963814	Ca1	22963814	TATA/T	ATATGGAGCTTTTGGCCCTT	AAGCCAAGACTACCGCTGAA	59.9	802	INTRON	Ca_22347	S	--
Ca1_P1_2299530	Ca1	2299530	AATATATATATATATATATATATATAA/AATATATATATATATATATATATATATATA	CAGCAACTGCGATGAGATGT	TCACGGCGAGTCAATAAAAA	60.0	835	DRR	Ca_00288	R	--
Ca1_P1_23012426	Ca1	23012426	TTATATATATATATATATATATATAT/TTATATATATATATATATATAT	ACCATTAAAGTCGACCTTCACA	ATATCGAGGCTGGTCCACA	57.2	729	INTERGENIC	--	--	--
Ca1_P1_23033164	Ca1	23033164	T/TAATAATAA	AGGCAAACTGAGACACAACG	CTCTTTGTCCCGTGTTGAT	58.9	784	INTERGENIC	--	--	--
Ca1_P1_23107865	Ca1	23107865	TTTATTTACTTATTTA/TTTATTTACTTA TTTACTTATTTA	TGATGAAGAGTCATCATATGCC	TCCGCGAGAGAGTTATAGCC	59.1	733	INTERGENIC	--	--	--
Ca1_P1_23116854	Ca1	23116854	AATATATATATATATATATAT/AATATATATATATATATATAT	CATCGATCCAAGTTCAAGGG	ATCATCCGCAAAACTGTTC	60.5	497	INTERGENIC	--	--	--
Ca1_P1_23140612	Ca1	23140612	G/GTAGGTCGGTAATA	TGCCATGTGATCTGTTGGTT	TGCATGATTCAGAATTCCA	60.0	362	INTERGENIC	--	--	--
Ca1_P1_23192284	Ca1	23192284	TTAATAATAATAATAATAATAATAATAA TAATAATAATAATAATAATAATAATAAT AA/TTAATAATAATAATAATAATAATAA TAATAATAATAATAATAATAATAATAAT AATAATAATAA	TTCGAAACTTTTGGCCACTT	TTGGATTTTGGCCACATTTT	59.7	527	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_23215487	Ca1	23215487	AT/ATTATT	ACGTGGAAGAATGC AACC	CTTAAGATCCGCCTTG TGGA	60.0	440	INTERGENIC	--	--	--
Ca1_P1_2322027	Ca1	2322027	CTTAATATTTATAAAT/CTTAATATTT ATAAAATATTAATATTTATAAAT	TCTTAACAAACGGGT TCATCA	AAAAATCACAAATCAT GTTCCG	59.5	205	INTRON	Ca_00291	V	NAC
Ca1_P1_23222434	Ca1	23222434	AGTTATGTTATGTTATGTTATGTTAT/ GTTATGTTATGTTATGTTAT	CACTCGACAGTTGGGA GGTT	TCGAGCAACAAAGCAT CAAG	60.2	423	INTERGENIC	--	--	--
Ca1_P1_23297134	Ca1	23297134	AACACACACACACACACACA/AACA CACACACACACACACACA	TTTTTCAATGGGAGTG TTTTTG	TGCCATAGAGAAGACG GAATG	59.0	280	INTERGENIC	--	--	--
Ca1_P1_23305993	Ca1	23305993	AATATATATATATATATATATAT/AA TATATATATATATAT	TCTGAAGCAGAACCCA ACCT	CACGAGCCTTCTCTCT ACCG	59.8	797	INTERGENIC	--	--	--
Ca1_P1_23355067	Ca1	23355067	TTATATATATATATATATATATATAT ATATA/TTATATATATATATATATATA TATATATATATATATA	GGAGTCTGAAAGTCCA AGCG	CGTTGAAGTTGCCGG TAGT	60.0	732	INTERGENIC	--	--	--
Ca1_P1_23386171	Ca1	23386171	GTTATTATTATTATTATTATTATTATTA TTATTATTATTATTAT/GTTATTATTATT ATTATTATTATTATTATTATTATTATTA T	ACAAGAATGGCAAATG GAGC	TTTGCCCACTAAGTCT TTGG	60.1	537	INTERGENIC	--	--	--
Ca1_P1_23421371	Ca1	23421371	CTTT/CTT	TGATTCCATGAGCAAA CAGC	ATTTGAGTGAACCAA CGCC	59.8	221	INTERGENIC	--	--	--
Ca1_P1_23426642	Ca1	23426642	TAAA/TAAAA	AAGTTAAGGAACACG AGTGC	AGAGAAGTGAATGGTG CATACAA	58.4	790	DRR	Ca_19317	--	--
Ca1_P1_23450310	Ca1	23450310	CTTTT/CTTTTT	GCTTGAGCTCCTGTT GACC	ATCACCACATGGGATG ACCT	60.0	728	INTERGENIC	--	--	--
Ca1_P1_23496241	Ca1	23496241	CT/CTTT	AGGGTGGATCAGTTG ATTG	TTATATTAATTGGGTG CGCGT	59.9	376	DRR	Ca_19314	--	--
Ca1_P1_23516838	Ca1	23516838	CAAAAA/CAAAAA	GGAATCCAAACCAAA CCCT	TTGGTGTGGTTTTGT GGAA	60.0	634	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_23566751	Ca1	23566751	GATATATATATATATATATAT/GATA TATATATATATATATATATATATAT	TTTGGACCTTGTCAA TGGC	CGAGGGATATGCAAT GACA	60.0	511	INTERGENIC	--	--	--
Ca1_P1_23571644	Ca1	23571644	AAAGTCTTCCGATCTTTTGA	TGTGTTGGCTTAAAC ATTTGAT	GGGCAATGTTGGTG TACTC	58.6	810	INTERGENIC	--	--	--
Ca1_P1_23590385	Ca1	23590385	ATCTCTCTCTCTCTCTCTCTCTCTC TCTCTCTCT/ATCTCTCTCTCTCTCTC TCTCTCTCTCTCTCTCT	GCCTTTTAATGATTGC GGA	TGCGTTTGGTAATTG TGGA	60.0	373	INTERGENIC	--	--	--
Ca1_P1_236262	Ca1	236262	TAAAAAAAA/TAAAAAAAA	TGAAAGAACAATATTC CACTAAACCA	GCAGCAATTGATGGTG TGAT	60.2	129	INTERGENIC	--	--	--
Ca1_P1_23643612	Ca1	23643612	TAGAG/TAG	TCGGAATGGTCTGACA TCAA	CAATAGTGGAGGTG CGATT	60.0	830	INTERGENIC	--	--	--
Ca1_P1_23651952	Ca1	23651952	TTATATATATATATATATATATAT/TT ATATATATATATATATATATAT	GCGTAGTGGTAGCCTT TTGG	AGTTGGATGTTGGGG AATCA	59.8	582	INTERGENIC	--	--	--
Ca1_P1_2368297	Ca1	2368297	GTAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAACAA TAATAATAATAAT/GTAATAATAATAAT AATAATAATAATAATAATAATAATA ATAATAATAATAACATAATAATAATAA	AAAAATAACCCAGAAG CATCG	TTCAATTCGGACATT CGTT	58.3	729	DRR	Ca_00301	DR	--
Ca1_P1_23721175	Ca1	23721175	GAA/GA	GGTTTTGCATGCATGT TGAG	TTTGAATCCCATGATG CGTA	60.1	682	INTERGENIC	--	--	--
Ca1_P1_23784964	Ca1	23784964	ATTTTTTTT/ATTTTTT	GTCAACCAATTGACCC CAAC	TGCCAAGAAAACACCA TGAA	60.1	663	INTERGENIC	--	--	--
Ca1_P1_23824031	Ca1	23824031	AAG/AAGCCTAG	CCAAGGAAGGACGAAA ATGA	TTTTCGGTGATTCAAA AGCC	60.0	390	INTERGENIC	--	--	--
Ca1_P1_23838777	Ca1	23838777	ATGTGTGTGTGT/ATGTGTGT	AATGCCACCCATAAT TTCA	TGTACGAGAAGGTCGT GTGC	60.0	593	INTERGENIC	--	--	--
Ca1_P1_23881803	Ca1	23881803	CA/CAA	CCATTTTCATTCGTCG CTTT	TACCGCGACCGACTCT ACTT	60.1	747	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Anneling temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_23966814	Ca1	23966814	GA/GAA	AACTGTGGAGGAATCC ATGC	GCTTCAAGTCTTGCTA CGGG	59.9	490	INTERGENIC	--	--	--
Ca1_P1_24030518	Ca1	24030518	CG/CGTGTTG	CCAATTCAAAAGCTCC CAAA	CAGATCCTCCTTTCCC AACA	60.0	424	DRR	Ca_19291	OK	--
Ca1_P1_24098971	Ca1	24098971	GATATATATATATATATATATATATA TATA/GATATATATATATATATATAT ATATATA	AGGCATGGTGTTGGAG TCAT	TGCATTTTCCACGTT CAAG	60.4	526	INTERGENIC	--	--	--
Ca1_P1_24154735	Ca1	24154735	ATTTTT/ATTTTT	GGGTGCCATCATAAGC AAGT	CAGATACTGCAGCCTC CACA	60.0	516	INTERGENIC	--	--	--
Ca1_P1_24180187	Ca1	24180187	TAAAAAAAA/TAAAAAAAA	TTGCATCGATCATTGT GAC	GAGTTGTTGTTCTTCC AACCAA	58.0	642	INTERGENIC	--	--	--
Ca1_P1_24199765	Ca1	24199765	CTATATATATATATATATA/CTATATAT ATATATATA	TTGGCTCATTCTTTTCG TTGA	CCCTTGTAATTCAAC CCCA	59.4	401	INTERGENIC	--	--	--
Ca1_P1_24242300	Ca1	24242300	TAAAAAAAAAAAA/TAAAAAAAAAAAA	ACCAACTCATCCCTTT CCCT	ATGATTGCAGCATTTTC ACGA	59.8	638	INTERGENIC	--	--	--
Ca1_P1_24252089	Ca1	24252089	G/GC	TTTGCGCATCAGCTA TAAG	CGCTCGATAACCCCAA AATA	60.0	469	INTERGENIC	--	--	--
Ca1_P1_24301670	Ca1	24301670	AATATATATATATATATATATA/AAT ATATATATATATATATATATATA	TCAAGCATGTCAAATT CCCA	GGGGTGCTACAGTGT CGAAT	60.0	633	INTERGENIC	--	--	--
Ca1_P1_24516831	Ca1	24516831	TTATATATATATATATAT/TTATATATAT ATATATATATATATATAT	TTCCGAGTTGTTTGAG AGGA	GGCCTATTATGGCCTG ACCT	58.4	563	INTERGENIC	--	--	--
Ca1_P1_24611579	Ca1	24611579	AATATATATATATATATA/AATATATAT ATATATA	TGCCCACTTGATACAA CAAAA	CATCGCCTTTGACGAA TACA	59.1	330	INTERGENIC	--	--	--
Ca1_P1_24636488	Ca1	24636488	ATTTT/ATTTATTTTT	GATGGTGTGAGTGGA GCTGA	AAACACGTTGGCATT GTGA	59.8	906	DRR	Ca_18338	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_24648509	Ca1	24648509	TTATATATATATATATATATATA/TTA TATATATATATATATATATA	CACTTGAATTTGTTCT CTCGC	TGCTTTTCTGGATTG GTCC	59.0	464	INTERGENIC	--	--	--
Ca1_P1_24676884	Ca1	24676884	AATATATATATATAT	AGTTCTCACCGGATAC GCTC	GCAGTTGCCGCATATC TTCT	59.3	481	INTERGENIC	--	--	--
Ca1_P1_24719200	Ca1	24719200	AATATATATATATATATATATATATA TATATATA/AATATATATATATATAT ATATATATATATATA	TCTTTGTTTCAACGGT CAATG	ATTATTTCTGTTCGG GGGA	58.7	661	DRR	Ca_18334	--	--
Ca1_P1_24723587	Ca1	24723587	ATTATTTATTTA/ATTATTTA	CGGAGGCTATGAGAAG GAGA	TTGTGCTGCCAACTAA ATGC	59.5	890	INTRON	Ca_18333	--	Dof
Ca1_P1_24771219	Ca1	24771219	TCT/TCTCTTTCCCTCTTCCT	TTGCAAGCACGATTTG AAAC	TGGGTCCAAAGTGGAT GAAT	59.9	528	INTERGENIC	--	--	--
Ca1_P1_24782596	Ca1	24782596	CTATATATATATATATAT/CTATATA TATATATATAT	GCTCAACAATGCATCA CACC	GAATTTTCGGGGAACA CAAA	60.1	678	INTERGENIC	--	--	--
Ca1_P1_24797994	Ca1	24797994	GTTTT/GTTT	TGATTTTCGAAGACTT GGGG	TGCATCGTTCTCCTCT TCCT	60.0	894	DRR	Ca_18329	T	--
Ca1_P1_24801961	Ca1	24801961	CTTTTTTTTT/CTTTTTTTTTT	TTTCAATGATGTTGGG TTGC	CAGCATATCCCCAACA AAAGA	59.4	998	INTERGENIC	--	--	--
Ca1_P1_24935055	Ca1	24935055	TTATATATATATATATATAT/TTATAT ATATATATATATAT	TGTGTGTTTTCTACAAT GTGCTAGTT	TTGGGTTTGACCCATG AAAT	59.3	730	INTERGENIC	--	--	--
Ca1_P1_25002005	Ca1	25002005	GT/GTTACCTTACACT	AACACGGGTTACGTCC AGTC	ATCTGGACCATTTCCTCA ACGA	59.9	496	INTERGENIC	--	--	--
Ca1_P1_25058286	Ca1	25058286	AATATATATATATATATATATATATA T/AATATATATATATATATATATAT ATATATAT	CATCTGCAACACATG CTCT	TCATGCAAATTCAAA GAAATGA	59.9	794	DRR	Ca_18316	--	--
Ca1_P1_25064793	Ca1	25064793	AATATATATATATATATATATATATA TAAATATATATATATATATATATAT ATATATA	GTGAGGGTGCTTGCT CACA	AATGGCGCTGTTAAA TGTC	59.9	613	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/P1)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_25121975	Ca1	25121975	TCAGGATGTGCAAGTGACAGGATG TGCAAGTGCA/TCAGGATGTGCAAGT GCA	CCCCATTGCTTGTAG GAGA	TTTGTATTGCACGCCT TTCA	60.1	608	CDS (FRAME SHIFT)	Ca_18311	--	--
Ca1_P1_2518243	Ca1	2518243	CATATATATATATATATATA/CATATAT ATATATATATATATA	AACGGGATAAATGTTT GTGCTT	GCGCTTTACGGGACA ACTA	59.8	794	INTERGENIC	--	--	--
Ca1_P1_25185186	Ca1	25185186	TTATATATATATATATATAT/TTATAT ATATATATATATATATATAT	CCGCCTAGAAGACTCC AAGA	AAAAAGTCTTGTATATA GAGCCGAA	59.6	869	INTERGENIC	--	--	--
Ca1_P1_2519911	Ca1	2519911	AATATATATATATATATATAT/AATA TATATATATATATATAT	TTTGACAGCAGTCAT TTGTGA	TGGTTTTGGGATTTTG TGGT	59.4	683	INTERGENIC	--	--	--
Ca1_P1_25261945	Ca1	25261945	CT/CATTGGT	GTGGTGGTCAAGCTG AACG	CCTTACCGTGAAGCCA ATGT	60.0	463	INTERGENIC	--	--	--
Ca1_P1_25296361	Ca1	25296361	AAAAAAAAAAAAAAAAAAAA	GGCGATTCTATGTCCA TTGC	TCAACAAATCACAGG CCAC	60.4	697	INTERGENIC	--	--	--
Ca1_P1_25358096	Ca1	25358096	AACCA/AA	TCTGGAGCCCATAGGA GTTG	CCAACGGGATGGTGG TATAG	60.2	716	INTERGENIC	--	--	--
Ca1_P1_25382145	Ca1	25382145	AC/A	GAATCACTAGGCTTGC CAGG	GGGGTGAGAGAACGT TTGAA	59.8	714	INTERGENIC	--	--	--
Ca1_P1_25392070	Ca1	25392070	TC/TTGACTTCATTAAAC	AGCCCCCTCTAAACCA ACAT	ACCTTTTGATTGGGCT TGTG	59.8	588	INTERGENIC	--	--	--
Ca1_P1_25437512	Ca1	25437512	AATATATATATATATATATATATATA TATATATATATA/AATATATATATAT ATATATATATATATATATATATATAT ATATATA	GACTTTGATGCAAGTC ACCG	CTCCCATCAGTTTAAT CGGC	59.3	875	INTERGENIC	--	--	--
Ca1_P1_25458751	Ca1	25458751	AATATATATATATATATATATATATA TATATA/AATATATATATATATATAT ATATATATATATATATATATA	GACGTCGCTTCCGAAG TTAG	TCACTCAGGTTGCCAA AACTT	60.0	538	INTERGENIC	--	--	--
Ca1_P1_25477131	Ca1	25477131	AATTATT/AATTATTAATAATTATATTAT	CCCATGCATGCTTCAT AGAG	TTCTCGAAGATCCGAC AGGT	59.3	782	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_25507843	Ca1	25507843	CAATAATAATAATAATAATAAT AATAATAATA/CAATAATAATAATA ATAATAATAATAATAATA	TCTCTGGCAACCGTTC TTCT	GAATGAAGTCCAAGG GTCCA	60.0	341	INTERGENIC	--	--	--
Ca1_P1_25526955	Ca1	25526955	A/ACG	TTCGTAATGGACGGGA TGAT	GGGTTTTGCATGTTGA GCTT	60.2	510	INTERGENIC	--	--	--
Ca1_P1_25625962	Ca1	25625962	GTATATATATATATA/GTATATATAT ATATATATA	TTGGAAGGAGCCCTTA CCTT	GGTGCTCTTTTGTTC AGGG	60.1	835	INTERGENIC	--	--	--
Ca1_P1_25688981	Ca1	25688981	TAAAAAA/TAAAAA	AATGTCCCAACAGAG TTGC	TCGTATCGAACTTGCC CATT	60.0	542	INTERGENIC	--	--	--
Ca1_P1_25796612	Ca1	25796612	GAAAAAAAAA/GAAAAAAAAA	GTGCCCCCAACTACT TTCA	AAGTCCCGGTAAGTT GAGC	60.0	638	INTERGENIC	--	--	--
Ca1_P1_25846966	Ca1	25846966	CAGTAATA/C	GCGGATAATCAATTC CCAA	GGTCAGATTAGTGGG CGTGT	59.7	578	INTERGENIC	--	--	--
Ca1_P1_26023746	Ca1	26023746	ATTTTT/ATTTTTT	AGGGGCCTTACTCCAA GTCA	TTGGAATGATCTAGTG AAGATTGAA	61.0	547	INTERGENIC	--	--	--
Ca1_P1_26075548	Ca1	26075548	T/TAAA	CATGCTTACCCTCTGG CCTA	TGCTGCTTTGGTTCAA AATG	60.2	664	INTERGENIC	--	--	--
Ca1_P1_26133146	Ca1	26133146	CTT/CTTGGCTTT	GCCGAACCCTTTTCTC CTAC	CCACAACAAAACGAAA GATCAA	60.1	241	INTERGENIC	--	--	--
Ca1_P1_26142349	Ca1	26142349	TTAC/T	CTTCGCACAACCATG ACAC	TTCTGCTGTTGCTGA TTTG	60.2	206	CDS (large-effect mutations)	Ca_18596	R	ZF-HD
Ca1_P1_26148944	Ca1	26148944	CG/CGTATTTG	AATGGCCTTCTTTCCC AATC	GAATCTCGGTAACCGC TCAA	60.3	423	DRR	Ca_18597	--	NF-YB
Ca1_P1_26165648	Ca1	26165648	AC/A	CACTAAGAGTGAGGAC TGCACG	CCGGACTCGCTTTACA AAAA	60.1	706	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_26192996	Ca1	26192996	CAAAAAAAAA/CAAAAAAAAA	ACTAGTGGCGACGATG TCCT	TGTTAGGAGGATCTCA CGGG	59.8	466	INTERGENIC	--	--	--
Ca1_P1_26208589	Ca1	26208589	CATATATATATATATATATATATATA TATATA/CATATATATATATATATATAT ATA	CAGCCACCCCAAACTT TTTA	TCACCACCAGAGACAA ACCA	60.0	419	INTERGENIC	--	--	--
Ca1_P1_26263650	Ca1	26263650	ATATTATTATTATTATTATTATTATA/ TATTATTATTATTATTATTATTA	TCACCCAACAAGATCG TGAA	CCAAGCCCAATATCCA ACAT	60.1	780	INTERGENIC	--	--	--
Ca1_P1_26298447	Ca1	26298447	TC/TC	ATCCATTCCACATT GAAA	GGGTTTTGAGGAGTT GTCA	60.0	306	INTERGENIC	--	--	--
Ca1_P1_26309126	Ca1	26309126	C/CGGTCCTAAA	AAACACCTAGTGTGG CTGG	AGGACCATGGAAGCC TCTTT	60.0	302	CDS (large-effect mutations)	Ca_18601	--	--
Ca1_P1_26358637	Ca1	26358637	TTTTAGT/TTTTAGTTTAGT	TGTGTTTCCTTTTCCA CCA	GGGTTCACCTTCAAAA GCCA	59.9	754	INTRON	Ca_18604	U	LSD
Ca1_P1_26358840	Ca1	26358840	AATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATT/AATTATT ATTATTATTATTATTATTATTATTA TTATTATTATTATTATT	GCCTAGATCTTCCCCA AACC	AAAGAGATCCAGCCC ATCT	59.9	654	INTRON	Ca_18604	U	LSD
Ca1_P1_26400101	Ca1	26400101	TAT	AAGAATCGCGATTG ACTT	GATTGAGACCGAAA GGACA	59.9	123	INTERGENIC	--	--	--
Ca1_P1_26408419	Ca1	26408419	AC/A	TCTTCCACCCAGTTTT GACC	TGTGCCTGTGATTT GGTA	59.9	543	INTERGENIC	--	--	--
Ca1_P1_26410717	Ca1	26410717	TTATATATATATATATATAT/TTATAT ATATATATATATATATAT	GCTTGTGTTTAAAGCG CTCC	CAGGTGTTCAGGATGT GACG	60.0	673	INTERGENIC	--	--	--
Ca1_P1_26413202	Ca1	26413202	C/CCTTTAGG	AAGCGTACCTGTGGGA ATTG	TTAATGAGGGGCTGAA TTGG	60.0	252	INTERGENIC	--	--	--
Ca1_P1_2655633	Ca1	2655633	AGG/AG	TCCGTGGAATGAACC TAGC	CATGGACTCAAAAACA GCCA	60.1	812	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_2656577	Ca1	2656577	TAGCAG/TAG	TCGTAGAATGGGATG CAAT	CAACTGCTTCTGAAAC CGGA	60.3	141	INTERGENIC	--	--	--
Ca1_P1_26589205	Ca1	26589205	ATTTTTTTTT/ATTTTTTTTT	TTCCTAACATTCTCCG CTGG	TGATGTTGCATCAACC ATTTT	60.2	168	INTERGENIC	--	--	--
Ca1_P1_26592081	Ca1	26592081	C/CTGACAGTGA	ACACACAAATTTTGAC CGCA	GCAATTTTCTCCAATT GCGT	60.0	801	INTERGENIC	--	--	--
Ca1_P1_2659614	Ca1	2659614	TAAA/TAA	CAATCAGGATCGGCCA ATTA	CGTGTTTAGCGGTGA GTTGA	60.8	642	INTERGENIC	--	--	--
Ca1_P1_26605020	Ca1	26605020	CT/C	AAAGGCATCCTACAAT TCACA	TGGAGTTTGGTGGTGA AAAA	57.2	587	INTERGENIC	--	--	--
Ca1_P1_2660557	Ca1	2660557	TTCTCTCTCT/TTCTCTCTCTCTCTCT CT	CGACCACTGATTGAC CCTT	AACAACATGGACAACG ACGA	60.0	388	INTERGENIC	--	--	--
Ca1_P1_2663715	Ca1	2663715	TGAAAAGAAAA/TGAAAA	GTTGCCATGCCTATAA CGGT	TGAAGACCATGGACAC CAAC	59.9	547	INTERGENIC	--	--	--
Ca1_P1_2664568	Ca1	2664568	GATGATGTGAATGATGTGAA/GATGAT GTGAA	CCAAAAATTGATGAATT GACGTT	TGAATCATGAAGCGGA AAAA	60.1	324	INTERGENIC	--	--	--
Ca1_P1_26681887	Ca1	26681887	AAAAAACAAAAACAAAAACAAAA/ AAAAAACAAAAACAAAA	CCAGACACAACCTCAAC CCCT	CTTTTGGCTCCCCTA AGTC	60.0	476	INTERGENIC	--	--	--
Ca1_P1_26683611	Ca1	26683611	TG/T	CAATTGTGTAAACGT GCGG	TTGCATTGGTTTGAC TCCA	60.0	538	INTERGENIC	--	--	--
Ca1_P1_2670194	Ca1	2670194	CAA/CAAAA	CTGAATTTAAAGCCCG TTGG	TGTGTTGATAGTGGGC GAAA	59.6	779	DRR	Ca_00327	--	ERF
Ca1_P1_26726431	Ca1	26726431	AAATAATAATAATAATAATAATAAT AA/AAATAATAATAATAATAATAAT AATAATAA	GCCTTTGATATGAGGA GCCA	TGGCTTGATGCAAC ATTT	60.2	870	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_2673583	Ca1	2673583	ACT/A	TTTGGAACTTTGCT CACA	GAGCTTCCCATATTC GACA	59.3	908	INTERGENIC	--	--	--
Ca1_P1_2674516	Ca1	2674516	CTAGATTGGAT/CTAGATTGGATTAGA TTGGAT	TGTCGGAATATGGAA GCTC	GCCCTTGTTCAGAT CCAT	60.0	934	INTERGENIC	--	--	--
Ca1_P1_2676035	Ca1	2676035	TC/T	CATCCGGTTGGTTTTG GTAG	GACGACGTGAAAGTAT TTGGC	60.2	570	INTERGENIC	--	--	--
Ca1_P1_26774086	Ca1	26774086	GTTTTTTTTT/GTTTTTTTTTTT	TGCTTATAATGTTCTT TTTCAAAGC	GCACATGGATCACTTT CTCCT	59.4	509	INTERGENIC	--	--	--
Ca1_P1_26774824	Ca1	26774824	TCTTTCNNNNNNNNNCTTCC/TCT TTCC	TTGCACCTTCTTAGC ACCT	ACAATGAGTCGTCGA CAAA	59.9	212	INTERGENIC	--	--	--
Ca1_P1_2679246	Ca1	2679246	CTTTTTTT/CTTTTTTTTTT	CATCCTTATCCCTCATT CCTTG	ATGGTGGCCGGTAGA CCTAT	59.8	723	INTERGENIC	--	--	--
Ca1_P1_26801684	Ca1	26801684	TGGGGGGG/TGGGGG	AATTCGAAAGAGGGG TGAA	AGCAGGCATGCCATT CTAT	58.6	500	DRR	Ca_20286	--	--
Ca1_P1_26805963	Ca1	26805963	AA/AATA	TTTTAAACGGTTAGG TGCG	AAAGCCATGTGCCAAG TTTC	60.0	337	INTERGENIC	--	--	--
Ca1_P1_2683771	Ca1	2683771	CTATA/CTA	TTGAATTAACCTCTGAA AATAACGC	AAGATTGGACGGTTGT GAGG	58.1	580	INTERGENIC	--	--	--
Ca1_P1_26866750	Ca1	26866750	ATTTTTTTTT/ATTTTTTTTTTT	TCTCAGTGGAAAACGA ACCC	TCTCCACCATCTTCCT CTTCA	60.1	679	INTERGENIC	--	--	--
Ca1_P1_2686910	Ca1	2686910	AGTATTGGGT/AGT	AATGTGATGCACGTTT TGGA	CAAAATTCACGCAACA ATCG	60.0	444	DRR	Ca_00328	--	MIKC
Ca1_P1_26876468	Ca1	26876468	C/CG	TTGTGCATCGTCTAT CCAC	TCGGTGGAAATTGTAA TGAGAG	59.5	937	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_26879148	Ca1	26879148	G/GCC	AAAACCCAACAGATCG GAGTT	CGGACCCTATGATCTG GAAA	59.9	206	INTERGENIC	--	--	--
Ca1_P1_26894935	Ca1	26894935	GAAAAAAAA/GAAAAAAAA	CGAAGAAGAAATGCG ACAA	AAAAACAAATCACAG GTAACCAA	59.0	512	INTERGENIC	--	--	--
Ca1_P1_2691545	Ca1	2691545	CCATGCATG/CCATG	TTAGCTCAGCTTGCAC AGGA	GCATTGTACATTCTCG TGCG	59.9	541	DRR	Ca_00330	--	--
Ca1_P1_2692223	Ca1	2692223	TAAAAA/TAAAAA	ACAATGCCATTTTCAA GGCT	CGTGAAGACTAAAGGT CAGAAAA	59.6	532	DRR	Ca_00330	--	--
Ca1_P1_26945131	Ca1	26945131	ATATTATTATTATTATTATTAT TATTATTAT/ATATTATTATTATTAT TATTATTATTATTAT	AAACAAATAAACCATTT CACCAAA	TAACAACGGCTGGGTA AAGG	58.8	384	INTERGENIC	--	--	--
Ca1_P1_26958642	Ca1	26958642	TT/TTTGAT	TGCTCCATTGATTGC TGAC	CCGACCAATAGACTTT TGTTGA	59.8	663	INTERGENIC	--	--	--
Ca1_P1_26958726	Ca1	26958726	GTTT/GTTTT	TGAGCGTGAAAAATTG TGGT	CCGACCAATAGACTTT TGTTGA	59.2	204	INTERGENIC	--	--	--
Ca1_P1_26958895	Ca1	26958895	CAAAAAAAAA/CAAAAAAAAA	TGAGCGTGAAAAATTG TGGT	TTAGAGCGTTCAAATT ATAGTTACACA	59.2	709	INTERGENIC	--	--	--
Ca1_P1_26987414	Ca1	26987414	ATTTTTTTTTTTTT/ATTTTTTTTTTT T	ATATGGCCGTATTTC GTCA	CTCGGTCATCGAAGGA GAAA	60.2	510	INTERGENIC	--	--	--
Ca1_P1_26989616	Ca1	26989616	AAATAATAATAATAATAATAAT AATAATAATAATAA/AAATAATAATAAT AATAATAATAATAATAATAA	GAGGTCGTTGACCGGA TATG	CGTGTGATTGGTAATG TGCG	60.3	639	INTERGENIC	--	--	--
Ca1_P1_26990827	Ca1	26990827	TGGCGGC/TGGC	AAATCCTTTGGGAGGT CACAT	TGAGCCTAATAGGAGG TCGC	59.7	109	INTERGENIC	--	--	--
Ca1_P1_2701362	Ca1	2701362	CTTTTTTTT/CTTTTTTTTTT	CCGGCAAAAATTGGT TAAA	TGGTCTTGCAATGTCT CTGG	59.8	727	DRR	Ca_00331	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_27019589	Ca1	27019589	TC/TCC	TTGGCCAACGTTAGTT AGGG	TGCAGTTCATGTCCA TTGT	60.0	726	INTRON	Ca_20299	C	--
Ca1_P1_2702474	Ca1	2702474	CTT/CTTATT	CTGGCAGCATTGTTGT TGTT	ACTTCCTTCCACCACC ACTG	59.8	228	CDS (large-effect mutations)	Ca_00331	--	--
Ca1_P1_2704415	Ca1	2704415	CATA/CATATA	TAATCACACCGCTCAT CGAA	ATTACTCGCCATGCCT GTTC	60.2	222	INTERGENIC	--	--	--
Ca1_P1_2708925	Ca1	2708925	GTTT/GTTTTT	AAAGCAACAACCAGGC ACTC	CGGTAGTCATAGATGG CGGT	60.3	754	INTRON	Ca_00333	--	--
Ca1_P1_27104652	Ca1	27104652	CTTCTTCAAT/CTTCTTCAATATTCTTC AAT	AATTTTCTTCCCACAC CCC	CGAAACCCAGATTGG AAAA	60.0	335	INTERGENIC	--	--	--
Ca1_P1_27107121	Ca1	27107121	AAAC/A	TTTTCCTTTCGGAGT CCAC	TAGCACATTCGGTTGC AGAG	60.1	764	INTERGENIC	--	--	--
Ca1_P1_27107315	Ca1	27107315	TAA/TAAA	TTTTCCTTTCGGAGT CCAC	TAGCACATTCGGTTGC AGAG	60.1	764	DRR	Ca_20308	--	--
Ca1_P1_2719697	Ca1	2719697	AGTAAG/A	ATAGACATCCGGGACA GTCCG	TGATACCCATCCATCC CTGT	60.0	613	INTRON	Ca_00334	G	--
Ca1_P1_27219176	Ca1	27219176	CTATTATTATTATTATTATTATTAT TATTATTATTATTATTGTTATTATTATT ATTATTATTATTATTATTATTA/CTA TTATTATTATTATTATTATTATTAT TATTATTATTATTATTGTTATTATTATT ATTATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTATT	TGAGGGAGATATTGG TGGG	TACGCGCTGTTCTTT TCTT	59.7	277	INTERGENIC	--	--	--
Ca1_P1_2727935	Ca1	2727935	AT/A	CAACGCAAAATTGAGC GATA	CATTTTGAAAGATTCA CATTCATTT	59.8	717	INTERGENIC	--	--	--
Ca1_P1_27282873	Ca1	27282873	GTATA/GTATATA	AAAATCCAACAATCTCC CCC	CCCTGAGACTCACGAA GAGG	60.0	561	INTERGENIC	--	--	--
Ca1_P1_27349054	Ca1	27349054	C/CGCG	ACCTATTACGGGTCAG CACG	CCACGAGATGATTCCA TGTG	60.0	203	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_27475132	Ca1	27475132	ATTTTTTTTTTT/ATTTTTTTTTTTT	TGGAATCAAAAAGACG TAAGCC	GAGGAAACATCATTCA ATCGC	60.5	632	INTERGENIC	--	--	--
Ca1_P1_27595250	Ca1	27595250	AT/ATT	CGAGGTAATGACATCC CTTCA	TGGACGTAGGTTGTTG TGGA	59.9	566	INTERGENIC	--	--	--
Ca1_P1_2765307	Ca1	2765307	C/CAATGTG	CAGCCTCTGATGTTC ATGG	CTATGTGCATATCGGC CCTT	59.2	423	INTERGENIC	--	--	--
Ca1_P1_2766077	Ca1	2766077	CTTATGTT/CTTATGTTATGTT	AAAACAATTGATTGGG CTCC	CCAATCATACGCAGGT GAAA	58.9	561	INTERGENIC	--	--	--
Ca1_P1_2766176	Ca1	2766176	A/AG	AAAACAATTGATTGGG CTCC	CCAATCATACGCAGGT GAAA	58.9	561	INTERGENIC	--	--	--
Ca1_P1_27665473	Ca1	27665473	C/CCCTAA	GCGTTTGAATGATTGT TGGA	TTGAGAGACTTGTGCC CTAGC	59.5	819	INTRON	Ca_25073	--	--
Ca1_P1_27708434	Ca1	27708434	CAAAAAAAAA/CAAAAAAAAA	TGGCATGAAATGGGTC TACA	TTCCATGCCCAGAAAA TAGC	59.9	589	INTERGENIC	--	--	--
Ca1_P1_27771248	Ca1	27771248	TAAAA/TAAA	CAACATCAATTGAAAT GCGA	GGCGGGTTTGTAGTC TTGA	59.6	285	INTERGENIC	--	--	--
Ca1_P1_2779559	Ca1	2779559	AATATATATATATAT/AAATATATATA TAT	AAGGGTCCTCTCAATC GTCA	GTGAGGTTGGTCAACT CCGT	59.7	715	INTERGENIC	--	--	--
Ca1_P1_27802503	Ca1	27802503	ATTTTTTT/ATTTTTTTT	TCACCAGCTCCTGTT AGCC	CCATGGTTCTGCATTC CTTT	60.4	587	INTERGENIC	--	--	--
Ca1_P1_27902256	Ca1	27902256	AATATATATATATATATATATATATA TATATATATATATAT/AAATATATATAT ATATATATATATATATATATATATAT ATATATAT	TGCAACTCAGCATAAG ACGG	CATTTGACGCTCTTGC AAAATA	60.0	340	INTERGENIC	--	--	--
Ca1_P1_2791561	Ca1	2791561	ATTT/AT	ATCGAAAGCAACCATT TTGG	TCATTCAAATGGTGAC TCGTG	59.9	419	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_2796283	Ca1	2796283	T/TG	GGTGGACAGAGCAT CAACT	AAAAAGCGAGTTTCAG GGTG	60.1	530	INTERGENIC	--	--	--
Ca1_P1_2800448	Ca1	2800448	ATTTTTTTTT/ATTTTTTT	GAGAGCAAGAGCGAG CAAGT	ACCACATGAGGGGCA TTTTA	60.0	439	INTERGENIC	--	--	--
Ca1_P1_2800724	Ca1	2800724	TTTT/TTTTTTTATTT	GAGAGCAAGAGCGAG CAAGT	TCCATTTTCTCCTTCAA GCG	60.0	754	INTRON	Ca_00344	--	NAC
Ca1_P1_2801241	Ca1	2801241	ATTATTATTTTT/ATT	CGCTTGAAGGAGAAAA TGGA	TTACACGGCATGACAA TCAAA	60.3	352	INTRON	Ca_00344	--	NAC
Ca1_P1_2810482	Ca1	2810482	CAT/CATAT	TGCATAACCACTGAA TGCC	GCGTCGTAAAAGACGT GCTA	59.5	813	INTERGENIC	--	--	--
Ca1_P1_28170186	Ca1	28170186	CTTTTTTTTT/CTTTTTTTTTT	TCCAACGCCTTCTTT CAAT	GTGCGATCCGTGAAG TTCT	59.7	811	INTERGENIC	--	--	--
Ca1_P1_28225122	Ca1	28225122	TTCTCTCTCTCTCTCTCTCTCTCTC T/TTCTCTCTCTCTCTCTCTCTCTCTC T	ACTCAACGCATGAAGA GGCT	GCAAAGCTTCCGCTA ACTG	60.0	596	INTERGENIC	--	--	--
Ca1_P1_2828614	Ca1	2828614	T/TCAAA	TTGCAATTTGGGGAA AAAG	TGACGCATGTAAAACG TGGT	59.9	369	INTERGENIC	--	--	--
Ca1_P1_2829969	Ca1	2829969	T/TTA	ATCCGGGTCCAAAGTT TCTT	AAAAGCATGCAAAAGC ATCA	59.8	774	INTERGENIC	--	--	--
Ca1_P1_2831879	Ca1	2831879	TAAAAA/TAAAAA	TTTGAGTCTTCGAGCC ACAG	CTGGTCCTTTCCTTTC CCTC	59.2	342	DRR	Ca_00347	--	ARF
Ca1_P1_28322869	Ca1	28322869	GAAAAAAAAA/GAAAAAAAAA	GAGACAACAACCTGA CCCAAA	GTTACCAGCCCATCAA TGCT	59.1	376	INTERGENIC	--	--	--
Ca1_P1_2837552	Ca1	2837552	TTCTCTCTCTCTCTCTCTCTCT/TT CTCTCTCTCTCTCTCTCT	CAGCACAGCATGCCA TAGT	TGCATCTGTTCTGCT TCAC	59.9	671	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_2840591	Ca1	2840591	ATTTTATTTTATTTTAT/ATTTTATTTATTTTATTTTAT	GCACCCCTATTACCC TCAT	GGCAGTAGCAAGCAAT TGAA	60.0	757	INTERGENIC	--	--	--
Ca1_P1_2843204	Ca1	2843204	AAA/AAACAA	AACAAGCTGTTGCAAG CTCA	TTTCCGTTTGATTCTC CGTC	59.8	431	INTERGENIC	--	--	--
Ca1_P1_28449282	Ca1	28449282	ACGAATATTTCCGAATATTTCCGAA TATTT/ACGAATATTTCCGAATATTT	TGGATTGGTTGAAGGA GGTC	CTCTGTCACTGGCGTC ACAT	59.9	695	DRR	Ca_18508	--	--
Ca1_P1_28458887	Ca1	28458887	AAATAATAATAATAATAATAATA/A AATAATAATAATAATAATAATAATA ATA	CGTCGTTTGTGTTGAC ACATC	CGTTGTTTGTGTTGAC ACATCT	59.1	612	INTERGENIC	--	--	--
Ca1_P1_2846167	Ca1	2846167	AAT/A	GTTTGAACACGGGTGC TTTT	ATTTTAGACGCTTGCC CTCA	60.0	165	INTERGENIC	--	--	--
Ca1_P1_28501524	Ca1	28501524	CGGG/CGG	GATTTGCAATACGAATT TGATGA	GCTGCTACTTGCAAA TCCAT	59.0	479	INTERGENIC	--	--	--
Ca1_P1_2851127	Ca1	2851127	TAT/TATAAT	TGTCGTTTCAATGGA CTGG	AGAGAGTATGGGGCA GTCAAA	59.5	226	INTERGENIC	--	--	--
Ca1_P1_28533128	Ca1	28533128	CATAATAAT/CATAATAATAAT	CGGAGACAACACGAGA CTGA	GTCACCAGAATTGGCT CGTT	60.0	391	INTERGENIC	--	--	--
Ca1_P1_28550132	Ca1	28550132	ATTTTTTTTT/ATTTTTT	TGGAAGCACGCTTAAG GACT	TTTCCCAATCGATTG CTTC	60.0	664	INTERGENIC	--	--	--
Ca1_P1_28550236	Ca1	28550236	T/TG	CTGACACAGGGGGAG AAAAA	TTTCCCAATCGATTG CTTC	60.1	159	INTERGENIC	--	--	--
Ca1_P1_28573613	Ca1	28573613	AATATATATATATATATATATATATA TATATATAT/AATATATATATATATAT ATATATATATATATATATATATATAT	AGGTTTGGAGAACCGA AGGT	ACCATGGTTGTCCTGA AAGG	60.0	270	INTERGENIC	--	--	--
Ca1_P1_2861840	Ca1	2861840	CAAA/CAAAA	CGCCTTGAAAACCTC AGTA	CTAATCCCTTGCCCTC AACA	60.2	666	INTRON	Ca_00348	R	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_2862989	Ca1	2862989	CAA/CA	TAATGGCCAAATTCTC TCCG	GCTTTCACCAATTCCA CGTT	60.0	691	INTRON	Ca_00348	R	--
Ca1_P1_2867067	Ca1	2867067	GAAA/GAAATAAAA	AGGAGCCTTTGGTTTT GGTT	TCCCTCTTCCCCTTTC TCAT	60.0	555	DRR	Ca_00348	R	--
Ca1_P1_28670946	Ca1	28670946	CATATATATATATATATATATATAT/ CATATATATATATATATATATATATA TATAT	GGAAGCATCCACGCCT ATTA	TAACCACTGCCACCTC AACA	60.1	453	INTERGENIC	--	--	--
Ca1_P1_2867118	Ca1	2867118	CA/CAA	AGGAGCCTTTGGTTTT GGTT	TCCCTCTTCCCCTTTC TCAT	60.0	555	DRR	Ca_00348	R	--
Ca1_P1_2868551	Ca1	2868551	TTTGTT/TTTGTTGTT	CACCTCACTGTTCACT CCTT	CATCCACTGTCGACAA CACC	60.0	697	INTRON	Ca_00349	--	--
Ca1_P1_2868921	Ca1	2868921	CAT/CATCGCGGAT	GTGTTGTCGACAGTGG ATGG	TCTAGCTCGGTGCACC CTAT	60.0	199	INTRON	Ca_00349	--	--
Ca1_P1_28713213	Ca1	28713213	TTA/TTAGAAAGAGTGTA	TTCATTCTCTGATTCC CCG	TCCGCATTATAACCTC TGCC	60.0	425	INTERGENIC	--	--	--
Ca1_P1_28716048	Ca1	28716048	CATATATATATATATAT/CATATATA TATATAT	CGCAAAGATTTGGGTT TGAT	TGGACCCTGAATTACG AAGG	59.9	776	INTERGENIC	--	--	--
Ca1_P1_28728261	Ca1	28728261	ATT/AT	GCCGGTGTTTGAAATT AACC	TAAGGCAGCAAATTC CGTC	59.3	496	INTERGENIC	--	--	--
Ca1_P1_2878797	Ca1	2878797	TGTTGAGTT/TGTTGAGTTGAGTT	TCAATGCGGAAATGTG TTGT	TTTGTGTGGTCGCAAC TCTC	60.0	413	DRR	Ca_00350	GC	SBP
Ca1_P1_28790237	Ca1	28790237	AAATGGAGATAATGGAGAT/AAATGGA GAT	GAACGCAGCAGCAACA ATAA	CATGTCTTAACCGTCA AACGAA	60.0	364	DRR	Ca_18497	OU	--
Ca1_P1_2885377	Ca1	2885377	ATTTTTTT/ATTTTTTTT	GCCATTGTTAACTCCG CAAT	CATTTGGAGAGGGCAT AGGA	60.0	360	DRR	Ca_00351	T	M-type

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_28871254	Ca1	28871254	AAAAATAAATAA/AAAAATAAATAA A	ACGCCTCAAGCTATTC CTGA	AAGTTCGGGCGTAACT AGCA	60.0	495	INTERGENIC	--	--	--
Ca1_P1_28906702	Ca1	28906702	TAAAAAA/TAAAAA	TATGGAGAGCAGCGAC TCAA	TGTTGGGTTGCACAAC ATTG	59.7	184	INTERGENIC	--	--	--
Ca1_P1_28910299	Ca1	28910299	CATT/CATTAATT	GAAAATGATCGGTGGA GGAA	CTTGCGTGTTCACGA GTAT	59.9	620	DRR	Ca_18486	R	--
Ca1_P1_28910424	Ca1	28910424	TA/T	GAGTCATTGGTGCCTT GGTT	CTTGCGTGTTCACGA GTAT	60.0	385	DRR	Ca_18486	R	--
Ca1_P1_28910492	Ca1	28910492	GATTAA/GATTAATTAA	GAGTCATTGGTGCCTT GGTT	CTTGCGTGTTCACGA GTAT	60.0	385	DRR	Ca_18486	R	--
Ca1_P1_28911682	Ca1	28911682	A/AAAAAAAT	CGTGAATGCTTTATTC ACAACC	CCACATCCTAGTGAAA AGCCA	59.5	633	INTERGENIC	--	--	--
Ca1_P1_28929310	Ca1	28929310	G/GAGAT	AAATTGAACTGGGCA TTTG	CTTGGGCTATACCTTT TCTATTGT	59.9	107	INTERGENIC	--	--	--
Ca1_P1_28930954	Ca1	28930954	A/ATT	TGAAAAGTTTCTTTGTC CCTTTG	TGGTGTTCCTTCAAA TTCA	59.7	349	INTERGENIC	--	--	--
Ca1_P1_28935215	Ca1	28935215	ATTTTTTT/ATTTTTTTTT	TTTTGTTGGCAGTTTG TTTG	CAGTCAACATTGATGT GACGTTAT	57.3	490	INTERGENIC	--	--	--
Ca1_P1_28936099	Ca1	28936099	ATTTTTTT/ATTTTTTTTTTT	GAAATTTGACCAGAGC TGCC	TCGGTCACCGTTTTTA GTTT	59.8	465	INTERGENIC	--	--	--
Ca1_P1_28936233	Ca1	28936233	AT/ATGTAATT	GAAATTTGACCAGAGC TGCC	GGACCAATTACTCTGG TGGAA	59.8	650	INTERGENIC	--	--	--
Ca1_P1_28939471	Ca1	28939471	AAAAATAAACAAA/AAAA	CCATGTGTGAACCTTA ATTGTT	GTTTTGGCGTTGGTTT CACT	58.7	226	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_28941503	Ca1	28941503	CAA/CAAAA	TGGGGTTTAGGGTGTC ACAT	CTTTGTAAAGGCAGC TCCG	60.1	207	INTERGENIC	--	--	--
Ca1_P1_28941872	Ca1	28941872	GAAAAAA/GAAAAA	TGGGGTTTAGGGTGTC ACAT	TCAATTTGGATTCTT GGTGG	60.1	847	INTERGENIC	--	--	--
Ca1_P1_28943560	Ca1	28943560	GG/GGTG	ACTTGGGACAAATCAC ATGG	TGATCACCAGCTTCC AATG	58.3	252	INTERGENIC	--	--	--
Ca1_P1_28944045	Ca1	28944045	TAAAAA/TAAAA	TTGCCTTAATGGACC AAGG	CAATATGAAGTCTGGT GCCAA	59.9	345	INTERGENIC	--	--	--
Ca1_P1_28944496	Ca1	28944496	TTATATATAT/TTATATAT	TTGGCACCAGACTTCA TATTG	AAATGTACTTTGCGGC ACAT	58.6	775	INTERGENIC	--	--	--
Ca1_P1_28944803	Ca1	28944803	AACTA/AA	TTTCAATTGCATTAATC CGTTC	CAATAAAATTGCGGT CCGA	59.0	963	INTERGENIC	--	--	--
Ca1_P1_28945159	Ca1	28945159	GTTT/GTTTT	TGCCGCAAAGTACATT TATCA	CAATAAAATTGCGGT CCGA	59.2	369	INTERGENIC	--	--	--
Ca1_P1_2898163	Ca1	2898163	CAAAAAAAAA/CAAAAAAAAA	TGGTGTACCACCTCC GTCA	TTAATCACAGTGCGG GTCA	60.0	368	INTRON	Ca_00354	--	bHLH
Ca1_P1_2901135	Ca1	2901135	TTCTGAGAAAGTTATCT/TTCTGAGAA AGTTATCTGAGAAAGTTATCT	AGCTTCCACGAAAT CAGC	GCACATTACAGTTGG GGCT	59.5	565	INTRON	Ca_00354	--	bHLH
Ca1_P1_29077918	Ca1	29077918	TATATATATAGATATATA/TATATAT A	GACGAAGTCCTTATTG CATCG	TTTATTGAATTGGTT GGGTG	59.7	817	INTERGENIC	--	--	--
Ca1_P1_29102832	Ca1	29102832	TTATATATATATATATATATATA/TTA TATATATATATATATATATATATA TA	ATGTCAATTGAGTTGC GACG	CAAGCACCGTAGTGTG GAGA	59.7	340	INTERGENIC	--	--	--
Ca1_P1_2910422	Ca1	2910422	TAAGAAGAAGAAGAA/TAAGAAGAAGA A	TCCAACACCAGAATCA CCAA	CCATCCCCAAACAA AACA	59.9	382	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_29124803	Ca1	29124803	ATTT/ATTTT	AGTGGCATTGGGCAAA TTAC	ACCAAAATATACGCGTC TGCC	59.8	350	INTERGENIC	--	--	--
Ca1_P1_2917579	Ca1	2917579	TGT/TGTTGTGGT	TGGTTGAGCATGAACC ATGT	AAGCTTCGCCATCTTC AAAA	60.0	450	CDS (large-effect mutations)	Ca_00357	--	WOX
Ca1_P1_2919258	Ca1	2919258	CAGAGAGAGAGAGAGAGAGAGAGAG AGAGAGAGAGAGAG/CAGAGAGAGA GAGAGAGAGAG	GAAGCAAAGGGAACAT GGAA	CTTTGCCGAAAATAAC CGAA	60.1	443	INTERGENIC	--	--	--
Ca1_P1_2921755	Ca1	2921755	A/ATATG	CAACTGGGCCAAATGC TTAT	TGATGATCACACGAGG GAGA	60.0	570	INTERGENIC	--	--	--
Ca1_P1_29219534	Ca1	29219534	AATATATATATATATATATATATATA TATATATA/AATATATATATATATATAT ATATATATATATA	AATAATGCTCCAAGCC TCCA	TCGCCATGTTGTGGA GTTA	59.7	277	DRR	Ca_22567	D	WRKY
Ca1_P1_2922769	Ca1	2922769	CAAAA/CAAAAAA	TTTGTGGATCGTATTG CGAA	AAATGCATTCTTCAT TCTTTCA	60.1	604	INTERGENIC	--	--	--
Ca1_P1_2923053	Ca1	2923053	TATGAA/TATGAATGAATGAA	CGCGAAATCTTATTTTC ATGG	TGATGCGATTGTAGTC CCAA	59.6	606	INTERGENIC	--	--	--
Ca1_P1_2923274	Ca1	2923274	A/ATATTAATAATAAT	CGCGAAATCTTATTTTC ATGG	TGATGCGATTGTAGTC CCAA	59.6	606	INTERGENIC	--	--	--
Ca1_P1_2924550	Ca1	2924550	CTT/CTTT	GTTCAGCAAATCGGCT CAAT	TGAGTTAATGCGGCCT AACC	59.9	595	INTERGENIC	--	--	--
Ca1_P1_29246694	Ca1	29246694	CATATATATATATATATATAT/CATATA TATATATATAT	TTTTGTCGCACATTGTT GGT	GAGGTGCACAAATAGT ACGTCG	60.0	797	INTERGENIC	--	--	--
Ca1_P1_2925914	Ca1	2925914	ATTTT/ATT	GTTGGCCGTTGTTTTG TTCT	CCCTTCATAGATGATG GTGGA	60.0	372	INTERGENIC	--	--	--
Ca1_P1_2933961	Ca1	2933961	AAGAGA/AAGA	CTACCAACCGGTGAAT GCTT	CCCCCACTTTTCATTCA GTAAA	60.0	641	INTRON	Ca_00358	E	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_2937747	Ca1	2937747	AT/ATT	CGGATGGAACAAGTGG AAGT	AACCACTCATCTTTCA AACCAA	60.0	646	INTERGENIC	--	--	--
Ca1_P1_2938157	Ca1	2938157	AAATAA/AAATAATAA	TTGGTTTGAAGATGA GTGGTTT	TTCGATTTTGTCTATC CGCC	59.9	575	INTERGENIC	--	--	--
Ca1_P1_29402165	Ca1	29402165	TG/TGTAG	GGCCGTAAACCAGACT CAAA	GGGGTAAGTTTCCTTG ACCA	60.1	627	INTERGENIC	--	--	--
Ca1_P1_29412426	Ca1	29412426	T/TATATA	ATCTACCGATTGAATT GCGG	CAGCGTGACAATGAG CAACT	59.9	429	INTERGENIC	--	--	--
Ca1_P1_2946069	Ca1	2946069	TA/TAA	ATTCCATCGCCATAGC ATTG	GGGACCAACAAATTCA AACAA	59.9	553	INTERGENIC	--	--	--
Ca1_P1_29472015	Ca1	29472015	TTTATTATTATTATTATTATTATTA TTATTATTATTATT/TTTATTATTATTAT TATTATTATTATTATTATTATTATT ATT	TGGCCTGACCTACTTA TGGC	AGCTTGAGTCTGGCCT ACGA	60.1	589	INTERGENIC	--	--	--
Ca1_P1_2948444	Ca1	2948444	TTTCCAATTCCAATTCCAA/TTTCCAAT TCCAATTCCAATTCCAA	CTGAAGAAGCTGCTTT GGCT	TTTCCCTTTGATTGTG GCAC	59.9	376	CDS (large-effect mutations)	Ca_00359	--	ERF
Ca1_P1_29524255	Ca1	29524255	ATTTTTTTTTTT/ATTTTTTTTTTTTTT	GGCTTCTTTCCAAAT GCAG	CACCATATCCCCCAA AACAA	59.8	669	INTERGENIC	--	--	--
Ca1_P1_2952486	Ca1	2952486	CAATAAATAAATAA/CAATAAATAA ATAAATAAATA	ACCTCAAATCCGCAAA GATG	GTGCAAGAGTTTGGCT TGGT	60.1	571	DRR	Ca_00360	--	ERF
Ca1_P1_29613286	Ca1	29613286	TCACA/TCA	AGGTGCAAAAAGGAAT GTGG	CGAACTCAAGAACCA CCTT	60.0	147	INTERGENIC	--	--	--
Ca1_P1_29613542	Ca1	29613542	GATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTAT TTATTATTATTATTAT/GATTATTATTAT TATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTAT TTATTATTATTAT	AGGTGCAAAAAGGAAT GTGG	ACACAATTGGTGCAAG GACA	60.0	681	INTERGENIC	--	--	--
Ca1_P1_2961377	Ca1	2961377	TTAATA/TTA	TGACAAACATGTGTCA TTTATTTTG	TGGAACACATAATTT CACCGA	58.9	692	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_29636835	Ca1	29636835	AA/AAGA	TCACAAATCTCAACCTCC	ATCAGTTGGAGCCTGGTTGT	59.9	497	INTRON	Ca_24382	AR	--
Ca1_P1_29637072	Ca1	29637072	GAAAAAAAA/GAAAAAAAAA	ACAACCAGGCTCCAACGTAT	ATGCTGCCAGCCTACA AAAT	59.6	503	INTRON	Ca_24382	AR	--
Ca1_P1_2965539	Ca1	2965539	CAAAA/CAAA	ACATGCTGTGATTTGGGTCA	AAAGCGAATTACAGACGTGG	60.0	873	INTERGENIC	--	--	--
Ca1_P1_29667241	Ca1	29667241	AACACACACACACACA/AACACACACACACACACA	CCGAGCCAAAATCCAA AATA	TTGGGTGCACATTTTACAGC	59.9	436	INTERGENIC	--	--	--
Ca1_P1_29709028	Ca1	29709028	ACC/AC	AAAGATTTGTTGAGCGGTGG	GACGAGAATGGAGATGGGAA	60.1	580	INTERGENIC	--	--	--
Ca1_P1_2973113	Ca1	2973113	TATA/TATAATA	TTTGATGTGGCGGCATAGTA	TGTTTGCCAATCACAGCTTC	60.1	281	INTRON	Ca_00361	--	--
Ca1_P1_29738380	Ca1	29738380	GTATATATATATATATATAT/GTATATATATATATATATAT	TATTTTGGATTTTGGCTCGG	AAACCGGTAAAATCTCGCT	59.9	699	INTERGENIC	--	--	--
Ca1_P1_2975302	Ca1	2975302	ATT/AT	TCCTGCAACCAAATTCACAA	AGCCAAGTGAATGAGTTGG	60.1	662	INTRON	Ca_00361	--	--
Ca1_P1_29791416	Ca1	29791416	GAAAA/GAAAAA	TCCGATAAAATCTCCGTTCG	AAAAACAGTTCCCTCCTT	60.0	323	INTERGENIC	--	--	--
Ca1_P1_2979509	Ca1	2979509	A/ATTATTT	GGAATTCAAAATCTGATCCAA	TGCCAACAAATCCTGACAA	58.9	653	INTRON	Ca_00361	--	--
Ca1_P1_2981588	Ca1	2981588	GC/G	TGTTCCGCCATTAGACATCA	AATCGCCCATTTCTCTCTT	60.1	345	DRR	Ca_00361	--	--
Ca1_P1_29817198	Ca1	29817198	GTTTTT/GTTTTTTTTT	TGTTAGGAGGATCTCAGGG	TTGTACAGGTGTCTGCGAG	60.1	522	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_29818737	Ca1	29818737	ACTA/ACTAAATTACGAGGTGCTA	CTCGGAATTCCAAACC AAAA	ATCGATGGCTCAATTG GTTC	59.9	359	INTERGENIC	--	--	--
Ca1_P1_29825526	Ca1	29825526	ATTTTT/ATTT	CAAGACTTAAGGCTCC CCCT	CCCATTGCCTAACCA AGAA	59.7	500	INTERGENIC	--	--	--
Ca1_P1_29842423	Ca1	29842423	AC/A	TCATCAAAGGCATGCA AATC	GACCAAAACACAACGC AATG	59.6	359	INTERGENIC	--	--	--
Ca1_P1_29843805	Ca1	29843805	G/GA	ATGGATCAAGAGAAGG GGCT	CCTATGCGAAGTGGTG GTTT	60.0	535	INTERGENIC	--	--	--
Ca1_P1_29844164	Ca1	29844164	TTTTTT/TTTT	ATGGATCAAGAGAAGG GGCT	CCTATGCGAAGTGGTG GTTT	60.0	535	INTERGENIC	--	--	--
Ca1_P1_29844704	Ca1	29844704	A/ACCTT	AAAAACGCTCCCTCA TTTT	TGAGAGATGGTCGTG GAGTG	59.9	733	INTERGENIC	--	--	--
Ca1_P1_29846530	Ca1	29846530	CTTT/CTTTTT	TGGATTGGGGATCATT CATT	TCAACATTTGGAAGCA CAAGA	60.0	897	DRR	Ca_24388	--	--
Ca1_P1_29846735	Ca1	29846735	A/AATATATATATAT	AGAACGGTTTTCTGTC CGTG	TCAACATTTGGAAGCA CAAGA	60.1	689	DRR	Ca_24388	--	--
Ca1_P1_29846941	Ca1	29846941	TAAAAAAAAA/TAAAAAAAAA	TGTTGCCAACTGAAAA TCGT	ATACAGACACCGAATG GGGA	59.2	828	DRR	Ca_24388	--	--
Ca1_P1_29848026	Ca1	29848026	ATGT/AT	TCTTTTCATCAGGCCC AATC	GGAAAGTGAGGGAAC CAATG	60.0	228	INTRON	Ca_24388	--	--
Ca1_P1_29853119	Ca1	29853119	TAA/TA	TCCACGAGATTTTCCT TTGG	TGTCATCATTCTCTGC TGGC	60.0	357	INTERGENIC	--	--	--
Ca1_P1_29853730	Ca1	29853730	GTGGAAGTCT/GTGGAAGTCTGGAAG TCT	TTGCATTCTAGGTTT AGCC	TATCGCTCGACCTCTG CTTT	60.2	602	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_29856647	Ca1	29856647	CTTT/CTTTT	GCATTCCTGCTCAAG ACTC	AGACAAGGAGAGTC CCACA	60.0	812	INTERGENIC	--	--	--
Ca1_P1_2993163	Ca1	2993163	ATACAATACATATTT/AT	AGCTGCTTCTTGCCAT GTTT	GGAAGCAACAGAGAA CAGCC	60.0	534	INTRON	Ca_00363	PET	NAC
Ca1_P1_2993633	Ca1	2993633	TACACA/TACACACA	GCTGTCTCTGTGCT TCCC	TGACCATTCCCTACCC CATA	60.0	278	INTERGENIC	--	--	--
Ca1_P1_2994411	Ca1	2994411	TAAATAAACAAAATA/TAAATA	CCTCTCGGATCTATC TTGG	CGCCATTGTTCTCTCC TCTC	58.7	388	INTERGENIC	--	--	--
Ca1_P1_29975624	Ca1	29975624	GTTTTTT/GTTTTTTT	ACCAACCTGTGCATC CAAT	GCGAGGACGAAAATG ACTGA	60.2	468	INTERGENIC	--	--	--
Ca1_P1_30036117	Ca1	30036117	TCC/TC	TGGACCCACATGATTG GTTA	TTTCCGTCCTCCCTAG GTTT	59.6	661	INTERGENIC	--	--	--
Ca1_P1_3003710	Ca1	3003710	AATATATATATATATA/AATATATAT ATATATATATATATATA	GAAAGGCATGCAATAT GGGT	AATCTGCCGACGCAAA CTAT	59.8	440	DRR	Ca_00364	A	bHLH
Ca1_P1_30044156	Ca1	30044156	AACACACAC/AACACAC	CCAAGGAAGGACGAAA ATGA	TCGCCCTCCTTAGGCT TATT	60.0	815	INTERGENIC	--	--	--
Ca1_P1_30058506	Ca1	30058506	T/TC	GAACGGGAGGCTCATA CAAG	TGCTGAGGAGTTCTTG GACA	59.7	475	INTERGENIC	--	--	--
Ca1_P1_30067411	Ca1	30067411	TAAAAAAAAA/TAAAAAAAAA	GGATCGAAGTTTGGGA CAGA	AAGCGTGGTGTGGGA AAATA	60.1	710	INTERGENIC	--	--	--
Ca1_P1_3013948	Ca1	3013948	GTTTTT/GTTTTT	TGCGGCTATTACATTG GTGA	AACCGACAAGGCAAGA AAGA	60.1	182	INTERGENIC	--	--	--
Ca1_P1_30167193	Ca1	30167193	ATTT/ATT	ATGTGGGCCAATATCC TTCA	TGCATTTCACTCAAT CCCA	60.2	260	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_3017274	Ca1	3017274	TTATTA/TTATTACTATTA	TGCTAACAAATTTATTC GACCTTTT	GGCCACATTGTGCTTC ATATT	59.5	179	INTERGENIC	--	--	--
Ca1_P1_30183116	Ca1	30183116	T/TG	TTCAACATGACCGAAC CAAA	CCCCTCCTCAAGTTGG TACA	59.9	203	INTRON	Ca_22469	R	--
Ca1_P1_3020354	Ca1	3020354	AGG/AGGG	CAAGCAACATGCTGAA GGAA	ATGTCCTTAGTGTCAC GGGG	60.0	808	INTERGENIC	--	--	--
Ca1_P1_3020722	Ca1	3020722	GGCTT/G	CCCCGTGACACTAAGG ACAT	GAAGGTCGCATCTCCA TGAT	59.8	513	INTERGENIC	--	--	--
Ca1_P1_30213031	Ca1	30213031	TGAGAGAGAGAGAGAGAGA/TGAGAG AGAGAGAGAGAGAGA	TTGTTAATTGAGTTGC GACGA	GCCCTCAGATGAGAGT CAGG	59.4	636	INTERGENIC	--	--	--
Ca1_P1_3024882	Ca1	3024882	GTTTTT/GTTTTTTT	ATGGTCCGTAAGTCTCA GTTG	TGAAAACCATGACCGA CAAA	60.1	761	INTERGENIC	--	--	--
Ca1_P1_30287511	Ca1	30287511	GTTTT/GTTT	CCATCAAAATCGTCA TGGA	ACTCAGATTGGTCTGT GGGG	60.3	305	INTERGENIC	--	--	--
Ca1_P1_3033831	Ca1	3033831	ATATCTATCTATC/ATATCTATC	GTGTTTGGCTTTGCAA CTGA	AGGAGAAGCTGACGG AACAA	59.9	675	DRR	Ca_00368	L	--
Ca1_P1_30352443	Ca1	30352443	CACA/CACAACA	TCATCTTGGGAGGCTC CGAT	TTGTGGTCTAGGCGTC AAAA	59.6	673	INTERGENIC	--	--	--
Ca1_P1_3037452	Ca1	3037452	AT/ATTTAAAGTATTTGTT	ACACCAGCCGTTGAAT AAGG	ATAACGGTGAGCCT GTTTG	60.0	916	INTRON	Ca_00370	--	ARF
Ca1_P1_3039653	Ca1	3039653	GTTTTT/GTTTT	CGGAATTAGCTTTGG TTCTTG	GGCGTTTTGTTGATTC TGTTG	60.1	902	INTERGENIC	--	--	--
Ca1_P1_30398618	Ca1	30398618	GTTTTTTTTT/GTTTTTTTTTTT	TTAGGCCAGTACAGT TCGG	GGGGTGTCAACTTGT TTGT	60.1	901	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_3040639	Ca1	3040639	ATTT/ATTTT	TGACAAATCAGATGGG GGAT	CAATTTGCAGCCACTC AATG	60.1	773	INTERGENIC	--	--	--
Ca1_P1_30406481	Ca1	30406481	ATGTGTGTGTGTG/ATGTGTGTGTGTG GTG	GTTGCGGGATTGAGAG ATGT	TGGTTGGAAGGAAGC AGACT	60.1	459	INTERGENIC	--	--	--
Ca1_P1_3042228	Ca1	3042228	ATTT/ATTTT	GAGCCAAGATCGATGG GAT	TTTGTATGAACACAAC CCCAAA	60.0	502	INTERGENIC	--	--	--
Ca1_P1_30432201	Ca1	30432201	CTTTTTT/CTTTTTT	CCACAATATCAAAGGG CCAC	AGAGAAAACAAAAGGC GCAA	60.2	471	INTERGENIC	--	--	--
Ca1_P1_3043596	Ca1	3043596	GTATATATATATATAT/GTATATATATA TATATAT	GGACCGAAATGTTGCC TAAA	GAC TTGGTCAATTTGC CGAT	59.9	531	INTERGENIC	--	--	--
Ca1_P1_30440874	Ca1	30440874	AAATAATAATAATAATAATAATAAT AATAATAATAATAATAATAATAATA ATAATAAT/AAATAATAATAATAATAAT AATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATAA T	GAAATGCGGATGTGAG GTTT	ATGCTTTTGCCAATGA GGTC	59.9	612	INTERGENIC	--	--	--
Ca1_P1_30452929	Ca1	30452929	TT/TTAT	GAAGAGTTACGCGGAC AAGC	AGGAAGAGTGGAGTT GCGAA	60.0	768	INTERGENIC	--	--	--
Ca1_P1_3045718	Ca1	3045718	TCAC/TCACTACAC	CGTAATCACATACATA GGGCTCA	CATTGCACGGTCAATT CTTG	59.0	479	DRR	Ca_00371	I	--
Ca1_P1_3045928	Ca1	3045928	TGC/TGCGGC	ACCGTGCAATGCAGAT GTAA	TGATGCAGCCTAAGTG GATG	60.1	398	DRR	Ca_00371	I	--
Ca1_P1_30475519	Ca1	30475519	ATTT/ATTTT	AGGATGCATGGGATGA AAAG	AAACTTCTACTCGGGC CCAT	59.9	766	INTERGENIC	--	--	--
Ca1_P1_30483540	Ca1	30483540	ATTTAGAAGTCT/A	TGACCCACTAAGGCAC ATGA	CGGTATGGAATTTTGTG GTGG	60.1	430	INTRON	Ca_22457	--	--
Ca1_P1_3049357	Ca1	3049357	ATT/AT	ATCCTTAAAGAGAGGG GCCA	AAACCCAGGAAAGGGT CACT	60.0	888	INTRON	Ca_00371	I	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_30508503	Ca1	30508503	ATTTTTTTT/ATTTTTTTTTT	TGAGAAAAAGAAAGCT GTCAGATG	AAGATTCAAGTCAAGGG GGCT	60.1	329	INTERGENIC	--	--	--
Ca1_P1_30530345	Ca1	30530345	ATTTT/ATTT	GCAACTACGGTGAAGG CAAT	CCCTTGTGAAACTCGG CATA	60.1	830	INTERGENIC	--	--	--
Ca1_P1_30603090	Ca1	30603090	TTATATATATATATATATATATAT AT/TTATATATATATATATATATAT	AAACCAACAAAGTTG CGTC	TTGGAAGGAGCCCTTA CCTT	60.0	813	INTERGENIC	--	--	--
Ca1_P1_30603494	Ca1	30603494	TAA/TAAA	GGTAAGGGCTCCTTCC AAAC	GCAGCTTGAGTGCAAC ATTT	59.9	323	INTERGENIC	--	--	--
Ca1_P1_30603511	Ca1	30603511	GTTTTT/GTTTT	GGTAAGGGCTCCTTCC AAAC	GCAGCTTGAGTGCAAC ATTT	59.9	323	INTERGENIC	--	--	--
Ca1_P1_30627831	Ca1	30627831	AATATATATATATATAT/AAATATA TATATATATATATATATAT	CTTGGGAAGTGGAGAG CAAG	CCAACGTCACTTCCAA GGTT	60.0	797	INTERGENIC	--	--	--
Ca1_P1_30667611	Ca1	30667611	GAACGAAAAATAAACGAAAAA/GAA CGAAAAA	CATCGGGATCAAACAA CACA	GGCGCCCTAAAGTCT AAGT	60.4	410	INTERGENIC	--	--	--
Ca1_P1_30682856	Ca1	30682856	CATATATATATATATATATAT/CATA TATATATATATATATAT	GTTGGTTCCTAGCAC CGTA	TCCGCCTAGGAGATAG CAGA	60.0	672	INTERGENIC	--	--	--
Ca1_P1_3068309	Ca1	3068309	TAAAAAAA/TAAAAAAA	TCATTGGGTTGGGTTT TCAT	TTATCAGTTGCAGCCT GTGC	60.0	626	INTRON	Ca_00374	EH	bHLH
Ca1_P1_30684955	Ca1	30684955	GTATATATATAT/GTATATATAT	GGCCATAAATCGAAGG CATA	ATTCGGTTTGGGTTCA CGTA	59.9	184	INTERGENIC	--	--	--
Ca1_P1_3072719	Ca1	3072719	A/ATAAG	GCGAATGGTTGAAACT GAAA	CGTTGGAAGTCCCAAT GACT	58.7	563	INTERGENIC	--	--	--
Ca1_P1_3073093	Ca1	3073093	CTTTTT/CTTTTT	CCTCCTTACGGCGAAA CATA	CGTTGGAAGTCCCAAT GACT	60.1	234	INTRON	Ca_00375	--	bHLH

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_30740126	Ca1	30740126	CTGT/CT	TCGGAGCACACCTAC ACAA	ACATTTGCCACCGTTA GAGG	60.3	901	DRR	Ca_22454	OE	WRKY
Ca1_P1_30745547	Ca1	30745547	C/CT	TTTTTGGGTTTCCTTT CCC	TGCAATATGTATCGTG GATGG	60.1	817	INTERGENIC	--	--	--
Ca1_P1_3075271	Ca1	3075271	TAA/TAAA	GAGGTGTATGAATGTT CACACGTA	TCATGGCAGTCTGCAA AAAG	59.0	542	INTRON	Ca_00375	--	bHLH
Ca1_P1_30755262	Ca1	30755262	CAAAAAAAAA/CAAAAAAAAA	AAGAGAGGTCACTTTG GCGA	TGACTGAGACAGCTCG ATGG	60.0	489	INTERGENIC	--	--	--
Ca1_P1_30766528	Ca1	30766528	GA/GAA	CTGCATTTCGTCCCAA GAAT	TAATCCAGCTCCCGA TTTG	60.1	318	DRR	Ca_22451	R	ZF-HD
Ca1_P1_30766663	Ca1	30766663	CA/CATGGA	CTGCATTTCGTCCCAA GAAT	GTTACATTAAATCGGT GCCC	60.1	702	DRR	Ca_22451	R	ZF-HD
Ca1_P1_30767234	Ca1	30767234	ATTTTTTTTT/ATTTTTTTTT	GGGCACCGATTAAATG GAAC	GAAGGTGATGTTTGGC GATT	60.2	549	DRR	Ca_22451	R	ZF-HD
Ca1_P1_30770184	Ca1	30770184	TAAA/TAAAA	AGTGGCTTGAGGAGT TGGT	CGTTCGGCTTTCTTCT TCTG	61.1	535	INTERGENIC	--	--	--
Ca1_P1_30790839	Ca1	30790839	TGTAAC/T	TTTTTGATGGTTCAAC GAGAA	GGTTGAATAATTGAAA AGAGGTGG	58.3	250	INTERGENIC	--	--	--
Ca1_P1_30828576	Ca1	30828576	C/CTATATATATA	CCTCACTGAGCCAAA GCTC	CACACAAACACACACA CACACA	60.1	543	INTERGENIC	--	--	--
Ca1_P1_3083516	Ca1	3083516	AT/ATT	TCATTGACTGAGGCT GCAT	GGACGAGGAGTTGGA TTTGA	59.4	884	INTRON	Ca_00376	--	bHLH
Ca1_P1_30844081	Ca1	30844081	AATATATATATATATA/AATATATAT ATATATATATA	TGAAAAGGGATGGAAT GGTT	AAGCATTATGAAGATG ACGCC	59.2	387	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_30846710	Ca1	30846710	TAAAAAA/TAAAAAA	AAATCCGATTATGAG GCCC	TAGGATGGGTCGTAG GGTTG	60.1	604	INTERGENIC	--	--	--
Ca1_P1_3086710	Ca1	3086710	GGAGAG/GGAG	AAATCCTCCTCTCAAC CCGT	TTTGAGCGATAGAATT GCCC	59.9	710	DRR	Ca_00377	J	--
Ca1_P1_30874605	Ca1	30874605	A/AT	TGTGATGCAGTTGCTC CATT	CAAGCGTCATGCCAAA CTTA	60.3	624	INTERGENIC	--	--	--
Ca1_P1_3088406	Ca1	3088406	AAACAACA/AAACA	GCCAAATGGCTCCTTCA AAT	TTCCCGATAAGACGTT TTGC	60.0	439	DRR	Ca_00376	--	bHLH
Ca1_P1_3089369	Ca1	3089369	AT/ATT	AAAATCGGCTTTGGGC TCTT	CCGTGTTAGTCGTCTA TTTTTACCA	60.1	713	DRR	Ca_00378	I	--
Ca1_P1_30918162	Ca1	30918162	TTATATA/TTATA	GTCGACTCTCAATCCA TCCC	AAATCATCGGCTTCCA TGTC	59.5	613	INTERGENIC	--	--	--
Ca1_P1_30918807	Ca1	30918807	AGGGG/AGGG	GACATGGAAGCCGATG ATTT	CATTGGGATGGAACC AAGT	59.9	744	INTERGENIC	--	--	--
Ca1_P1_30938421	Ca1	30938421	TCCC/TCC	CCCTCTGCAATGTCGG TAAT	GGTGAAACTGGGTG GAAGA	60.0	526	INTERGENIC	--	--	--
Ca1_P1_30945218	Ca1	30945218	TCC/TCCC	ATATTGGCTCGGAGGC TTTT	CCGCGAGTAAATCCGA TAAA	60.1	661	INTERGENIC	--	--	--
Ca1_P1_3094552	Ca1	3094552	TA/T	GGTGCTCTTAGAGGCA AAGG	TTGGAACAATGACGGT GTTG	59.1	633	INTERGENIC	--	--	--
Ca1_P1_30968989	Ca1	30968989	A/ATACAT	ATGCATGACCATTGAA CCAA	GCCAATTAACCCGGAT AACA	59.8	733	INTERGENIC	--	--	--
Ca1_P1_30969047	Ca1	30969047	ATTTTTGGT/AT	ATGCATGACCATTGAA CCAA	GCCAATTAACCCGGAT AACA	59.8	733	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_3096944	Ca1	3096944	ATTTTT/ATTT	ATTTGGGTACCATGC AAAA	AACCGAGTTGGCATT CTGG	60.3	463	INTERGENIC	--	--	--
Ca1_P1_30969550	Ca1	30969550	ATA/ATACAATTTGTTA	GTTATCCGGGTTAATT GGCA	AAACGCTCGCTTTGT TAGC	59.7	631	INTERGENIC	--	--	--
Ca1_P1_30983343	Ca1	30983343	GTTTTTTTT/GTTTTTTT	GGGAGACAAAACCTTG AATGA	AACCACGCCTCTTTGT GTTC	60.1	857	INTERGENIC	--	--	--
Ca1_P1_3099270	Ca1	3099270	CATA/CATATATA	ACCGAATTTCTTTTCG CTTT	TGTGATTGTGGATGTT CGGT	60.1	624	INTERGENIC	--	--	--
Ca1_P1_30993040	Ca1	30993040	AAAAATTAAATTAATTA/AAAAAT TAAATTAATTAATTAATTA	TCCTTCCGATCGAGTA GTGG	AAACATGAAATGGACA ATACAAAA	60.2	398	INTERGENIC	--	--	--
Ca1_P1_30997388	Ca1	30997388	T/TGG	CCACGAAGTCCCAAG ATAA	CTTGGTGTCCGGTCAA AAGT	59.9	381	INTERGENIC	--	--	--
Ca1_P1_31014916	Ca1	31014916	ATTT/ATTTTTATTTCATTTTTTTTT	GAGCATGAAGCAACCT CTCC	TGATGAATCTGTGTGT CCATGA	60.0	198	INTERGENIC	--	--	--
Ca1_P1_31022339	Ca1	31022339	GTTTT/GTTT	GTTTCAACCGCATCCA ATTT	TCCCAATCGAATCTAC GAGG	59.8	442	INTERGENIC	--	--	--
Ca1_P1_3103121	Ca1	3103121	AT/ATT	GGGTGCAATGCTGGAT TATT	GTTAAGTGAGGTCCGT CCCA	59.8	462	DRR	Ca_00380	--	--
Ca1_P1_3107570	Ca1	3107570	ATGTGTGTG/ATGTGTGTGTG	TCCTTGACGCTTTTA ATCA	AAACGTGATCGAACGA ATCC	59.4	440	INTERGENIC	--	--	--
Ca1_P1_3107729	Ca1	3107729	ATT/ATTT	GTGCGTGCGTGTGAAC TATT	TGGCAGTGAAATAAA ATCGC	59.8	616	INTERGENIC	--	--	--
Ca1_P1_31090559	Ca1	31090559	CAA/CA	CGCTCGCTCATTGAAT AACA	CTCCACGACCATTCTG AAAT	60.0	417	INTRON	Ca_25826	S	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_31093582	Ca1	31093582	GTCAATTCTCAATTCT/GTCAATTCT	TGCGTGAAAACTCAATCCT	ATTAAGTTCTACCGGCCAC	58.4	897	INTERGENIC	--	--	--
Ca1_P1_3109985	Ca1	3109985	ATTTTTTTTT/ATTTTTTTTT	TGTCTACAATGGTGTGGCA	AAGAAAAAGTGCTAGTCCATGGTT	60.0	696	INTERGENIC	--	--	--
Ca1_P1_31102577	Ca1	31102577	ATTTTTTTTT/ATTTTTTTTT	ACTGGGAGGTGTTGAGTGG	CATGCACAACCTCATGTGTC	60.0	782	DRR	Ca_25825	--	--
Ca1_P1_3111391	Ca1	3111391	AGG/AGGG	GTTGGCTTTGCCGAATGTAT	CGTTGCATTTTCAAGTCTCG	60.0	254	INTERGENIC	--	--	--
Ca1_P1_31119469	Ca1	31119469	CAAGT/CAAGTAAGT	AATCCGTTGACTATTGCGAA	CACTACAACCGCCACTTCAA	58.2	108	INTERGENIC	--	--	--
Ca1_P1_3112331	Ca1	3112331	AC/A	AATCTTCCACGGAACAATCAA	GGGAGATGGAAATTGGGAAT	59.4	877	INTERGENIC	--	--	--
Ca1_P1_3112449	Ca1	3112449	AT/ATGT	CCAAGATCATAGGTGCAAAACA	GGGAGATGGAAATTGGGAAT	60.0	469	INTERGENIC	--	--	--
Ca1_P1_3113743	Ca1	3113743	GATATATATAT/GATATATATAT	TGATTACAATCCTTTAAGCACG	GGAATCGAACTCGAGACTGC	57.1	564	DRR	Ca_00381	--	--
Ca1_P1_3113861	Ca1	3113861	TA/TAA	TGATTACAATCCTTTAAGCACG	GGAATCGAACTCGAGACTGC	57.1	564	DRR	Ca_00381	--	--
Ca1_P1_31141128	Ca1	31141128	C/CA	ATTATTGAGGTTGGCCCTC	TCCACTTTTGTGCTTAGGC	60.2	376	INTERGENIC	--	--	--
Ca1_P1_31148066	Ca1	31148066	A/AC	CCAACCCCTTCCTGTAAT	TTGGGTACATCATGGGAGT	60.0	468	INTERGENIC	--	--	--
Ca1_P1_31162887	Ca1	31162887	T/TG	CCGGGGATTGCCATATAACT	CTAATAGGCTGCATCGGAGG	60.9	342	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_31163466	Ca1	31163466	TGG/TAGAGG	ACTTTTGCGGAGAAGC ACAT	CGTTCGTCTTTTCCTC TTGC	59.9	360	INTERGENIC	--	--	--
Ca1_P1_3119826	Ca1	3119826	CAA/CAAA	TGTCTACAATGGTGTT TGGCA	GCGGACCATTAAATTG TTCAAG	60.0	451	DRR	Ca_00382	--	--
Ca1_P1_31205485	Ca1	31205485	AGTGTGTGTGTGTGTGTGTGTGT G/AGTGTGTGTGTGTGTGTGTGTGTG TGTG	AGACTCAAAGTGAAGG CCCA	GACTCATCAGAGGCAT GCAA	59.8	504	INTERGENIC	--	--	--
Ca1_P1_31216866	Ca1	31216866	AG/A	GCCCAAAGAGCAAACA CATT	GCGATTTTCTTAGGG ACCA	60.1	785	INTERGENIC	--	--	--
Ca1_P1_31235357	Ca1	31235357	TAATGGAATGGAATG/TAATGGAATG GAATGGAATG	GACAACAGGTGGACAC ATCG	AACACAAGGTTGAG TCGG	60.0	562	INTERGENIC	--	--	--
Ca1_P1_31238518	Ca1	31238518	ATT/AT	CATCGTAAGCATGTGG TTGG	TAATGGCCCCATAGCA GAAG	60.0	861	DRR	Ca_21848	R	FAR1
Ca1_P1_3125340	Ca1	3125340	GATAAATAAATAAATAAATAAA/G ATAAATAAATAAATAAATAAATAA ATAAA	ACCACTGAATCATGCA CCAA	CAGTCTGCAGTGACCT TCCA	60.0	103	INTRON	Ca_00382	--	--
Ca1_P1_31259507	Ca1	31259507	ATT/AT	ATCTTAAACCCCTGCG AGGC	TCCGACTTGGTCCTTT ATTCC	60.6	501	INTERGENIC	--	--	--
Ca1_P1_31306839	Ca1	31306839	AAATAATAATAATAATAATAATAAT AATAATAATAATAATAATAATAATA /AAATAATAATAATAATAATAATAA TAATAATAATAATAATAATAATAAT AATA	CTAACATGCGTGTTCG GTG	CGGCGAGTAATTCTAA ACGG	59.9	541	INTERGENIC	--	--	--
Ca1_P1_31310549	Ca1	31310549	GCC/GCCC	GTTTGGTTTTCTTTGG GGGT	CTCCAGTCAAGCATTG CCAT	60.1	187	INTERGENIC	--	--	--
Ca1_P1_3131301	Ca1	3131301	TATA/TATACTCATA	GGCCAGACTCAGACCT TTCA	ACCCATTTTCTGACA ACCG	60.4	506	INTERGENIC	--	--	--
Ca1_P1_31324079	Ca1	31324079	AAA/AAATAA	TATTCCGTTGTCGAGT TCCC	AGGGATAACCTGGTG CTGTG	59.9	604	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_31341315	Ca1	31341315	CTT/CTTT	TGTCCATTTGAACTTC GGTT	AGAGCAAAATCGCTCC AAAA	59.5	772	INTERGENIC	--	--	--
Ca1_P1_3134264	Ca1	3134264	CGGGAAGTGCTG/CG	CCTTCGCTTCTCTCTC TTTT	TTCCATTTGCAACATC AACC	60.0	268	INTRON	Ca_00383	--	--
Ca1_P1_31362029	Ca1	31362029	TTATAAAGTGAGTAAATATAAAGTGA G/TTATAAAGTGAG	TTCCAATGACTCTCAC CTTCC	CGCAGACATTGCTAG AGAA	59.1	375	INTERGENIC	--	--	--
Ca1_P1_31386654	Ca1	31386654	TG/TGAAG	TTTCAACCGCTCAACA TCAA	TGTCGCGCTACCTTTC TTCT	60.2	445	INTERGENIC	--	--	--
Ca1_P1_31396918	Ca1	31396918	GAAAATTAATTAATAAT/GAAAAT TAAT	GGGACAATTATGGCAA TGCT	ACAATTATTTGTGGG GGCA	59.8	569	INTERGENIC	--	--	--
Ca1_P1_31401462	Ca1	31401462	CTATATTATATA/CTATA	ATTCGTAGTAGGCCAT GCCA	TTTGC GGCTTCAAAA TATC	60.5	501	INTERGENIC	--	--	--
Ca1_P1_31428294	Ca1	31428294	ATATTTTTATTTTTATTTTTATTTTTAT/ ATATTTTTATTTTTATTTTTAT	TCAACAGGTTGATGGG TGAA	TGAGATGGAGGTGAT GGTGA	59.9	370	INTERGENIC	--	--	--
Ca1_P1_31442895	Ca1	31442895	T/TA	AATTTCCGAGCACGCA TAAC	TCCACGATGATGATT GTGGTT	60.1	299	INTERGENIC	--	--	--
Ca1_P1_31451888	Ca1	31451888	AATATATATATATATATATATATATATA TATATATATATAT/AATATATATATATAT ATATATATATATATATATATATATATAT ATATATAT	GTGGACCACCGTCAAA AATC	CTTGTTGAGGACCTT TTCG	60.2	799	INTERGENIC	--	--	--
Ca1_P1_3147144	Ca1	3147144	AATATATATATATATATATATA/AAT ATATATATATATA	TCCCAATGCTGCATGT TTTA	TGGGTTGAGTTGTGAG TTCG	60.1	650	INTRON	Ca_00385	--	--
Ca1_P1_31477691	Ca1	31477691	CAAAA/CAAAAA	AAGGGAAACGGGTACC AAAC	ACCCGTAACCCCAAA TCTC	60.1	629	INTERGENIC	--	--	--
Ca1_P1_31477842	Ca1	31477842	CTTTTTTTTTTT/CTTTTTTTTTTT	AAGGGAAACGGGTACC AAAC	ACCCGTAACCCCAAA TCTC	60.1	629	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_31498666	Ca1	31498666	TAAAAA/TAAAAAA	TTGGAGCTTCAGCATT TGTG	CCTCTTTTCTTCGCAT TTCG	60.0	747	DRR	Ca_21863	--	M-type
Ca1_P1_31505143	Ca1	31505143	GTATATATATATATATATA/GTATAT ATATATATATATA	TCCCATTCATATTATT GCGG	CATTTGACTATGCCAC TAAATGC	59.6	831	INTERGENIC	--	--	--
Ca1_P1_31506311	Ca1	31506311	A/AC	CACAACTTGGTGTAGC CGAA	GATCAATGGCCATCAT TCCT	59.8	249	INTERGENIC	--	--	--
Ca1_P1_3150964	Ca1	3150964	GCT/GCTCCT	AAGGTGAATGCAATTT CCTCAT	TTTGTGCGGAGAATTT GGAC	59.8	420	DRR	Ca_00386	S	--
Ca1_P1_3156764	Ca1	3156764	TAA/TAAA	TGGCTGTGATATTGTC GCAT	CCTTCATGTCCACATA CAATTC	60.1	696	INTERGENIC	--	--	--
Ca1_P1_3157078	Ca1	3157078	T/TG	TTGTTTGAAGTTGTGT GGTTTTT	CAGAGTCGATCCGTAG TTCG	58.6	701	INTERGENIC	--	--	--
Ca1_P1_31581161	Ca1	31581161	AAATAATAATAATAAT/AAATAATA ATAATAATAATAATAATAATAAT	CAACCCTTTTCGATGC ATTT	GGTTTTGGCATTGTTT AGGC	59.9	467	INTERGENIC	--	--	--
Ca1_P1_31587638	Ca1	31587638	TTATATATATATATATATAT/TTATAT ATATATATATATATATAT	CGTCGCTACGGTTTAG CATT	GGCAACATTTTATG CATGG	60.3	520	INTERGENIC	--	--	--
Ca1_P1_31592114	Ca1	31592114	CT/CTTT	TCAGCTGCAGTTCCAA CATC	GCACAAGTCCTTGAGG AAGC	60.0	375	INTRON	Ca_21868	F	--
Ca1_P1_31592347	Ca1	31592347	GAA/GAAAA	CCTGTGTAGCCAGCTT CCTC	TAGCCTCATCTACTCT CGCA	60.0	618	INTRON	Ca_21868	F	--
Ca1_P1_31600651	Ca1	31600651	AC/A	GGATGGAAGAGAAATT GGGA	AGGATCATGTTTGTGG TTGC	58.9	899	INTERGENIC	--	--	--
Ca1_P1_31651609	Ca1	31651609	CTTTTTTT/CTTTTTTTTT	ATGTGAAGTTGTCCAT GCCA	GCACAGTGGTTCCTT AACTT	60.0	894	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/P)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca1_P1_31716302	Ca1	31716302	A/AC	TCGGTATTTGCCATGA GACA	AAACAACCTTCATGCC TTGG	60.1	482	INTERGENIC	--	--	--
Ca1_P1_31741031	Ca1	31741031	GTATATATATATATATATATA/GTAT ATATATATATATATATATATATATA	CTTGGGCTTTACCCAT GAAA	CGATCGGCCATCATAT CTCT	59.9	781	INTERGENIC	--	--	--
Ca1_P1_31768486	Ca1	31768486	TTATA/TTTTTTATATA	ACACATTATATTAATG CGCGA	TGCCAAACGATAGGTT GTTG	57.4	646	INTERGENIC	--	--	--
Ca1_P1_31783488	Ca1	31783488	AATATATATATATATATATATAT/AA TATATATATATATATATATAT	TGGATTGGGCTGGAAT TAAA	TATAACCGACGAGGGA CGAG	60.3	466	INTERGENIC	--	--	--
Ca1_P1_31803627	Ca1	31803627	TAAA/TAAAA	CTTACGGTGAAGGAGA ACGG	ATCATTCTTTATGCGT TTGACT	59.7	793	INTERGENIC	--	--	--
Ca1_P1_3194081	Ca1	3194081	ACGAATGGTCAG/A	GCAAGGCTTGATTCCA AAAA	GGTTCACCTTCCATG AACT	60.2	799	DRR	Ca_00390	O	E2F/DP
Ca1_P1_31995451	Ca1	31995451	T/TCAC	TGCTTTGAAGACCATG TGGA	AAAAGGATTCATGCGT GTCC	60.2	354	INTERGENIC	--	--	--
Ca1_P1_31995500	Ca1	31995500	CTTT/CTTTT	TGCTTTGAAGACCATG TGGA	AAAAGGATTCATGCGT GTCC	60.2	354	INTERGENIC	--	--	--
Ca1_P1_32019371	Ca1	32019371	AATATATATATATATATATATATATA TATATATATATA/AATATATATATATAT ATATATATATATATATATATATATATAT ATATATA	GGTGCACGTGTAGCAC AAAC	TTGCCACAGTTAACCA CCAA	60.2	422	INTERGENIC	--	--	--
Ca1_P1_32030892	Ca1	32030892	AATATATATATATATATATATATATA TATATATAT/AATATATATATATATATAT ATATATATATATATATATATATATATAT	CATGGATGGGTTTTGT ACCC	TTGGAAGGAGCCCTTA CCTT	59.9	771	INTERGENIC	--	--	--
Ca1_P1_32037255	Ca1	32037255	CA/CAA	GGGAAAACTTTTGTGT GGGA	TTGGCAAATCGATTAG ACTGG	59.8	802	INTERGENIC	--	--	--
Ca1_P1_32037334	Ca1	32037334	CTTTTT/CTTTT	TCCAGTCATGTGGCTT CTCA	CTGAGCTTGTGACCAA ATCG	60.4	559	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_32037356	Ca1	32037356	CTTTTT/CTTTTT	TCCAGTCATGTGGCTT CTCA	CTGAGCTTGTGACCAA ATCG	60.4	559	INTERGENIC	--	--	--
Ca1_P1_32068343	Ca1	32068343	TAA/TA	AAAAAGTCGATCATGG CACC	CCACACAGAAGCGTCT TGAA	59.9	291	INTERGENIC	--	--	--
Ca1_P1_32080106	Ca1	32080106	T/TC	TTCCCCATGTCGATCT AAGC	AACCCTGAACAGATTG TCGG	60.0	612	INTRON	Ca_26405	--	--
Ca1_P1_32080183	Ca1	32080183	C/CGGCGATTACT	TTCCCCATGTCGATCT AAGC	AACCCTGAACAGATTG TCGG	60.0	612	INTRON	Ca_26405	--	--
Ca1_P1_32080315	Ca1	32080315	G/GA	TTCATGTAGGCGAGTT GCAG	ACCCAGTAGTCTAG CCGT	60.0	541	CDS (FRAME SHIFT)	Ca_26405	--	--
Ca1_P1_32140157	Ca1	32140157	AT/ATTATT	GGCCAAAACCCTAATT GACA	TGGCAAAGGGGAAGT CAGTA	59.8	505	INTERGENIC	--	--	--
Ca1_P1_32147050	Ca1	32147050	T/TA	CGGCCTCCAAATCTTT AACA	TTGTCATGAAAGTCTC GCCT	60.1	670	INTERGENIC	--	--	--
Ca1_P1_32151710	Ca1	32151710	TAAAAAAAAA/TAAAAAAAAAAAAA AA	TGAAGGTGTGAGCAGA TTCG	TCGGGTGGAGAATTCC TATG	60.0	593	INTERGENIC	--	--	--
Ca1_P1_32153054	Ca1	32153054	ACTCT/ACTCTCT	TATTTGACGCCTTCA CACA	AGTGAAACCAACGCCA AAAC	60.3	241	INTERGENIC	--	--	--
Ca1_P1_32153452	Ca1	32153452	TTTATTTTAT/TTTATTTTATATTATTT AT	GTTTGGCGTTGGTTT CACT	TGGGTTTGACCCTATG TGTG	60.0	353	INTERGENIC	--	--	--
Ca1_P1_32153737	Ca1	32153737	TTATATATATATAT/TTATATATATATAT AT	CACACATAGGGTCAAA CCCA	ATACATGGATTGGTTG GGGA	59.3	585	INTERGENIC	--	--	--
Ca1_P1_32155666	Ca1	32155666	AATATATATATATATATATATATATA TATATATATATAT/AATATATATATATAT ATATATATATATATATAT	TTTTAGTTTAACGGGA GAATCCA	TGTCAAAGAAGGTGGC CTTT	59.1	471	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_32155872	Ca1	32155872	TTATATATATATATATATATATA/TTA TATATATATATATATATATATATA TATA	TTACCCAAGATGGAGG AAAAA	TGTTGTCCCTTGTGCT GGTA	58.5	554	INTERGENIC	--	--	--
Ca1_P1_32163457	Ca1	32163457	CAAA/CAAAA	TTTCCCCAAATCAAC ACTC	AGGTAAGGGCTCCTTC CAAA	59.8	100	INTERGENIC	--	--	--
Ca1_P1_32174815	Ca1	32174815	TA/T	GGACTTTCAACCTTGT GGGA	ACCCAACACATCAACC CATT	59.9	580	INTERGENIC	--	--	--
Ca1_P1_32187346	Ca1	32187346	TTAAAAATAAAAAT/TTAAAAATAAAA TAAAAAT	GGCAACCAAGAGGTAT GGAA	GCCCAAGTAGTTGCAA GAGC	59.9	641	INTERGENIC	--	--	--
Ca1_P1_32189060	Ca1	32189060	ATTTT/ATTTTT	ATTAACGCCATTGCCT TGTC	GCTTTTTCCTCGCTTC CTTT	60.0	632	DRR	Ca_26126	QI	bHLH
Ca1_P1_32193944	Ca1	32193944	ACAC/ACACACACCCACGCAC	TGGGCATAATCCTTCA CACA	AAGGATGACAGGGTT GTTGC	59.9	376	INTERGENIC	--	--	--
Ca1_P1_32194223	Ca1	32194223	G/GT	TGGGCATAATCCTTCA CACA	AAGGATGACAGGGTT GTTGC	59.9	376	INTERGENIC	--	--	--
Ca1_P1_32222272	Ca1	32222272	ATTTT/ATTTTT	ACAACCTTCTCATGCTC GCAA	GGTGGCATACCTCAAC GAGT	59.6	620	INTRON	Ca_26127	--	Trihelix
Ca1_P1_32239314	Ca1	32239314	GTTT/GTT	GCGTTTCATGGAACACA CAAC	TCACCTGAGGCACATT TCAA	60.0	654	DRR	Ca_26127	--	Trihelix
Ca1_P1_32243358	Ca1	32243358	ATT/ATTTTTT	TCATGGCCATTAGAGT TTTTCA	ACATTGCAAAGTCTT GGGG	59.6	895	INTERGENIC	--	--	--
Ca1_P1_32244195	Ca1	32244195	A/AG	TGAATAGAGGGAAACG GGTG	CAGTGACCTTGTGGAG AGCA	59.9	640	INTERGENIC	--	--	--
Ca1_P1_32245598	Ca1	32245598	GTTTTTTT/GTTTTTTT	ATTTTGATGGTCAAGC CTGG	TCCCTGCTTCAGTTCG ACTT	59.9	581	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_32245801	Ca1	32245801	ACCCC/ACCCCC	ATTTTGATGGTCAAGC CTGG	TCCTGCTTCAGTTG ACTT	59.9	581	INTERGENIC	--	--	--
Ca1_P1_32257387	Ca1	32257387	TAAATCTTGATAAAATCTT/TAAATCTT	CATGCCTAGCTTGGTC AACA	TTTGATCAAGATTATC GCAAGA	59.9	554	INTERGENIC	--	--	--
Ca1_P1_32257635	Ca1	32257635	AGATAAATCTTGATAAATCTT/AGATAA ATCTT	GCTTTGATATGGGCAG GAAC	CAACAAGACGAGCGAT GTGT	59.5	863	INTERGENIC	--	--	--
Ca1_P1_32261065	Ca1	32261065	CTTTTTTTT/CTTTTTTTTT	CCAAATGTTGACAAAT TGCAT	GTTAGAGTTTTGGCCC GACA	59.7	243	INTERGENIC	--	--	--
Ca1_P1_32265621	Ca1	32265621	AT/A	GGTGTGAATGGACCAA AACC	TTTGCCCTCCTCATC ATTA	60.1	731	INTERGENIC	--	--	--
Ca1_P1_32267410	Ca1	32267410	T/TTTAA	TTCGTGTAAAATAGT GTTAGCCA	AAAAATCACATTCTT GACATAGC	58.0	635	INTERGENIC	--	--	--
Ca1_P1_32267954	Ca1	32267954	T/TG	AAGCTATGTCAAGGAA TGTGATT	CCGTGTTTTGAAAT TGACAC	58.3	378	INTERGENIC	--	--	--
Ca1_P1_32268687	Ca1	32268687	TAA/TA	AAATGGGCGGGATAAC AAAT	TTTTTAAAGGAAGGG CCAC	60.4	505	INTERGENIC	--	--	--
Ca1_P1_32269031	Ca1	32269031	TTGATGA/TTGA	GCAATAATGGTGCCC CTTG	CGCATTGAACACTATG ATCG	60.2	978	INTERGENIC	--	--	--
Ca1_P1_32281261	Ca1	32281261	CAAA/CAAAA	CACCATGTTATGCAGG GTTG	ACCAAAATAGGGAGT AAAATTCA	59.8	505	INTRON	Ca_26129	--	--
Ca1_P1_32430396	Ca1	32430396	TG/T	TCGTTTGAGCCTTTCC AACT	GCAATCACAATGCAGC AAAC	60.0	473	INTERGENIC	--	--	--
Ca1_P1_32454365	Ca1	32454365	A/AG	AGGAAACACATGAAGG CACC	TCTTCGTTGCACTCC ATGC	60.0	572	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_32485193	Ca1	32485193	CAAAAAAAAA/CAAAAAAAAA	ACAATGTAGCAAAGAC GGGG	CTTGTGCGATGCACAG ATAA	60.0	692	DRR	Ca_26796	Z	--
Ca1_P1_32494116	Ca1	32494116	TTATATATATATAT/TTATATATATAT	TGCAAAGGAAAAGACC ACAA	GGATAAAACCCCAA AGCA	59.3	477	INTERGENIC	--	--	--
Ca1_P1_32536205	Ca1	32536205	TAATATATAAATATATAAATATATAAAT ATAT/TAATATATAAATATATAAATATA T	GATTAGATCGAACGGC TGGA	ACCCAGGCTACAAAC GATG	60.2	551	INTERGENIC	--	--	--
Ca1_P1_32541628	Ca1	32541628	GATTTTATATTTTATATTTTATTTT A/GATTTTATATTTATTTTA	TGCGACTTGGAGTTAG CACTT	AGGTGTTGTTGTTTC CTCG	60.1	897	INTERGENIC	--	--	--
Ca1_P1_32566008	Ca1	32566008	TTATATATATATATATATATATATAT/TT ATATATATATATATATATATATA	TGAGCGGTTACCAAT GTGA	CCCACAAGGCTAACAC CAAT	60.1	606	INTERGENIC	--	--	--
Ca1_P1_32743551	Ca1	32743551	AA/AATAATAATAATAATA	GTCTGGCTTGACCTGA AAGC	TTCATGAAGACCCCAA AACC	60.0	604	INTERGENIC	--	--	--
Ca1_P1_32749816	Ca1	32749816	CA/C	CTGAATTTCAAATCCC CGA	GGTGCATCTACCAAG GTTT	59.9	440	INTERGENIC	--	--	--
Ca1_P1_32847990	Ca1	32847990	CTTTT/CTTTT	GCAATCACAATGCAGC AAAC	TTGGGGTGATGATTCT CAAA	60.3	299	INTERGENIC	--	--	--
Ca1_P1_3285133	Ca1	3285133	TTATATATATATATATATATATA/TTA TATATATATATATATATA	AAATGGGACTTGCCATA GCCA	CTGTTTCTCTCGTTGC ACCT	60.5	379	INTRON	Ca_00398	--	LBD
Ca1_P1_32875368	Ca1	32875368	ATTTTTTTTT/ATTTTTTTTT	TACGGGTCTTACACAA CGCA	TAGCGGTGGGAAGAA CTCTG	60.2	343	INTERGENIC	--	--	--
Ca1_P1_32911601	Ca1	32911601	AAATAATAATAATA/AAATAATAATAA TAATAA	CAAAATGGAGCAAGAA ACAGG	CAAGTTCAACGAGCGC CTAT	59.7	892	INTERGENIC	--	--	--
Ca1_P1_32911818	Ca1	32911818	GATAATAATAATAATAATAATAAT AATAATAATAA/GATAATAATAATAATA ATAATAATAATAATAATAA	TGTGGTTGACTAAATG TGCAA	ATGAGTCGGCTTACGC TGTT	57.7	452	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_32917662	Ca1	32917662	ATTTTTTTT/ATTTTTTTT	TCTCCAAAATAGGAGG GACA	TTTGTGTTGCAGGAA TACGA	57.2	566	INTERGENIC	--	--	--
Ca1_P1_32922285	Ca1	32922285	CTT/CTTTT	CCCTTTGCTTTTGGGA GTGA	ATGCTCCCATGGAAAG ATTG	60.2	386	INTERGENIC	--	--	--
Ca1_P1_32960646	Ca1	32960646	CA/CACATAAAATGTA	CCGAGCCAAAATCCAA AATA	ACTTCATTGCTCTCCC ATGC	59.9	215	INTERGENIC	--	--	--
Ca1_P1_33034774	Ca1	33034774	AATATATATATATA/AATATATATAT A	ACCCCACTTGTAAAG GCAA	TCACGTTGATTGAGGG ATGA	59.5	618	INTERGENIC	--	--	--
Ca1_P1_33055263	Ca1	33055263	CTTTTTTTTT/CTTTTTTTTTT	CAACAATGTTCAAGTT CAATGC	TTTTCATGCACGGATT ATGC	58.2	342	INTERGENIC	--	--	--
Ca1_P1_33102523	Ca1	33102523	TTT/TTTATT	AAGGCTAAATCACATT CGTGG	TCACTCCGTCATGT CAAA	59.1	835	INTERGENIC	--	--	--
Ca1_P1_33104165	Ca1	33104165	AACCGC/A	TGCACATTACTCCCAA ACCA	AGAGACGGAAGAGTG GCAAA	60.0	199	DRR	Ca_19439	--	--
Ca1_P1_3310529	Ca1	3310529	AATATATATATATA/AATATATATAT ATATATA	TCCACATTAGTGGCCA AACA	GTAATCCACCCACCGT CAAG	60.0	690	DRR	Ca_00401	T	YABBY
Ca1_P1_33105635	Ca1	33105635	TC/T	TGCCAAGAAGGATAAA AGCA	TTCTGCATTTTCCTTG AGCA	59.4	101	DRR	Ca_19438	--	--
Ca1_P1_33117706	Ca1	33117706	TAAAAAAAA/AAAAAAAAA	TATAAAGGACCCTGCC CAAA	TGCCCTTTTACCGAT CTAC	59.4	706	INTRON	Ca_19439	--	--
Ca1_P1_33122230	Ca1	33122230	TGATGTGTACATGAAGATGTG/TGATG TG	CAATTTGAGTTGCAATT GACG	TTTTTCAGAAATGTTAA GGGAAAAA	59.2	141	INTRON	Ca_19439	--	--
Ca1_P1_33134129	Ca1	33134129	CTATA/CTATATATA	CGTTGACTATTTCAATC GTTGG	CACCTGTAGTCCAACA CTCGTT	59.5	265	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_33167519	Ca1	33167519	CTTTTTT/CTTTTTTT	GCGGCATTATTTGAAC GATT	TGGCACCATTTTCITT CACA	59.9	654	INTERGENIC	--	--	--
Ca1_P1_33187249	Ca1	33187249	GTAT/GTATAT	TAAAGGTTCCCTCGCA TCTG	CACCACAGAAGAACTT GGCA	60.2	530	INTRON	Ca_19440	A	--
Ca1_P1_33228816	Ca1	33228816	AATATATATATATATATATATATATA TATAT/AATATATATATATATATATAT ATATATATATATATAT	TACCTTTGTGCTTCCC CATT	ACCAAACACCCCAAT ATGA	59.4	842	INTERGENIC	--	--	--
Ca1_P1_33237244	Ca1	33237244	GATGTATGTATGTATGTATGTATG/G ATGTATGTATGTATGTATGT	TGCTGCGAGAAATAAC ATCG	ACGTTGCTTTCAGAGG GAAA	60.0	550	INTERGENIC	--	--	--
Ca1_P1_33244510	Ca1	33244510	ATTTTTT/ATTTTTTTTT	AATTCAGACGCGAAAG AGGA	CAAGTCTCCCAACTTC CCAA	60.0	221	INTERGENIC	--	--	--
Ca1_P1_33247147	Ca1	33247147	TA/T	GTGTTGGACCGGTTCT TGAT	GTCTGATGACAAAAGG GGGA	59.8	643	INTERGENIC	--	--	--
Ca1_P1_33252560	Ca1	33252560	TAAAAAGAA/TAAAAAGAACCCAAAAA AGAA	TCTCCTTGTGTGTGCA CTTG	ACATGCTGTTTTTGCT GCTG	59.9	603	INTERGENIC	--	--	--
Ca1_P1_33269540	Ca1	33269540	AGGTTTTTTGTGGGTTTTTG/AGGTTTT TGTGGGTTTTTGTTGGGTTTTTG	CTCCACGTCAAAACCA CCTT	CTGTCTGCACTCCA CCAA	60.0	629	INTERGENIC	--	--	--
Ca1_P1_33289762	Ca1	33289762	TAAAAAA/TAAAAAA	GCGAACTCGAGGATG GTTAT	GAGGTTGATCCTTCTG CTCG	59.2	585	INTERGENIC	--	--	--
Ca1_P1_33300693	Ca1	33300693	TCAACAACAACAACAACA/TCAACAA CAACAA	CTCAACCATCAGAGCA CCAA	TTATACGGCGGAGGAA TGAG	59.8	382	INTERGENIC	--	--	--
Ca1_P1_33301285	Ca1	33301285	CATATATATATATATAT/CATATATA TATATATATATATATATATAT	ATGGGAGGAAGAAACC GAAG	TTGGAATTTCAAGTGCC ATCA	60.4	838	INTERGENIC	--	--	--
Ca1_P1_33328448	Ca1	33328448	GTTTTTTTTT/GTTTTTTTTTTTT	CGTTTCATTGTCTATCC ATCTCA	TGACTTTGATGAAAGC CTTGT	59.1	130	INTRON	Ca_19441	--	MIKC

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_33335208	Ca1	33335208	AAGAGAGAGA/AAGAGAGAGAGA	TCCAAATCGACTTTC AACC	CAACCATTGTTGCTCC CTTT	59.9	777	INTRON	Ca_19441	--	MIKC
Ca1_P1_33336930	Ca1	33336930	GAAAAA/GAAAA	CAATGGCAACAAGGTC AATG	TCACATCTGTTGGTAA CGGG	60.0	856	INTRON	Ca_19441	--	MIKC
Ca1_P1_33353185	Ca1	33353185	ATTT/ATT	GGGAGATTGTTGGAAC CAAGT	CCGGGCTTCAATTAG TCCT	60.2	601	INTRON	Ca_19441	--	MIKC
Ca1_P1_33354017	Ca1	33354017	ATTCA/ATTCAACCCCTTTTCA	GGAGGGTCAGGTGCT TTGTA	CAGCCTCCATCCTTCT TCTG	60.1	516	INTRON	Ca_19441	--	MIKC
Ca1_P1_33356994	Ca1	33356994	TCC/TC	CGAGTGGTTTTGTGTG TCGT	ATCATTATCCTCGTGT GGGC	59.6	345	INTRON	Ca_19441	--	MIKC
Ca1_P1_33379812	Ca1	33379812	GTTTTTTT/GTTTTTTT	AGAATTGGTGGTTGAG GACG	TTGGGAAAGAAATCGA AACA	60.0	588	INTERGENIC	--	--	--
Ca1_P1_33401507	Ca1	33401507	AAGAGAGAG/AAGAGAGAGAG	AGCTCTTTGATGACCG TTGG	GGAGGATGGCAGACC TATGA	60.3	303	INTERGENIC	--	--	--
Ca1_P1_33452743	Ca1	33452743	CCTTCTTCTTCTTCTTCTTCTTCT TCTTCTTCTTCTT/CCTTCTTCTTCTT TCTTCTTCTTCTTCTTCTTCTT	TTGGATCCAGAGGCAG AGTT	TGAAGAAGAGGAGCC CAAGA	59.8	477	INTERGENIC	--	--	--
Ca1_P1_33527629	Ca1	33527629	AGG/AG	TCCTTCCAATTGCTTG CTTT	GAGGATGTTGGAACCA AGTAGG	59.8	521	INTERGENIC	--	--	--
Ca1_P1_33546385	Ca1	33546385	TAAAAAA/TAAAAAA	TGTGTCTGAAGCGCAA ATTC	CTCATCGCAAGCATTG GTTA	60.0	445	INTERGENIC	--	--	--
Ca1_P1_33560144	Ca1	33560144	TAAAAA/TAAAAA	CTCAAATCTGTTTGG GGGA	GAAGTCGGGGTGTTA CTCCA	59.9	515	INTERGENIC	--	--	--
Ca1_P1_33567505	Ca1	33567505	CATATATATATATATATAT/CATATA TATATATATAT	GCATTCCCTCATTGTA ACTCG	GGGTTTGAGTTTGATG ACAGG	59.6	711	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_33568041	Ca1	33568041	ATT/ATTT	CCTGTCATCAAACCTCA AACCC	TCGCAATGTGGTGTTA AGGA	59.4	367	INTERGENIC	--	--	--
Ca1_P1_33579938	Ca1	33579938	GTT/GT	TTCATTATTTACCGGCC CAA	TTCCATAGAGTTGGAA CCCG	60.1	530	INTERGENIC	--	--	--
Ca1_P1_33597493	Ca1	33597493	ATT/ATTT	CGGCTTTGGTCCCTTC TTA	CTGGATCATGAAAGCC CTGT	60.2	498	INTERGENIC	--	--	--
Ca1_P1_33603009	Ca1	33603009	C/CCCTACAAGAAG	CAAATCTTCTTCAAATC TTGACCAT	AGGCACATGTTGGCTT CTTC	59.9	285	INTERGENIC	--	--	--
Ca1_P1_33630707	Ca1	33630707	ATCGTCTTC/ATCGTCTTCAACATAGT CGTCTTC	CGAGATACCGGGACTA CCTC	AGTGTGAGACATGGG GGAAG	58.6	475	INTERGENIC	--	--	--
Ca1_P1_33648367	Ca1	33648367	AATTTTTTATTTTTTATTTTTT/AATTTT TTATTTTTTATTTTTTATTTTTT	GCCTAAAGGGGCTTTT GTTC	GCTGAGGAAAAACCTG TTGC	60.1	617	DRR	Ca_19452	--	--
Ca1_P1_33658726	Ca1	33658726	ATTT/ATT	ATGTGAATCCCACGAG GAAA	TTGCACAGCCAAGTTC GTAG	60.2	778	INTERGENIC	--	--	--
Ca1_P1_33665321	Ca1	33665321	ATTTTTTT/ATTTTTT	AGTGCAAACTGCAAAAT CACG	CTGTACGGGTTGGATC GAGT	59.9	420	INTERGENIC	--	--	--
Ca1_P1_33728733	Ca1	33728733	TA/TAA	ATTGGGAGAAATTGGT GACG	TGTTATCCAACCGAG TTCA	59.8	815	INTERGENIC	--	--	--
Ca1_P1_33736245	Ca1	33736245	AATATATATATA/AATATATATATATA	TTGAATTCGGTTATGA AACCA	TTTTTGTGTCTCACT CGATCA	59.3	587	INTERGENIC	--	--	--
Ca1_P1_33736521	Ca1	33736521	TC/T	TTGAATTCGGTTATGA AACCA	TGGACGTAGGTTGTTG TGGA	59.3	908	INTERGENIC	--	--	--
Ca1_P1_33746473	Ca1	33746473	GTATATATATATATAT/GTATATATA TAT	CCAATCGATTTCCTCC AAAA	TTTCATCAAAAACCCC CTTG	59.9	779	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_33765021	Ca1	33765021	AAATAAAATTAATAAATAAAAT/AA ATAAAAT	GCGACCGAATATGGAA CAGT	TAGGCTAGGTCGTCC GTTTG	60.0	301	INTERGENIC	--	--	--
Ca1_P1_33777775	Ca1	33777775	ATTT/ATT	CATGCTCAATACACGG ATGG	AACGTTCTTGAGTGGC TTGG	59.9	870	INTERGENIC	--	--	--
Ca1_P1_33795058	Ca1	33795058	ATTTTTTTTT/ATTTTTTTT	TTGGGGTTTGCGAGTT TTAG	CTTGTCGGGTACCTC GTGT	60.0	502	INTERGENIC	--	--	--
Ca1_P1_33863283	Ca1	33863283	GAAAAAAAAAAAA/GAAAAAAAAAAAA A	GCATGATGAGGTCAAA CGAA	GCTATTTTTCCCAACA CCCA	59.7	426	INTERGENIC	--	--	--
Ca1_P1_33923831	Ca1	33923831	GTTT/GTTT	AAGGATGGATTGAATG CTCG	GATCTTCATGCATCGC TCAA	60.0	546	INTERGENIC	--	--	--
Ca1_P1_33926178	Ca1	33926178	AATATATATATATATATATATATATA T/AATATATATATATATATATATAT ATAT	AGGTGGAAGAGAGCTC GACA	TGGACGAGAATGTGAT CCAA	60.1	322	INTERGENIC	--	--	--
Ca1_P1_3396002	Ca1	3396002	AATATATATATATATATATATATATA TATATATATATAT/AATATATATATAT ATATATATATATATATATATATATAT AT	TTTCCGCGTTGTTGTA GTTG	TTTTGGGAGTGATAC GGTTGA	59.8	876	INTERGENIC	--	--	--
Ca1_P1_34006382	Ca1	34006382	AGGG/AGG	CAATTAACGATCAAGC GTCG	TTGACCCCTTCTCGCT CTGT	59.3	497	DRR	Ca_27634	--	--
Ca1_P1_34057382	Ca1	34057382	C/CA	GGGGATTAAGTGCTTG GACA	AAAGAAAGGCACTAAG GCCC	59.9	156	INTERGENIC	--	--	--
Ca1_P1_34128656	Ca1	34128656	GT/GTT	TTTTCGGTGTGTAAAT GTTTGA	AAACCCCTTGAGGATCG GAAT	58.1	586	INTERGENIC	--	--	--
Ca1_P1_34130270	Ca1	34130270	ATT/ATTT	TGATTCAAATCCTCAA GCTTTTT	GACACGGTCTCCAATG GTTT	59.3	667	INTERGENIC	--	--	--
Ca1_P1_34140644	Ca1	34140644	ACT/ACTCT	TGGAAAAAGACGGTTTT GGTC	TGGTTGTTGTTTGATT ACCCA	59.9	381	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_3414496	Ca1	3414496	GATATATATA/GATATATATATA	AGCTAGCATGCAGTCG ACAC	TATGTTTTTGAAGAG GCGG	59.2	654	INTERGENIC	--	--	--
Ca1_P1_34145329	Ca1	34145329	TTATATATATATA/TTATATATATATA TATA	TTTTTCAACCTCGAATT TTACCA	TTTGATGCTAAGGCTT AATGTG	59.9	169	INTERGENIC	--	--	--
Ca1_P1_34147315	Ca1	34147315	C/CTG	TCAAATCGATTGGGAC ATCA	TACTCGCCAAACTCTC ACGA	59.9	900	INTERGENIC	--	--	--
Ca1_P1_34159249	Ca1	34159249	CATGAATATCCTCTGA/CA	CCATGGAAATTCCGTA GCAT	TCGCTTCAAACCTCGTA TCCC	59.8	451	INTERGENIC	--	--	--
Ca1_P1_34160007	Ca1	34160007	C/CAT	TGGAGACACTTGCCCT CAAT	TTTTATGTCAGGCGCA AACC	60.7	501	INTERGENIC	--	--	--
Ca1_P1_34160353	Ca1	34160353	ATT/AT	GGTTTCGCCCTGACAT AAAA	ACTCTGGACACTTGGG TTGC	59.9	773	DRR	Ca_25473	O	--
Ca1_P1_34167121	Ca1	34167121	GT/GTT	CCCCCTGTTTTATCC CAAT	CTGTTCTAGTGACT GGCCT	59.9	481	INTERGENIC	--	--	--
Ca1_P1_34177476	Ca1	34177476	TAAAAA/TAAAAA	AAGAACATGGATGGGG ATGA	TTCATAAACGCAACGT GCTC	60.1	412	INTERGENIC	--	--	--
Ca1_P1_34178856	Ca1	34178856	AC/A	AGAACGTTTTGCCTTG CACT	ATGTCACAAGTTGGGA AGGG	59.9	719	INTERGENIC	--	--	--
Ca1_P1_34194633	Ca1	34194633	TAAA/TAAA	CCGCGGTATGCTTAGT TTGT	TCAAAACCCCATTTTT GTGT	60.2	578	INTERGENIC	--	--	--
Ca1_P1_34194737	Ca1	34194737	GTATAT/GTAT	CCGCGGTATGCTTAGT TTGT	TCAAAACCCCATTTTT GTGT	60.2	578	INTERGENIC	--	--	--
Ca1_P1_34225442	Ca1	34225442	ATTATTTATTTATTTATTT/ATTAT TTATTTATTT	ATCGGGTTCCTTGCT TTTT	CGCAACTTATACTAA AAATTGGTCA	59.9	475	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_34227071	Ca1	34227071	CAAAAAAAAA/CAAAAAAAAA	TTTTTCGATTGGTCCT TTATTTT	TCCGTCTCAGTGGTGC TCTA	59.3	759	INTERGENIC	--	--	--
Ca1_P1_34279803	Ca1	34279803	TAATAAGCA/T	AGGTTGGTCTGGCTCA AAAA	AAGTTGGGTCGTCGTC AGAG	59.7	418	INTERGENIC	--	--	--
Ca1_P1_34281146	Ca1	34281146	AAATAA/AAATAAAATAATAA	TCGTACCCCTCATCCC TCAC	AGAGTAGCAGCCCTAT GCCA	59.9	566	INTERGENIC	--	--	--
Ca1_P1_34286273	Ca1	34286273	ATATTTTTATTTTTATTTTT/ATATT TTTTATTTTTT	TATGCATGCGGACAAG AGTC	TTGGAAAAGCCACCT ACAC	59.8	448	INTERGENIC	--	--	--
Ca1_P1_34301461	Ca1	34301461	GTATATATATATAT/GTATATATATATA TATAT	TCGGTTGGAGAAGATG AAAGA	CAATATTGTGTTGGG CCGT	59.8	368	INTERGENIC	--	--	--
Ca1_P1_34302342	Ca1	34302342	GACACTCAGCTCACAC/GACACTCA CACTCAGCTCACACTCACAC	CTTTTCCATTTTGTCCT CAA	ATGTGGGAGTTTGTC TTCA	59.8	354	INTERGENIC	--	--	--
Ca1_P1_34310442	Ca1	34310442	TCACAC/TCAC	TTTTGCTTCCCACACC TCTC	ACACTTTTGCTTCCCA CACC	60.2	985	INTERGENIC	--	--	--
Ca1_P1_34331823	Ca1	34331823	CTCA/CTCAAGTCA	TGATGAATTTGATGTT GTTGGA	AAAACCCCTGCTTCCA ATTT	58.9	407	INTERGENIC	--	--	--
Ca1_P1_34332252	Ca1	34332252	GA/G	AATTGGAAGCAGGGGT TTTT	GGATTGTACCCCTGGG GTTT	59.8	849	INTERGENIC	--	--	--
Ca1_P1_34345300	Ca1	34345300	CGGG/CGGGG	TGATCAAACCTCCTATA TTTATGCC	TGAAATAATTGGTCGG AGCC	59.7	566	INTERGENIC	--	--	--
Ca1_P1_34345340	Ca1	34345340	ATTT/ATTTT	CTACACGAATCCCGT TCACT	TGAAATAATTGGTCGG AGCC	59.1	456	INTERGENIC	--	--	--
Ca1_P1_34359052	Ca1	34359052	CAAAAAA/CAAAAAA/CAAAAA AACTA	CGCCATTCCAAATGAA AACT	TTGTGGCGCTTTGATA GTTG	59.9	701	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_34363515	Ca1	34363515	GCC/GCCC	GCGTTGTAAAAGACGC ACTG	TGGAATGATGAGCTT TTGG	59.5	463	INTERGENIC	--	--	--
Ca1_P1_34371294	Ca1	34371294	AAAGAAG/AAAGAAGAAG	AAACGGGTGCAAGAAG ATTG	TCTTTACGACCTTTGT GGGC	60.1	233	INTERGENIC	--	--	--
Ca1_P1_34373289	Ca1	34373289	CTTTTTTTTTTTTT/CTTTTTTTTTTT TT	TAGGCGGGAAGATAAT GTCG	TCTGATGACAAAAGGG GGAG	60.1	780	INTERGENIC	--	--	--
Ca1_P1_34383914	Ca1	34383914	CTTTTTTTTTTT/CTTTTTTTTT	GGGGCACATGATAAAA TGCT	GATTTGCGTCACGAAT TTGA	58.8	645	INTERGENIC	--	--	--
Ca1_P1_34384331	Ca1	34384331	T/TTA	TTTCATCAAATTCGTGA CGC	AACCACCAAAATACCT TTCAAGA	59.7	460	INTERGENIC	--	--	--
Ca1_P1_34386272	Ca1	34386272	GTTT/GTTTT	AATCTGGAGGGCGGTA AGTT	ATATCGGTCAAACGCA CACA	60.0	413	INTERGENIC	--	--	--
Ca1_P1_34390427	Ca1	34390427	TTATATATATATATATATATATATAT ATAT/TTATATATATATATATATATAT ATATATATATATAT	GCGACTATCCAGGAAA TCCA	AAAGAGACATGACTTT GTCCATCA	60.0	564	INTERGENIC	--	--	--
Ca1_P1_34390964	Ca1	34390964	TAA/T	TGATCGAGTGAGAGAA CAAAAA	TGATCTTTGTGGTAAC TGCGA	57.6	382	INTERGENIC	--	--	--
Ca1_P1_34398918	Ca1	34398918	AAGCAG/AAGCAGCAG	GATATCGCAGTGAGT TGGA	TGTTTGGTCCACACGC TTTA	59.7	487	INTERGENIC	--	--	--
Ca1_P1_34434177	Ca1	34434177	AC/A	TGGCCAATGCTAATGT GGTA	TGAAGCGCTGTAAAAT GTGC	60.0	386	INTERGENIC	--	--	--
Ca1_P1_34505064	Ca1	34505064	TTCTCTCTCTCTCTCTCTCTCTCTCT TCTCTCTCTCTCTCTCTCTCTCTCTCT CTCTCTCTCTCTCTCTCTCTCTCTCTCT	ACAAGTCCATGTGGCA ATGA	CGGGTGGTGAAATAAA ATGG	60.0	124	INTERGENIC	--	--	--
Ca1_P1_34647055	Ca1	34647055	CAAAAA/CAAAAAA	TGGATGAATGCTTGGA TGAA	TCAACCAACTTCTTGC TCCC	60.0	866	INTERGENIC	--	--	--

[illegible]

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_34886508	Ca1	34886508	AAAATAATAAAT/AAAATAATAAATAAT AAAT	AGTGAACCTGAACCAA CGCA	CACCACCTTCACCTCC AGTT	59.3	573	INTERGENIC	--	--	--
Ca1_P1_34907456	Ca1	34907456	CTTTTTTTTTTTTTTT/CTTTTTTTTTT TTTTTTTT	TAGCGTTGTGTCGGAA AGTG	TATAAGGTTGGCTTGG TGGC	59.9	372	INTRON	Ca_21409	--	--
Ca1_P1_34935340	Ca1	34935340	GAAAAAA/GAAAAAAA	CCGTATGAATCATGTA TGGGA	TGCGTCCGTACAAATC TAGG	58.2	515	INTERGENIC	--	--	--
Ca1_P1_34971020	Ca1	34971020	CAAAAAA/CAAAA	AAATACCCCTTTTCCC ACG	TGAAAACGCTCAATGC CATA	60.0	689	INTERGENIC	--	--	--
Ca1_P1_34978712	Ca1	34978712	GT/GTT	ATGGCATGGTGGATT TGTT	CTAGAAAGTTGCAGCC CAGG	60.1	525	INTRON	Ca_21407	--	--
Ca1_P1_34983014	Ca1	34983014	TGAAGAAG/TGAAG	ACGCAAAAGCTTCCTTT TTGA	TTCAACGCATCCCTTA AACC	60.0	617	INTERGENIC	--	--	--
Ca1_P1_34989112	Ca1	34989112	CAT/CATAT	CAGGATAGTCGACGTG CAAA	TCTTGGCATAGCAAGA AGCA	59.9	406	INTERGENIC	--	--	--
Ca1_P1_34989444	Ca1	34989444	AATA/AATATA	CAGGATAGTCGACGTG CAAA	CCCATGAGTCAAGCTT CTCA	59.9	804	INTERGENIC	--	--	--
Ca1_P1_35054161	Ca1	35054161	ATCACATTCACCTT/A	ATGGACCATTACGTT TAGAA	AACATCCCTAAAGGAT TGCTCA	57.1	721	INTERGENIC	--	--	--
Ca1_P1_35059019	Ca1	35059019	TC/T	TTTCGAACAAATGGTG GGTT	AGGCTTTTCTTTGTG GTCAG	60.2	413	INTERGENIC	--	--	--
Ca1_P1_35059495	Ca1	35059495	TAAAAAAA/TAAAAA	CTGACCACAAAGAAA AGCCT	ATGGGTTTCCAACCCAC AAAA	58.5	480	INTERGENIC	--	--	--
Ca1_P1_35061932	Ca1	35061932	TAAA/TAA	GGCCTTGAGAAGCATT TGTT	TTCTAAGGCCTCTCAC CATGA	59.3	660	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_35076462	Ca1	35076462	ATTTTTTTTTTT/ATTTTTTTTTT	CATGCTATGCGCTGTG TCTC	ATTGATTCCTCATGCA AGGC	60.6	760	INTERGENIC	--	--	--
Ca1_P1_35076840	Ca1	35076840	AA/AATATTTGA	CCAAACTTTGGCCCT TTTA	ATTGATTCCTCATGCA AGGC	59.1	239	INTERGENIC	--	--	--
Ca1_P1_35093952	Ca1	35093952	CGT/CGTATGT	GCAACATACTAACTGT GTCCCC	TTCCCTGTCAATGAGT GCAT	58.5	462	INTERGENIC	--	--	--
Ca1_P1_35096364	Ca1	35096364	AT/A	TTGATGTGGTCGGAGA TTGA	ACAATTTTCAGCAACC CGAG	60.0	588	INTERGENIC	--	--	--
Ca1_P1_35112845	Ca1	35112845	ATTATTTATTTATTT/ATTATTTATTTAT TTATTT	TCCTGCATCAACACAT AACACA	TGAGCTTATACCGTTT TTCTGAG	60.0	495	INTRON	Ca_21404	K	HD-ZIP
Ca1_P1_35117113	Ca1	35117113	TAAAAAA/TAAAAAA	CCAAAAAGAACAGTTT TTAAACCA	CGCCGATGCTATCTAA TGCT	58.7	680	INTERGENIC	--	--	--
Ca1_P1_35117250	Ca1	35117250	ATATATTATATTA/ATATATTATATTATA TTA	GGAAGGAATATCATTT TCACCG	GAATGCGACTTGCACT TGAA	59.7	565	INTERGENIC	--	--	--
Ca1_P1_35130212	Ca1	35130212	GAAAAAAA/GAAAAAAA	AAAAATCCCCCATAGG CATC	GGAAGTGTTCAGAAA CCCA	60.0	722	INTERGENIC	--	--	--
Ca1_P1_35132021	Ca1	35132021	GTTTTT/GTTTTTT	GAGCTTCGATGGCAGT TTTC	CCACCTAGAAAGGCTG CTTG	60.0	642	INTERGENIC	--	--	--
Ca1_P1_35147370	Ca1	35147370	CTTT/CTT	TCTATCGTGGTTCATT GCCA	TCTGAATGTCAATCCT CCGA	60.1	631	INTERGENIC	--	--	--
Ca1_P1_35150306	Ca1	35150306	CTATAAAGG/C	TGCAACATTCTCCAA GGAT	CATGGACACGATCGTC ACTT	60.5	302	INTERGENIC	--	--	--
Ca1_P1_35150770	Ca1	35150770	TC/TCC	GTGACGATCGTGTTCA TGTC	CAAGCCTCTCCAAGAA ATCG	60.0	715	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_35150983	Ca1	35150983	TAGAGAG/TAGAG	AATCTGCGCAATCAA TCAA	CAAGCCTCTCCAAGAA ATCG	59.3	467	INTERGENIC	--	--	--
Ca1_P1_35151847	Ca1	35151847	TTATG/TTATGTATG	TCGCTATGGGATTGTT AGGC	GTTTGTTTTGGCGTTG GAAT	60.1	361	INTERGENIC	--	--	--
Ca1_P1_35153435	Ca1	35153435	GTTTTTTTTTTTTT/GTTTTTTT	TTTGGTTTCCGATTGC TAGG	GTTTGTATGGCTCCCA AGAA	60.1	409	INTERGENIC	--	--	--
Ca1_P1_35165919	Ca1	35165919	GTTTTTT/GTTTTTTTTTTTTT	TCATCGCAGGTGTACC ATGT	CACCTAAGGGAATCG GTCAA	60.0	377	INTERGENIC	--	--	--
Ca1_P1_35169496	Ca1	35169496	T/TC	GAAATCGAGAAGAGGC GTTG	TGTCTCGAAAAAGCGA GATG	60.0	636	INTERGENIC	--	--	--
Ca1_P1_35169802	Ca1	35169802	AC/A	CATCTCGTTTTTCGA GACAT	TGTCACGGTCAACCCA ATAA	59.5	377	INTERGENIC	--	--	--
Ca1_P1_35178139	Ca1	35178139	TAA/TA	ACAAGGTTTGCCTTAG CCCT	TTCCACGTGCATTTT GTTT	60.1	777	INTERGENIC	--	--	--
Ca1_P1_35178440	Ca1	35178440	GA/GATA	AAAATGAAAACACAAA GGAAGCA	GAATGGAAGGGAATAA CTGCC	60.0	816	INTERGENIC	--	--	--
Ca1_P1_35178731	Ca1	35178731	AG/A	CAAAATGCACGTGGA AGAG	GAATGGAAGGGAATAA CTGCC	59.3	378	INTERGENIC	--	--	--
Ca1_P1_35180764	Ca1	35180764	CAAA/CAA	ATGCCCAATGAATTG TGAT	GTGCCTTCAACAATTT GGGT	60.0	755	INTERGENIC	--	--	--
Ca1_P1_35181144	Ca1	35181144	AACACACAC/AACACACACAC	TACATCGAGTACCTTC GCCC	GTGCCTTCAACAATTT GGGT	60.1	188	INTERGENIC	--	--	--
Ca1_P1_35182197	Ca1	35182197	TGAAGTTATACG/TGAAGTTATACGGG AAGTTATACG	GGAAGATGACGAGG AATGA	GATTGGAGACGCCAC CTAGA	60.0	489	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_35182430	Ca1	35182430	TTT/TTTGTTTTGT	GGAAGATGACGAGG AATGA	TGTACGGGTCATGTG GCTTA	60.0	731	INTERGENIC	--	--	--
Ca1_P1_35186204	Ca1	35186204	ATTTTTTTTT/ATTTTTTT	CCAAGAAACCTAGCA CCAA	AGCCTCGAAAATGAAC TCCA	60.1	287	INTERGENIC	--	--	--
Ca1_P1_35234438	Ca1	35234438	T/TG	GAGGCATATGCAATTC ACGA	CAACCATTGTGCTCC CTTT	59.7	481	INTERGENIC	--	--	--
Ca1_P1_35235861	Ca1	35235861	CATTATTATTATT/CATTATTATTATTA TT	GGGATGCGACCTTGTA CTGT	TCCTCTCTTTTGGCA CATT	60.0	463	INTERGENIC	--	--	--
Ca1_P1_35236185	Ca1	35236185	ATTTTT/ATTTT	ATGTGCCAAAAGAGGA GGAA	GGGATGCGACCTTGTA CTGT	59.7	704	INTERGENIC	--	--	--
Ca1_P1_35236411	Ca1	35236411	ATTATT/ATTATTGTTATT	ATGTGCCAAAAGAGGA GGAA	GGGATGCGACCTTGTA CTGT	59.7	704	INTERGENIC	--	--	--
Ca1_P1_35236504	Ca1	35236504	ATTTTTTT/ATTTTTTTT	CAACTTCCTCTCTTTT GGC	GGGATGCGACCTTGTA CTGT	58.9	522	INTERGENIC	--	--	--
Ca1_P1_35238941	Ca1	35238941	CTTTTT/CTTTTTT	AAAATGCATTGCCTCT GGTC	TTTATTTACCCAAACG AAAACAA	60.1	824	INTERGENIC	--	--	--
Ca1_P1_35240205	Ca1	35240205	ATAT/ATATTAT	GTAGCATTTTTGCCT CCCT	GTCGAGAAGAAGGCTT GCAT	60.5	782	DRR	Ca_26097	QI	bHLH
Ca1_P1_35244173	Ca1	35244173	TAAAA/TAAA	ATTTGGATCGGTGTGG TTTT	TCGGAATGTTGCTGA GATG	59.2	553	INTERGENIC	--	--	--
Ca1_P1_35245008	Ca1	35245008	CAT/C	TGCATTTGTTTTGGCA TGTT	TAAAGACCAAGTCGG GAAA	60.0	667	INTERGENIC	--	--	--
Ca1_P1_35257433	Ca1	35257433	CTTTTT/CTTTTTT	CCCAATCCAAAACAT GACC	GCGTACTCCCTGTTGA ATTG	60.0	467	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_35261821	Ca1	35261821	ATT/AT	TGGATTGTCATGGTCT GGAA	AATGGTCTTGAATTT GCCG	59.9	640	INTERGENIC	--	--	--
Ca1_P1_35266220	Ca1	35266220	ATAT/ATATTAT	CGCGGTAGAGTTATTG GAAAA	TGGGGATACGTAGGA GCAAG	59.3	682	INTERGENIC	--	--	--
Ca1_P1_35281490	Ca1	35281490	ATTTTTTT/ATTTTTT	CTAAGGCACCCCTCTC CACA	TTTTTGATGTCTCTCT GTTCAAT	60.2	543	INTRON	Ca_26099	QI	bHLH
Ca1_P1_35281570	Ca1	35281570	TC/T	ATGACACGTCATTCTG TTCG	GGTTCGAGACATCCAT AATTCA	59.6	733	INTRON	Ca_26099	QI	bHLH
Ca1_P1_35281940	Ca1	35281940	TA/TAA	AAACGTGATCTATACA GTTTCAAAA	TTCACATCTGGAACA ACGC	59.4	529	INTRON	Ca_26099	QI	bHLH
Ca1_P1_35283249	Ca1	35283249	TT/TTTAAATGT	ATGCATTGTTTTGGC ATGT	TGAAGTGTCTGCAAA ATTAGTGA	58.9	612	INTERGENIC	--	--	--
Ca1_P1_35283797	Ca1	35283797	TGGGGG/TGGGG	GGGTGTGTTTGATAG AGGG	CTCCCTTCCATCTCC TCTT	59.3	139	INTERGENIC	--	--	--
Ca1_P1_35284017	Ca1	35284017	ATTT/ATT	GAGATGGAAGGGGAG GAAAG	GCACAAAAGAAAATA CAAGTCCA	60.0	273	INTERGENIC	--	--	--
Ca1_P1_35284253	Ca1	35284253	TT/TTGT	GAGATGGAAGGGGAG GAAAG	TCTGATCAAAATATGT GCAGAAA	60.0	657	INTERGENIC	--	--	--
Ca1_P1_35284860	Ca1	35284860	CAAAA/CAA	TGAAGGGAGTGCTATT TGGT	TCACCTTTTGACTTCC TCATGTT	57.3	108	INTERGENIC	--	--	--
Ca1_P1_35294425	Ca1	35294425	TA/TAGA	CCATAGGATTGATTGC GCTT	TTGCGATCAGCCATAT TTTG	60.1	835	INTERGENIC	--	--	--
Ca1_P1_35301437	Ca1	35301437	ATTTTTTTTT/ATTTTTTTTT	GCTTTCATGGTGTGCT CTGA	TTAGCCCCAGTGAAGT TTGG	60.0	560	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_35304454	Ca1	35304454	CAA/CAAA	TTGACTTGAGTGTGCT TCCG	GGTCATGTTTGGAA TGGG	60.0	213	INTERGENIC	--	--	--
Ca1_P1_35310269	Ca1	35310269	AT/ATATTTATGATT	GTTGATGGTCCATGGG GTAG	CATTGCAATTCCTGCA CAAC	60.1	432	INTERGENIC	--	--	--
Ca1_P1_35312742	Ca1	35312742	TC/T	CTCTTGGCTGATCCCA AGTC	AAATCCACCTTTGTG GCTG	59.8	841	INTERGENIC	--	--	--
Ca1_P1_35315582	Ca1	35315582	AT/ATGT	CTATCCATTGTGACG GCCT	TTTTGTGGCCGACTAA AACC	60.0	417	INTERGENIC	--	--	--
Ca1_P1_35317313	Ca1	35317313	CTTTTTTT/CTTTTTTTT	CCTGATCCTCATCGTC CATT	GCCAGGTTCACTCGAT TCAT	59.9	464	DRR	Ca_26100	QI	bHLH
Ca1_P1_35321165	Ca1	35321165	GTTT/GTTTT	CATCATTCGTTTCAAT TTGTTG	ACGAAGGTTTGAGACA TCCA	59.4	586	INTRON	Ca_26101	QI	bHLH
Ca1_P1_35332961	Ca1	35332961	ATTTTTTTTTT/ATTTTTTTTTT	CACTCCGCTCCCACT ACAT	AACTCCCCCTCAATAT GTGC	60.1	595	INTERGENIC	--	--	--
Ca1_P1_35335691	Ca1	35335691	ATTTT/ATTT	TTCTAGGCATGTTCC CCTG	GAGGCTGTGCATTTTG GAAT	60.1	615	INTERGENIC	--	--	--
Ca1_P1_35339506	Ca1	35339506	TC/TCACGC	TGCACCAATCTTTCA AAAAC	AACTTGTGGCTGGGTT TGAC	60.0	701	INTERGENIC	--	--	--
Ca1_P1_35344651	Ca1	35344651	T/TC	TGCAACTGACCCTGAA TCTG	ATTGCTTGCCTTTGC ATCT	59.8	418	INTERGENIC	--	--	--
Ca1_P1_35349237	Ca1	35349237	ATTT/ATT	CCACTTAGGTGCTTTG TGGG	CAAGGCTTCTGAAC TGGG	60.5	219	INTERGENIC	--	--	--
Ca1_P1_35353052	Ca1	35353052	G/GTTGA	TCAGCAGCAAAAGGC TTCA	AGCCCATTCAGATTT GTGG	59.7	352	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_35370041	Ca1	35370041	T/TG	TTGTT CAGCAGCCCTT TCTT	ATGACTATGGCAGCCA CTCC	60.0	269	INTERGENIC	--	--	--
Ca1_P1_35372027	Ca1	35372027	CA/CAA	TGTGAGGATGGTGAGT TGTGA	AAGCGTAAAAGAGGG GGTGT	60.1	309	INTERGENIC	--	--	--
Ca1_P1_35403368	Ca1	35403368	C/CT	CACGTCCACCTCTTTG TTCA	TGCAATTTAACGTTTAT TCACACA	59.7	892	INTERGENIC	--	--	--
Ca1_P1_35404558	Ca1	35404558	TAAAAAA/TAAAAAAA	TGTTTTTCATTCAAAC TGCCA	TGAATCAACAATTCA ATGTGAG	60.5	158	INTERGENIC	--	--	--
Ca1_P1_35405146	Ca1	35405146	ATCCTG/A	TCCTCAAGCTTTTTATT CACTTTTT	CACAAGTGGTAGTTTT GAAGGAAA	59.0	752	INTERGENIC	--	--	--
Ca1_P1_35429375	Ca1	35429375	T/TG	GTGGAGATCACTCGGG TTGT	GCACTCTCTTGAAAG GCAT	60.0	528	INTERGENIC	--	--	--
Ca1_P1_35438100	Ca1	35438100	AC/A	GCTTAAAGGGCGAGTA AGCA	GATCATTGGCAATCGT TCCT	59.6	565	INTERGENIC	--	--	--
Ca1_P1_35442355	Ca1	35442355	GGTGTGTGTGTGTGTGTGTG/GGT GTGTGTGTGTGTGTGTGTGTGTG GTG	AGGCCGAGAAACCCTA GAAG	CATTTTGGATTCAACT CGGG	59.8	309	INTERGENIC	--	--	--
Ca1_P1_35453813	Ca1	35453813	AGTG/AG	GGGGTGAAAAATCAAA ACGA	CTACGCAGTTGTATTC GGCT	59.8	458	INTERGENIC	--	--	--
Ca1_P1_3550137	Ca1	3550137	CA/CATA	TTTTTCACCCACATCG ATCA	CCTCCAAGTGTTTTG CCAT	59.9	607	DRR	Ca_00432	K	ERF
Ca1_P1_35506098	Ca1	35506098	CTTTTTTT/CTTTTTTT	CAGATTGCAACTCCCT CCAT	CACCGAATGGGTCACT CTTT	60.1	228	INTERGENIC	--	--	--
Ca1_P1_35540202	Ca1	35540202	AT/ATT	TTGTTTATGCCCTTT GAGC	ACAAACAAGTTGAGCA CCCC	60.1	146	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_35540299	Ca1	35540299	AA/AATA	GGGGTGCTCAACTGT TTGT	GGCCAAGGTAAGGT GAGAT	60.0	254	INTERGENIC	--	--	--
Ca1_P1_35547757	Ca1	35547757	TAAAAAAAAAAAAA/TAAAAAAAAAA A	GCCTCTCCAATTCCA AACA	TCACCACGAACTTTG TCTCA	60.1	570	INTERGENIC	--	--	--
Ca1_P1_35648390	Ca1	35648390	CATGTCATGTATTCTCAGTATGTCAT GTATTCTCAGTATGTCATGTA/CATGT CATGTATTCTCAGTATGTCATGTA	CATTGGCACCGGTAA GACT	ATTTTGGCCCAACCAT AACA	60.0	753	INTERGENIC	--	--	--
Ca1_P1_35679606	Ca1	35679606	CAAAAAAAAAA/CAAAAAAAAAA	GTGCACAACCTTGTGG TGTC	TAGCCAACATGCCATA CGTC	60.1	604	INTERGENIC	--	--	--
Ca1_P1_35695109	Ca1	35695109	A/AAATCTT	CTTGTTGTTTTGATTG GCCC	GATCGTTGCTTTTGG AAAC	60.3	528	INTERGENIC	--	--	--
Ca1_P1_35698580	Ca1	35698580	TC/TCGGTGCTAC	CAAACTCGTTTTCTCTC GCC	AACTTTGGGCCTTATC CACC	60.0	459	INTERGENIC	--	--	--
Ca1_P1_35712938	Ca1	35712938	A/AT	GGGTGTGACAGTCGA GACAA	ATTATCGCCATCATC ATCA	59.7	281	DRR	Ca_24110	K	--
Ca1_P1_35738288	Ca1	35738288	AGTTTAGCTTATCTAT/AGTTTAGCTT ATCTATGTTTAGCTTATCTAT	GAGATTGCTCTGAT GCCA	ACCCATATTGGGTGAA CCAG	60.0	292	INTERGENIC	--	--	--
Ca1_P1_35899211	Ca1	35899211	TTTTAGACAC/TTTTAGACACATTAG ACAC	CACCTCCCCTGAGTTC GTTA	GCAAGCTCAAATGGA TTACA	60.1	404	INTERGENIC	--	--	--
Ca1_P1_35908875	Ca1	35908875	TAAAAAAAAAAAAA/TAAAAAAAAAA	TTTAATGGGCGCTAAG GGAG	AATTTAGATGGGGAT TGCG	60.3	745	INTERGENIC	--	--	--
Ca1_P1_35910761	Ca1	35910761	ATTTTTTTTTTTTT/ATTTTTTTTTTTT	TCTGTCTTGTCCTCACT CGAA	CAAGCAACTGTGCGAA AAAC	59.4	358	INTERGENIC	--	--	--
Ca1_P1_35913252	Ca1	35913252	TA/TAAA	CATCATGTTTGGGCT TGTG	TTTATTGAGGATGGCG AAGG	60.0	798	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_35918154	Ca1	35918154	TGGGGG/TGGGG	GGTCCCCCTATTTAG CTGG	AGTGAAGGGAATCG GTGTG	59.8	576	INTERGENIC	--	--	--
Ca1_P1_35973449	Ca1	35973449	TTATATATATATATATATATATATAT ATATATATAT/TTATATATATATATAT ATATATATATATATAT	GCCACCCAACAAATA CATC	TTGGCACCAGAGAAAA ACAA	60.1	733	INTERGENIC	--	--	--
Ca1_P1_35977319	Ca1	35977319	TA/TAA	AACCTGTTGGAACCTC CCTCT	GCAAGCAGCCTTGTG ACTA	59.2	540	INTERGENIC	--	--	--
Ca1_P1_36035161	Ca1	36035161	AAGAGGGAGAGGGAGAGGGAGAGG/ AAGAGGGAGAGGGAGAGGGAGAGG GAGAGG	TTCTGTATCCGTGAAT TTGA	AACGAAACAATGCCGA ACAT	60.0	518	INTERGENIC	--	--	--
Ca1_P1_36044248	Ca1	36044248	CGG/CG	CGATTTCCTGCATGT TTTT	GCCTGTGATAGGCGG TACAT	59.9	540	INTERGENIC	--	--	--
Ca1_P1_36063199	Ca1	36063199	TCC/TTTTTCCC	CGTTCGTGGTCCCTTA ACTT	TTGCGTTACGGATTG ATGA	59.1	227	INTERGENIC	--	--	--
Ca1_P1_36124030	Ca1	36124030	GTTTTT/GTTTT	TTTTCAGCTTTAAGTTC CGCA	TTTAGGAAGACTGGCT CGGA	60.0	683	INTERGENIC	--	--	--
Ca1_P1_36158144	Ca1	36158144	AATATATATATATATAT/AAATATATA TATATATATATATATATATATAT	CCGGCACATAGTAAAA TTTGG	GAACGTTTCGTATGAT TTTGAA	59.4	321	INTERGENIC	--	--	--
Ca1_P1_36166710	Ca1	36166710	CATTATTATTATTATTATTATTATT A/CATTATTATTATTATTATTATTATTA	TCGTTGGCCTATGGTA CTCC	CCAACGATTCATACAG GGCT	60.0	574	INTERGENIC	--	--	--
Ca1_P1_36203203	Ca1	36203203	TGG/TG	TGGTACCATCCCCACA AACT	AGAATGAAAGGCGATG GATG	60.1	373	INTERGENIC	--	--	--
Ca1_P1_36243785	Ca1	36243785	TT/TCTTCTTTCCCTAGACT	ATTTGCCACATCGAAG AACC	GCAGAAATCAAGAATG GGGA	59.9	477	INTERGENIC	--	--	--
Ca1_P1_36249439	Ca1	36249439	TTTATTATTATTATTATTATTATTATA TTATTATTATTATTATT/TTTATTATTAT TATTATTATTATTATTATTATTATTATT ATTATTATT	TCCCCCTTTGTCTTCTT GTG	TCCATCTAATTGCTAC CGGC	60.1	930	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_36283336	Ca1	36283336	ATT/AT	GAGCATAGTGAGTGGC CTTG	TGATGGCTGAAATGGA ATGA	59.8	531	INTERGENIC	--	--	--
Ca1_P1_36283621	Ca1	36283621	GAAAAAAAA/GAAAAAA	GAGCATAGTGAGTGGC CTTG	TGATGGCTGAAATGGA ATGA	59.8	531	INTERGENIC	--	--	--
Ca1_P1_36355714	Ca1	36355714	A/ATTTTGGAG	GTGGCACCTCGGTAA CAGT	TTAGCGAAGTCCCTGC AACT	60.0	520	INTERGENIC	--	--	--
Ca1_P1_36416188	Ca1	36416188	ATTTTATTTTATTTTATTTT ATTTT/ATTTTATTTTATTTT TTTT	GCATGCGAACAGAGT CAAA	CTCATTGGAAAAGCCC ACAT	60.0	477	INTERGENIC	--	--	--
Ca1_P1_36427911	Ca1	36427911	ATTTT/ATTTT	CATTGTTAATCTGCCG GCTT	AAACTCCTTAATGCCA TGCG	60.1	843	INTERGENIC	--	--	--
Ca1_P1_36431556	Ca1	36431556	T/TTATAA	CCATTCCACTCCAACC TAGC	GTGTCTACACGGAAG GGGA	59.6	849	DRR	Ca_21688	--	--
Ca1_P1_36624175	Ca1	36624175	TT/TTATTATTGT	TCAAAATGGGCTGCT TACC	CCACCCCTAATTGCGA GATA	60.1	525	INTERGENIC	--	--	--
Ca1_P1_36726460	Ca1	36726460	GAAA/GAAAA	ACAGGAACGACCGAGA GAAA	ATAGTTTTTGGGCGGG CTAC	59.8	502	INTERGENIC	--	--	--
Ca1_P1_36727739	Ca1	36727739	TCC/TC	AGGCTGCATTTTAGTC CACG	ACGACCACTGCAAACA CAAA	60.3	218	INTERGENIC	--	--	--
Ca1_P1_36728375	Ca1	36728375	GTTTT/GTTTTT	TGGGAGGAGTTGAGAA GGAA	TGGATCCAAATAAAAG GGGA	59.8	111	INTERGENIC	--	--	--
Ca1_P1_36869128	Ca1	36869128	CA/CAAA	TCCACAACAACCTACG TCCA	CCCGAAATCGATTAG GCAA	60.0	555	INTERGENIC	--	--	--
Ca1_P1_36876798	Ca1	36876798	AGGG/AGGGG	GTTTCCAGCCATCCAA CACT	AATTGGTTTCATGACC TGCAC	60.0	503	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_36897436	Ca1	36897436	TTATATATATATATATATATATA/TTA TATATATATATATATATATATA	CACTAGCATCGTAGCG TGGA	TGTGGAAATTTGTGGG TGAA	60.0	415	INTERGENIC	--	--	--
Ca1_P1_36993209	Ca1	36993209	GATCAT/GAT	TGGCCTTGTA AAACT GCAAG	TTGCGATGTTCTTGAT TTGC	60.3	645	INTRON	Ca_21824	J	Trihelix
Ca1_P1_37031419	Ca1	37031419	TNNNNNNNNN/TNNNNNNNNN	GGGTGAATGGATTGT CCAC	TTGAAATGTCATGGAT GGGA	60.0	537	INTERGENIC	--	--	--
Ca1_P1_37034378	Ca1	37034378	AC/A	ATTTTGTCAATCCCTC CCC	GCAGCAGTAGGTCTC GGAAG	60.0	521	INTERGENIC	--	--	--
Ca1_P1_37075088	Ca1	37075088	TTAAAT	GCCCTCAGATGAGAGT CAGG	ATTCTGCAGCACGGAT CTCT	59.9	830	INTERGENIC	--	--	--
Ca1_P1_37078511	Ca1	37078511	TTAT/TTATAT	CCATTCCAAAAGGAG TTGG	TGAAAATGTTGGAGTG ATGTGA	59.4	938	INTERGENIC	--	--	--
Ca1_P1_37078904	Ca1	37078904	TTAAATAAATAATA/TTAAATAAATA ATAAATAATA	TGTGACACCCTAAACC CTAAGAA	TTGATTGCTTGCGTGT TCTC	59.9	499	INTERGENIC	--	--	--
Ca1_P1_37092021	Ca1	37092021	CTTTTTTTTT/CTTTTTTT	TATCAGAGTTCTCCCC ACCG	TTGAGGTGTGGTTTGT GGTG	60.1	759	INTERGENIC	--	--	--
Ca1_P1_37122051	Ca1	37122051	CAAAAAAAAA/CAAAAAAAAA	CGTATCTCGTATCACC GACG	AGTTGCGCTCCTCCTA ATCA	59.2	873	INTERGENIC	--	--	--
Ca1_P1_37122104	Ca1	37122104	CAAAAAAAAA/CAAAAAAAAAAAAA	CGTATCTCGTATCACC GACG	AGTTGCGCTCCTCCTA ATCA	59.2	873	INTERGENIC	--	--	--
Ca1_P1_37122520	Ca1	37122520	AGG/AG	TGCAATCATTGGTGCT TAGG	AAAAAGCGCCGTAAAA TGAG	59.7	710	INTERGENIC	--	--	--
Ca1_P1_37122699	Ca1	37122699	GTTT/GTT	GGAGGAGCGCAACTTA ATCA	AAAAAGCGCCGTAAAA TGAG	60.4	372	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_37122810	Ca1	37122810	TACAAC/TACAACAAC	GGAGGAGCGCACTTA ATCA	AAAAAGCGCCGTAAAA TGAG	60.4	372	INTERGENIC	--	--	--
Ca1_P1_37125192	Ca1	37125192	GATGGAGATGTTTGCAATGGAGAT G/GATGGAGATG	AGCGGTTTAGGGTTTA GGGA	CCAAATGTGCATACGA ACCA	60.0	113	INTERGENIC	--	--	--
Ca1_P1_37128515	Ca1	37128515	ATTTTTTT/ATTTT	CAATCCACAGGTAC GCTT	TTGGTCTCATCAATGA TTGTAAAAA	60.0	568	INTERGENIC	--	--	--
Ca1_P1_37129039	Ca1	37129039	CTTTTTTT/CTTTTTT	CAATCATTGATGAGAC CAAAAA	AATGGCACATAGTTAA TTGAGCA	57.6	780	INTERGENIC	--	--	--
Ca1_P1_3717542	Ca1	3717542	ATT/AT	AGTGATGGTGTGGGT GGAT	CAATAATGCTCCTCT ATGCACCTT	60.1	597	INTERGENIC	--	--	--
Ca1_P1_37197766	Ca1	37197766	GTTT/GTT	TGAGAGGAAAGAAGAC AACCATC	TTTTCTTTTTAAAGCG GCGA	59.7	605	DRR	Ca_21831	L	C3H
Ca1_P1_37243078	Ca1	37243078	AAATTAT/AAATTATAGAATTAT	TCATCCACATCAGCCA AAAA	TTTGTGCATTTTAATAA TTGGAAG	60.0	490	INTERGENIC	--	--	--
Ca1_P1_37389641	Ca1	37389641	AT/ATTATT	GAGAGAGAGCCTGTTG GTCG	AGGCCAAAAATCACCA TTTC	60.1	757	INTERGENIC	--	--	--
Ca1_P1_37391477	Ca1	37391477	TTATATATATATATATATATAT/TTAT ATATATATATATATAT	CTGTCAATTGAGATGC GACG	GCGATTACGGTACCAC GAGT	60.4	600	INTERGENIC	--	--	--
Ca1_P1_37391521	Ca1	37391521	AATATATATATATATATATATATATA TATATATATATATATATATAT/AAATATAT ATATATATATATATATATATATATATATAT ATATATATATATATAT	CTGTCAATTGAGATGC GACG	GCGATTACGGTACCAC GAGT	60.4	600	INTERGENIC	--	--	--
Ca1_P1_37410363	Ca1	37410363	GAAAAAA/GAAAAAA	TGAATGAGGAGCACGT CTTG	CTGTTGTTGCCAACGG TTTT	60.0	445	INTERGENIC	--	--	--
Ca1_P1_37412282	Ca1	37412282	CCATG/CCATGCATG	CGTGGATGATGCTTTT CTCA	TGCTTCTCATCTGCTT GGTG	59.8	580	DRR	Ca_21842	R	GRAS

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_37420494	Ca1	37420494	ATTTTTTTTT/ATTTTTTT	GGGAAAAGGAAACCCA AAAA	TAGTGAGTCCCCGTC AAGT	60.1	630	INTERGENIC	--	--	--
Ca1_P1_37420598	Ca1	37420598	ATTTT/ATTT	GGGAAAAGGAAACCCA AAAA	TGAGTGAGGGAGACA AAGGG	60.1	950	INTERGENIC	--	--	--
Ca1_P1_37420725	Ca1	37420725	TCC/TCCC	ACTTCACGGGGACTCC ACTA	TGAGTGAGGGAGACA AAGGG	59.6	403	INTERGENIC	--	--	--
Ca1_P1_37421082	Ca1	37421082	CCTCACTCACTCACTCACTCAC/CCTC ACTCACTCACTCAC	ACTTGACGGGGACTCC ACTA	ACATGTCCTTGTGCT CGTG	59.6	637	INTERGENIC	--	--	--
Ca1_P1_37424329	Ca1	37424329	CATATATATATATATATATATAT/CATA TATATATATATATAT	AAAAAGTATTGAACAAA CACGCT	TGAAATCCAAATTAAT TGCTGAA	57.2	549	INTERGENIC	--	--	--
Ca1_P1_37424741	Ca1	37424741	ATTTTT/ATTTTTT	GCAATTTAATTGGATT TCATGG	TGCAATCTAGAAATT TTGATGACA	59.6	179	INTERGENIC	--	--	--
Ca1_P1_37424983	Ca1	37424983	AC/A	GCAATTTAATTGGATT TCATGG	TCACATCCATCCACGG TACA	59.6	761	INTERGENIC	--	--	--
Ca1_P1_37425153	Ca1	37425153	G/GAT	GCAATTTAATTGGATT TCATGG	TCACATCCATCCACGG TACA	59.6	761	INTERGENIC	--	--	--
Ca1_P1_37425620	Ca1	37425620	ACG/A	TGTACCGTGGATGGAT GTGA	TATGCATCCTCACGGT TTTG	60.8	675	INTERGENIC	--	--	--
Ca1_P1_37426537	Ca1	37426537	ATT/AT	CTTCAAAACCGTGAGG ATGC	TCTGAGCTTCTGATGC TTGC	60.6	916	INTERGENIC	--	--	--
Ca1_P1_37433380	Ca1	37433380	CAA/CAACGTAAA	AATAAATTAGTGCAGC AAACCAA	GGCAAAGAGAGGAAA GTGGA	58.0	756	INTERGENIC	--	--	--
Ca1_P1_37433540	Ca1	37433540	TATAATAGATAATAGATAATA/TATAAT AGATAATA	TGAAAAACATCTCTCTA ATAGGCG	ACCACTGCACCAAGG GTAAG	59.0	532	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_37489932	Ca1	37489932	CAAAAA/CAAAA	ATTGTCCAGTTTCCTC ACCG	CGATTGGTAAATCGAT TGGG	60.0	594	INTERGENIC	--	--	--
Ca1_P1_37489959	Ca1	37489959	AT/ATT	ATTGTCCAGTTTCCTC ACCG	CGATTGGTAAATCGAT TGGG	60.0	594	INTERGENIC	--	--	--
Ca1_P1_37490066	Ca1	37490066	AT/AATGTATT	ATTGTCCAGTTTCCTC ACCG	TGAACCTGAGCGTGT GACC	60.0	775	INTERGENIC	--	--	--
Ca1_P1_37516914	Ca1	37516914	TAAAAA/TAAAAA	AGGGAGGACGAAATG ACCT	ACCAATCTCGTGCATC CAAT	59.9	567	INTERGENIC	--	--	--
Ca1_P1_37558126	Ca1	37558126	TAAAAAAAAA/TAAAAAAAAA	GCAACACGTGAAAG GGAT	GCTTTCATTGGTTGT GCCT	60.0	139	INTERGENIC	--	--	--
Ca1_P1_37685004	Ca1	37685004	AC/A	GCTAAATAGCACCCGC AGTC	TGCATTCAAACAAATC CAACA	59.9	718	INTERGENIC	--	--	--
Ca1_P1_37686545	Ca1	37686545	TCCCC/TCCCCC	GAACTCCCTTCATGAC CCAA	TTTGTGGTGGTGGAG AACA	59.9	527	INTERGENIC	--	--	--
Ca1_P1_37692598	Ca1	37692598	TT/TTCT	ACCATGGCACAAGGTA GAGG	GTGACGCAGAGAATGT TCCA	60.0	708	DRR	Ca_23533	--	G2-like
Ca1_P1_37694938	Ca1	37694938	TAAAAA/TAAAAA	GCTTGCCTTCAGCTT GTTA	TTTCTTGCCAACTTGC AGTG	60.5	235	INTERGENIC	--	--	--
Ca1_P1_37696033	Ca1	37696033	T/TC	GGAATCGAGCAAGTT GAGG	TTTTGGTATCTTCTC GGGG	60.0	640	INTERGENIC	--	--	--
Ca1_P1_37697426	Ca1	37697426	GTTTTT/GTTTTTTT	TATTGGGTAAGTCCAC GGCT	TGGGGTGTAAGTGGAA ACTTG	59.5	644	INTERGENIC	--	--	--
Ca1_P1_37697662	Ca1	37697662	A/AT	CAAAGGAAAGCCCTTG AGGT	GCATGCCCTCCAAAG TAT	60.6	871	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_37701521	Ca1	37701521	TAAAAA/TAAAAA	TCCGAAAACTCGAA TAGG	TCACGTGATGCGACCA TAAT	60.2	807	INTERGENIC	--	--	--
Ca1_P1_37710483	Ca1	37710483	AAAT/A	GCGCTCTTTTGCTGT TGAT	GGATACAGTGGTCGC CAAAT	60.5	740	INTERGENIC	--	--	--
Ca1_P1_37712787	Ca1	37712787	AACATGTG	GGTGTGGAGGTGTAA TGGG	CATGTCCCGTATTCGC TTTT	60.1	639	INTERGENIC	--	--	--
Ca1_P1_37714757	Ca1	37714757	ATTT/ATTTT	TCGCTCACATATAAGG TTGCAT	TCGCCCATATTTCTC TTTG	59.6	640	INTERGENIC	--	--	--
Ca1_P1_37718461	Ca1	37718461	CT/CTCCACTT	TTTTTGAAAGTCCCG TTCA	TCCATATATTTGAGGG GGCA	60.5	454	INTERGENIC	--	--	--
Ca1_P1_37718748	Ca1	37718748	CCTACTA/CCTACTACTA	AAATTTTGGCCCCCTC AAAT	CCACGCATGAAATGAT TCAA	59.7	510	INTERGENIC	--	--	--
Ca1_P1_37722513	Ca1	37722513	A/ATTGGT	ATTCGATTCTCGCCTA AGCA	GAGTTCAGCACAAATG GAAGAA	59.9	595	INTRON	Ca_23534	--	--
Ca1_P1_37724930	Ca1	37724930	CCACACACAC/CCACACAC	ACCCTGTTGCTGCCAA ATAC	GCTCCAATTCCTCAG ATCA	60.0	664	INTRON	Ca_23534	--	--
Ca1_P1_37724987	Ca1	37724987	A/ATT	ACCCTGTTGCTGCCAA ATAC	GCTCCAATTCCTCAG ATCA	60.0	664	INTRON	Ca_23534	--	--
Ca1_P1_37729113	Ca1	37729113	CA/CAA	TCAATCCATCTTAGCG GAGG	CCTTTGTGAGAGCTTT TGGC	60.2	464	INTERGENIC	--	--	--
Ca1_P1_37733160	Ca1	37733160	TTTGTT/TTT	CTCACCTGCAACAAAT CGAA	ACTAGCGCTTTTTCAA CGGA	59.8	661	INTERGENIC	--	--	--
Ca1_P1_37737691	Ca1	37737691	AAAAATAAATAAATAAATAA/AAA ATAAATAAATAAATAA	AGGGACCACTATGACC GTTT	TCCTGCAATCACCTTT TTTC	58.4	481	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_37740010	Ca1	37740010	TAAAAAA/TAAAAAA	GGTGAGTTGGTTGC TCAT	AGAACGTGTGGAGT GCATA	60.0	545	INTERGENIC	--	--	--
Ca1_P1_37741814	Ca1	37741814	AATATATATATAT/AATATATAT	CGAATTGGGAGAATCC TTGA	CTGGATCTTGTGGCTT TGGT	60.0	566	INTERGENIC	--	--	--
Ca1_P1_37744829	Ca1	37744829	AGGG/AGG	CTTCCGAGAAACAAGA ACGG	AGTCTGGGACGAATGA CACC	59.8	657	DRR	Ca_23535	--	--
Ca1_P1_37747193	Ca1	37747193	GTTTTT/GTTTTT	TCCATTAAAAATTATGT TGAAAGTCG	TTCTAATCGCCATCAA ACCC	59.7	443	INTERGENIC	--	--	--
Ca1_P1_37747367	Ca1	37747367	GTTTTTTTT/GTTTTTTTTTT	ATGGGTTTGATGGCGA TTAG	TGCCACGTCTTAGTTT AATTAGCA	59.8	497	INTERGENIC	--	--	--
Ca1_P1_37747508	Ca1	37747508	A/AC	AATTGAATGGGTTTGA TGGC	GCTCATTGCTTCACAC CGTA	59.6	780	INTERGENIC	--	--	--
Ca1_P1_37748225	Ca1	37748225	C/CATAT	TACGGTGTGAAGCAAT GAGC	TTACGCCTGATGATTA GCCA	59.9	380	INTERGENIC	--	--	--
Ca1_P1_37758416	Ca1	37758416	AATATATATAT/AATATATAT	AATGCAAATTTTCCCA CCA	AGCGAATGATTTCAAC CACC	60.2	791	INTERGENIC	--	--	--
Ca1_P1_37758491	Ca1	37758491	TA/TAA	TGACGAGGTTCTGAT GATG	AGCGAATGATTTCAAC CACC	60.7	489	INTERGENIC	--	--	--
Ca1_P1_37759669	Ca1	37759669	A/AG	TCCATCTTGATCCTTTG CCT	TGAGCAAATGATGTTG GAGC	59.6	787	INTERGENIC	--	--	--
Ca1_P1_37769132	Ca1	37769132	AA/AATAGGAAAAATA	TGATGCAGCCTAAAT GCAG	TTAGTTTCGTTGGAGT CGGG	60.0	569	INTERGENIC	--	--	--
Ca1_P1_37771437	Ca1	37771437	CTTTTT/CTTTT	CTGTGCCCCGACAAAG TATT	TCGTATATGCAGCAAG TGGC	60.0	627	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_37784588	Ca1	37784588	AATTATTATTATTATTATTATTATT ATTATT/AATTATTATTATTATTATT ATTATTATT	TTGATTTCTCCATCGC ACTG	CCATAGGAGTCGCCAA CTGT	59.8	336	INTERGENIC	--	--	--
Ca1_P1_37794018	Ca1	37794018	GAAA/GAA	TGCACACATTTTAGGC GAAG	CCTGCTGAATGCAAA CAAA	59.9	651	DRR	Ca_23537	--	NAC
Ca1_P1_37794896	Ca1	37794896	CAAAAA/CAAAAAA	TTTGATTTCATTACAG AGG	GAAGCAATGGATATG GGGA	59.8	513	DRR	Ca_23537	--	NAC
Ca1_P1_37796757	Ca1	37796757	ATAATTAAT/ATAAT	CGTGAGGAAAAATGGG GAGTA	AAATTGGTGGGGTCAT AGCA	59.9	543	INTRON	Ca_23537	--	NAC
Ca1_P1_37798793	Ca1	37798793	TATTA/TATTATTAATATCTGATTA	TGTGGAACCTTGATTT GGTGA	TATCGCCTCATGGAAT CACA	59.0	583	INTRON	Ca_23537	--	NAC
Ca1_P1_37799193	Ca1	37799193	TAAAA/TAAAAA	TGTGATTCCATGAGGC GATA	TTGATTGCAACAGTGG CCTA	60.0	785	INTRON	Ca_23537	--	NAC
Ca1_P1_37799228	Ca1	37799228	CACTAATTTA/CA	TGTGATTCCATGAGGC GATA	TTGATTGCAACAGTGG CCTA	60.0	785	INTRON	Ca_23537	--	NAC
Ca1_P1_37806398	Ca1	37806398	AC/A	GGGGAATTTGATGTGC AAAC	TGCAATTGCCCAAATC TACA	60.2	631	INTERGENIC	--	--	--
Ca1_P1_37809250	Ca1	37809250	ACTTTTCCTTTTCCT/ACTTTTCCT	TGCCTTTGGGGATTTT ATCA	TTTTGCATTAAAAATG GATGAA	60.3	579	INTERGENIC	--	--	--
Ca1_P1_37810398	Ca1	37810398	TA/TAA	AAGCTTGATGGGCCAT AGTG	CGGCAAAAGACTCAAG AACC	60.1	810	INTERGENIC	--	--	--
Ca1_P1_3782006	Ca1	3782006	CAAAA/CAAA	GGTTTCAAAATCGAAA TCCAA	ACCGTGGTAATTGACA TGAAA	58.9	397	INTERGENIC	--	--	--
Ca1_P1_37829328	Ca1	37829328	AC/ACC	GTCGCTCTTGAGATCG TTCC	GGGAACCGCAACAAAT AGAA	60.0	780	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_3783477	Ca1	3783477	AAATAATAA/AAATAA	AATGATGATAATTCTT TGCCA	GCGACTATCCAGGAAA TCCA	57.0	522	INTERGENIC	--	--	--
Ca1_P1_3783626	Ca1	3783626	TATTTGCATTTG/TATTTG	TTCACAATTACCACAAA GATCG	GCGACTATCCAGGAAA TCCA	57.7	433	INTERGENIC	--	--	--
Ca1_P1_37836904	Ca1	37836904	CAGTTAGTTAGTTAGTTAGTTA/ CAGTTAGTTAGTTAGTTAGTTA GTTAGTTA	ATGGATGTAGCGATTA CGCC	CCAATACTCCACCTGC GATT	60.0	442	INTERGENIC	--	--	--
Ca1_P1_37846054	Ca1	37846054	T/TG	GGAAGAGGAGGAGGT TTTGG	TGCATTTTGCAAACCA ATGT	60.0	648	INTRON	Ca_23538	T	E2F/DP
Ca1_P1_37849378	Ca1	37849378	G/GA	CCTAAGGGCCGTAGTA ACCTG	AGGATCCACCAAGCAA ATCA	60.0	154	INTRON	Ca_23538	T	E2F/DP
Ca1_P1_3784964	Ca1	3784964	TTAAATAAATAAATAAATAAATAA ATAAATAA/TTAAATAAATAAATAA AAATAAATAAATAAATAAATAA	CTCCTTCTATGGGGCA TCAA	ATAAGCCCTTCCAAA GCAT	60.0	272	INTERGENIC	--	--	--
Ca1_P1_37851381	Ca1	37851381	GGTTAATA/GGTTAATAGTTAATA	GGGGGTGACAAATTTA GGTG	ACCTGGCCTCTTCAAC CTTT	59.1	630	INTRON	Ca_23538	T	E2F/DP
Ca1_P1_37851702	Ca1	37851702	AAATAA/AAA	AAAGGTTGAAGAGGCC AGGT	AACATGCTATGGGCAA CCTC	60.1	568	INTRON	Ca_23538	T	E2F/DP
Ca1_P1_37852400	Ca1	37852400	T/TAAGA	TGTGGTATGTGCGGTT CCTA	GCTCCGGTGTATTGG TTCT	60.0	687	INTERGENIC	--	--	--
Ca1_P1_37852569	Ca1	37852569	TAAAAAA/TAAAAA	TGTGGTATGTGCGGTT CCTA	TTTGATGGGTTTATGT TCCA	60.0	814	INTERGENIC	--	--	--
Ca1_P1_37852817	Ca1	37852817	AAGCA/AAGCAGCA	CACGTAGCAAAAATAA TTGGCA	TCATCTGCCGGTTAG TACC	60.0	765	INTERGENIC	--	--	--
Ca1_P1_37867707	Ca1	37867707	TCAACA/TCAACAAACA	ATTGCAGCCTTACACC CAAG	AACCTGAACCATCCAG CACC	60.1	410	INTRON	Ca_23539	KT	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_37869799	Ca1	37869799	AC/ACC	TTCCTGATTCCAGATT GCC	AAAGATGGGGTCAGT GCATC	60.0	371	INTRON	Ca_23539	KT	--
Ca1_P1_37872834	Ca1	37872834	GT/GTT	TTAAGTCTTGGCTCTG CGGT	CAAAGCGTGCACTGG ATAGA	60.0	419	INTRON	Ca_23539	KT	--
Ca1_P1_37881963	Ca1	37881963	T/TC	GAATGGGCATGTCATT TGTG	ACTAGAGGCCCTCACA AGCA	59.8	657	INTRON	Ca_23539	KT	--
Ca1_P1_37891631	Ca1	37891631	TAACAA/TAA	GTATGACCGGCTTGAG TGGT	GCAGTGAGTGATTGC TGGA	60.0	772	DRR	Ca_23539	KT	--
Ca1_P1_37909579	Ca1	37909579	TAAAAAAAA/TAAAAAAAAA	CCGAATGTCGAACCTCA AAGA	AGCGATGAGTGAAACA AGATGA	58.8	590	INTERGENIC	--	--	--
Ca1_P1_37911541	Ca1	37911541	CAA/CAA	TGATTTGCCTGTTC ACAA	TGTGTTAATGCAGGT GCCT	60.1	589	INTERGENIC	--	--	--
Ca1_P1_37913622	Ca1	37913622	AATATATATATATA/AATATATATAT ATA	ACGTTGCCACCTATC TCAT	CCTTATGCGGTAATCC CTGA	59.6	563	INTERGENIC	--	--	--
Ca1_P1_37913733	Ca1	37913733	TAAA/TAA	ACGTTGCCACCTATC TCAT	CCTTATGCGGTAATCC CTGA	59.6	563	INTERGENIC	--	--	--
Ca1_P1_37913861	Ca1	37913861	GTATATATATATAT/GTATATATATATA TAT	GGAGTGAATTTGTGT GCTCC	TGAGGGTAACAGGGA AGGTG	59.6	611	INTERGENIC	--	--	--
Ca1_P1_37917967	Ca1	37917967	ATATGACAGTTA/ATA	TCCACAAGTTATTTCGA CGAAAC	TTCCATTGATCTACGT TAATGTTTG	59.1	558	INTERGENIC	--	--	--
Ca1_P1_37919008	Ca1	37919008	TCCCC/TCCCC	TTTGCGAAAGTCACAT CCAG	ATCTCCTTCAAGAGGT CGCA	59.8	756	INTERGENIC	--	--	--
Ca1_P1_37926020	Ca1	37926020	TCCC/TCC	GATCTATGAGGACAGG GCCA	AAGGTTCAAGACGTCA CATTCA	60.0	374	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_37927331	Ca1	37927331	TAAA/TAAATTGTATCAAA	ATTTTGATCGCGGAAG TTTG	TCAATCAACCAGATT TGCAAT	60.1	553	INTERGENIC	--	--	--
Ca1_P1_37927862	Ca1	37927862	G/GTA	TGCAAAATCTGGTTGA TTGAG	TCCCAGATCAAAATG GGTT	58.8	745	INTERGENIC	--	--	--
Ca1_P1_37928451	Ca1	37928451	TTTTGATG/T	CACCAAATCATACCAC CACG	GAATTGACATTGTTGC ACGG	59.7	394	INTERGENIC	--	--	--
Ca1_P1_37928853	Ca1	37928853	CT/CTGAAT	CCGTGCAACAATGTCA ATTC	GACCACCATATTAACC GTCACA	60.0	571	INTERGENIC	--	--	--
Ca1_P1_37929646	Ca1	37929646	TAAAAAAAA/TAAAAAAAAA	TGTGACGGTTAATATG GTGGTC	TTGACTTGTTCGCG ATTG	59.6	817	INTERGENIC	--	--	--
Ca1_P1_37980254	Ca1	37980254	GTAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATA/ GTAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATA	CCATTTTGCCATGTT CCC	AATTGGGGTGTCATT TTGA	60.0	348	INTERGENIC	--	--	--
Ca1_P1_37980508	Ca1	37980508	AAATAATAATAATAATAATAATAA/ AAATAATAATAATAATAATAATAA	CCATTTTGCCATGTT CCC	AATCGGACGCTAAATC AACG	60.0	903	INTERGENIC	--	--	--
Ca1_P1_37993665	Ca1	37993665	CAAAAA/CAAAAA	GTGAGCCCTTTACCAA TCCA	CAATCCACAGGTAC GCTT	59.9	654	INTERGENIC	--	--	--
Ca1_P1_38024874	Ca1	38024874	TATGAATGAAT/TATGAATGAATGAAT	GCAAGCTCAGTTCCAG TTCC	TGCATCAATTATGGCT CCAA	60.0	655	INTRON	Ca_27443	S	--
Ca1_P1_38030335	Ca1	38030335	TTAAAAATAAAATAAAATAAA/TTAAAA TAAAAATAAAATAAAATAAAATAAA	AGCTCGAAACATGGTA TCCAA	CTAGCCATCCTCAGCG AGAG	59.6	662	INTERGENIC	--	--	--
Ca1_P1_38043395	Ca1	38043395	GATATATATATATATATATATATATA TATATATATATATATATATATATATA TATATATATATATATATATATATATA TATAT	TCTGAATTTGGCAACA TCATT	CTTCGCGATTGAGTC AAAA	58.1	846	INTERGENIC	--	--	--
Ca1_P1_38060326	Ca1	38060326	CGG/CG	GGTTTGCCGTTCTTC TCCA	CTTGTTGCGACGATGA AAAA	60.1	310	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca1_P1_38067157	Ca1	38067157	ATT/AT	TTCGTAAATCATTGCG CCAT	ACAAACAGGGTCCTTT CCAA	60.3	655	INTERGENIC	--	--	--
Ca1_P1_38070666	Ca1	38070666	T/TA	AACCATTGGGGGAGAA TAGAA	TTGTTAGAACCATTGG GGGA	59.7	362	INTERGENIC	--	--	--
Ca1_P1_38070895	Ca1	38070895	ATGTGTGT/ATGTGT	CTCCCCCAATGGTTCT AACA	CACTGGAATCCGTTTC TTTTG	59.8	587	INTERGENIC	--	--	--
Ca1_P1_38071534	Ca1	38071534	TACACACAC/TACACAC	CTCCTCTCATTCAACC CAAC	ACACCCCACTCTCCT TTGC	59.5	189	INTERGENIC	--	--	--
Ca1_P1_38088606	Ca1	38088606	TAGAG/TAG	GCAATCGGGGAAAT CTCT	GGCAGTGGAGCCATT ACATT	60.4	820	INTERGENIC	--	--	--
Ca1_P1_38090984	Ca1	38090984	CAT/CATATATAT	GGAATAAAGGACTAA TCGGGAA	TGATTTGATGCCGTGA GTGT	59.7	545	INTERGENIC	--	--	--
Ca1_P1_38091862	Ca1	38091862	TAAAAAAAA/TAAAAAAAAA	TATGGCAATTTTGCA TCCT	AAACCCTTTGAATAGA CCCCA	60.3	521	INTERGENIC	--	--	--
Ca1_P1_38106060	Ca1	38106060	TATA/T	AGGAGAAAATTGCAAC ACCC	TGCATATACACGTAA TTCGCC	59.0	291	INTERGENIC	--	--	--
Ca1_P1_38106752	Ca1	38106752	CAA/CAAA	TTTTGTTGGTGTTAAAA TGCC	TTGCGGTTGCTCTTCT TCTT	57.6	540	INTERGENIC	--	--	--
Ca1_P1_38109587	Ca1	38109587	ATTT/ATTTT	ATTATGAAATCCCTTG GCG	TCTCTCACCCCTACC TCAA	58.9	597	INTERGENIC	--	--	--
Ca1_P1_38110776	Ca1	38110776	AT/ATTTT	GGGAGCATCCATAACA TTGC	GCCATTTCAAACACAT CACG	60.3	188	INTERGENIC	--	--	--
Ca1_P1_38115001	Ca1	38115001	ATT/ATTT	TCACCTCATTCGTTGTT TGTG	TCAAAGTCCACCAAG GTCC	59.6	601	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_38127589	Ca1	38127589	ATTTTTTTT/ATTTTTTTTTT	AACGACTACCCATGCT CCAC	CCTGTCAGAACTCGCA TTGA	60.0	544	INTERGENIC	--	--	--
Ca1_P1_38130303	Ca1	38130303	C/CG	AAAGGGGAGAAACCAT CTGT	TGCATTGCTTGACTT GGAG	59.8	680	INTERGENIC	--	--	--
Ca1_P1_38131605	Ca1	38131605	C/CT	CGTAACTCGTGTGGG TGAA	GAAGCAAGAGGCAACT CCAC	59.6	379	INTERGENIC	--	--	--
Ca1_P1_38132160	Ca1	38132160	GTC/GTCTC	AGGCGAATTTTAAACC GAGA	TTCCATGGCACGTGTA AAAA	58.8	150	INTERGENIC	--	--	--
Ca1_P1_38137457	Ca1	38137457	TG/T	CACTCTTTTGCTTCCA CCTCA	TTCAAAATGATGGAC AAAGTCA	60.4	478	INTERGENIC	--	--	--
Ca1_P1_38141452	Ca1	38141452	ATTT/ATTTT	AGCAAAGAAACCTGTC AGAAAA	TTTGAAGATTGCATT ACGGA	58.2	485	INTERGENIC	--	--	--
Ca1_P1_38142065	Ca1	38142065	A/AGT	GCTCTAACAGCGTAGC AAAAA	TATGAGGTGGCAGCAA GAGA	57.6	321	INTERGENIC	--	--	--
Ca1_P1_38146747	Ca1	38146747	T/TG	TTTTTGATTGCCAAC ATCA	ACGTTGCGCGAATTTA TTTT	59.9	764	INTERGENIC	--	--	--
Ca1_P1_38147070	Ca1	38147070	ATTTTTTTTT/ATTTTTTTTTT	GACAACCCATTATCCA AACGA	ACGTTGCGCGAATTTA TTTT	59.7	481	INTERGENIC	--	--	--
Ca1_P1_38147657	Ca1	38147657	TC/TCC	TGTTGACACATCACAT CCTTAACA	TTTCATGTCTCATTCC CCA	60.3	858	INTERGENIC	--	--	--
Ca1_P1_38148667	Ca1	38148667	GAAA/GAAAA	GCAACGTGCGGGTTAT ATTT	GAAAAAGCGCTGTAAA TGGC	59.9	228	INTERGENIC	--	--	--
Ca1_P1_38163218	Ca1	38163218	G/GC	TTTTTCCCGACTTGGT CATT	ACATATACGCGAAAA CGGG	59.4	812	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/P)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_38170055	Ca1	38170055	C/CT	GAAAAAGGGAGCTTCA TCCC	TTGGAGCTCAAAGAGG AGGA	60.0	935	INTERGENIC	--	--	--
Ca1_P1_38185784	Ca1	38185784	ACC/ACCC	TCCATGCTCCATGCAT TAAA	GGAAGTGTGATTCACT TGGTGA	60.0	686	INTERGENIC	--	--	--
Ca1_P1_38187356	Ca1	38187356	AT/ATT	ATCACTCCACCGACTT CCAC	GAGTAGGGCTGTGCA TGGTT	60.0	602	INTERGENIC	--	--	--
Ca1_P1_38190589	Ca1	38190589	ATTTTT/ATTTT	GTGGAGTACCCGCAGA AAAA	GAACCCCAATGAAAT GTTG	60.1	567	INTERGENIC	--	--	--
Ca1_P1_38193113	Ca1	38193113	CAAAAAAAAA/CAAAAAAAAA	CGAACAACTCACCAG ATCT	CCAATGGAGTCCCAAA AAGA	60.1	724	INTERGENIC	--	--	--
Ca1_P1_38193154	Ca1	38193154	TAAAAAAAA/TAAAAAAAA	CGAACAACTCACCAG ATCT	CCAATGGAGTCCCAAA AAGA	60.1	724	INTERGENIC	--	--	--
Ca1_P1_38194482	Ca1	38194482	GTAATTAATTAATTAATTA/GTAA TTAATTAATTAATTA	GCACCTAGTGGAGCAC ATGA	CTGCGAGAATTAGGG CTGTC	59.9	285	INTRON	Ca_13974	L	C2H2
Ca1_P1_38197697	Ca1	38197697	TAAAAAA/TAAAAAA	TTAGCGACCAATATAC CGGC	AACCAATGTTTCGGG ATCA	60.0	289	DRR	Ca_13974	L	C2H2
Ca1_P1_38217037	Ca1	38217037	TAAAAAA/TAAAAAA	CCGTGGAACAGGTGAA AACT	TTTTGACGTGTTGGGT TTGA	60.0	181	INTERGENIC	--	--	--
Ca1_P1_38225545	Ca1	38225545	ATTTTTT/ATTTTTTT	CACCTCCCCTTTCAGT TTCA	GAATTGCTTTTGGGT CGTG	60.1	951	INTERGENIC	--	--	--
Ca1_P1_38225631	Ca1	38225631	GAACCGTATAAGGTAA/GAA	TGGTTTGGATAAGCAT TTCAC	GAATTGCTTTTGGGT CGTG	57.6	595	INTERGENIC	--	--	--
Ca1_P1_38229860	Ca1	38229860	TC/T	TGGCAATCACCATCTC ACAT	ATTGCCTCAAGGGTCC TTCT	59.9	716	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_38241608	Ca1	38241608	TGTCACAT/T	GTTGGGAGACTTGTGC CCTA	ACCGAGTGTGCAATC AAGG	60.1	763	INTERGENIC	--	--	--
Ca1_P1_38244609	Ca1	38244609	GAAAAAAAT/GAAAAAAATTGAAA AAAAAT	GCGGAAATATTTTGC AGGA	AACCAATTGCATCACC CTTC	60.0	523	INTERGENIC	--	--	--
Ca1_P1_38247533	Ca1	38247533	CAAAAAAAAA/CAAAAAAAAA	AAGGGCCAAGTGAAGA GGAT	TTGCATACGCTTGTAT CCCA	60.1	802	INTERGENIC	--	--	--
Ca1_P1_38262001	Ca1	38262001	GTTTTTTTTT/GTTTTTTTTTTTTT	TTAAATGTAAGGGTGG GCACT	TAACCCACGTGTTACG CAGA	58.5	677	INTERGENIC	--	--	--
Ca1_P1_38267264	Ca1	38267264	CTTTTTT/CTTTTTTT	GATTAGTCCGCCAAA ACCA	TGTAACTTGCAACCA CGCT	59.9	369	INTERGENIC	--	--	--
Ca1_P1_38273940	Ca1	38273940	CAAAAAAAAA/CAAAAAAAAA	TATTTGGGACCAAAA CTGC	CATGGTTTGAATGCGA GTTG	59.8	637	INTERGENIC	--	--	--
Ca1_P1_38284193	Ca1	38284193	TC/T	GCCAACACATGGTGAA AGTG	AACAAAGTTTGCAATT GGGC	60.0	939	INTERGENIC	--	--	--
Ca1_P1_38287252	Ca1	38287252	TACA/TACACA	ATTTGGAGGTCACGTC CTTG	CTAAGGCACAACGGG GATAA	60.0	529	INTERGENIC	--	--	--
Ca1_P1_38303301	Ca1	38303301	TTATATA/TTATA	GGTCGTGCTGCAAGGA TTAT	GGAATTGAGTGGGTG ATTGTT	60.1	404	INTERGENIC	--	--	--
Ca1_P1_38303361	Ca1	38303361	TTTATT/TTT	GGTCGTGCTGCAAGGA TTAT	GGAATTGAGTGGGTG ATTGTT	60.1	404	INTERGENIC	--	--	--
Ca1_P1_38303577	Ca1	38303577	TT/TTGT	GGTCGTGCTGCAAGGA TTAT	GTGTGGTACTCATGCG ATGC	60.1	873	INTERGENIC	--	--	--
Ca1_P1_38303616	Ca1	38303616	ATTTTTTTTT/ATTTTTTTTTTTT	GGTCGTGCTGCAAGGA TTAT	GTGTGGTACTCATGCG ATGC	60.1	873	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_38319158	Ca1	38319158	CTTTT/CTTT	TGTGGCGCTTTCATTA AAAA	GAAGATGATGATCAAT TTTTGGG	59.3	395	INTERGENIC	--	--	--
Ca1_P1_38319972	Ca1	38319972	TAAAAAAAA/TAAAAAAAAA	CATTTCATCAAGAAC AACATCA	TTACACGTTTCATACAT TTGTCA	59.9	676	INTERGENIC	--	--	--
Ca1_P1_38335041	Ca1	38335041	GC/G	TCCACACCAATGGATG CTAA	TCGCGAACTACGTGAC AATC	59.9	459	INTERGENIC	--	--	--
Ca1_P1_38340566	Ca1	38340566	AT/A	ATTTTAATGAATGCCG ACGC	TTCAAATCCTCGGCCA TAAG	59.9	913	INTERGENIC	--	--	--
Ca1_P1_38345058	Ca1	38345058	ATTTTTTTTTT/ATTTTTTTTT	TTTGAGAAACATTGTG CATGG	TGGGGTGTGGATTGT TTCT	59.6	866	DRR	Ca_13966	--	--
Ca1_P1_38347901	Ca1	38347901	AAT/A	TCAGCGTTGATTAAG TGATT	TGCATCAACCTGGTGA TTTT	57.4	274	INTERGENIC	--	--	--
Ca1_P1_38429887	Ca1	38429887	CAAAAAAAAA/CAAAAAAAAAA A	TTGTTGGGATTTTCTT TTTGT	GAAGCGGTTGTGTGC AGTTA	59.0	911	INTERGENIC	--	--	--
Ca1_P1_38450592	Ca1	38450592	ATGTGTGTGTGTGTG/ATGTGTG GTGTGTG	TGCTTGACAATCTCT GCAC	TTATCTTCGATCCAC CAGG	60.0	454	INTERGENIC	--	--	--
Ca1_P1_38476810	Ca1	38476810	TTAT/TTATAT	TTGCAAGTACGTTCTC CAAAA	GTGTTACACGCCCTTC ATCC	58.5	280	INTERGENIC	--	--	--
Ca1_P1_38479463	Ca1	38479463	AATATATATATATATATATATATA TA/AAAAAAAAATATATATATATATA TATATATATATA	AGCGTGAATGTGACGT CTTG	TTAAAGAGATTGCGAG CGGT	59.9	100	INTERGENIC	--	--	--
Ca1_P1_38487463	Ca1	38487463	ATTTTTTTTTT/ATTTTTTTTT	TGCTACCTGCAACCG TGAG	GTCACCTTAAGGGGG CGTC	60.0	872	DRR	Ca_13962	--	--
Ca1_P1_3849371	Ca1	3849371	AATATATATATATATATATATA/AAT ATATATATATATATATATATA	CATGGCATCCATAGAA GGAGA	GGGCTTGAGCGTATAA ACAAA	60.0	669	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_38495552	Ca1	38495552	AATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATT TTA/AATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATT TTATTATTATTA	AACACCTTCCTGATCC TCCC	TGGCGAACTTTTAAGA ATGGA	60.3	659	INTERGENIC	--	--	--
Ca1_P1_38503999	Ca1	38503999	A/AAT	TCACAATTCTCAATGC GGA	AGTTCAAGTTCGAAAT GCCG	60.2	350	INTERGENIC	--	--	--
Ca1_P1_38527402	Ca1	38527402	ATTTTTTTTT/ATTTTTTTTT	GCATACCACTGCTTGG GTTT	TTAAGCTGAGAGCCTT CCCA	60.0	551	INTERGENIC	--	--	--
Ca1_P1_38528019	Ca1	38528019	ATTTTTTTTT/ATTTTTTTTT	TGGGGATCCTCACCTA CAAG	ATTTGACTCGTGTGCG ACTG	59.9	796	INTERGENIC	--	--	--
Ca1_P1_38537861	Ca1	38537861	TAAATCGATTATGAAATCGATT/TAAAT CGATTATGAAATCGATTATGAAATCG ATT	AAACAAAGCTGACCCA ATCG	CCTGTGGCCAGATAG GAAAA	60.1	357	INTERGENIC	--	--	--
Ca1_P1_38559279	Ca1	38559279	CGTT/CGTTGTT	CCTAACCTGTGCTCTT CCCA	GCATCGCTGGGTAATT TGTT	60.0	826	DRR	Ca_13957	--	--
Ca1_P1_38560129	Ca1	38560129	CT/CTT	CTCCTCTCCTTTTGGT TCCC	CAAAAGACTTCCCGAT TCCA	60.0	729	DRR	Ca_13957	--	--
Ca1_P1_38562322	Ca1	38562322	AT/ATATTTT	GTCCATGGTTTGGGTG TTTC	AAGTTAAAGGACCACA TGAGCAA	60.1	458	INTERGENIC	--	--	--
Ca1_P1_38562406	Ca1	38562406	TG/TGG	GTCCATGGTTTGGGTG TTTC	AAGTTAAAGGACCACA TGAGCAA	60.1	458	INTERGENIC	--	--	--
Ca1_P1_38565927	Ca1	38565927	TAAAA/TAAAA	TGGACGATGAATTTGA AGCA	TTTCCTACCAATTTTG CCG	60.2	494	INTERGENIC	--	--	--
Ca1_P1_38567121	Ca1	38567121	A/ATT	TATGTCTCCCAACAG CTCC	CCCTTCTCCATTTTCC ATGA	60.1	773	INTERGENIC	--	--	--
Ca1_P1_38567687	Ca1	38567687	T/TTA	AGGCGAACTTACAAGG ACGA	TGTTCGAGTTCAATCT AAACGG	59.9	409	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_38567886	Ca1	38567886	A/ACAC	AGGCGAACTTACAAGG ACGA	GCAACGGTCATTTCAA GGTT	59.9	612	INTERGENIC	--	--	--
Ca1_P1_38576779	Ca1	38576779	TAT/TATTTTGGATGACAT	ATGGTGCGAATGGTAA AAGC	TGAAAGGGGACAGAAA ATGG	60.0	447	INTERGENIC	--	--	--
Ca1_P1_38577185	Ca1	38577185	GTTTTT/GTTTT	CCATTTTCTGTCCCTT TCA	GCATTGGCTAAGCATG GATT	59.9	760	INTERGENIC	--	--	--
Ca1_P1_38577834	Ca1	38577834	T/TA	CCAATCCATGCTTAGC CAAT	GGTGGCGCATAAGATT GTTT	59.9	315	INTERGENIC	--	--	--
Ca1_P1_38584480	Ca1	38584480	AAATC/AAATCGAAATC	GAAATCAACCAATCC CGAA	CTCAAACGATCAAACG AGCA	59.7	888	INTERGENIC	--	--	--
Ca1_P1_38597585	Ca1	38597585	GAT/GATAT	ACCGTATCCCAATGCT TGTC	AACAACAAGGGAGGC AATG	59.8	345	DRR	Ca_13956	--	--
Ca1_P1_38597715	Ca1	38597715	ATAATTTTAATTTTAATTT/ATAATTTTA ATTT	CATTGCTCCCTTGT TGTT	TGTAGTTGCTGCAAAC GAGG	60.0	551	DRR	Ca_13956	--	--
Ca1_P1_38597934	Ca1	38597934	CAAAAA/CAAAAAA	CATTGCTCCCTTGT TGTT	TGTAGTTGCTGCAAAC GAGG	60.0	551	DRR	Ca_13956	--	--
Ca1_P1_38608326	Ca1	38608326	CAAA/CA	TATGCGTCCATCTTCA ATCG	GGGGTGTACAGTTG GAGGA	59.6	459	INTERGENIC	--	--	--
Ca1_P1_38623512	Ca1	38623512	ATTTTT/ATTTT	AGCAACTGCTTCAACC CACT	CGTCACGGCTTCCATT TATT	59.9	858	INTERGENIC	--	--	--
Ca1_P1_38636029	Ca1	38636029	TAAAAAAAA/AAAAAAAAAAAAA	GCCACAAAATTGGTCC AAAA	CGTGAGGCTGTTGGG ATATT	60.7	530	INTERGENIC	--	--	--
Ca1_P1_38641343	Ca1	38641343	GTTTTTTT/GTTTTTTTT	TTCTACCTTACGTTC CCGC	GGAAGTTGCCTTAGTG GCAG	60.1	342	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_38657360	Ca1	38657360	TAAAAAA/TAAAAA	CCATCAGTGATACT GTCCCA	CACAGGACAAGTGCAA TCTCA	59.9	451	INTERGENIC	--	--	--
Ca1_P1_38670857	Ca1	38670857	TG/TGG	TGTCTTGAGCATGCCT TGTC	TGCTATGCATGAGCTT GGAC	60.0	583	INTERGENIC	--	--	--
Ca1_P1_38684636	Ca1	38684636	GTTTTTTTTTTT/GTTTTTTTTT	TTGGGTGCACAGTTTA CAGC	CAAAACGCAACGCAAT GTAA	59.8	772	INTERGENIC	--	--	--
Ca1_P1_38710610	Ca1	38710610	AAATAATAATA/AAATAATAATAATA	TGGAAACTGTGTTTG GAAGAA	TTCCAACTCCCTTCCC TTTT	59.6	183	INTERGENIC	--	--	--
Ca1_P1_3872384	Ca1	3872384	TTATATATATATATATATATATATTA TATATATATATATATATATATA	GGGCAGAGCAAGAAAA CAAG	CTGACCGTTTTTCGAT TTCC	60.0	393	INTERGENIC	--	--	--
Ca1_P1_38746856	Ca1	38746856	CA/CAAA	CATCAATGCTTTACAC GGTT	TGTTCGAACGGTTAAA ATGGA	59.9	124	INTERGENIC	--	--	--
Ca1_P1_38747434	Ca1	38747434	AAT/A	AGGGTAATTTCTCCAC AACGA	AGGTCTGTCCAATCAG GTCC	58.6	481	INTERGENIC	--	--	--
Ca1_P1_38757375	Ca1	38757375	GA/GAA	TGTTGGATGTCCAAGT GGTG	TGGAATCCCTCCTTC CTCT	60.4	622	INTERGENIC	--	--	--
Ca1_P1_38764037	Ca1	38764037	GTTTTTTTT/GTTTTTTTTT	TGATCAAATCCCCCA CACT	TGGAAGCATGTGGTAG TGCT	60.2	302	INTERGENIC	--	--	--
Ca1_P1_38766832	Ca1	38766832	ACT/ACTCT	GAGCTTCTCAAGTCG GTGG	GTTTGAATACCTGTA GCCA	60.0	222	INTERGENIC	--	--	--
Ca1_P1_38773402	Ca1	38773402	AT/A	GTTTTGGCGTTGGTTT CACT	TGGTGCTTTCTATAA TGTGC	60.0	977	INTERGENIC	--	--	--
Ca1_P1_38773629	Ca1	38773629	TAAAAA/TAAAAA	TCCCTCCAATTTTCCA ATTT	TGGTGCTTTCTATAA TGTGC	59.6	569	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_38773798	Ca1	38773798	ATTTTT/ATTTTT	TCCCTCCAATTTTCCA ATTT	ATTCCAACATGCCCC TTTT	59.6	874	INTERGENIC	--	--	--
Ca1_P1_38775530	Ca1	38775530	ACC/AC	AGGGTCAAATCAATTG CCTG	GATCTTGCATATCCG AGGC	59.9	556	INTERGENIC	--	--	--
Ca1_P1_38779608	Ca1	38779608	CAAAAAA/CAAAAAA	CCATGAGAGCTCTGTG CTTG	TATGCATGCGGACAAG AGTC	59.7	523	INTERGENIC	--	--	--
Ca1_P1_38790509	Ca1	38790509	AC/A	AGAGCTCTGAAGTCAA GCGG	GAAATCCTTGTTGCCT TGGA	59.9	163	DRR	Ca_13953	--	--
Ca1_P1_38798126	Ca1	38798126	CAAAA/CAAAA	AGGACTGGACGTAGCC TTCA	GTGTCCCAGAGCTCGT TAGC	59.9	626	INTERGENIC	--	--	--
Ca1_P1_38844259	Ca1	38844259	TAAAAA/TAAAAA	TGAAAGTCACATTCCA GCTCA	CAAACCTCGTGCAAA GCTA	59.4	673	INTERGENIC	--	--	--
Ca1_P1_38844389	Ca1	38844389	CG/C	TGAAAGTCACATTCCA GCTCA	CAAACCTCGTGCAAA GCTA	59.4	673	INTERGENIC	--	--	--
Ca1_P1_38852972	Ca1	38852972	AATTAGGAT/AAT	TGGGTTTGTTGAGC CATA	TTTGAGTTCCTAAGGT CCCG	60.0	440	INTERGENIC	--	--	--
Ca1_P1_38853204	Ca1	38853204	CTT/CTTAATT	TGGGTTTGTTGAGC CATA	TTTGAGTTCCTAAGGT CCCG	60.0	440	INTERGENIC	--	--	--
Ca1_P1_38854619	Ca1	38854619	ATT/ATTT	TGTCCCATTAAGATC CGAC	GATTCTGTGCCCCAT CTAA	59.8	703	INTERGENIC	--	--	--
Ca1_P1_38855131	Ca1	38855131	TGGGG/TGGGGG	TTAGATGGGACAGG AATC	TTCCCTGTGCTGGT CCTC	59.9	526	INTERGENIC	--	--	--
Ca1_P1_38872590	Ca1	38872590	TTA/TTATA	TGTTGTTCAATTGATT TTTGC	TTGTCTAAGGTGTT AGTTTTTGTA	57.7	209	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_38874049	Ca1	38874049	TAAAAAA/TAAAAAAA	GTTTGAGTGCACACC TCCT	TGCAACGGGTGAAAT CTAA	60.3	370	INTERGENIC	--	--	--
Ca1_P1_38882967	Ca1	38882967	GTTAGGA/GTTAGGACTTAGGA	ATTAGGAACCTGGCA TGTG	GGCAGCATTGTGTGAA CTTT	59.8	464	DRR	Ca_13949	G	--
Ca1_P1_38886459	Ca1	38886459	AAAAATA/AAAA	GCATGTTGTATGCTTT CTTCCA	ATTTATCCATCCATGT CGCC	60.1	863	INTERGENIC	--	--	--
Ca1_P1_38896842	Ca1	38896842	TAA/TAAA	AGTACCAAAGAGGCAA TGCG	CCAAGAACTGCACGAT CTCA	60.3	221	INTERGENIC	--	--	--
Ca1_P1_38899645	Ca1	38899645	CTTTTT/CTTTTT	GGTAATGGCAAGAAAC GAGC	GAAAAGCGCTGTAAA TGGC	59.7	881	INTERGENIC	--	--	--
Ca1_P1_38911281	Ca1	38911281	TAAA/TAAA	AATGGGCGCTGTAAA TGTC	ACAAGCCTGAGCCTGA CCTA	60.0	720	INTERGENIC	--	--	--
Ca1_P1_38918913	Ca1	38918913	GTATATATATATATAT/GTATATATA TATATATATATATATAT	GTGTTGGCAGAACAAG CTGA	GGTAACCAATCCGAAG ACGA	60.0	691	INTERGENIC	--	--	--
Ca1_P1_38923411	Ca1	38923411	TAT/TATCTTGAT	GCACATTCGAACCTTT CCAT	TTAGGGCACATGCATT TCAA	59.9	642	INTERGENIC	--	--	--
Ca1_P1_38931061	Ca1	38931061	CAAAAAAAAA/CAAAAAAAAAAAAA	GCATAAATCGTGCTCG ACAA	CTCCATCCTCCAATC TTCA	59.8	430	INTERGENIC	--	--	--
Ca1_P1_38931341	Ca1	38931341	TTGGGAGGATGG/TTGGGAGGATGG GAGGATGG	GCATAAATCGTGCTCG ACAA	CAAAATGAAGGGCAATA GCGT	59.8	516	INTERGENIC	--	--	--
Ca1_P1_38931461	Ca1	38931461	CTTTTTTT/CTTTTTTTTT	TGAAGATTGGGAGGAT GGAG	TTCATGGATTGGTGAG GTGA	60.0	423	INTERGENIC	--	--	--
Ca1_P1_38933493	Ca1	38933493	ACCC/ACCCC	TGTCGCAACCTAACAT TTCG	ATACGCATAATCGACT CCCG	59.7	167	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_38943612	Ca1	38943612	ATTTAAA/ATTTAAATGTTCTCTTTAA	GCTCTTGTGAGTTGT GTTGC	TGGCCTCTTCGGTACT GATT	60.9	571	INTERGENIC	--	--	--
Ca1_P1_38951140	Ca1	38951140	CAA/CAAAA	AACTTTCCCAAGGCTC CAGT	GTTGTTGCTTCTGCTC CTCC	60.1	680	INTERGENIC	--	--	--
Ca1_P1_38952882	Ca1	38952882	TAAAAAAAAAAAAAAAAA A	TGATATCCACCTCCTC CTCC	TGAATCGCGAAAGTAG CCTT	58.9	564	INTERGENIC	--	--	--
Ca1_P1_38955335	Ca1	38955335	CA/C	TTTTTGCTCATAGTC CCCA	GCCTCCAACACTAAAA AGCC	60.4	341	INTERGENIC	--	--	--
Ca1_P1_38955475	Ca1	38955475	AT/A	TTTTTGCTCATAGTC CCCA	CTAGTTGGGCTTGAAG CAGC	60.4	656	INTERGENIC	--	--	--
Ca1_P1_38955594	Ca1	38955594	ATTTTTTTT/ATTTTTTTTTT	TTTTTGCTCATAGTC CCCA	CTAGTTGGGCTTGAAG CAGC	60.4	656	INTERGENIC	--	--	--
Ca1_P1_39013076	Ca1	39013076	GAATAAATAATA/GAATAAATAATA ATA	TTGCTCCTACGTATCT CCCG	GGGCTTGGGTTTCAAC AATA	60.2	893	INTERGENIC	--	--	--
Ca1_P1_39019011	Ca1	39019011	GTTTTTT/GTTTTTTT	CAACGTGTGTATCCAG GCAC	ATCAATGGAGGGAGG AGGAG	60.0	685	INTRON	Ca_13946	--	--
Ca1_P1_39019566	Ca1	39019566	ATA/ATAAATTA	CTCCTCCTCCCTCCAT TGAT	ACGAACACCTTCGTC ATTG	60.4	684	INTRON	Ca_13946	--	--
Ca1_P1_39027902	Ca1	39027902	CA/C	CACCAATCTCATGGTG TTCG	GCATTTTCAGGAAAAG AAAAAGG	60.0	618	INTRON	Ca_13946	--	--
Ca1_P1_39028142	Ca1	39028142	AATATATATATAT/AATATATATAT	TCATGGAAGGAGCAAT CACA	TAAGTTTtagGATGCC CCAA	60.2	764	INTRON	Ca_13946	--	--
Ca1_P1_39028216	Ca1	39028216	TAAAAAAAAA/TAAAAAAAAAAAA	TCATGGAAGGAGCAAT CACA	TAAGTTTtagGATGCC CCAA	60.2	764	INTRON	Ca_13946	--	--

[illegible]

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_39075429	Ca1	39075429	TA/T	TGAATGTGTTCTTTGA GCCG	CCTTGCTTCAACTCT TCAGG	59.8	541	INTERGENIC	--	--	--
Ca1_P1_39076657	Ca1	39076657	TGT/TGTTTTTATTAAGTAGAGT	ATCATCACTTCTTTCGC GGT	TGTCGATTTTTCTT TCGT	59.7	427	INTERGENIC	--	--	--
Ca1_P1_39077224	Ca1	39077224	CTTTTTTT/CTTTTTT	ACGAAAGGAAAAATGC GACA	TTTTGGTTGTTTTGC ATAAGG	60.6	634	INTERGENIC	--	--	--
Ca1_P1_39077300	Ca1	39077300	AA/AACA	CCATCTCTGGATTCTT GACG	AGGTTTTGGTTGTTTT TGCAT	59.7	532	INTERGENIC	--	--	--
Ca1_P1_39082963	Ca1	39082963	CTA/CTATA	GCAATGTGGCATTTT TGAA	CAAATGGCGAGGTTT GTAAT	59.5	501	INTERGENIC	--	--	--
Ca1_P1_39110990	Ca1	39110990	ATT/ATTT	TTTTATGGGCTGTGT AATGCG	ACACGGGGCACTTATT TTGA	59.9	273	INTERGENIC	--	--	--
Ca1_P1_39135722	Ca1	39135722	ACAAAATAAATTTTTCAAAATAAATT /ACAAAATAAATTTTTCAAAATAAATT TTTTCAAAATAAATT	ACGCGTCTTTTCGACA AGTT	GCATATTGTCATTGT GGGA	59.9	611	INTERGENIC	--	--	--
Ca1_P1_39144961	Ca1	39144961	CACGTAC/CAC	CATCCTTTCAGGATT GGTT	TTGTGCTTTGGAAAT GCAG	59.9	494	INTRON	Ca_13942	--	ARF
Ca1_P1_39146284	Ca1	39146284	AATA/AA	GCGAGCATGAGAAGTT GTTG	AAAATAGATTCCGATG CCACA	59.6	101	DRR	Ca_13942	--	ARF
Ca1_P1_39146441	Ca1	39146441	AATATATAT/AATATAT	TGTTGTGGCATCGGAA TCTA	TTTCCCTGATCATTTTA ATTTCCTC	60.1	646	DRR	Ca_13942	--	ARF
Ca1_P1_39147028	Ca1	39147028	AT/ATT	AAAATGATCAGGAAA ATCATGT	ACAACCTCTCATGCTC GCAA	58.7	339	DRR	Ca_13942	--	ARF
Ca1_P1_39166873	Ca1	39166873	GTTTTATTTATTTTAT/GTTTTATTTA T	ATAATTGCGTTAGCGA TGCC	GGTGTGTCGACCACA 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/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_39167382	Ca1	39167382	TCAACC/T	GTGTGGTCGATGACAC CAAG	TCCACCACTTCAAAAT TTCAT	60.0	580	INTRON	Ca_13941	--	Trihelix
Ca1_P1_39251292	Ca1	39251292	CAAA/CAAAA	GATCACCTTCACATCC CACC	TTGTCGGCAGGGGTA GTAAC	60.2	651	INTERGENIC	--	--	--
Ca1_P1_39254298	Ca1	39254298	AAATAATAAT/AAATAAT	TTCAATTTTCCGCCCT ATG	ATGGCTACACCAATGC ATCC	59.9	589	INTERGENIC	--	--	--
Ca1_P1_39261977	Ca1	39261977	A/AT	GGTTTGCTGTCGAGCC TTAG	AAACACAAGTCCAATC AAAAGG	60.0	421	INTERGENIC	--	--	--
Ca1_P1_39265880	Ca1	39265880	AT/A	GCATGTTCTTGCCCA TTAT	GGCTAAGTTTCTGCC TTGC	59.8	552	INTERGENIC	--	--	--
Ca1_P1_3929921	Ca1	3929921	AT/ATTATTATTATTATTTT	TTGTCTTTTGTTAG CCCC	GGATCATGTCCGAGCA TTTT	60.0	412	DRR	Ca_00475	LK	Nin-like
Ca1_P1_39303293	Ca1	39303293	CTT/CT	TTCACCGATTTCTTCC CAC	CACCTGAAAATGTGGA TGGTTG	59.9	621	INTERGENIC	--	--	--
Ca1_P1_39384808	Ca1	39384808	T/TA	GGGCCAAGAAACAACA AAAA	TTCCACCAATCAATTA GGCA	60.0	105	INTERGENIC	--	--	--
Ca1_P1_39386660	Ca1	39386660	TAA/TAACAACATAAA	AACGGGGACATTAACC AAAA	GGACGCGTCTTTACTT TCCA	59.2	285	INTERGENIC	--	--	--
Ca1_P1_39390988	Ca1	39390988	TA/TAA	GCCAGCTCACGTCTAA TGAA	GCCTAATTTGCCACC GATA	59.0	566	INTERGENIC	--	--	--
Ca1_P1_39391672	Ca1	39391672	GTTTTTTT/GTTTTTTTTT	AGCTACCCCATGGTAA GCCT	TCTTCTTAATCTTTTGG GTCCTTC	60.0	192	INTERGENIC	--	--	--
Ca1_P1_39392297	Ca1	39392297	CAAAA/CAAAAA	GAAGGACCCAAAAGAT TAAGAAGA	CAATCAGCGCTGGAG ATACA	59.2	916	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_39399195	Ca1	39399195	CAT/CATAT	CATTGCCCCAAGAATC ATCT	GGATCTTTTGGCAGGT TGAA	60.0	278	INTERGENIC	--	--	--
Ca1_P1_39406657	Ca1	39406657	CA/CAAA	ACCATGAAACCTTCGA CCTG	AAAAAGGTGACGTGG CAGAC	60.0	634	INTERGENIC	--	--	--
Ca1_P1_39423396	Ca1	39423396	TAA/TA	GGAAAGTTGAGTTGGA AGATGTTT	CCCTCTCTCCCAAT TCTC	59.9	632	INTERGENIC	--	--	--
Ca1_P1_39430506	Ca1	39430506	ATT/ATTTT	TGCATCTCCCTCAAGC TTTT	TGGAAATTTTGGGGT TCAA	60.0	976	INTERGENIC	--	--	--
Ca1_P1_39432122	Ca1	39432122	CTTTTTTT/CTTTTTTTTTTTTT	CAATTGCACAAATCATT GTGA	CAGGTGCATTATTCGG TGTG	59.5	870	INTERGENIC	--	--	--
Ca1_P1_39432866	Ca1	39432866	TG/TGTAGCAGAAGCAG	CACACCGAATAATGCA CCTG	GAGAAATGGCAGGG TGGTA	60.0	556	INTERGENIC	--	--	--
Ca1_P1_39433392	Ca1	39433392	CTTTTTTT/CTTTTTT	TATCCATACCACCCTG CCAT	CTCAGGATCCTCAACC CAAA	60.0	378	INTRON	Ca_13931	Z	NAC
Ca1_P1_39433677	Ca1	39433677	A/ATATCATAG	AGGATCCTGAGATTGC ATGG	CATGAACATCGGACAC AACC	60.0	360	INTRON	Ca_13931	Z	NAC
Ca1_P1_39436808	Ca1	39436808	T/TG	TGGCAGGATTGTGGAT AAGA	ACCAGGTTTCTGCATG TGTG	59.1	796	INTRON	Ca_13931	Z	NAC
Ca1_P1_39437989	Ca1	39437989	CAAA/CAA	AGCCGAAACTTTCTCG AACA	CCGTTGTGGCAGTGT GTATC	60.0	646	INTRON	Ca_13931	Z	NAC
Ca1_P1_39441175	Ca1	39441175	T/TG	TTGAAGAAGCTAAGGG GCAA	CTGCTGTTTGCATGGA TTGT	60.0	445	INTRON	Ca_13931	Z	NAC
Ca1_P1_39444170	Ca1	39444170	TAAAA/TAA	AATGATGGAAAAGCCG AATG	GGAGGGACCTGAAGT CACAA	59.9	838	INTRON	Ca_13931	Z	NAC

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_39447104	Ca1	39447104	TTAATG/TTAATGTTGATCTAATG	CAACTTTATTGGGGCG AAAA	CCCTCGATTAATTCTC TTGAGGT	59.9	253	DRR	Ca_13931	Z	NAC
Ca1_P1_39451528	Ca1	39451528	T/TA	GTTCTGACCTTCTCA CCCA	ACAGTGAGCACACAG TGGC	60.0	718	INTRON	Ca_13930	--	--
Ca1_P1_39457632	Ca1	39457632	AAGTGA/AA	GGAAATCCAAGTTCAG CCAA	CGGCAACTTGTGGGTA GTCT	60.1	407	DRR	Ca_13930	--	--
Ca1_P1_39462665	Ca1	39462665	TGGG/TGG	AGCGGCGCTTTATACC TTTT	GGGCCGGGAATTAATT AGAA	60.2	642	INTERGENIC	--	--	--
Ca1_P1_39463854	Ca1	39463854	AAATTTAAT/AAAT	ATATTGAGAGGTTGCG TGGG	ACCATCTCGATGCAAC ACAA	60.0	556	INTERGENIC	--	--	--
Ca1_P1_39463879	Ca1	39463879	AG/AGG	ATATTGAGAGGTTGCG TGGG	ACCATCTCGATGCAAC ACAA	60.0	556	INTERGENIC	--	--	--
Ca1_P1_39463964	Ca1	39463964	TAAA/TAAAAA	ATATTGAGAGGTTGCG TGGG	ACCATCTCGATGCAAC ACAA	60.0	556	INTERGENIC	--	--	--
Ca1_P1_39464239	Ca1	39464239	T/TA	TTGTGTTGCATCGAGA TGGT	CAAAGCCGAAAAGTT TCAA	60.1	560	INTERGENIC	--	--	--
Ca1_P1_39464317	Ca1	39464317	ATAAGAGACTAAGAG/ATAAGAG	TTGTGTTGCATCGAGA TGGT	CAAAGCCGAAAAGTT TCAA	60.1	560	INTERGENIC	--	--	--
Ca1_P1_39464986	Ca1	39464986	ATT/ATTCATT	ATTTGCTATGCTGGGG AGTG	TCTAAACGGCATCCAA GGAC	60.1	502	INTERGENIC	--	--	--
Ca1_P1_39466068	Ca1	39466068	TTATATATATAT/TTATATATATATAT	CCGCTGGATTTTCATG TTTT	TGAACCTTTAAGAGGA CCCCA	59.9	370	INTERGENIC	--	--	--
Ca1_P1_39472871	Ca1	39472871	CAAAAAAAAA/CAAAAAAAAA	CATCAAACCTAGACG GGGG	TTTTAGGCGAATATGG AGCAA	59.5	587	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_39490521	Ca1	39490521	CACGAATACGAAT/CACGAAT	ACAGCAGGTTCCCAAC ATTG	AAAGTGGATGGAGTGA TGCC	60.0	571	INTERGENIC	--	--	--
Ca1_P1_39492770	Ca1	39492770	A/AAC	ACCGAGTGTGAACTC AAGG	GCAGTGTGAATTTG GTGA	60.3	902	INTERGENIC	--	--	--
Ca1_P1_39508433	Ca1	39508433	GAA/GA	ACCTTTAGACTTGGGG CACA	TTGGTTAATCCATTA GCTCTCA	59.6	566	INTERGENIC	--	--	--
Ca1_P1_39508687	Ca1	39508687	TAAAAAAAAA/TAAAAAAAAA	AACGTGTCGTCTAAGG GAAAAA	TTGGTTGTCAGAGGTG TCCA	60.0	725	INTERGENIC	--	--	--
Ca1_P1_39541335	Ca1	39541335	AATATATATATATATATATA/AATAT ATATATATATATATATA	TTCTTTTCTCCTGAC CCT	CAAAAGATTGGGCAT TTGT	60.0	627	INTERGENIC	--	--	--
Ca1_P1_39559516	Ca1	39559516	GACACA/GACACACA	CCGGTAACGCAGGAAA AATA	TCCATTCCCTTTTAC CACG	60.0	611	INTERGENIC	--	--	--
Ca1_P1_39568953	Ca1	39568953	TATAATAATAATAAT/TATAAT	TGCCTAATTTCTCC CTCA	ATTGGAAGGAGGTTG CTTG	59.8	479	INTERGENIC	--	--	--
Ca1_P1_39594942	Ca1	39594942	TAAAAAAA/TAAAAAAA	TGAACCCAAAGGTCCA TCAT	TTGGTGTGATGGGAT TTCA	60.2	660	INTERGENIC	--	--	--
Ca1_P1_39597878	Ca1	39597878	TAAAAAAA/TAAAAAAA	GGAAAGCTCGTGGTGT CATT	TTGGATTCTACCACA CTTGCTT	60.1	257	INTERGENIC	--	--	--
Ca1_P1_39598601	Ca1	39598601	TC/TCCC	TTTCGTTATTTAAGCTA CAACGG	GCGAAGATGGTGCCA ATAAT	57.7	930	INTERGENIC	--	--	--
Ca1_P1_39605532	Ca1	39605532	ATTTTTTTTT/ATTTTTTT	AACACATGGGTTGAGT AAGTGA	CACCGAAAACCGAGAT CATT	57.1	300	INTERGENIC	--	--	--
Ca1_P1_39605985	Ca1	39605985	CTTTT/CTTTTT	TTGGCCAAATTTTAC AACA	TTGGTACTATGCACGG CTTG	59.9	439	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_39606006	Ca1	39606006	CTT/CT	TTGGCCAAATTTTCAC AACA	TTGGTACTATGCACGG CTTG	59.9	439	INTERGENIC	--	--	--
Ca1_P1_39609113	Ca1	39609113	AATAT/AAT	ATGGCCTTTCATTTTCA ACG	TTGTCTCAAGCGTTCA ATTTTT	59.9	725	INTERGENIC	--	--	--
Ca1_P1_39611784	Ca1	39611784	CTTTTT/CTTTTTT	GGTGAAGCCACATCTT CCAT	TGAGGGATTTGAAATT GGGA	59.9	216	INTERGENIC	--	--	--
Ca1_P1_39615435	Ca1	39615435	GAAAAAAAA/GAAAAAAAAA	GGAGTGGACCGTTAG GACAA	GCTGGAACCCAGTCAA CAAT	60.0	435	INTRON	Ca_13924	F	YABBY
Ca1_P1_39619759	Ca1	39619759	TAA/TAAA	CATATTCACGTTGTGT GCCC	GGCCAGTCAGCCCT ATTAT	59.8	405	DRR	Ca_13924	F	YABBY
Ca1_P1_39652228	Ca1	39652228	ACCC/ACCCC	GGAGTGACAATGCCCT CAAT	CGGGAGATACGTAGG AGCAA	59.9	774	INTERGENIC	--	--	--
Ca1_P1_39654601	Ca1	39654601	CT/CTGTT	CAGGGTTTGACAGTGA ACAAAG	CCAAATTGCCTCAAA ACCT	59.7	696	INTERGENIC	--	--	--
Ca1_P1_39657790	Ca1	39657790	GTTTTTTT/GTTTTTT	ATTACCTCTCGCGTGC AATC	GACAGAAAAGGGGA AGAGG	60.2	390	INTERGENIC	--	--	--
Ca1_P1_39675431	Ca1	39675431	CATATATATATATATAT/CATATATATA TATATATATATATATAT	CACCAAAGACAGGACC ACCT	CCTAGGGTTTTTGGTT GGGT	60.0	784	DRR	Ca_13920	--	--
Ca1_P1_39680160	Ca1	39680160	ATTTTTTTTT/ATTTTTTTTTTT	CTCAGCAATCGGTCAT GAAA	GCATGACTTAACTGCA AGCG	59.8	762	INTERGENIC	--	--	--
Ca1_P1_39680939	Ca1	39680939	GTT/GT	ATTCCGATGAGTGAC CGCT	GCTAGCTTCTCAATGG GTGC	59.6	716	INTERGENIC	--	--	--
Ca1_P1_39682708	Ca1	39682708	GCT/G	TCAATTGGCATTITGC ACAT	AAATCAGCACTGCAC CAAA	59.9	802	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca1_P1_39696784	Ca1	39696784	GATAATAATAATAAT/GATAATAAT AATAATAATAAT	TTTCTTAAAGATCAAA CCACCC	TGTGAAAAGTGGCAA CAAA	58.6	482	INTERGENIC	--	--	--
Ca1_P1_39718152	Ca1	39718152	GAAGAAAAAAG/GAAGAAAAAAGAA AAAAAG	AGGATCAATTTTATGA GCCGA	TGCTGCTCCATCCTT TTTC	58.7	748	INTERGENIC	--	--	--
Ca1_P1_39726359	Ca1	39726359	CATGAA/CA	TGTGGAAAGTTTACA GAACCC	TAAAGCCCAACAA TGGG	60.3	537	INTRON	Ca_13917	C	--
Ca1_P1_39730486	Ca1	39730486	TA/T	TGGAAACTGCGAAG TGTG	CGCGCGGACCATAAT CTAGT	59.9	242	INTERGENIC	--	--	--
Ca1_P1_39763220	Ca1	39763220	ATTTTTTTTTTT/ATTTTTTTTT	GCATTGGATCCTGT GGTT	AGAGGCCAACCTCTGT CTCA	59.8	695	INTERGENIC	--	--	--
Ca1_P1_39766448	Ca1	39766448	AT/ATCTT	AAAGCCACTATCAGG TGGA	TCCAAATCCATTCCA ATCC	59.6	701	INTERGENIC	--	--	--
Ca1_P1_39778752	Ca1	39778752	ATTTT/ATTTTT	TCGAATACACCTCTGC AACG	TGATCAAGTTGCAAGC TCAAA	59.9	622	INTERGENIC	--	--	--
Ca1_P1_39779833	Ca1	39779833	TAAA/TAAAA	GCCTATGGCCTGACCT AACA	TTCATTGCAACAACCT TCCA	60.1	850	INTERGENIC	--	--	--
Ca1_P1_39780204	Ca1	39780204	ATTTTTTTTTT/ATTTTTTTTT	CATTGGTATTGGTATG TGGGG	GGGTGGGGATAAGTC AGGTT	59.8	286	INTERGENIC	--	--	--
Ca1_P1_39782012	Ca1	39782012	TA/T	TTTTCTAGACCATCT GCGG	CGATCAATATTTTCA CCGAA	60.2	678	INTERGENIC	--	--	--
Ca1_P1_39783200	Ca1	39783200	ATT/ATTGACCTT	TGGACGGATGGTTATT GTTG	GTCGTTGTCAGGTTGT GTGG	59.2	453	INTERGENIC	--	--	--
Ca1_P1_39793280	Ca1	39793280	CAAAAA/CAAAAA	CCTGTCGCATCACTTC TCAA	TGGCTTGTTCAAAT TCACC	60.0	535	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_39816730	Ca1	39816730	ATTTTTTTT/ATTTTTTT	TTGTGTGAGTTCATGG TGGAA	CCAGTAATACTTTCGG TGGCA	60.0	920	INTERGENIC	--	--	--
Ca1_P1_39845179	Ca1	39845179	TATATAAAATATAAA/TATATAAA TATAAAATATAAA	CACCTTTGGAGGACGA TGTT	TTTCGATTTCCGTTT CAAG	60.0	900	INTERGENIC	--	--	--
Ca1_P1_39847720	Ca1	39847720	CATATATAT/CATATATATAT	GCTGAGCACACCTACA TTGG	TCCGCAACTGATTTAT GCAA	59.3	556	INTERGENIC	--	--	--
Ca1_P1_39871055	Ca1	39871055	TAAA/TAAAA	CATTGGCCACCTTTAG GAAA	TGCATTGCTTCAGTCA TGGT	59.9	329	INTERGENIC	--	--	--
Ca1_P1_39871464	Ca1	39871464	AATATATATAT/AATATATATAT	AATTTTCAACCCATTG TCG	GAGTTGAGGTATGACC ATTGGA	59.7	982	INTERGENIC	--	--	--
Ca1_P1_39898174	Ca1	39898174	GAAAAA/GAAAA	GGAATCCCATCAAGCA CAGT	GCGAAGTTGAGACAC GTGAA	59.9	633	INTERGENIC	--	--	--
Ca1_P1_39904718	Ca1	39904718	TAA/TAACAA	AAAACAAAATCAGCCC TCCA	GTTAATGAAACAAGGC CGGA	59.5	367	INTERGENIC	--	--	--
Ca1_P1_39905247	Ca1	39905247	TTATATATATAT/TTATATATAT	TCCGGCCTTGTTTCAT TAAC	CCGTTTCATCCACGTT ATTT	59.9	751	INTERGENIC	--	--	--
Ca1_P1_39949927	Ca1	39949927	AACACA/AACA	TTCATTCTCGTGTGTTG CACC	GGAAGCCGTCACAAA TGTT	59.7	421	INTERGENIC	--	--	--
Ca1_P1_39954761	Ca1	39954761	GAAAAAAAAA/GAAAAAAAAA	CTCCCTCCATGAGGA TACA	CCTTTCTCTCTTCATC CATTTG	59.9	649	INTERGENIC	--	--	--
Ca1_P1_39976327	Ca1	39976327	CA/CATA	TTTAAGAGAAGCGTTT GAGCG	CTTTGACTACGTTTCC CCGA	59.8	211	INTERGENIC	--	--	--
Ca1_P1_39990400	Ca1	39990400	TGAGAGAGAGAGAGAGAGAGAGA GAGAGAGAGA/TGAGAGAGAGAGAGA GAGAGAGAGA	TCAAAGCTCGACAC ATGC	CCTTCTCTCCATTGA TCCG	59.8	575	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_39990569	Ca1	39990569	TAA/TA	CGGATCAATGGAGAAG AAGG	ATACATCTCGCGCTCA CCTC	59.6	252	INTERGENIC	--	--	--
Ca1_P1_40004361	Ca1	40004361	GTTTTTTT/GTTTTTTT	TGGTTGGGGTGTCTA GGAG	AGGCCAAATCAATGGT CAAG	60.0	755	INTERGENIC	--	--	--
Ca1_P1_40010867	Ca1	40010867	CTTTTTTTTTTT/CTTTTTTTTTTT	CCAACAATCTCCCAT TTGT	TGTCAACAACAGAGGA TGGG	59.6	591	INTERGENIC	--	--	--
Ca1_P1_40011794	Ca1	40011794	TC/T	TCCTCTTTGGGTTTT GGA	CACAGGGCTACAGTCA GCAA	59.5	673	INTERGENIC	--	--	--
Ca1_P1_40015677	Ca1	40015677	CTTTT/CTTTT	CAACTTGGTCAAAGAT TTTCTTCA	CCAATAGTGGTTGCCT TCGT	59.7	573	INTERGENIC	--	--	--
Ca1_P1_40023860	Ca1	40023860	C/CA	AATCAAGGTCGGTCCA ACAC	TGATACCCACGAAACA ACAGA	59.8	537	INTERGENIC	--	--	--
Ca1_P1_40033572	Ca1	40033572	TCC/TC	TCCAAGAATATGCCGG ACTC	TTTTATCACAACGCTG CCAA	60.0	575	DRR	Ca_13904	OE	WRKY
Ca1_P1_40047203	Ca1	40047203	T/TTTG	AAACGAGCTATGTTCC CCTTT	GTCGTCTTGGTGCGG TATTT	59.1	682	INTERGENIC	--	--	--
Ca1_P1_40049510	Ca1	40049510	TTAAGTA/TTA	GCAAAATTGGATAGGG ACCA	ATGGCTTCTTGCGTTG ACTT	59.8	563	INTERGENIC	--	--	--
Ca1_P1_40052680	Ca1	40052680	TAAAAA/TAAAA	TTGCACCTACAAACCG TTGA	TACAAGCTTTGAATCG CGTG	60.1	610	INTERGENIC	--	--	--
Ca1_P1_40086233	Ca1	40086233	GAAAA/GAAA	ACAACTCCTCACACGG GAAA	TTGACTCAATCCACGA GCAG	60.5	407	INTERGENIC	--	--	--
Ca1_P1_40092028	Ca1	40092028	TAAGAAGA/TAAGA	TGTTTGTGCGAGTCTT TTTGA	CAACGCACACCACATA CACA	59.5	388	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_40092197	Ca1	40092197	CAAAAA/CAAAAAA	GGCAGCAAACTAATC AGCA	CAACGCACACCACATA CACA	59.1	221	INTERGENIC	--	--	--
Ca1_P1_4009762	Ca1	4009762	AT/ATT	CGCACACACTTTCTAC GCAT	TTGATCTGGTCAAATA AGCCA	59.9	841	INTERGENIC	--	--	--
Ca1_P1_40100944	Ca1	40100944	A/AT	TCTCGCAGTGCAAGTC TTTG	TTTTGCATTCTGGCTC TCTG	60.3	303	INTERGENIC	--	--	--
Ca1_P1_40115020	Ca1	40115020	ATT/ATTT	TCCAACCTCAAATTCAG GATAAGAA	GGCTAGATCCGACCAA AACA	59.2	778	INTERGENIC	--	--	--
Ca1_P1_40125641	Ca1	40125641	GTTTTTTTTTTT/GTTTTTTTTTTTTT	TTTTTGTGGATACCCA ATGAG	TCAAACTTTTCCAAC CGTCG	57.5	896	INTERGENIC	--	--	--
Ca1_P1_40126750	Ca1	40126750	CATA/CA	AGGCGCCACAATCTAG AAGA	TTCTCCATCACAGCGT TCAG	60.0	544	INTERGENIC	--	--	--
Ca1_P1_40135781	Ca1	40135781	ATTTTT/ATTTT	GTTTTGGTCGTTCCCT TGAA	TCGTTAGAGGTTTATC TCCAGAGG	59.9	881	INTERGENIC	--	--	--
Ca1_P1_40138981	Ca1	40138981	TCC/TC	AAAGGGCTTGTATCA TGCG	GAGCTCACGAATGCAC AAAA	60.1	125	DRR	Ca_13900	J	--
Ca1_P1_40166165	Ca1	40166165	TTCTCTCTCTCTCTCT/TTCTCTCT CTCTCTCTCTCT	CTCCAGGAGGATTGGT TCAA	TTTAGTGCAGGCCATT TGTG	60.0	660	INTERGENIC	--	--	--
Ca1_P1_40178554	Ca1	40178554	TAGAGAGA/TAGAGAGAGA	TTTGTGTACGGGAAAA TTTGAA	ACCCCAAAACAAAAT GGTG	59.4	669	INTERGENIC	--	--	--
Ca1_P1_40195336	Ca1	40195336	TTGG/T	TGTTTCTTGTGATTCTG GTCA	TTCTGCATTTCTTTGC ATCG	59.2	471	INTERGENIC	--	--	--
Ca1_P1_40196351	Ca1	40196351	CAAA/CAA	ACATGCCAGGTGACAA AACA	TGTTAACCGATTCTGC CAGA	60.0	912	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_40216460	Ca1	40216460	GTT/GTTCTT	GTCTCTTCTGATTGGG GCAA	TGGGTGGAAGCAATA GAGG	60.2	738	INTERGENIC	--	--	--
Ca1_P1_40219453	Ca1	40219453	TT/TTAAT	CCAATGGAGAAGGAAG TGGA	TTTTGCACACATAGCG GGTA	60.0	782	INTERGENIC	--	--	--
Ca1_P1_40224121	Ca1	40224121	ATTTTTTTT/ATTTTTTTT	CATTTCATCTGATTG GTGG	TCTTGCCTCATAGGA GCGT	59.9	664	INTERGENIC	--	--	--
Ca1_P1_40225071	Ca1	40225071	ATTATTT/ATTATTTATTTATTT	GTTGGAAGTGTCCATT GGCT	AAGTCGGTTTCAGGGT TGTG	60.0	355	INTERGENIC	--	--	--
Ca1_P1_40231594	Ca1	40231594	ATTTTTTTTTT/ATTTTTTTTT	GCGGTTATTCACTTTTA TGGG	CTCAAATCCAAACACC TTGG	58.5	743	INTERGENIC	--	--	--
Ca1_P1_40232307	Ca1	40232307	CAAAAA/CAAA	TCCAAGGTGTTTGAT TTGAG	CAGAAATTTGGTTGAG GGGA	60.0	717	INTERGENIC	--	--	--
Ca1_P1_40234096	Ca1	40234096	ATTTTTTTTTTTTTT/ATTTTTTTTTTTTT	GAACGTGGAGGTGAG GAAAA	AACAAATTCACAAC CAAAGAA	60.1	575	DRR	Ca_13896	--	--
Ca1_P1_40246846	Ca1	40246846	AGG/AG	TTTTCGAATCTTGGA ACCA	TCGCATGATGATCACT TTGAA	60.4	594	INTERGENIC	--	--	--
Ca1_P1_40247281	Ca1	40247281	TCTTTTCNNNNNNNNN/T	ATGCAACATGCACCAT TACG	ATTTACAGAGGTTGC GGTC	60.4	422	INTERGENIC	--	--	--
Ca1_P1_40251561	Ca1	40251561	CAA/CAACAAA	GTTGCGCTCACTACGT GAAA	TGCATTTTACAGCGCT TTTG	60.1	340	INTERGENIC	--	--	--
Ca1_P1_40260077	Ca1	40260077	TC/TCC	TTTGGTTTTATGCATTG CGA	ACATCAATGGCCAACA ATCC	60.1	525	INTERGENIC	--	--	--
Ca1_P1_4026071	Ca1	4026071	CAAAAAAAAAAAAA/CAAAAAAAAAAAAA AA	GCATCATGTTTGTTA TGCG	CAAGTCTCGAGCAAT AGCC	60.0	692	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_40266793	Ca1	40266793	AAC/TAT	GCACCGGAAGATACGT AGGA	TCGATTATGCGTAGGG AAGG	60.1	243	INTERGENIC	--	--	--
Ca1_P1_40278889	Ca1	40278889	TAAAAAAT/TAAAAAATAAAAAAAT	TTTGATCGGCCTCAA AGAC	GGAGTGTTTACCGATG CGTT	60.2	601	INTERGENIC	--	--	--
Ca1_P1_40297702	Ca1	40297702	TAAAAAATA/TAAAAAATAAAAAA	TCCTCAGTTTAGTTT CTTCAA	ATTGCCACGTTTGG CTTC	57.3	396	INTERGENIC	--	--	--
Ca1_P1_40298582	Ca1	40298582	TAAAAAATA/TAAAAAATAAAAAA	TTTAAAGATGCTGAA CAACAAA	AGCCGTGTGATTTTC GCTA	59.3	251	INTERGENIC	--	--	--
Ca1_P1_40303709	Ca1	40303709	TGG/TG	TGACCAATGCCTTGAG AACA	CAAGGAGAGGCGAGC TTAA	60.2	602	INTERGENIC	--	--	--
Ca1_P1_40304519	Ca1	40304519	T/TCCAACGAAG	TGCAATTTATCGAACA CCG	CCGACACCTCTTAATG GGAA	59.6	527	INTERGENIC	--	--	--
Ca1_P1_40312634	Ca1	40312634	A/AC	TGAGGGTCCTTTGAA TTGG	AACCGCGTAACTCAA TTCG	59.9	560	INTERGENIC	--	--	--
Ca1_P1_40312693	Ca1	40312693	GAAAAAATA/GAAAAAATAAAAAA	TGAGGGTCCTTTGAA TTGG	AACCGCGTAACTCAA TTCG	59.9	560	INTERGENIC	--	--	--
Ca1_P1_40329164	Ca1	40329164	AT/A	GCCGATTGTCTCAGGA AGAG	TACGCAATCCACAC AAAA	60.0	419	INTERGENIC	--	--	--
Ca1_P1_40337281	Ca1	40337281	CACACATA/CA	AGCAACATTGTTCCC TGAC	GGCAATCTTCCCGAG GTAAT	60.0	553	INTRON	Ca_13893	S	--
Ca1_P1_40338655	Ca1	40338655	CGG/CGGGG	CATGCCAACAACTAC CCCT	CGACACAACCACTTCC ATTG	59.9	657	INTRON	Ca_13893	S	--
Ca1_P1_40357264	Ca1	40357264	ACTAACCTA/ACTA	ACGCAAGAGCAGACAC ACTC	CAGCTGAGGGGAGCA TAAAG	59.2	663	INTRON	Ca_13893	S	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_40363234	Ca1	40363234	TTAT/TTATAT	CATGTTTAAACGCCA TCCT	TTTGGTGGCATTGT GCTA	60.0	405	INTRON	Ca_13893	S	--
Ca1_P1_40366814	Ca1	40366814	ATTT/ATT	CAAAAGGGGAAAGCAA ACAA	ATAGCATGGCGATT TCTG	60.1	461	INTRON	Ca_13893	S	--
Ca1_P1_40374065	Ca1	40374065	ATTTTT/ATTTTTTT	TACCAAACTCAGCAT TGCG	CAGCTTGTCGTCGGT AAAT	59.9	865	DRR	Ca_13892	--	Trihelix
Ca1_P1_40380273	Ca1	40380273	CTATA/CTATATATA	CCTGGTCCCACTTTTA CGAA	GAAAAGCGCTGTAAA TGGC	60.0	487	INTRON	Ca_13892	--	Trihelix
Ca1_P1_40391433	Ca1	40391433	ACCCCC/ACCCCCC	TCCTGAAGGGGATTCA TCAG	GTTAGGCGATCGCGA ATACT	60.0	610	INTERGENIC	--	--	--
Ca1_P1_40392920	Ca1	40392920	AT/A	AATTGCTTCTTGCTG CCTT	TTGACCAACTATCACC AAGCC	59.1	594	INTERGENIC	--	--	--
Ca1_P1_40398387	Ca1	40398387	CT/C	TGAAAAATACTTTTG GCCG	AAACGCCATGGATTG TCAT	59.9	858	INTERGENIC	--	--	--
Ca1_P1_40408351	Ca1	40408351	CAACGTATCAAA/CAA	TCACAACAATTGCGA AAACA	CCACCTCCATGCCTCT AAAA	60.1	657	INTERGENIC	--	--	--
Ca1_P1_40408801	Ca1	40408801	ATT/ATTGAGCCAATT	TTTTAGAGGCATGGAG GTGG	TTTTGCAATGTTGGG TTCA	60.1	343	INTERGENIC	--	--	--
Ca1_P1_40421450	Ca1	40421450	ATTTTT/ATTTTTTT	GGTGGTCTTGAGCGA GTAGC	CGGTCTTTGGCTTGGA AATA	60.0	583	DRR	Ca_13890	A	--
Ca1_P1_40423276	Ca1	40423276	GTTTTTTTTT/GTTTTTTTTT	TCGGTTTTGCTTCTTT GAA	CCACCTCCATGCCTCT AAAA	58.5	528	INTERGENIC	--	--	--
Ca1_P1_40423335	Ca1	40423335	TA/TAA	TCGGTTTTGCTTCTTT GAA	CCACCTCCATGCCTCT AAAA	58.5	528	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_40423480	Ca1	40423480	ATTTT/A	TCGGTTTTCCTCTTT GAA	CCACCTCCATGCCTCT AAAA	58.5	528	INTERGENIC	--	--	--
Ca1_P1_40423667	Ca1	40423667	CAGAAAGTAAAGAAAGT/CAGAAAGT	CCAAACCATTGTTGCA TTGT	TCCAAGAGGTCAAACG TCAA	59.3	600	INTERGENIC	--	--	--
Ca1_P1_40423792	Ca1	40423792	CAAAAA/CAAAAA	TTTATAGAGGCATGGAG GTGG	TCCAAGAGGTCAAACG TCAA	60.1	432	INTERGENIC	--	--	--
Ca1_P1_40424994	Ca1	40424994	C/CCAAATATTATAA	TGCAAACTTTGTTTCAT CGAG	GCATCATTCTCCTTCG AGACA	59.0	748	INTERGENIC	--	--	--
Ca1_P1_40425232	Ca1	40425232	AAA/AAATAA	CATTTTAAAGCTTTTGT TGCCA	GCATCATTCTCCTTCG AGACA	59.3	513	INTERGENIC	--	--	--
Ca1_P1_40425317	Ca1	40425317	GTCTC/GTCTCTC	CATTTTAAAGCTTTTGT TGCCA	TTTCATTAAGGTGAAT CGTTCAGA	59.3	608	INTERGENIC	--	--	--
Ca1_P1_40426155	Ca1	40426155	ATTTTTTT/ATTTTTTTTT	CTTTACTGCGTTGGAC CACA	ATAAATTGGATTGCA CCGC	59.8	544	INTERGENIC	--	--	--
Ca1_P1_40431867	Ca1	40431867	G/GGTCATAATCGCT	CTTGGGAGATGGCAAG AGAG	GACCTAGGGCAGCAC AAGAC	59.9	540	INTERGENIC	--	--	--
Ca1_P1_40433642	Ca1	40433642	T/TTTT	CGTGAGACCAACTAA CTGCC	CGGGGCGGTTTCTAT TTAT	59.8	766	INTERGENIC	--	--	--
Ca1_P1_40434120	Ca1	40434120	GAAAA/GAAAAA	TCCTTTCACATCCCAC TTTCT	GCCCTTAGAGCCCTCT CACT	58.6	487	INTERGENIC	--	--	--
Ca1_P1_40450419	Ca1	40450419	ATATTATTATTATTATTATTATTAT TATTATTATTATTATTAT/ATATTAT TATTATTATTATTATTATTATTAT ATTATTATTAT	TCTATGGTCAAACCA CCCC	AGAGCTTCCAACCCCA CTTT	59.6	427	INTERGENIC	--	--	--
Ca1_P1_40534315	Ca1	40534315	GAAA/GAAAA	CAATTTTGACCATGGA ACCC	TGAATTGACCTGCAG ATTG	60.0	730	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_40535465	Ca1	40535465	TTAATAATAATAATAATA/TTAATA ATAATAATAATAATAATA	CATGCGTTCCTGTGG TAGA	ATCACAGTTTGGCCAA GTCC	59.7	599	INTERGENIC	--	--	--
Ca1_P1_40535882	Ca1	40535882	AATATATATATATATATATAT/AA TATATATATATATATATATAT	GATGATGATGATGTCG TGCC	ATCACAGTTTGGCCAA GTCC	59.9	311	INTERGENIC	--	--	--
Ca1_P1_4053855	Ca1	4053855	GTATATAT/GTATATATAT	CAAGCACGGTACCCCT GTAT	AGCCGCTGACTATGAA GCAT	59.9	260	INTERGENIC	--	--	--
Ca1_P1_40795125	Ca1	40795125	AATATATATATATATATATAT/AA TATATATATATATATATAT	TGAAATCAATTGAGGA CATTGG	ACGTAGCGAGCCTCG AATTA	59.9	547	INTERGENIC	--	--	--
Ca1_P1_40861492	Ca1	40861492	GTTTTTTTT/GTTTTTTTTTTTT	ATTTCTAAACCGCAA ACCC	TCCACCCACGATACTG ATGA	60.2	941	INTERGENIC	--	--	--
Ca1_P1_40872577	Ca1	40872577	GTTTTTTTTTTTT/GTTTTTTTTTTT	CGGATCTTTCAGTTGT CTTGG	ATGGGTGTTTGTGTAT CGCA	59.7	381	DRR	Ca_18460	--	--
Ca1_P1_40889769	Ca1	40889769	TTATATA/TTA	GCATCTCTTGATGCC TTTT	AACATACGCCATACCC AAGC	59.3	289	INTERGENIC	--	--	--
Ca1_P1_40890013	Ca1	40890013	ATT/ATTT	GCTTGGGTATGGCGTA TGTT	TACGAACACTTGCAAA TCCG	59.9	243	INTERGENIC	--	--	--
Ca1_P1_40890559	Ca1	40890559	ATTTTT/ATTTTTT	CGGATTTGCAAGTGT CGTA	TGGGGTTTAGGATATC ACATCA	59.7	707	INTERGENIC	--	--	--
Ca1_P1_40899161	Ca1	40899161	GTTTTTTTTTTTT/GTTTTTTTTTT	ATTTGGTTCATTGTAT CCG	TTATGTTAGGGCAGGG TTTGA	59.6	360	INTERGENIC	--	--	--
Ca1_P1_40966090	Ca1	40966090	A/AG	CTTTGGTTTCAAAGTT GCCC	CGTGTATATACGCACA CCCA	59.6	571	INTERGENIC	--	--	--
Ca1_P1_4105789	Ca1	4105789	A/AGCACT	AAAAGTTTGCTGAGGA GCCA	AAAGGCAAGGATGT GTTTG	60.0	163	INTRON	Ca_00493	D	TCP

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_41058981	Ca1	41058981	CTTTTTTTTT/CTTTTTTTTT	GCATGGGAATGGATT CTCT	TGGCTCATACACAGTT TTCTGG	58.9	679	INTERGENIC	--	--	--
Ca1_P1_41198339	Ca1	41198339	ATCTCTCTCTCTCTCTCTCT/ATCT CTCTCTCTCTCTCTCTCTCT	TCGTACGAGCTTCTTC TCTTCTC	ACCCCCAGTTTCCAAT TTTC	59.4	436	INTERGENIC	--	--	--
Ca1_P1_41225712	Ca1	41225712	ACCC/ACC	GTGCAATTAGCAATGG GCTT	TTCCTTTGTGCGGTT TTAC	60.1	658	INTERGENIC	--	--	--
Ca1_P1_41248476	Ca1	41248476	GAAAAAA/GAAAA	CCAAAAAGAAGGACGA CCAA	AAACAATTGGATAGCG GCAC	60.1	547	INTERGENIC	--	--	--
Ca1_P1_41304267	Ca1	41304267	CAAAA/CAA	ATAGGCCATGTTTGGC ACTC	CTAATGGCTGCTGGGA TCAT	60.0	472	INTRON	Ca_23105	O	B3
Ca1_P1_4131582	Ca1	4131582	AAAAATAAATAAATAAATAAATAA A/AAAAATAAATAAATAAATAAATA AATAAATAAATAAATAA	TCCGAATAAATCGCAT ACCC	CCAGAGAGACAGATG CACCA	59.8	631	INTERGENIC	--	--	--
Ca1_P1_41493960	Ca1	41493960	TAAAAAAA/TAAAAAAA	TCGGCATAAAATGAA AACAA	GAAGATGCCTCTGGC CAATA	58.2	388	INTERGENIC	--	--	--
Ca1_P1_41503912	Ca1	41503912	TCC/TC	TCGATTATGCGTAGGG AAGG	CTTGGTGGTTTGAAG CTCAAT	60.1	540	INTERGENIC	--	--	--
Ca1_P1_41535010	Ca1	41535010	TCCCC/TCCC	GGAACTCCCGATTAA ATTG	GCGACCATCTGTTGCA GTTA	58.4	635	INTERGENIC	--	--	--
Ca1_P1_41549433	Ca1	41549433	CAGAGAGAGAGAGAGAGAGAGAG A/CAGAGAGAGAGAGAGAGAGAGA	TCAGCAACAACAACCG TAGC	AACACAAGAAGGGCC AAGA	59.9	460	INTERGENIC	--	--	--
Ca1_P1_4157854	Ca1	4157854	TA/T	GTGGACACGCGTATGA TTTG	TAACAGGCGATGCAAT TGAG	60.0	307	INTERGENIC	--	--	--
Ca1_P1_4158639	Ca1	4158639	TAAAAAAA/TAAAAAAA	GGTCCAAAACCTCAAA TCCA	GAAAAAGAACGTGAAG ATGCTG	59.8	579	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_41659303	Ca1	41659303	GATAATAATAATAATAATAATAAT AATAATA/GATAATAATAATAATAA TAATAATAATA	ATGCATAAGCAGCAGA CACG	CAGAAGATTTTCTTCC TGCCA	60.0	773	INTERGENIC	--	--	--
Ca1_P1_41695402	Ca1	41695402	CTA/CTATA	TACTTCCATGCAAACC AGCA	CCAACTCTGAAATACA AAAGCCA	60.3	486	INTERGENIC	--	--	--
Ca1_P1_41696972	Ca1	41696972	TAAAAAAAA/TAAAAAAAAA	ATGCCACATGAGCAAC TCTG	TCGTTCTCCTTCGTCG TCTT	59.9	524	INTERGENIC	--	--	--
Ca1_P1_41704419	Ca1	41704419	CATAATAAT/CATAAT	GGGGAATTTTTCATTT GTGG	TGTTTGGTTTCAAGG GACA	60.4	311	INTERGENIC	--	--	--
Ca1_P1_41704503	Ca1	41704503	CTTTTTT/CTTTTTT	GGGGAATTTTTCATTT GTGG	TGTTTGGTTTCAAGG GACA	60.4	311	INTERGENIC	--	--	--
Ca1_P1_41705653	Ca1	41705653	ATTTTTTT/ATTTTTTT	CATCACCGTAACATGA CTTACCA	TCCCAATAATTTTCTC TTTCG	59.8	723	INTERGENIC	--	--	--
Ca1_P1_41709578	Ca1	41709578	AGGGGG/AGGGG	TTGTGGAAGCAAGAG TGAA	TCCCCTCATCATTTT GCC	59.4	136	INTERGENIC	--	--	--
Ca1_P1_4171296	Ca1	4171296	TTTTA/TCATTTTTAGCTTATTTA	CAACAAAACGCGCTAA TGAC	CGAGATTTTGAGGCAT GTTG	59.4	522	INTERGENIC	--	--	--
Ca1_P1_41718814	Ca1	41718814	T/TG	GGGTCGAATGTCGATT CTGT	TCATCTCTCAGCCCCA CTCT	59.9	156	INTERGENIC	--	--	--
Ca1_P1_41722278	Ca1	41722278	TAA/TA	GGGAAATCATGTTTA TCACAATC	ACAACCTCTCATGTCC GCAA	58.7	756	INTERGENIC	--	--	--
Ca1_P1_41727767	Ca1	41727767	ACCCCC/ACCCCC	TAACGTGGAAAACCCC AAAA	TGCTGACTAGAAGTGG GGCT	60.2	586	INTERGENIC	--	--	--
Ca1_P1_41817073	Ca1	41817073	AC/ACTC	AATCAGCTTATTGGGG CAAC	GGTACGAGGAAAGCA TGCAA	59.0	212	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/P1)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_41875055	Ca1	41875055	TA/TAA	AGGGGCCAAAAACAA GAGT	AAAACAAATGCCAA TTGC	60.0	618	INTERGENIC	--	--	--
Ca1_P1_41935770	Ca1	41935770	AGGG/AGGGG	TCGATCAGATAAGCA ACCG	CAATGCTTCATACGTC CTGC	58.9	410	DRR	Ca_22531	--	--
Ca1_P1_41951410	Ca1	41951410	AATATATATATATATATATATA/AAT ATATATATATATATATATA	GGTGCTCTTTGGGAT GTGT	TTGCAATCAAACCTCA CAACG	60.0	934	INTERGENIC	--	--	--
Ca1_P1_4196063	Ca1	4196063	TCTACT/TCT	GCTGCAAAATGCAAAA CTGA	TGGAACGAGGAATTG GAGTC	60.0	694	INTERGENIC	--	--	--
Ca1_P1_42079737	Ca1	42079737	AATATATATATATATATATATATA/A ATATATATATATATATATATATA	GTTGCAACGAACCAAC CTTT	GCTACTTTGCAAGTGG ATGAAG	60.0	730	INTERGENIC	--	--	--
Ca1_P1_4211915	Ca1	4211915	TTATATATATATATATATA/TTATATA TATATATATATATATA	ATCTCTCAGCGACGA AGTT	CCAAATCCGTTCCGCT AGTA	60.0	276	INTERGENIC	--	--	--
Ca1_P1_42206965	Ca1	42206965	T/TCATGC	AGACTCCGATACCACA CCAA	GGGAAATCATGTTTA TCACAATC	58.0	363	INTERGENIC	--	--	--
Ca1_P1_4233360	Ca1	4233360	TTTAAATTTAAATTTAAATTT/TTTAA ATTAAATTT	TAATGGGCTTCGTGGG TTAG	GTGCAGCACATTCGAG AGAA	60.0	683	DRR	Ca_00504	--	--
Ca1_P1_42334747	Ca1	42334747	AATATATATATATATAT/AATATATA TATATATAT	ACACCTAATTCACCCC CTCC	TGTCACATCGCTTGCA CATA	60.1	409	DRR	Ca_22670	--	--
Ca1_P1_42384198	Ca1	42384198	AATTATTATTATTATTATTATTATT ATTATTATT/AATTATTATTATTATT ATTATTATTATTATT	CAAGATCGATGTCGGT TTGA	ACTAGATGGTCGCATC CTGG	59.6	410	INTERGENIC	--	--	--
Ca1_P1_4238785	Ca1	4238785	ATTT/ATT	TGAAGATGGCTTTGCA GTTG	TGCCGATAAATGACCA AACA	60.0	681	INTERGENIC	--	--	--
Ca1_P1_4241058	Ca1	4241058	TC/T	TTTCCAACGCCTTTTCA AAC	ATTGGGACCCACTGAG ATGT	60.1	957	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_4242614	Ca1	4242614	CTATTATTATTATTATTATTATTAT TATTATTATTATTATTAT/CTATTATTAT TATTATTATTATTATTATTATTATT ATTATTATTAT	TCTGGTCCAGCTTGTA ACCC	ACACTGGGAAAGGAAT GGAA	60.1	489	DRR	Ca_00505	--	--
Ca1_P1_42432936	Ca1	42432936	AATATATATATATATATATAT/AA TATATATATATATAT	CAAATTCCTCTTGCTC CACC	TGAAAGCTGATGAAAA TGGTC	59.7	695	INTERGENIC	--	--	--
Ca1_P1_4249114	Ca1	4249114	T/TC	GATAACCATTCTAG CCGC	TCATGTTTCAGCAGCT TTGG	60.4	870	INTRON	Ca_00506	R	bZIP
Ca1_P1_42493814	Ca1	42493814	TTTA/TTTAACATTA	AGCTGTTGGGTTTTT CTTT	TCCTCCACTACTCTCG AGCAC	60.0	473	INTERGENIC	--	--	--
Ca1_P1_42572608	Ca1	42572608	AAGATTA/AA	TTCCTCGTATTTCCAC CGTC	ACGATGATGACGATGA CGAA	59.9	351	INTERGENIC	--	--	--
Ca1_P1_4261803	Ca1	4261803	GAAAAA/GAAAA	TTTGCGGTCATTTAAG ATGATTT	TGGTTCCATGCACTTT GAAT	59.9	414	INTERGENIC	--	--	--
Ca1_P1_42642962	Ca1	42642962	TA/TAA	TGTGCATGCAATAAGT GGGT	AAAAACCCGGAATGGG TAAG	60.0	588	INTERGENIC	--	--	--
Ca1_P1_42767298	Ca1	42767298	AAAAAAATTTCAAAAA/AAAAAATTT CAAAAAATTTCAAAAA	ACATGTTGGGGAGTC AAAT	TACACAAAAGCCCCA ACTC	59.1	513	INTERGENIC	--	--	--
Ca1_P1_42810991	Ca1	42810991	AATATATATATATATATATATA/AA TATATATATATATATATATA	GTCCACATCATTCAAA CCCC	AATGGGTCTTTCACGA ATCAA	60.0	837	INTERGENIC	--	--	--
Ca1_P1_42822054	Ca1	42822054	AATATATATATATATATATAT/AA TATATATATATATATATATATATA T	AAAGGCATGACCAACT CCAT	CACCTGATTCTCGTT GGTT	59.4	671	DRR	Ca_13599	--	C2H2
Ca1_P1_4282317	Ca1	4282317	AATATATATATATATATATATATA /AATATATATATATATATATATATA ATA	TGCACCACAAAGTAGT TGCAG	GTATGAAAGCGGCAT TTGT	60.0	899	DRR	Ca_00509	J	--
Ca1_P1_42848958	Ca1	42848958	T/TACTGA	GGTTGAATGATTTGG ACGC	AAAAATCCACCATTG GACA	60.3	215	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_4286158	Ca1	4286158	ATT/ATTCTT	GGTGTCTGCTATTGCA CCTT	GCAATTCAGGTATTG TTCATGC	60.3	980	INTERGENIC	--	--	--
Ca1_P1_43108269	Ca1	43108269	TTCTCTCTCTCTCTCTCTCTCTCTC TCTCTCTCTCTCTCTCTCTCT/TTCTC TCTCTCTCTCTCTCTCTCTCTCTCT CTCTCTCTCTCTCT	CTAGCAGCATGTCGTT GAGG	AAATCAACGCTCCAAA AACG	59.6	666	INTERGENIC	--	--	--
Ca1_P1_43119967	Ca1	43119967	AATATATATATATATATATATA/AATAT ATATATATATATA	TTTCCGGGAATAATC CCTC	GAAGGAGAGTTCGCG TTGAC	60.1	361	INTERGENIC	--	--	--
Ca1_P1_4316126	Ca1	4316126	CTCTCTAT/CT	TCATGTCAAATGGGTC AAGC	ATGGGGCCAAATATGG AGTT	59.5	931	INTERGENIC	--	--	--
Ca1_P1_43188274	Ca1	43188274	AATATATATATATATAT/AATATATATA TATAT	CACCTTTTAAACAAATG ACCATTG	AGCAAGAACAGCCGC ATAGT	59.7	916	INTERGENIC	--	--	--
Ca1_P1_43236855	Ca1	43236855	GAAAAAAAAA/GAAAAAAAAAAAAA	GGCTCAAAATGGGCTTA AACA	TTGGAAGGCCACCT ACAC	60.1	538	INTERGENIC	--	--	--
Ca1_P1_43259961	Ca1	43259961	CTATATATATATATATATAT/CTATA TATATATATATATAT	TCCCCATCCTTTTAG TTCC	TCTTGATCGAATCC CTCC	60.1	768	INTERGENIC	--	--	--
Ca1_P1_43262365	Ca1	43262365	GAA/GA	CGTATCTCCTAGTGCG ATGGA	AAAAGGGTTGATTTCT CTTCA	60.2	792	INTERGENIC	--	--	--
Ca1_P1_4327787	Ca1	4327787	TAGAAG/T	TTGTATAGACCAGCAG GCCC	TTTTCATACCGTTCC AATGA	60.1	371	DRR	Ca_00516	KR	--
Ca1_P1_43319690	Ca1	43319690	A/AC	AACCACCTTGACCTGC AAAC	GGGAGCATGAGTGTTT TGGT	60.0	512	INTERGENIC	--	--	--
Ca1_P1_43335241	Ca1	43335241	AATATATATATATATATATATATATA TATATATATAT/AATATATATATATAT ATATATATATATAT	CGTGATATATGCGCA CCCA	CACAAACGGAAAAGTC GGAT	60.4	788	INTERGENIC	--	--	--
Ca1_P1_43438412	Ca1	43438412	CGTCGTGTCGTG/CGTCGTGT	CATGAACGACGTTTGA TTGG	TGGCCACCAAATTAAT GACA	60.0	575	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_43439444	Ca1	43439444	T/TATTTTA	CAAAATTGATTTTCGTT TTATTTCT	TCAATGATTGTTGACA AGGGA	57.2	293	INTERGENIC	--	--	--
Ca1_P1_43454769	Ca1	43454769	TGGG/TGG	TGAAGCCATTCTCCAT TTCC	GCAGGGAAGTTGCAC TTGA	60.0	295	CDS (FRAME SHIFT)	Ca_13574	QR	B3
Ca1_P1_43469250	Ca1	43469250	A/ATATATTATT	GAGGGTTTGACGCTCT TGTC	AACGCATCGGTAACAA CTCC	60.0	547	INTERGENIC	--	--	--
Ca1_P1_43534972	Ca1	43534972	CTTTTTTTTT/CTTTTTTTTTTT	GTTGTTTGC GTTTTCC CCTA	TGTGTTAAATCCACCG CAAA	60.0	460	INTERGENIC	--	--	--
Ca1_P1_43550360	Ca1	43550360	ATTT/ATT	TGCAGAGTAATTCGCT TTGTTTT	GGCATTAAAGCTCAAA TCCA	60.1	458	INTERGENIC	--	--	--
Ca1_P1_43595794	Ca1	43595794	AAAGAAGAAGAAGAAGAAGAAGA AGAA/AAAGAAGAAGAAGAAGAA GAAGAAGAAGAA	GGAAGCCTGGAATGAC ACAT	TTCAATTCGGATTTTG ACCC	59.9	555	INTERGENIC	--	--	--
Ca1_P1_43638401	Ca1	43638401	A/ATATGTC	CGCTTCATGTGTGTG CTTT	ACCCCTCCTAAGTGGG TTGA	59.9	857	INTERGENIC	--	--	--
Ca1_P1_43649275	Ca1	43649275	GAAAAAAAAA/GAAAAAAAAA	GCATGTGAAGTTCTAT GGCTGA	AAAATTTTGTTTGGGG GACC	60.3	825	INTERGENIC	--	--	--
Ca1_P1_43690044	Ca1	43690044	AATATATATATATATATATATAT/AA TATATATATATATATATATAT	AGACATATGTTGCTG GCCT	TGAGTTTGTGAGAG GATTTGTT	59.7	781	INTERGENIC	--	--	--
Ca1_P1_43700268	Ca1	43700268	CTT/CT	ATAGCTCGCCTCAACG TCAT	TAGCAGCAGCAGTTCA CCAC	59.9	427	DRR	Ca_13557	R	--
Ca1_P1_43862504	Ca1	43862504	GTATAATA/GTA	CCTGGACAATTAAC TCGCA	CGCAATTTTGTGAGTTC GACA	60.1	500	INTERGENIC	--	--	--
Ca1_P1_43867975	Ca1	43867975	AATATATATATATATATATATATA /AATATATATATATATATATATATAT ATATATATA	TTGCTGGCATAAGTGA ATCG	CCGTGAATTTTCATGG AATAAA	59.8	711	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca1_P1_43954938	Ca1	43954938	AATATATATATATATATATATATATA TATATATATAT/AATATATATATATAT ATATATATATATATAT	CAGGTGGCTGCACTCA AGTA	CCTTTCCAAGGTGCGT GTAT	60.0	326	INTRON	Ca_13537	--	NAC
Ca1_P1_44050778	Ca1	44050778	TAAAA/TAAAAA	AAGCAGGCCAAACCAGA GAAA	CGCATCGGTAAACACT CTGA	60.0	467	INTERGENIC	--	--	--
Ca1_P1_44129266	Ca1	44129266	TTGTGT/TAATGTGT	GGTAAGGGCTCCTTC AAAC	TCACGGGTCGACACAA TTTA	59.9	460	INTERGENIC	--	--	--
Ca1_P1_44172001	Ca1	44172001	GTTTT/GTTTTT	ACCTATGCCCACTGAT GAGG	GCAATTGCCAATGACG ACTA	60.0	750	INTERGENIC	--	--	--
Ca1_P1_44187356	Ca1	44187356	CTCTTCTTC/CTCTTC	CCGACTTTTCCAATGC CTAA	TAAAGCAGATTGCCCA AACCC	60.1	336	DRR	Ca_23493	--	--
Ca1_P1_44247311	Ca1	44247311	GTTTTTTTTT/GTTTTTTTTT	TTCTCCAGACTCTAGC CCGA	AGCTTCTCAGTAGGGG GCTC	60.1	592	INTERGENIC	--	--	--
Ca1_P1_44351850	Ca1	44351850	TTATATATATATATATA/TTATATATATA TATATATA	TGAAATTCGGAAGAAC CAGG	CGCATTCCCTTCACCT CTAA	60.0	111	INTERGENIC	--	--	--
Ca1_P1_44365208	Ca1	44365208	A/ACGCC	AGTCAACCCAAGTGCA AAGG	TTGGTTTCATGACCTG CATC	60.1	642	INTERGENIC	--	--	--
Ca1_P1_44368738	Ca1	44368738	GATAATAATAATAATAATAATAAT AATAATAATAATAATAATAATAA/GATA ATAATAATAATAATAATAATAATAA TAATAATAATAA	TTGTAACCTCCC GAAT TGTTG	AGAGGCAAACAAGAAC CGAA	59.8	534	INTERGENIC	--	--	--
Ca1_P1_44372843	Ca1	44372843	CNNNNNNNNNNN/CNNNNNN	ACTGGCCGTGAAGGTA ATTG	TGAACATGCACAAGCA ACAA	60.0	764	INTERGENIC	--	--	--
Ca1_P1_44417905	Ca1	44417905	GAAAAAAAAA/GAAAAAAAAA	TATCGGCCCCACAATT AAAA	TTAGATCTCGCACCAA TCCC	60.1	179	INTERGENIC	--	--	--
Ca1_P1_4444544	Ca1	4444544	AATATATATATATATATATA/AATAT ATATATATATATATA	AATCGATTGGCTGAAA TCCA	GACATTTAACAGCGCC CATT	60.4	663	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_44467119	Ca1	44467119	GTT/GTTT	ATGCAGCTCAAAAACA GCCT	GGTTCACCCAAAGATG GCTA	60.0	537	INTERGENIC	--	--	--
Ca1_P1_44650256	Ca1	44650256	T/TC	TCGTTTGCGTCATTGG ATTA	AGGGAGGACGAAAAT GACCT	60.1	444	INTERGENIC	--	--	--
Ca1_P1_44734189	Ca1	44734189	TC/T	TTTCACCATTGGTCTC CACA	GTGGCGAATCATCAC AATG	59.9	429	INTERGENIC	--	--	--
Ca1_P1_44745225	Ca1	44745225	A/AC	TCCGGATATAGTCCTG CCAC	TCCTTGTGAACGACTT GGTG	59.9	632	INTERGENIC	--	--	--
Ca1_P1_44776081	Ca1	44776081	AATATATATATATATATATATATATA TATATATATATATA/AATATATATATAT ATATATATATATATATATATATATAT ATATATATA	TGGAATACCATATATTT TACGTTTTCA	TGACGGATCCTTTCTT GACA	59.1	795	INTERGENIC	--	--	--
Ca1_P1_44847079	Ca1	44847079	ATTTTTTTTTT/ATATTTTTTTTTTTTT T	GACATGCTCAGTAATT GCCC	AAAACCAACAATCTC CCCC	58.2	373	INTERGENIC	--	--	--
Ca1_P1_44847252	Ca1	44847252	ATCTGATGTTCTGATG/ATCTGATGTT CTGATGTTCTGATG	TGTTTTCTGCCTTTTTG CCT	AAAACCAACAATCTC CCCC	59.9	274	INTERGENIC	--	--	--
Ca1_P1_44847313	Ca1	44847313	TATAATAATAATAATAATAATA/TATAA TAATAATAATAATA	TGTTTTCTGCCTTTTTG CCT	AAAACCAACAATCTC CCCC	59.9	274	INTERGENIC	--	--	--
Ca1_P1_4485491	Ca1	4485491	CATATATATATATATATA/CATATATAT ATATATA	TTTGATGTTGTGGAG ATGAAA	TGCCATGCATCAGTTG TTTT	58.1	792	INTERGENIC	--	--	--
Ca1_P1_44921329	Ca1	44921329	A/ATGATGCTAATCTT	CCTCAAACGATTTTCT GGGA	CTTTCCCAATGCGTGA AGAT	60.0	478	INTERGENIC	--	--	--
Ca1_P1_45003074	Ca1	45003074	AA/AATTCCGAATCA	TCTTCCACATTGATTTT GTTGC	TGCTATTCCCAGAT ACCG	60.0	988	DRR	Ca_25714	--	--
Ca1_P1_45029559	Ca1	45029559	TTATATATATATATATATATATATATAT AT/TTATATATATATATATATATATAT AT	TTCTGTAGGACAAGGG GTGG	TTTCGCTAAACCAAAA CGCT	60.0	180	DRR	Ca_25715	I	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_45033030	Ca1	45033030	ATTTTTTT/ATTTTTTTTT	TTTCCCCTGCAGAGT TAGG	TAAACGACCCACTAAG GCGT	60.1	894	INTERGENIC	--	--	--
Ca1_P1_45058076	Ca1	45058076	TAAAAA/TAAAAA	AAACTAGATTATGGCC TGCG	TGCTCGCAATTAAAC ATGC	57.0	426	INTERGENIC	--	--	--
Ca1_P1_45104438	Ca1	45104438	TTAATAATAATAATAATAATAATAA TAATAATAATAATAATAATAATAAT AATAATAATAATAA/TTAATAATAATAA TAATAATAATAATAATAATAATAAT AATAATAATAATAATAATAATAATAA	TTTCAGGCGATTTTCG TACC	AAGTGGGGAACGTTG ACTTG	60.1	744	INTERGENIC	--	--	--
Ca1_P1_45124635	Ca1	45124635	GTATATATATATATATATATATATA/GT ATATATATATATATATATATATATAT A	TCCGAGACACAAGACC AACA	TTACGAACACAATTGT TGCCA	60.3	836	INTERGENIC	--	--	--
Ca1_P1_45238172	Ca1	45238172	T/TGACA	ATTCTTTTTGGAGCGC AGAA	CCAATTAGGTTTACGG CGAA	60.0	401	INTERGENIC	--	--	--
Ca1_P1_45241605	Ca1	45241605	A/ACCC	GTTTTGGGAGTATCCC GGTT	ATACGAAACGGAAC CGAA	60.1	522	INTERGENIC	--	--	--
Ca1_P1_45243785	Ca1	45243785	TA/TAGACA	TGTGCCAAGGTTTCAG AACA	CTTTATTGCAAGACC CCGA	60.3	605	DRR	Ca_26020	--	--
Ca1_P1_45244574	Ca1	45244574	TC/TCATAAAGCTCAC	TCGGGGTCTTGCAATA AAAG	GACAATGGGAATTCCG CTAA	60.1	532	CDS (FRAME SHIFT)	Ca_26020	--	--
Ca1_P1_45246034	Ca1	45246034	C/CGTCTTGTT	CGATTTGCTTTTAGC ATCC	CAATTGCGATATTATG GGGG	59.8	253	INTERGENIC	--	--	--
Ca1_P1_45251376	Ca1	45251376	C/CCTATGA	CTAGCTCTGGGTTTCA GTGG	ATCCGACTAGTCCGG GTTC	60.0	247	INTERGENIC	--	--	--
Ca1_P1_45255790	Ca1	45255790	CATA/CA	ATTTACAAATCTGCCAC CGC	CGTCAAAGACTTCACT GCCA	60.0	726	INTERGENIC	--	--	--
Ca1_P1_45332822	Ca1	45332822	TG/TGCTGATTG	GCTCAAAGCACATGAC AGGA	CAATGCGTTTATGCCA CAAC	60.0	248	INTERGENIC	--	--	--

[illegible]

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca1_P1_45749239	Ca1	45749239	GAAAAAAAAA/GAAAAAAAAA	TTGTGCGCTTGACTGA TGTT	GTTTGGCGTTGGTT CACT	60.5	857	INTERGENIC	--	--	--
Ca1_P1_45869301	Ca1	45869301	GTATATATATATATATATAT/GTA TATATATATATATATATAT	TCATGGTCATTCAAAC CCAA	CAATGACTATGTGTT GCCGA	59.8	575	INTERGENIC	--	--	--
Ca1_P1_45914806	Ca1	45914806	ATT/AT	AGTGCTGTAAATGCC CACC	CTGGGCAAGGGATCT GAATA	60.0	548	DRR	Ca_21533	--	Trihelix
Ca1_P1_45941271	Ca1	45941271	AATATATATATA/AATATATATAT ATA	GAAAGGAGATCACGAG CAGC	GTTGAATGGAACAGGC GAGT	60.1	723	INTERGENIC	--	--	--
Ca1_P1_45941295	Ca1	45941295	GATATATATATATATATATAT/GA TATATATATATATATATATAT	GAAAGGAGATCACGAG CAGC	CAAGTCGTGGGGAGC ATTAT	60.1	846	INTERGENIC	--	--	--
Ca1_P1_45951051	Ca1	45951051	GTTTTTTT/GTTTTTTT	GCACCGGATTTTAA CCAA	TCTTCGTGGAAGTTGC CTTT	59.8	714	INTERGENIC	--	--	--
Ca1_P1_45958085	Ca1	45958085	TAAA/TAA	ATCACCGAAAATGTAA CGCC	CAGTGGTCGATTTTGT GTGG	59.8	687	INTERGENIC	--	--	--
Ca1_P1_46003289	Ca1	46003289	ATTTTTTTTT/ATTTTTTTTTT	ATGGCAACATGGGATG ATTT	CTGGTTTGCAAAACG ATCT	60.0	653	INTERGENIC	--	--	--
Ca1_P1_46023584	Ca1	46023584	CACTAGTTACTAGTTACTAGTTACTAG TTACT/CACTAGTTACTAGTTACTAGT TACT	TTTTCCACCAACAAAC CTCA	AGTTGTGGAATCTGCC TGCT	59.0	330	INTERGENIC	--	--	--
Ca1_P1_46088799	Ca1	46088799	CTATATATATATATATATATATATAT ATAT/CTATATATATATATATATATA TATATATATAT	TAAGTCCGTAAGTGGT GCCC	GGGCTTTCCAAGTGT TATCC	60.0	586	INTERGENIC	--	--	--
Ca1_P1_4612179	Ca1	4612179	CAA/CAAA	GCCATTTGGAATGACG ACTT	CGTTTTTGCAACTTCC CAAC	59.9	327	INTERGENIC	--	--	--
Ca1_P1_46122011	Ca1	46122011	CATATATATATATATATATATATATA TATATATATATA/CATATATATATATAT ATATATATATATATATATATATATATA ATATA	CCTATTGGGAAATGAA GCGA	CCGTACCGTTTCTGGG ATTA	60.0	637	DRR	Ca_21537	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_4613210	Ca1	4613210	TTATATATATATATATATAT/TTATAT ATATATATATATATATATAT	CCGTGTTATGTGGTGC ATGT	CTCTGCAAAATGCATG AAATGTT	60.3	230	INTERGENIC	--	--	--
Ca1_P1_46177937	Ca1	46177937	GAAAAAA/GAAAAA	TTGACACTCATTGCTC CTTCA	GCATGTTGAGAGGG GAGAA	59.4	309	INTERGENIC	--	--	--
Ca1_P1_46178255	Ca1	46178255	AATTATAATTAT/AAT	TCAAACATGCTCTGAA TGCC	AACCAATACATAACAT CACAGTGC	59.8	570	INTERGENIC	--	--	--
Ca1_P1_46186559	Ca1	46186559	AGTGATTGGTTTGTGGTGGTT TGTTG/AGTGATTGGTTTGTGA TTGGTTTGTGGTGGTTGTTT G	AAAGCACACGATTTTC ACCC	TTCGCATCTAGCACT TCCT	60.0	775	INTERGENIC	--	--	--
Ca1_P1_46201366	Ca1	46201366	TA/TACA	GGGGTACCTCTAGTGG GGAA	GCCAAACACAACAAC GAGA	60.2	424	INTERGENIC	--	--	--
Ca1_P1_46207586	Ca1	46207586	ATATTATTATTATTATTATTATT TATTATTATTATTAT/ATATTATTATTA TTATTATTATTATTATTATTATT	CCACATAACAAAATTC GTGGG	CACATTACTGCCGTG TTGAA	60.1	545	INTERGENIC	--	--	--
Ca1_P1_46259102	Ca1	46259102	CACACCCAGACACCCAG/CACACC CCAG	GACAAAGCTGCAACCA CAGA	ATCCCTTAGCGTGGGA GAAT	60.0	405	INTERGENIC	--	--	--
Ca1_P1_46259340	Ca1	46259340	AATATATATATATATATATATATA TATATATATATA/AATATATATATATAT ATATATATATATATATATATA	TCAGACAAAGCTGCAAC CCAC	GTTACCGGTTCTTGC TTCA	60.0	845	INTERGENIC	--	--	--
Ca1_P1_46268212	Ca1	46268212	TA/T	AAACGCAATCCTTGAG TTCCG	CATGACTTGGATTGGT CGTG	60.2	226	INTERGENIC	--	--	--
Ca1_P1_46278771	Ca1	46278771	ATGGCCTGGCCTGGCCTGGCTG/AT GGCCTGGCCTG	ACCTTCAGTCAGGGGC CTAT	AAGTCTGGTCTGGCCT GAAA	60.0	538	INTERGENIC	--	--	--
Ca1_P1_46283206	Ca1	46283206	C/CTAATTATAA	AGCTGCCATGCCTAAT GAAT	CAATGGGCTTCTTACC TGGA	59.7	425	INTERGENIC	--	--	--
Ca1_P1_46284274	Ca1	46284274	C/CTACA	CAGATGGCACACCTCT CTCA	TCTATCTACAATGCG GCAG	60.0	544	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/P1)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_46286614	Ca1	46286614	CTTTT/CTTT	CCAAGTTATGCTTGAT CGCA	CGAGAACCATCCTGCA TTTT	59.8	820	INTERGENIC	--	--	--
Ca1_P1_46286661	Ca1	46286661	GTAGGGATA/GTA	CCAAGTTATGCTTGAT CGCA	CGAGAACCATCCTGCA TTTT	59.8	820	INTERGENIC	--	--	--
Ca1_P1_46309103	Ca1	46309103	CAATAATAATAATAATAATAATAAT AATAATAATAATAATAATAATAATA ATA/CAATAATAATAATAATAATAA TAATAATAATAATAATAATAATAAT AATAATAATAATAATAATA	CAGGAATTACAATCCG TTCCA	ATCGATTCCGGTGGTC TATG	59.8	778	INTERGENIC	--	--	--
Ca1_P1_46318101	Ca1	46318101	TATT/TATTATTATTATTCATT	AGGCCAAGAGACTTGG TTGA	ATTATGCCGGTGGTGT GAAT	59.8	335	INTRON	Ca_21543	--	--
Ca1_P1_46352138	Ca1	46352138	CACAAC/CACAACAAC	AGCGATGCATGTCTCA AGTG	TGCCCTTCTTCTTTTC CTAGTG	60.0	396	INTERGENIC	--	--	--
Ca1_P1_46382197	Ca1	46382197	CA/CATATATATA	TCTTGAGCTGGGAAC TCGT	CCCAACCATGCTAGTG TGC	60.0	671	INTERGENIC	--	--	--
Ca1_P1_46409324	Ca1	46409324	ATTTTTTTTT/ATTTTTTTT	CCCATGAGCAACCAAA AACT	TGATCATCCAGGCATG TGTT	60.0	289	INTERGENIC	--	--	--
Ca1_P1_4648276	Ca1	4648276	TTTATTATTATTATTATT/TTTATTATTA TTATTATTATT	CTTTCACAACGGAGTG TCCC	TTGTACCAGTTTCGCT CCTTT	60.5	529	INTERGENIC	--	--	--
Ca1_P1_46491737	Ca1	46491737	CAAG/CAAGAAG	GATGCATCTACCAAG GGTT	CGGTGCAAACTCTACG TTCA	59.9	420	INTERGENIC	--	--	--
Ca1_P1_46523548	Ca1	46523548	CAAAAAAAAAAAAAAAAA/CAAAAAAAAA AAAA	GTGGACAACCTGCAT TCCT	ACCATGCACAGTTGCT GAGA	60.0	675	INTERGENIC	--	--	--
Ca1_P1_46524349	Ca1	46524349	TAAAAAAAA/TAAAAAAAAA	TGAAGCATGCACAAAT CCTC	TTGATGTAGCAACGGC TGAG	59.8	843	INTERGENIC	--	--	--
Ca1_P1_46525859	Ca1	46525859	GAAAAA/GAAAAAA	CCACCTGGATACAAG GCTA	AGTAGAGGGAGTTTCG GGTGC	59.9	711	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_46526481	Ca1	46526481	CAAAAAA/CAAAAAAA	TTAAATTCCGAGGCG AAAA	ACATGGTTGTGGTGGT GATG	59.7	698	INTERGENIC	--	--	--
Ca1_P1_46526676	Ca1	46526676	TAAA/TAAA	TTAAATTCCGAGGCG AAAA	ACATGGTTGTGGTGGT GATG	59.7	698	INTERGENIC	--	--	--
Ca1_P1_46528558	Ca1	46528558	CT/CTT	TTAAATTCCTCCTC GGCT	AACTCTGGGAACCTC CTGT	60.0	398	INTERGENIC	--	--	--
Ca1_P1_46528735	Ca1	46528735	GTGACAGCCTGACAG/GTGACAG	TTAAATTCCTCCTC GGCT	GGGGAACATCCCG TTATT	60.0	865	INTERGENIC	--	--	--
Ca1_P1_46530950	Ca1	46530950	CAAAATTGAAAATTGAAAATT/CAAAATT GAAAATT	ATTTGAGAATGTTCCG GCAA	GTCTGCGGATAATTT GCTT	60.4	665	DRR	Ca_21551	M	--
Ca1_P1_46531041	Ca1	46531041	T/TG	GCGAAAAATGTTGA TGCA	GTCTGCGGATAATTT GCTT	60.1	139	DRR	Ca_21551	M	--
Ca1_P1_46539360	Ca1	46539360	CAAA/CAAAA	TCCCAACAGCCTGAT AACC	CTGATGACAAAAGG GGAGA	59.9	744	INTERGENIC	--	--	--
Ca1_P1_46598729	Ca1	46598729	GATATATATATAT/GATATATATATAT T	TGATTTGTAGCTGT GGCAA	TGGAAGCATGATCCT AACA	59.4	477	INTERGENIC	--	--	--
Ca1_P1_46633354	Ca1	46633354	GTATATATATATATATATAT/GTATA TATATATATATATAT	CGACATGGCTCTGATA CCAA	TCAGACCGCTTTACC AATC	59.7	615	INTERGENIC	--	--	--
Ca1_P1_46662012	Ca1	46662012	AAT/AATAT	GCAATTACGTCGATAT TTATGAGTG	TCAGCCAAAAGCTGA TGTG	59.1	617	INTERGENIC	--	--	--
Ca1_P1_46728277	Ca1	46728277	ATTT/ATT	TTCTTTAACCTGGCCA AACG	CCGTCTTCGAATCACC GTAT	60.1	681	DRR	Ca_25109	--	--
Ca1_P1_46782070	Ca1	46782070	AAT/AATTAT	CTCCCTTCTAATCCC CGAC	AATGTCTCAGACATC AGCG	59.9	829	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_46831943	Ca1	46831943	CTTT/CTTT	GTGGTTGGTTTGCAAG AGGT	AACTGGGTGAGAGCC TGAGA	60.0	725	INTRON	Ca_25116	U	--
Ca1_P1_46834640	Ca1	46834640	AATATATATATATATATATATATATATATATATAT/AAATATATATATATATATATATATATATAT	TGAATTACAGCTATAAA ACGAAGATAA	GATCAGGATGAACCG GAAGA	57.1	435	DRR	Ca_25116	U	--
Ca1_P1_46856347	Ca1	46856347	GCT/GCTGAACT	ATGCAATCCGATAAGC AACC	ACGATTTTAGAAGAGG CGCA	59.9	980	INTERGENIC	--	--	--
Ca1_P1_46867290	Ca1	46867290	CTT/C	GCCCTCAGATGAGAGT CAGG	CGTTTTTCAAAGCGAG GGTA	59.9	439	DRR	Ca_25118	--	--
Ca1_P1_46867363	Ca1	46867363	CTTT/CTTT	GCCCTCAGATGAGAGT CAGG	CAAACCTTTCATGCGG GTAT	59.9	836	DRR	Ca_25118	--	--
Ca1_P1_46900592	Ca1	46900592	ATTT/ATTTT	GATGCCTTGACCATCC TTGT	TGGGTACACGCATATT AACCAA	59.9	555	INTERGENIC	--	--	--
Ca1_P1_4690205	Ca1	4690205	CATATATATATATATATAT/CATATATA TATATATAT	GGCAAGCAATTCCAGT AGGA	ACTTTGACATCCACCC CAAC	60.2	524	INTRON	Ca_00553	F	--
Ca1_P1_46916401	Ca1	46916401	GATATATATATATATATATATA/GATAT ATATATATATATATATATA	CAGCAAGCACCAACCA CTTA	TTGCCAGTTATTTTG CAAGG	59.9	363	DRR	Ca_12949	--	--
Ca1_P1_46947905	Ca1	46947905	ATTATTTATTTATTTATTTATTTATTTA TTTATTTATTTATTTATTTATT/ATTATT TATTTATTTATTTATTTATTTATTATT TATTTATTTATTTATTTATT	CAAGCGACACTACAAG CCAA	CCCTACTCATACCCGT TACCAA	60.1	984	INTERGENIC	--	--	--
Ca1_P1_47009174	Ca1	47009174	TTCTTCTTCTTCTTCTTCTTCTTCTTC TCTTCTTCTTCTTCTTCTTCTTCTTC/ TTCTTCTTCTTCTTCTTCTTCTTCTTC TTCTTCTTCTTCTTCTTCTTCTTCTTC TTCTTC	TTACCCCATGCTGCCT AATC	TGCATCATGAAATT GGAA	59.9	585	INTERGENIC	--	--	--
Ca1_P1_47016631	Ca1	47016631	ACTCTCTCTCTCTCT/ACTCTCTCTCT CTCTCT	ATTGCCTCTCAGTCGC GTTA	AAAATTCGACATCGTG AGGG	60.9	531	INTERGENIC	--	--	--
Ca1_P1_47063529	Ca1	47063529	TTATATATATATATATATATAT/TTAT ATATATAT	GAATGTTGTCGTATGC CACG	CGCAAATCAAAGAA TTCAAA	60.0	711	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_47116478	Ca1	47116478	AATATATATATATATATATAT/AA TATATATATATATATATATAT	ACACGCTTCCTGTG ACAT	TAGGCTGAACTGG ATGAC	60.6	772	INTRON	Ca_12935	--	ERF
Ca1_P1_47124845	Ca1	47124845	A/ACACTCT	GAGACAGAGGATTGCC GAAG	CGGGTTGAAAATTAAT CGGA	60.0	459	DRR	Ca_12934	--	TALE
Ca1_P1_4714640	Ca1	4714640	AAG/A	AACGGTGATTATTTGG CGAC	TCACTTGTGCTTTTCG AGGA	59.8	795	DRR	Ca_00555	T	MYB_related
Ca1_P1_4720443	Ca1	4720443	AT/A	TCAGAGTTCATTGCAA ACGG	GGGATTCCCATTTTCC ATCT	59.8	691	INTRON	Ca_00555	T	MYB_related
Ca1_P1_47255442	Ca1	47255442	TTATATATATATATATATATATAT A/TTATATATATATATATATATATA	AACCTGTTCAACCCAT TTGC	GGCAGCAAAAGAACAA GGAG	60.0	512	INTERGENIC	--	--	--
Ca1_P1_47266775	Ca1	47266775	CATACTTCGTAATAAAA/CA	GAATGGACCTATTGCT TGTGC	CAATTGAAACGCAAT CCTT	59.4	409	INTERGENIC	--	--	--
Ca1_P1_4730002	Ca1	4730002	TAAAAAAAAA/TAAAAAAAAA	TCGAGATCAAATCACC GGAT	CCCCAACACTTTAAGT CGGA	60.4	429	INTERGENIC	--	--	--
Ca1_P1_47314380	Ca1	47314380	AATTATTATTATTATTATTATTATT ATTATTATTATTATTAT/AATTATTATTA TTATTATTATTATTATTATTATTAT TATTATTAT	CCGTAGGAATTGCATG TTTG	GATCAGACCTAAGCAA CGGG	59.0	669	INTERGENIC	--	--	--
Ca1_P1_47418486	Ca1	47418486	TTATATATATATATATAT/TTATATAT ATATATATATATATAT	CACTGATTGACAAGCA CCTCA	AAGCCACGTTTCAAA TGAC	59.9	288	DRR	Ca_12915	--	WRKY
Ca1_P1_4742142	Ca1	4742142	TAAA/TAA	GACCGCGTAGATGTGG AACT	GGATGAGACCTCCTAC TTGCC	60.1	677	INTERGENIC	--	--	--
Ca1_P1_47455552	Ca1	47455552	TTAATAATAATAATAATA/TTAATAAT AATAATAA	TTGGGGTCAGTCAAA ACAA	CGGTGAAATAGGTATG CCAAA	60.0	600	INTERGENIC	--	--	--
Ca1_P1_47455633	Ca1	47455633	GAAAAAAAA/GAAAAAAAAA	TTGGGGTCAGTCAAA ACAA	CGGTGAAATAGGTATG CCAAA	60.0	600	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_47464200	Ca1	47464200	TTATATATATATATATATATAT/TTAT ATATATATATATATATATATAT	AGTTTCCGCCGATAAG GAAT	GAGAGTCATCGGCTG CTACC	59.9	416	INTERGENIC	--	--	--
Ca1_P1_47478012	Ca1	47478012	AATTATTATTATTATTATTATTATT ATT/AATTATTATTATTATTATTATT ATTATTATT	CCGGTAAATCTGTAGC TCACG	TGACTATTGCAATCAA AACCTCTT	59.8	283	INTERGENIC	--	--	--
Ca1_P1_47498704	Ca1	47498704	ATTTTTTTTT/ATTTTTTTTTT	TGTTGGGGTGACATGT GATT	CACAAAACGACAACAT GCAA	59.7	427	INTERGENIC	--	--	--
Ca1_P1_47533952	Ca1	47533952	TG/T	TTCACAAAACCCGT AGAG	TTTCCCGACCATGTCC TTTA	60.0	363	INTERGENIC	--	--	--
Ca1_P1_47580698	Ca1	47580698	ATTTTTTTTT/ATTTTTTTTTT	TTTGAATTAGCCAAGG GTCTG	TCGATTGCAAAATGGAT GTCA	60.1	615	INTERGENIC	--	--	--
Ca1_P1_47630703	Ca1	47630703	TAAAAAGAAAAAGAAAAAGAA/TAAA AAGAAAAAGAAAAAGAAAAAGAAA	CGTGTCCGGCAAGTA AAAT	GTGATGCACGCAGTAA TTGG	60.0	517	INTERGENIC	--	--	--
Ca1_P1_47630977	Ca1	47630977	AC/ACC	GGCCTTCCATCGTGAA TAAA	TTTGAATTCCAGAAC TGCC	59.9	916	INTERGENIC	--	--	--
Ca1_P1_47673639	Ca1	47673639	CTTTTTTTTT/CTTTTTTTTTT	GGTTTATGAATTGAAC CGCA	TTTCATGGTGCAAAAT CGAA	58.5	549	INTRON	Ca_12903	--	--
Ca1_P1_47676057	Ca1	47676057	ATTTTTTTTT/ATTTTTTTTTT	AATCCCTCCCTGCCTA AAAA	ATGTGGTGGTCCAATC AACA	59.9	619	INTRON	Ca_12903	--	--
Ca1_P1_47680022	Ca1	47680022	C/CATATATATA	TCCACTACTGGCTTTT ATTGG	TCGACTCACCAAAGCT ACAAA	58.3	849	INTERGENIC	--	--	--
Ca1_P1_47680035	Ca1	47680035	CATATATATATATATATATATAT/CA TATATATATATATATATATAT	TCCACTACTGGCTTTT ATTGG	TCGACTCACCAAAGCT ACAAA	58.3	849	INTERGENIC	--	--	--
Ca1_P1_47731732	Ca1	47731732	AATATATATATATATATATATATAT/ AATATATATATATATAT	GAGAGTCAAGAAAGGT CGCC	TCATTGTGGTTGTGG GATG	59.0	689	INTERGENIC	--	--	--

[illegible]

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_48236817	Ca1	48236817	TAA/TA	TGGGTGTTGCCATAT ATCA	TTTGGATCCATTTCATT TGATT	59.6	626	INTERGENIC	--	--	--
Ca1_P1_48245778	Ca1	48245778	TAAAAAAAAAAAAA/TAAAAAAAAAAA AA	CGGCCCTATTCATGTT TGTT	TGTGGAGGAAAGGAG GTGTC	59.8	484	DRR	Ca_12858	--	--
Ca1_P1_48277687	Ca1	48277687	TTTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTAT TATTATTATT/TTTATTATTATTATT ATTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATT	TCCTTCTTTGGAAGAG GCAA	ACCGTGCCCTACTACC ATGA	59.9	662	INTERGENIC	--	--	--
Ca1_P1_48318880	Ca1	48318880	AATATATATATATATATATATATAT/ AATATATATATATATATATATAT	CGCCTTTATTGTGAGA TTCCA	GGTGGTCTAACCCGAT TCATT	60.1	480	INTERGENIC	--	--	--
Ca1_P1_48331419	Ca1	48331419	AATTATTATTATTATTATTATTATT ATTATT/AATTATTATTATTATTATT ATTATTATT	CATTGCGTTGTGCACAA AATCA	AAGTAACCTGGCACCAC CAGG	60.6	395	INTERGENIC	--	--	--
Ca1_P1_4837643	Ca1	4837643	GAATAATAATAATAATAATAATAA TAATAATAATAATAATAATAATAAT AA/GAATAATAATAATAATAATAAT AATAATAATAATAATAATAATAATA ATAATAA	ACCAAAAACTTGACTT GCC	TATTTCTGCCACGC CTAC	59.1	208	INTERGENIC	--	--	--
Ca1_P1_4933923	Ca1	4933923	CATGATGATG/CATGATGATGATG	TGCCTAGGATGAGAG TGCT	GGACATCCTCCTCCAA CTGA	60.0	252	CDS (large-effect mutations)	Ca_00581	--	--
Ca1_P1_4934416	Ca1	4934416	ATTATTTGTTAATGTTATTT/ATTATT TGTTTAATGTTATTTGTTAATGTTAT TT	AGCCTCAGATGGAGGA GGAT	AGGCCGAAGAAAGAG GTAGC	60.2	653	DRR	Ca_00581	--	--
Ca1_P1_4957879	Ca1	4957879	CAAAAAAAAA/CAAAAAAAAA	TCATGACAAATGCAAAAT CGAC	TTATTCGTGTGTGCCT TGGA	59.5	459	DRR	Ca_00586	T	WRKY
Ca1_P1_5106336	Ca1	5106336	CT/CTCTAT	CGAGTGATTTGCTTCA TTGG	TGTTACGCATTGTTTG GGAA	59.3	651	INTERGENIC	--	--	--
Ca1_P1_5252022	Ca1	5252022	AACAC/AAC	GGGAGGGGTCTAAGG TTCAG	TCGACCATCATTGCCA AATA	59.9	924	DRR	Ca_00613	--	--
Ca1_P1_5275130	Ca1	5275130	AATATATATATATATA/AATATATAT ATATATATATA	CCATTCTCACCCGCAA TAGT	CCAGCCTCAAATCATC CCTA	60.0	445	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_5344971	Ca1	5344971	CATAGT/C	CATGGGGATTGGAATC CTGG	ACATAAATGGCTCTCG GTGG	60.0	632	DRR	Ca_00621	J	--
Ca1_P1_5350735	Ca1	5350735	AATATAT/AATAT	CGTCTACCAACAATC CTGCC	GGCAAGCTATGCAAGT CACA	59.5	632	INTERGENIC	--	--	--
Ca1_P1_5351038	Ca1	5351038	CATATATA/CATATATATATA	TGTGGCAGACAGCCAA CTAA	TTTGGCAATCGAAAT TGTG	60.4	607	INTERGENIC	--	--	--
Ca1_P1_5375317	Ca1	5375317	A/AAAAGTTT	TATGATGTGCTTGTGG AGCC	GCCTAATAAGCCAAC CCAT	59.7	515	INTERGENIC	--	--	--
Ca1_P1_5376097	Ca1	5376097	ATGGTGGTG/ATGGTG	AAAAGATTAGTGGCTG CCGA	TTTGTGGTGGTCAAAG TCCA	59.8	219	INTERGENIC	--	--	--
Ca1_P1_5392823	Ca1	5392823	TCA/T	TATTTGGCATTGGTGG TTGA	GAGGCCATGTCAAGG AAGTT	59.8	829	INTERGENIC	--	--	--
Ca1_P1_5393298	Ca1	5393298	ATTTTTTT/ATTTTTTTTT	AACTTCCTTGACATGG CCTC	TGATGTTGTTGGAGAT GGAAA	59.1	505	INTERGENIC	--	--	--
Ca1_P1_5396397	Ca1	5396397	CATATATATATATATATATATAT/CA TATATATATATATATATATAT	GCTTTAGGCCCAACA AAAA	AGTTGGTGGCCATTGC TAAG	59.2	570	INTERGENIC	--	--	--
Ca1_P1_5403862	Ca1	5403862	C/CTTTATTATT	ACGGTTGACTAATTGT GCCA	TCGCATCCCTACGATA CGAT	59.1	629	DRR	Ca_00627	--	--
Ca1_P1_5419424	Ca1	5419424	C/CA	TTTGTGGTGGACTCCA ATGA	AAAGCAATTGCCCCCT AAAT	59.9	581	INTERGENIC	--	--	--
Ca1_P1_5422335	Ca1	5422335	TA/T	CGGTGAGGGTTACTTT AGAAAAGA	TGGTTTTTACTCATCG CACA	60.1	782	INTERGENIC	--	--	--
Ca1_P1_5423307	Ca1	5423307	CTTTT/CTTTT	CGGGGTAGTTTTGTGTA TTCCC	GGTGACGCCTTTTAAT TTGC	59.6	640	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_5425033	Ca1	5425033	TTTTATT/TTTTATTATTATT	TCACGGTGAAAGTTCT GTGC	AAATCCCAATAAGCA GGCA	59.9	427	INTERGENIC	--	--	--
Ca1_P1_5425222	Ca1	5425222	CTTATT/CTTATTATT	TCACGGTGAAAGTTCT GTGC	TCCCGAACCTGTGAG GTTAT	59.9	864	INTERGENIC	--	--	--
Ca1_P1_5425431	Ca1	5425431	TAA/TAAGAA	TGCCTTGCTTATTGGG ATT	TCCCGAACCTGTGAG GTTAT	59.5	457	INTERGENIC	--	--	--
Ca1_P1_5426267	Ca1	5426267	TTATATATATATATATATATAT/TTAT ATATATATATATATATATATAT	ACCAACCGACCCACTT GATA	TCAAACACACGAGATG GTCC	60.2	317	INTERGENIC	--	--	--
Ca1_P1_5428904	Ca1	5428904	TCACA/TCA	TTAATGGGTAGTGGG TGGA	TTTCAGCGGTGCAC TGAG	60.0	839	INTERGENIC	--	--	--
Ca1_P1_5437282	Ca1	5437282	CATATATATATATATATATATA/CAT ATATATATATATATATATA	TGCAATGTTAATTAAG CGGG	GAAGTGCATTGTGATG GGTG	58.7	456	INTERGENIC	--	--	--
Ca1_P1_5454188	Ca1	5454188	GCAGGGAAT/G	GAGAATCCAGCACAG CCTC	ACACGTCTTTCCGA ACAC	60.0	415	INTERGENIC	--	--	--
Ca1_P1_5454590	Ca1	5454590	TA/TATAA	GTGTTCGGAAAAGGAC GTGT	AATGGTCCCAGTTCAA CCAC	60.0	655	INTERGENIC	--	--	--
Ca1_P1_546650	Ca1	546650	TATCTTCATTTGA/T	TGAAATTTTAAACAAC AAACCCA	TTGTAAACGTTTGCCG ACAC	59.7	420	INTERGENIC	--	--	--
Ca1_P1_5471011	Ca1	5471011	ATTGTT/ATT	GTTGAGGTGGGTTGTG GACT	CACAGGATGTCGGGA AAGAT	59.9	566	INTRON	Ca_00632	O	--
Ca1_P1_5481892	Ca1	5481892	AACAAGTGGA/AA	ACATGGTATCATTCAC GGCA	GTGTTTCGATCCGGAT TTGT	59.8	711	DRR	Ca_00633	--	S1Fa-like
Ca1_P1_5484796	Ca1	5484796	TAA/TAAA	CGCGCGTTGTGTTTAT AAGT	TTACCAAGATTGCCCC TCTG	58.9	444	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_5491696	Ca1	5491696	GTATCTG/GTATCTGGCTATCTG	GTTTCGGTAACTGCCT GCAT	CTGCAATTCAGCCTC ACAA	60.1	375	INTRON	Ca_00634	--	--
Ca1_P1_5493909	Ca1	5493909	CAAAAA/CAAAA	TGGTTCAGGCTGTGAA CAAG	GACCAACCACCACCTA GCAT	59.9	585	INTRON	Ca_00634	--	--
Ca1_P1_5495609	Ca1	5495609	C/CAA	TACTCAATCACGCCTT GCTG	TTTCATTGTGGGTC CAAT	60.0	184	DRR	Ca_00634	--	--
Ca1_P1_5500920	Ca1	5500920	CTAT/CTATAAACGTCATAT	GGAAGGGAATCGATGA GAAA	TATTCATTGGTTGGGG GAAA	59.1	456	INTERGENIC	--	--	--
Ca1_P1_5529052	Ca1	5529052	AT/ATGT	AGCCCGTGAGCATACA GTTT	ATCCATCCCACAACCTC AAGC	60.3	599	INTERGENIC	--	--	--
Ca1_P1_5531229	Ca1	5531229	CAGATAAGATAA/CAGATAA	TGCTTCTCTTGGCTTTT TCC	CCAAACTTCCCACATT GGAG	59.6	265	INTERGENIC	--	--	--
Ca1_P1_5611256	Ca1	5611256	ATTTTTTTTT/ATTTTTTTTT	TCTCAGAACCGACACT GTTCA	TGAATTCAGGTGAGCG TGAG	59.5	886	INTRON	Ca_00645	--	G2-like
Ca1_P1_5616025	Ca1	5616025	CTATATATATATATATATATA/CTATAT ATATATATATATATATA	TTCTCGAGAGAGACAA TCCGA	TTCTTTTAAATGTCTG CGGG	60.1	495	DRR	Ca_00646	--	--
Ca1_P1_5672055	Ca1	5672055	TTATATATATATATATATATAT/TTAT ATATATATATATATATATAT	AAAAGCTTCAAAACCC CCCT	GAATGGTGACTTCACG AAGGA	60.0	560	INTERGENIC	--	--	--
Ca1_P1_5679064	Ca1	5679064	GTATTATTATTATTATTATTATTATT TATTATTATTATTATTATTATTATT ATTATTATT/GTATTATTATTATTATTAT TATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATT	GAATAAGAGGTGCGGC AAAA	ATTGAGCAATTGGGA GCAA	60.2	656	INTERGENIC	--	--	--
Ca1_P1_5689290	Ca1	5689290	AATATATATATATATATATATA/A ATATATATATATATATATATATAT ATATA	TAGAGGAGGGCGACTT TCAA	TCTCAGAGCACATATA TTTCAAGGA	59.9	671	INTERGENIC	--	--	--
Ca1_P1_5710967	Ca1	5710967	GATAT/GAT	TCCTCCAATGCTTTTG GAAC	GTTGCAAGAAATCCG CAAT	60.1	471	CDS (FRAME SHIFT)	Ca_00663	K	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_5741642	Ca1	5741642	CACACATA/CA	ATCCCTCAATTTCCCA ACC	ATCTAACGTGGTCGTC CTGC	60.0	927	INTERGENIC	--	--	--
Ca1_P1_5803481	Ca1	5803481	TTAAGATAAGAT/TTAAGAT	GCTCATGAGTTCCTCA CCCA	GTCAGGGGCTCGTGT ATGAT	60.1	560	INTRON	Ca_00671	O	FAR1
Ca1_P1_5804081	Ca1	5804081	AT/ATT	AATAACACGGGCACAA GAGG	AGGTCCACCAGTTTG TCAG	60.0	457	INTRON	Ca_00671	O	FAR1
Ca1_P1_5809942	Ca1	5809942	TAAAAAAAAA/TAAAAAAAAA	TGTGGAGATGGGAGCA TACA	CACCTCCGGCCTTTTA TTGA	60.1	463	INTERGENIC	--	--	--
Ca1_P1_5843197	Ca1	5843197	GAAAAA/GAAAAA	GTGTCGGGAGGTGTT GGTAT	TTGATCCTCGTGTCAA TCCA	59.7	126	INTERGENIC	--	--	--
Ca1_P1_5875747	Ca1	5875747	TTAATTTAAATT/TTAATTTAAATTAAT AATTTAAATT	TGATGGATGTCCTGGA AACA	CATCCATGCAAAGCA GAGA	59.9	504	INTERGENIC	--	--	--
Ca1_P1_5904030	Ca1	5904030	TAAAAAAAAA/TAAAAAAAAA	ACACCTTGCCTTTAGG GTCA	CGGCACCTCTAAACCA ACAT	59.6	423	INTERGENIC	--	--	--
Ca1_P1_5951191	Ca1	5951191	ATTTTTTTTT/ATTTTTTTTT	AGTTTGAAGGAATTGT TGACCA	ACCCCAACCCACACTT ATGA	58.6	699	INTERGENIC	--	--	--
Ca1_P1_5955465	Ca1	5955465	AATATATATATATATATATATATA/A ATATATATATATATATATATATATA	TGCAGTGAAGTGTTG TTGA	GAACGAGGTCGGCAA AAGTA	58.8	686	INTERGENIC	--	--	--
Ca1_P1_6015644	Ca1	6015644	CTATATATATATATATATATATATAT ATATATATATATATATATATATATA TATATATATATATATATATATATATA TAT	AAATTTGAAGTCGCTG TTTGC	TGACCTCAAGTTTGCA GCAC	59.4	562	DRR	Ca_00689	I	--
Ca1_P1_6105440	Ca1	6105440	GTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATT TATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATT	ATGTGGCAAAAGAGGA GGAA	GGGATGCGACCTTGTA CTGT	59.7	396	INTERGENIC	--	--	--
Ca1_P1_6128515	Ca1	6128515	ATTTTCTTTTCTTTT/ATTTTCTTT TTT	ATGGAAATGGATTGGA CCAC	TCCGACCAAGATACAT GACG	59.5	567	DRR	Ca_00697	P	WRKY

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_6132213	Ca1	6132213	TAA/TAAA	TTTGCATATGCTCCAT CCA	ATAGACATGGCCGGTC TTTG	60.0	519	DRR	Ca_00698	--	--
Ca1_P1_6136087	Ca1	6136087	AATTATCTTAAGAGATA/AATTATCTTA AGAGATATTATCTTAAGAGATA	TGCAATTCCGTTGTT GATG	TGACATTTTACCGCCA TTCA	59.5	907	INTERGENIC	--	--	--
Ca1_P1_6137600	Ca1	6137600	T/TC	TCTCATAGAAGCGAC GGTT	CATTTCGGAGCCAGT AAAA	59.8	412	INTERGENIC	--	--	--
Ca1_P1_6157606	Ca1	6157606	A/AT	TGGAGTGTCAATGAGG ACCA	GGAACGTTACATGACC GGAA	60.1	789	INTERGENIC	--	--	--
Ca1_P1_6158982	Ca1	6158982	TA/TAA	GAGATTA AATTGTCGC GGTTT	GGGTTGATACGGGATT GAAA	58.3	606	DRR	Ca_00701	T	M-type
Ca1_P1_6163758	Ca1	6163758	G/GTTTCTTAAATACAAA	TCTTTCATGTAGGATG CGATAAA	ATGGAACCTCCACTC ATGG	58.8	767	INTERGENIC	--	--	--
Ca1_P1_6166074	Ca1	6166074	TA/T	AACGTGACACATTGCG ACTC	CTTTGGTTCCAACGTA TAGTTTTT	59.8	862	INTERGENIC	--	--	--
Ca1_P1_6166331	Ca1	6166331	ATGTGT/ATGT	AAATCACAAGCATGAA CTCTTCTTT	CCATATTCCTCTGATG CTTACCA	59.7	827	INTERGENIC	--	--	--
Ca1_P1_6174612	Ca1	6174612	TTAT/TTATAT	CCTCTCATCCACATCC ATCC	GATATCCATCGGCTTA CGACA	60.3	538	INTERGENIC	--	--	--
Ca1_P1_6176982	Ca1	6176982	A/AAT	GGTGGTAATAGTTCAG CCCG	AATCTTTGCCAATGGT TTGT	59.5	564	INTERGENIC	--	--	--
Ca1_P1_6178179	Ca1	6178179	ATTTTAATTTTAATT/ATTTTAATT	AATTTTGGCATGCGAC TACC	TTTCCTTCCCAATATCT GCC	60.0	514	INTERGENIC	--	--	--
Ca1_P1_6202713	Ca1	6202713	CTTTTT/CTTTTTT	CGCTTCCTTCTTCACA CACA	AAAAGGCAATACATCC AATCAA	60.0	640	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_6203281	Ca1	6203281	GTTTTTTTT/GTTTTTTTTT	CTCCTTGAGTTTGAG ACACGA	TCGATTATGCGTAGGG AAGG	59.5	453	INTERGENIC	--	--	--
Ca1_P1_6204822	Ca1	6204822	AAGA/AA	TGGTTTGGTTGCATCA CTTT	TCGAAATTTGTGTCC AAAAGA	59.0	543	DRR	Ca_07880	T	--
Ca1_P1_6205233	Ca1	6205233	CAAAAAAAAA/CAAAAAAAAAA	GGGTATTGGATAAAAA TTTCAAAAA	TGAAATTAAGGGACG GGTTT	58.7	604	DRR	Ca_07880	T	--
Ca1_P1_6206568	Ca1	6206568	CTTTTT/CTTTTTTT	TTATGCTTCAACCACT GCG	TGTCGGATAAGTGTGA TATATTCG	59.9	747	INTERGENIC	--	--	--
Ca1_P1_6212978	Ca1	6212978	AATATATATATAT/AATATATATATAT T	GTGCGCAGTACAATTC TCCA	CAACCGCTCCCAAATA GAAA	59.9	573	INTERGENIC	--	--	--
Ca1_P1_6214084	Ca1	6214084	TAAACTAATTTTTAATTGAACTA/TA AACTAATTTTTTAATGAACTAATTTT TTAATTGAACTA	TGTCACCGTTATACGA GTTTTAGA	TTGGCGTAGTGAAACG AACA	58.0	618	INTERGENIC	--	--	--
Ca1_P1_6219100	Ca1	6219100	TTACGGTAT/TT	TGGGAAACTTGTTC ATGAG	TTGATCTCCACATCAC CAAGA	60.0	587	INTERGENIC	--	--	--
Ca1_P1_6226167	Ca1	6226167	CT/CTT	CCTATTCGCCTTGCA TTGT	CAACCATGTGTCAAAC CAGG	60.1	385	DRR	Ca_07881	S	bZIP
Ca1_P1_6262149	Ca1	6262149	TATGTATAATGTATAATGT/TATGTATA ATGT	CATCACAACCATTCTC CCCT	CGTTGCGTTTGAATTC TGTG	59.8	576	DRR	Ca_07886	--	--
Ca1_P1_6267078	Ca1	6267078	GAAA/GA	TTTCTTGCACTGTTTT GTGC	TGGGTCCTCATTGTA CTCC	59.9	560	INTERGENIC	--	--	--
Ca1_P1_6268048	Ca1	6268048	GAACA/GAACACTAATAACA	ATTAGCCGTGGCAGTG TAGG	TAACATGTGCTTTCGG TTGC	60.2	446	INTERGENIC	--	--	--
Ca1_P1_6269904	Ca1	6269904	CAGAAC/CAGAACAGATAGAAC	AACCACTATTATGGCG GTGC	CAGGAATCTCTGCCAC ACAA	59.9	415	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_6277414	Ca1	6277414	ATT/ATTT	TACTCCCATCCATGCA ATCA	CCAATATGGAGTCCAC GTCA	59.9	491	DRR	Ca_07888	--	--
Ca1_P1_6279076	Ca1	6279076	CAGAAGAAGAAGA/CA	TCAATCGCGAAATGTG GATA	ATCACCGGCGTTTCTG TTAC	60.0	783	DRR	Ca_07888	--	--
Ca1_P1_6284031	Ca1	6284031	CATATAT/CATAT	CCTCACTCCTCCCAAC AAAA	CCTTTCGAGATGCTGG ACTC	60.1	484	INTERGENIC	--	--	--
Ca1_P1_6286237	Ca1	6286237	CAAAAAAAAAAAAAA/CA AAA	ATGCAGGCAAGAACAA ATCC	TTAGGATTCATAATCG CGGC	60.1	713	DRR	Ca_07889	--	--
Ca1_P1_6293780	Ca1	6293780	TAAA/TAAAA	ACACACTGATCGATGA TCCC	TATCTTTTTGGTGGGC CAAG	58.3	716	INTERGENIC	--	--	--
Ca1_P1_6294144	Ca1	6294144	TAAAAA/TAAAAA	CTTGGCCCAACAAAA GATA	GGGGATGAATGAAAA CACG	59.9	351	INTERGENIC	--	--	--
Ca1_P1_6298941	Ca1	6298941	GTT/GTATTT	CTCGTCGTCGTCGTA ATTA	TTCAATGACATGATTG GAGACTTT	59.9	110	DRR	Ca_07890	--	--
Ca1_P1_6311246	Ca1	6311246	GTTATTATT/GTTATT	CGGAGAACCAATCACT CACA	TGCAGTCAACAGTCAC AAAAA	59.7	457	INTERGENIC	--	--	--
Ca1_P1_6311738	Ca1	6311738	ATAGT/AT	TTTTTGACTGTTGA CTGCAT	TTTCCCTCATCGTT TGTC	58.3	275	INTERGENIC	--	--	--
Ca1_P1_6313903	Ca1	6313903	TAAA/TAAAA	GGAGTCTTGTGTCATG TGCAA	TTACAGTGCTTTTAAT TTTGTC	59.7	529	INTERGENIC	--	--	--
Ca1_P1_6314409	Ca1	6314409	ATAAATAAT/A	CACAAAATTAAGCA CGTGAA	GCGACATACGAAACGA GGAT	59.2	592	INTERGENIC	--	--	--
Ca1_P1_6316633	Ca1	6316633	CATA/C	CTGTTGGAGCTGAGGT GACA	CTAATGGCGTTACGC AAAT	60.0	296	INTRON	Ca_07892	B	MYB_related

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_6317430	Ca1	6317430	TTAAAG/TTAAAGCCATAAATAATAAA G	GCTGAGCATGTTGGAA CAA	AAGATCCCCCATGGAA ACTC	59.8	606	INTRON	Ca_07892	B	MYB_related
Ca1_P1_6321573	Ca1	6321573	TTATATATATATATATATATATATAT/ TTATATATATATATATATATATATAT ATATAT	CAGGTAATTGCAGAAT GGGG	TTTTCATGGCACATT GGTG	60.3	697	DRR	Ca_07892	B	MYB_related
Ca1_P1_633425	Ca1	633425	AATATATATATATATATATATATATA TATATATATATATATATATATATAT ATATATATATATATATATATATAT	GGACCACGAATGTAAT TTAGCC	TCGCATCAACAATAAT GCCT	59.7	652	INTERGENIC	--	--	--
Ca1_P1_6337777	Ca1	6337777	CATACAATACAA/CATACAA	CGGACACAAGCCTCTC TCTT	TTTTATTTTGACCCAAT CAACG	59.6	674	INTERGENIC	--	--	--
Ca1_P1_6337857	Ca1	6337857	TAAAAA/TAAAAA	CGGACACAAGCCTCTC TCTT	TTTTATTTTGACCCAAT CAACG	59.6	674	INTERGENIC	--	--	--
Ca1_P1_6338411	Ca1	6338411	AAATTAA/AAA	CAACGTTGATTGGGT AAAA	CCCTTCATACACGGAC CATC	59.4	662	INTERGENIC	--	--	--
Ca1_P1_6345643	Ca1	6345643	AATGATGATGATGATGATGATG/AATG ATGATGATGATGATGATGATGATG GATG	CACCTTGTTACACAC ACCC	TTTGTGCCAATGTG TTTCA	59.9	450	CDS (large-effect mutations)	Ca_07895	--	--
Ca1_P1_6352421	Ca1	6352421	CTATATATATAT/CTATATATAT	TCAACAATCGAATCAAA ATCAAA	ACGGATTGTAGAACCG TTGG	59.5	872	DRR	Ca_07897	--	--
Ca1_P1_6362852	Ca1	6362852	TC/T	AGTTTGAGCGCATGT TTCT	TTGTGTGTCGTAGTCC CCAA	59.9	358	INTERGENIC	--	--	--
Ca1_P1_6363129	Ca1	6363129	CAATAATAATAATAAT/CAATAATAA ATAATAAT	TTGGGACTACGACAC ACAA	GATATTGAGGTGGCG GCTAA	60.0	558	INTERGENIC	--	--	--
Ca1_P1_6374117	Ca1	6374117	CAA/CA	TGCCATTCAAAAATAA GGCA	TCCATCTTGGACCAAT CTCA	59.1	792	INTERGENIC	--	--	--
Ca1_P1_6374330	Ca1	6374330	AAAGAAGAAGAAGAA/AAAGAAGAAG AA	CAAAATGATGGACACC CTTG	TCCATCTTGGACCAAT CTCA	58.8	291	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_637710	Ca1	637710	ATTTTTTTTT/ATTTTTTTTT	GCCCAATACCTTGCC ATAA	TGAGCAGATTTAACCC CAAAA	59.8	672	DRR	Ca_00074	--	--
Ca1_P1_6403212	Ca1	6403212	AA/AATAATA	TCACGCACGTTAACT TCCA	TGCACCGACCTACACA CAIT	60.3	501	INTERGENIC	--	--	--
Ca1_P1_6408616	Ca1	6408616	CTATACA/CTATACAATTATACA	GGTCATGCACTACCAC ATGC	GGTCTCACTTGCCTT CTGG	60.0	438	INTERGENIC	--	--	--
Ca1_P1_6426099	Ca1	6426099	AAAA/AAAATAAA	TCAAATTTACGTGCGG TTTG	AGCGGATGGTGAGAA AGAAA	59.6	395	INTERGENIC	--	--	--
Ca1_P1_6429504	Ca1	6429504	AATTA/AA	ATGGGTTTAACTCGTG GTGC	TTGTAGGGGTTGGAAA ATCA	59.9	816	INTERGENIC	--	--	--
Ca1_P1_6444712	Ca1	6444712	A/AG	GTGAAGGTCTTTCGAC GCTC	TGTTCTGGCTAAATG CTGA	60.0	531	DRR	Ca_07908	K	Trihelix
Ca1_P1_6453816	Ca1	6453816	AT/ATT	GGTCTTGCTGACCTTG AAGC	CACGTAAATCTCTA ACGATGAA	60.0	644	DRR	Ca_07909	--	Trihelix
Ca1_P1_6454462	Ca1	6454462	T/TGTA	TTTCGTGTGCAACGTA GGAT	TGCGTTGTGTAATTG GAAG	59.2	521	DRR	Ca_07909	--	Trihelix
Ca1_P1_6461935	Ca1	6461935	AAAA/AAAATAAA	AAACAAAGTATCAACG CGGC	TGGGAAATTTTGTGT CGTG	60.1	612	INTERGENIC	--	--	--
Ca1_P1_6464068	Ca1	6464068	GAA/GA	AGCCTGAAATGTCTAC CCACA	TAGGGGTATTCGTGGT GTGC	59.6	708	INTERGENIC	--	--	--
Ca1_P1_6467793	Ca1	6467793	GGAG/GGAGAG	AAAGGGCAAGATTGT CCAC	AAGGATAATGTGTTT CCCC	59.0	197	DRR	Ca_07910	S	--
Ca1_P1_6476072	Ca1	6476072	GAAT/GAATTAAT	CAATTCAAACCCCTT CCTT	AAATGATGCTCAAGCG ACAA	60.2	623	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_6525194	Ca1	6525194	TCACACA/TCACACACA	ATGGACCTGCAATCAC ACAA	AAGGCCTACCAATCCC AATC	60.0	611	INTRON	Ca_07917	I	Trihelix
Ca1_P1_6532843	Ca1	6532843	CAAA/CAAAA	CAGCACCGATATTGAT AAGCA	TTTTTGGCTCCTACCA CCAC	58.8	396	INTERGENIC	--	--	--
Ca1_P1_6535430	Ca1	6535430	GTTATAGTTTTTATAGTT/GTTATAGTT	GCGATGATCGATGACA CTCTT	CAAAGTCGAGTATCAC CGCC	60.2	236	INTERGENIC	--	--	--
Ca1_P1_6535635	Ca1	6535635	TA/TATACA	CACTCAATGGTGGCAC ACTC	CAAAATTGTAAAATGA TTGGTGCT	60.2	480	INTERGENIC	--	--	--
Ca1_P1_6541418	Ca1	6541418	TAAA/TAA	CTGCAGGGAAAATTTT GGAA	ATGGAGTTCTGTCCTG GTGG	60.0	622	INTRON	Ca_07919	R	bZIP
Ca1_P1_6543503	Ca1	6543503	AAAGAAG/AAAGAAGAAG	ACGTGATTCTGCCAA CTCC	TATGGTAATCCCTCAC CCCA	60.1	579	INTERGENIC	--	--	--
Ca1_P1_6546764	Ca1	6546764	TCCCC/TCCC	TGGGACATGGCATCTC ATAA	ATTCCAACCACCGCT ATTG	59.9	265	INTERGENIC	--	--	--
Ca1_P1_6553971	Ca1	6553971	GAAAAA/GAAAAA	TTGTTTTATCCGCATCT CCC	CGGGGATGGTATACT GGATG	59.9	371	INTRON	Ca_07920	P	MYB_related
Ca1_P1_6565458	Ca1	6565458	CCTGTCTCAACTGT/CCTGT	GACTGCTGCTGGACAA ATGA	CATAGCATGCTCAGCC AAAA	60.0	654	INTRON	Ca_07921	H	--
Ca1_P1_6657702	Ca1	6657702	TTATATATATATATATAT/TTATATAT ATATATATATATATAT	CACCCCAATTCCAATC AAAC	ATGATTGTTTGCCTG GCTC	60.0	691	INTERGENIC	--	--	--
Ca1_P1_6847788	Ca1	6847788	TATT/TATTATTATAATT	GCGTATGGGTTGATT TGCT	GGAATGTGTACAGACA GTGG	60.0	738	INTRON	Ca_07951	U	--
Ca1_P1_6883190	Ca1	6883190	CTTTTTTTT/CTTTTTTTTTT	CGAAAATGATGAATAT GCGAA	CACTCCAATGCAATAG TCCAAA	58.6	688	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_6902783	Ca1	6902783	ATATTATTATTATTATTATTATT TATTATTAATATTATTATTATTATT ATTATTATTATTA	ATGAGTGGAGAATAC GCCG	GGACAGAACCTGCAT AGGA	60.1	669	INTRON	Ca_07956	--	bHLH
Ca1_P1_6965841	Ca1	6965841	CTTTTT/CTTTTTTT	GTTTTCGTTCTCTCCT CCCC	TGTCATCAGGGAAACC ACAA	60.1	759	INTERGENIC	--	--	--
Ca1_P1_6967420	Ca1	6967420	TAAAA/TAAAA	CAGCGACCACATTGTC TTTA	CCTATCCTTGTGATTC CCGA	59.9	353	INTERGENIC	--	--	--
Ca1_P1_6995429	Ca1	6995429	CTATATATATATATATATA/CTATATAT ATATATATA	TTTTACTCACTCACGT GTTTTCA	ATTCATCCCTCACAC CCAA	58.9	366	INTERGENIC	--	--	--
Ca1_P1_6999458	Ca1	6999458	TTATATATATATATATATATAT/TT ATATATATATATATATATATATAT	AACAACGGCTTTCATT GACTTT	TTTTCTGAAACAGG CAGT	60.0	795	INTERGENIC	--	--	--
Ca1_P1_7215414	Ca1	7215414	AA/AACA	AACCCCAACTACAAG GTCC	CAATTTGACAAGCCCC CTAA	60.1	639	INTERGENIC	--	--	--
Ca1_P1_7274145	Ca1	7274145	AATATATATATATATATATATATA /AATATATATATATATATATATATA	TGAATGAACTTTATCC TGCCA	CAGCGTGAACGACTTC AAAA	59.6	539	INTERGENIC	--	--	--
Ca1_P1_7422088	Ca1	7422088	GGAAGAAGAAGAAGAAGAAGAA GAAGAA/GGAAGAAGAAGAAGAA GAAGAAGAAGAAGAAGAA	AGAGCCACCACTTTCC TTCA	TCTCTCGAGATTCG TTTGTG	59.8	117	INTERGENIC	--	--	--
Ca1_P1_7423449	Ca1	7423449	CTTTTTTTTTTT/CTTTTTTTTTTT	CCATTGGTTGCTTGG TTTT	TTTGTCTATATGTTTG GTTCTTGA	59.8	118	INTERGENIC	--	--	--
Ca1_P1_7573998	Ca1	7573998	TAGAGAGAGAGAGAGAGAGAGAG AGA/TAGAGAGAGAGAGAGAGAGA GAGAGAGA	AAATGGGCAATGGATT GAAG	GAATTGGACCCAGAGA ACCA	59.8	260	INTRON	Ca_08012	--	--
Ca1_P1_7630412	Ca1	7630412	G/GACAAAA	TCGTTGCGAAGATAGT GTGG	AGCATGAGTTGCACAA GTGG	59.9	768	CDS (large-effect mutations)	Ca_08016	--	HD-ZIP
Ca1_P1_7634571	Ca1	7634571	GT/GTT	AAAGTGAATTGCTCAA TTTCGTC	AATTGACACGTGAAGA TTTGTTT	59.7	777	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_7634633	Ca1	7634633	ATTTTTTTT/ATTTTTTTTTT	TCCAGCACAAATACCT TTTTACC	TGAATTCGCGTTGTT GTGT	59.4	666	INTERGENIC	--	--	--
Ca1_P1_7635339	Ca1	7635339	ATGTCATCCCT/AT	GCACGCGTTTTCAATG TAGA	AAATGTCATCCCTCAG CGAC	59.9	207	INTERGENIC	--	--	--
Ca1_P1_7639400	Ca1	7639400	AAAAATAATAATAA/AAAAATAATA ATAATAAA	TCCGGAATTTGCAC CTAC	GGTCTGTTGCCCAAC AACT	59.9	287	INTERGENIC	--	--	--
Ca1_P1_7642434	Ca1	7642434	TA/TAA	TGCCACACAAAATCT TGGA	TAACCTACGCTTGTTG GGTC	60.1	219	INTERGENIC	--	--	--
Ca1_P1_7652722	Ca1	7652722	TAATTAATCAATCAATTAAT/TAATTAA T	CAAGCTTCAAAGTCG GAAG	CAGATCTTCGTCCCG ATAA	60.0	500	INTRON	Ca_08019	Z	--
Ca1_P1_7653498	Ca1	7653498	TAAAAAAAAAAAA/TAAAAAAAAAA	AGTGTGAGGGCATT TTGG	TGAGTCCAAAAGCATA AATGAGA	60.0	573	INTERGENIC	--	--	--
Ca1_P1_7654198	Ca1	7654198	AG/A	CAAAGTCATTTGGT GCACTT	CGGTAGACAAATCAG TGGG	60.1	280	INTERGENIC	--	--	--
Ca1_P1_7655351	Ca1	7655351	TA/T	ATCCGTGGTGAAATCT CGTC	TGGTGTTCATCCTTT TCAA	59.9	123	INTERGENIC	--	--	--
Ca1_P1_7655921	Ca1	7655921	ATTAAATTTAAATTT/ATTAAATTT	AAACGCTTTTAAATCT GCCA	ATTCCAATCTGGCAAT CAGC	59.8	929	INTERGENIC	--	--	--
Ca1_P1_7660688	Ca1	7660688	GAAAAAAAA/GAAAAAAAAA	TTTCTGATTGGTGAC TTGTTT	GGTGGTGGGTATCCT TTGA	59.1	205	INTERGENIC	--	--	--
Ca1_P1_7661306	Ca1	7661306	CTT/CTTT	AGTGTGAGCTTCTTTT CCGC	CACGAAATGAATAAAC AGACATTG	59.6	266	INTERGENIC	--	--	--
Ca1_P1_7661630	Ca1	7661630	GAAA/GAAAA	AGTGTGAGCTTCTTTT CCGC	TCCACACAAGAATCC ATCA	59.6	777	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_7665875	Ca1	7665875	TA/T	GAATGGAATCAATTGG GTGG	AGGAAGAGACCCAACA AGCA	60.0	256	DRR	Ca_08020	--	--
Ca1_P1_7669378	Ca1	7669378	AATAT/AATATAT	CGTTCCTTGCCTGTTG CTTA	ACTGTTGTGCAGTGAG TGGG	60.1	828	INTERGENIC	--	--	--
Ca1_P1_7671768	Ca1	7671768	ACCCC/ACCCCC	GGCCTTGAACGTTTAA CCAA	TGTCGTCATAAGGTGG TGGA	60.0	699	INTERGENIC	--	--	--
Ca1_P1_7675946	Ca1	7675946	GAAAAAA/GAAAAAA	TGAGACCCAAGTTAA TCCGA	AATCCAATAGTAGCC GCAA	59.6	632	INTERGENIC	--	--	--
Ca1_P1_7677005	Ca1	7677005	TCA/T	TTGCGAATGTCGACCT TAAA	TGAATTTTGTTCGCAT TTCATT	59.3	870	INTERGENIC	--	--	--
Ca1_P1_7677905	Ca1	7677905	CTATTATTATTATTATTATT/CTATT ATTATTATTATTATTATTATT	ATCGGAATCAAACAC TTCG	TGAGCCGGAATATTGA GATTG	59.9	567	INTERGENIC	--	--	--
Ca1_P1_7678036	Ca1	7678036	TAAAAAAA/TAAAAAAA	ATCGGAATCAAACAC TTCG	ACTTTGTCATCTGTGT GCGG	59.9	852	INTERGENIC	--	--	--
Ca1_P1_7687290	Ca1	7687290	ATT/AT	AATCGAACGAAGGCTG ACCT	AGGATGGACTTCATGC TTCC	61.2	126	INTERGENIC	--	--	--
Ca1_P1_7688188	Ca1	7688188	C/CTA	AAGCCAAAATAATAAG GCTCAAGA	CAATAAATGCCCTCAT CCGT	59.7	630	INTERGENIC	--	--	--
Ca1_P1_7688347	Ca1	7688347	T/TCAAAA	AAGCCAAAATAATAAG GCTCAAGA	AGCACAACAGGGATTT ACGG	59.7	895	INTERGENIC	--	--	--
Ca1_P1_7695907	Ca1	7695907	G/GC	CCAACACCAAACCTCGT TCCT	TGAAGAGATTGGCCTG CTTT	60.0	722	DRR	Ca_08022	--	GRAS
Ca1_P1_7699454	Ca1	7699454	CCA/C	GACAGAGACCAATCAT GCGA	GCAATGGGATAAAAAG GTGG	59.8	117	INTERGENIC	--	--	--

[illegible]

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_7778630	Ca1	7778630	CTTT/C	CCACACACATCAACCA CCAC	GGGCGATTGACTTGA GACAT	60.8	444	INTERGENIC	--	--	--
Ca1_P1_7781067	Ca1	7781067	CATTATTATTATTATTATTATT ATTATTATTATTAT/CATTATTATTAT TTATTATTATTATTATTATTATTAT TATTAT	CATGTGTGATTGGTGG GGTA	TCTGTGTGCAACGAAG GAAG	60.1	465	DRR	Ca_08030	--	GRAS
Ca1_P1_7781791	Ca1	7781791	CAA/C	TGCAATCTCCTTCACA CTCG	AAGTTGCTTTGTTTGA ACGC	60.0	324	DRR	Ca_08030	--	GRAS
Ca1_P1_7784640	Ca1	7784640	T/TG	ATTGGGCATGTTTCGT CTGT	TGGGTAGACCTCTTTG ACCG	60.4	411	INTERGENIC	--	--	--
Ca1_P1_7784813	Ca1	7784813	CA/C	ATTGGGCATGTTTCGT CTGT	TGGGTAGACCTCTTTG ACCG	60.4	411	INTERGENIC	--	--	--
Ca1_P1_7789823	Ca1	7789823	ATTTTT/ATTTTTTT	CAAAACGCGGGTTAAC ATCT	TGAAGGGAGGAGATTT GGTG	60.0	779	INTERGENIC	--	--	--
Ca1_P1_7790046	Ca1	7790046	AATATATATATA/AATATATATATATA	ATACCAAAAACTGTG CGGG	TGAAGGGAGGAGATTT GGTG	59.9	561	INTERGENIC	--	--	--
Ca1_P1_7790700	Ca1	7790700	AAAA/AAACTGCAAA	TCCATAATGTCAAGTTT TGAGCC	ACATCCACAGCACTTG CATC	60.4	949	INTERGENIC	--	--	--
Ca1_P1_7793042	Ca1	7793042	TAAAA/TAAA	TGATGAGACCGAGCAC TTTG	TGGAAAACTCAAGTGC CACA	60.0	353	INTERGENIC	--	--	--
Ca1_P1_7794125	Ca1	7794125	TA/T	TGATTGGGGGTGATG ATCT	TCATTGACCAAATTC CGGT	60.1	572	INTERGENIC	--	--	--
Ca1_P1_7810637	Ca1	7810637	G/GAA	AACGATTGGTTGAGAC CCAG	ACCTTGTGTCTATCTG GCCG	60.0	505	DRR	Ca_08031	--	FAR1
Ca1_P1_7811994	Ca1	7811994	C/CTAGAA	TGCACTGCTTTGAGTG GTTC	CGGTAAGTGTTTGTGC ATGG	60.0	291	INTRON	Ca_08032	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_7813845	Ca1	7813845	ACT/A	AACCAGAAGGCACACA GCTT	AAGCAGCTAGACTGCA AGCC	59.9	602	INTRON	Ca_08032	--	--
Ca1_P1_7841172	Ca1	7841172	A/AC	TTTTGGCGTTGTGAT GTGT	GTACCACACGGGAGC TTCAT	60.0	839	INTERGENIC	--	--	--
Ca1_P1_7841241	Ca1	7841241	TAAAAAAA/TAAAAA	CACGACCGTCCGATTA AGAT	GTTGTACCACACGGGA GCTT	60.0	473	INTERGENIC	--	--	--
Ca1_P1_7841312	Ca1	7841312	TT/TTGT	CACGACCGTCCGATTA AGAT	GTTGTACCACACGGGA GCTT	60.0	473	INTERGENIC	--	--	--
Ca1_P1_7845858	Ca1	7845858	GTTT/GTTTT	AACGAATTTTCAGCAA AGCA	GAGGCAGGAAAAGAT GTTGC	58.6	569	DRR	Ca_08034	--	GRAS
Ca1_P1_7865713	Ca1	7865713	C/CT	TGCACTCACTCCAACA AACA	CAAAGCATACCAACCA CAGC	58.8	799	INTERGENIC	--	--	--
Ca1_P1_7883822	Ca1	7883822	TAAAAAAA/TAAAAA	AGGATGCGACCTACAT CTGG	AAAAACGCAGGCATTC TTTG	60.1	440	DRR	Ca_08037	I	bHLH
Ca1_P1_7887908	Ca1	7887908	TCC/TC	TGTGAATAGGCTAGGC CGTC	GGCCTGAGTCTGACCT ACGA	60.2	604	INTERGENIC	--	--	--
Ca1_P1_7889640	Ca1	7889640	TT/TTCT	TCACCTTCAAAATTAAC GGGAC	GATGGAAAAGGACGG AGACA	60.2	462	INTERGENIC	--	--	--
Ca1_P1_7895366	Ca1	7895366	GAAA/GAA	TTGCCACAAGCTAAAA GGCT	TGGTCAGTTTGGCCTA TTCC	60.0	514	DRR	Ca_08038	--	--
Ca1_P1_7904061	Ca1	7904061	TCC/TC	ATCAAATGTGGTCAGA GCCC	AATAATTGCGGCCAC TACG	59.9	411	DRR	Ca_08039	R	--
Ca1_P1_7915897	Ca1	7915897	GAAA/GAAATAAA	CTAACCTCTGGAGCAC CGAC	GCACAATACAAGGCTG AGCA	59.9	459	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_7926977	Ca1	7926977	TG/T	GCATTGGCATTTCATTG TGAG	CCCTTACCTTGAGGCA AACA	60.1	758	DRR	Ca_08042	--	HB-other
Ca1_P1_7929093	Ca1	7929093	GA/G	AATGCCTAAAAGCAAT GCAAA	AACACGATGAGATGGA AGGG	59.7	527	INTERGENIC	--	--	--
Ca1_P1_7933454	Ca1	7933454	A/ATG	CGCAACTAATTCCTT CAACAA	CCTTCACAACTTGAA GGACC	59.3	591	INTERGENIC	--	--	--
Ca1_P1_7942966	Ca1	7942966	TAAA/TAAAA	GCACCTTCCATCCTTT GGA	GAAAAGGCCTCCAACA CAAA	60.1	378	INTRON	Ca_08044	QI	B3
Ca1_P1_7943283	Ca1	7943283	CA/CAA	TGTTGGAGGCCTTTTC CTTA	TTATCACCTGGCCAAA AAGC	59.7	521	INTRON	Ca_08044	QI	B3
Ca1_P1_7946141	Ca1	7946141	GTT/GTTT	GGCATGCATGACTTTG TGAA	TTTTGTGTTAGATTCAT GTCTCCAG	60.7	471	INTERGENIC	--	--	--
Ca1_P1_7947587	Ca1	7947587	AC/ACC	TCTTCCTCCAATTCCA ATCA	TTTTTATTCTCGTGGG AGTGAG	59.5	578	INTERGENIC	--	--	--
Ca1_P1_7947965	Ca1	7947965	TAAAAAAAA/TAAAAAA	TCATGGTATTACCGT ACACTTACA	TTTTTATTCTCGTGGG AGTGAG	59.6	540	DRR	Ca_08045	QI	B3
Ca1_P1_7948441	Ca1	7948441	AATATATATATATATA/AATATATAT ATA	CTCACTCCACGAGAA TAAAAA	TGGAAGAGGAGAGAT GCAAAA	58.4	661	DRR	Ca_08045	QI	B3
Ca1_P1_7948690	Ca1	7948690	ATTTTTTT/ATTTTTTTT	TTTTCATCTCTCTCT TCCA	CCAACAGTCCGACAT CTCA	59.9	453	DRR	Ca_08045	QI	B3
Ca1_P1_7954789	Ca1	7954789	TTAT/TT	CCCCTCGGAACCTTCA TTTT	TCGTAATTGCTTTCTG GCCT	60.3	558	INTRON	Ca_08045	QI	B3
Ca1_P1_7954891	Ca1	7954891	TAAAAAAAA/TAAAAAA	CCCCTCGGAACCTTCA TTTT	TCGTAATTGCTTTCTG GCCT	60.3	558	INTRON	Ca_08045	QI	B3

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_7955292	Ca1	7955292	TAAA/TAA	AGGCCAGAAAGCAATT ACGA	TGAAGCCAGATCCACA AGAA	59.8	655	INTRON	Ca_08045	QI	B3
Ca1_P1_7963074	Ca1	7963074	TAAAAAAAAAAAAA/TAAAAAAAAA	TGAACGAAACAGGATG ACCA	CCTAACTCGTGAGGGT TCCA	60.1	907	INTERGENIC	--	--	--
Ca1_P1_7964977	Ca1	7964977	ATATTCTTT/AT	TGGTTGGTCCTATCGA GGAG	ATGGAGACCAAGTGC CAAAAT	60.1	279	INTERGENIC	--	--	--
Ca1_P1_7968628	Ca1	7968628	GAAA/GAAAA	TGTGGGGTGAAAAAG CTAA	ATAGGACGGTGAAATC GTGC	60.5	768	INTERGENIC	--	--	--
Ca1_P1_7974056	Ca1	7974056	TTT/TTTATTTTATT	CATTGTCTCATCTGTC CCGA	TCATGAGAGCATGCAA AGGT	59.6	205	INTRON	Ca_08047	U	MYB
Ca1_P1_7986734	Ca1	7986734	ATAT/ATATGTTGGTGTTAATTAT	ACACGGAAATTTGGAC TTGC	ACTTTTACTGCCATGG GTGG	60.0	175	INTERGENIC	--	--	--
Ca1_P1_7987932	Ca1	7987932	TAAAAAAAAAAAAAAAAA/TAAAAAAAAA A	CCAATTGATTTACCAA TCTTTT	TTCTGGACTTGTTGG ATTGA	59.3	618	INTERGENIC	--	--	--
Ca1_P1_7991091	Ca1	7991091	T/TTGAATGGTGAAAA	TAGATGCAACTGATGC GACC	TGGTTTGATTCTCTGC ACCA	59.8	624	INTRON	Ca_08049	--	WRKY
Ca1_P1_7992031	Ca1	7992031	GTAA/GTAATTAA	TGATTCTCTCCCATGC CATT	TTCTTCAGCTGGTGTT GCAC	60.4	450	INTRON	Ca_08049	--	WRKY
Ca1_P1_7992471	Ca1	7992471	TGTAGTA/TGTAGTAGTA	GTGCAACACCAGCTGA AGAA	CAACATCATGATCAAT GGCA	60.0	310	CDS (large-effect mutations)	Ca_08049	--	WRKY
Ca1_P1_7994189	Ca1	7994189	AATATTTTCCATA/AATA	AACAAAGAGGCGGCA AGTA	GAAGGTGGCACGTTAA AACA	59.9	115	INTERGENIC	--	--	--
Ca1_P1_7995324	Ca1	7995324	ATAGTAGT/ATAGTAGTAGT	CGGATTGTTTCGATA TGGG	AAGGGATTTTTATTCA CAAAACAA	60.1	527	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_7996926	Ca1	7996926	CAA/CAAGTTAATAAA	TCCCGGTCACACAAT AATC	TTCTCAAGCACCAAGC ACAC	60.6	185	INTERGENIC	--	--	--
Ca1_P1_7997866	Ca1	7997866	AATATAT/AATAT	ATGTTGTGGGGACAAA GAGG	CTCATGATTTTGGCGA GGAT	59.8	315	INTERGENIC	--	--	--
Ca1_P1_7999912	Ca1	7999912	CTATATATATATAT/CTATATATATATA TAT	AAAATTCTGTTTGGGG GACC	AAACGAGTGTGAAGG GTTGG	60.0	842	INTERGENIC	--	--	--
Ca1_P1_8000612	Ca1	8000612	T/TG	CCAACCCTTCACACTC GTTT	TGACACCAAACTCAGT CCTTG	60.0	489	INTERGENIC	--	--	--
Ca1_P1_8000857	Ca1	8000857	ATGT/AT	CGCCATCTTCACGTCA CTTA	TCCAACCCAAATTCCA AACA	59.9	699	INTERGENIC	--	--	--
Ca1_P1_8001697	Ca1	8001697	AATATATATATA/AATATATATATATA	TAAAGGTATCCGTACC CGCA	AGATGGCATGCATGAT CAAA	60.3	275	INTERGENIC	--	--	--
Ca1_P1_8001965	Ca1	8001965	ATT/AT	AGTAGGGGGCCACTTC AAAT	TGGTCCATAGCCTGCA TAAA	59.8	286	INTERGENIC	--	--	--
Ca1_P1_8002384	Ca1	8002384	TA/T	TTTAAATCGGGTAGGG TGGG	TGAGCCAATTCCTCTT TTGTC	60.9	424	INTERGENIC	--	--	--
Ca1_P1_8002969	Ca1	8002969	ACTT/ACTTCTT	CGCCACAAATTTGACT CTGA	GGGAATGCGATGTGA AGAAT	59.8	310	INTERGENIC	--	--	--
Ca1_P1_8006358	Ca1	8006358	GTT/GT	TCTTCCCTCCTTCCTT GGAT	TGCTCTCAACCCAAC TCTT	60.0	193	INTERGENIC	--	--	--
Ca1_P1_8006710	Ca1	8006710	TG/TGG	TCTTCCCTCCTTCCTT GGAT	TAACACAAGTAGTCGC CCCC	60.0	748	INTERGENIC	--	--	--
Ca1_P1_8015388	Ca1	8015388	CAAAAAAAAA/CAAAAAAAAA	CAGCAATTTGACAAGC GAAA	TTGCCCCCACTTATCA GTTT	60.0	459	INTRON	Ca_08050	R	MYB

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_8016686	Ca1	8016686	CAAAAAAAAA/CAAAAAAAAAAAAA	ACGAATTTTCTTAAGC GCGA	TTTTTGTTGCGATGG AACA	60.0	207	INTERGENIC	--	--	--
Ca1_P1_8017454	Ca1	8017454	ATT/ATTTT	GGCGAAACTCGTGAG GATAC	TCAAACCATCGAACCA AACA	59.7	754	INTERGENIC	--	--	--
Ca1_P1_8022656	Ca1	8022656	AG/A	TACGGGCCTGAATTTT TTTG	CCTCCATAATTGGGG TCTT	60.1	703	INTERGENIC	--	--	--
Ca1_P1_8031692	Ca1	8031692	TTA/TTATA	ATCTTCTTTTTGTGGG GCCT	CTTGGCAGATCTCGAG TATGAA	59.9	397	INTERGENIC	--	--	--
Ca1_P1_8031727	Ca1	8031727	CG/C	ATCTTCTTTTTGTGGG GCCT	CTTGGCAGATCTCGAG TATGAA	59.9	397	INTERGENIC	--	--	--
Ca1_P1_8035534	Ca1	8035534	T/TTA	CAATGCAATGCAAT GACC	AGGCATCTTTTCAGGT TCCC	59.9	782	INTRON	Ca_08051	M	FAR1
Ca1_P1_8043772	Ca1	8043772	AAA/AAACAA	GACTCATGATTTGCTC TTGGC	GAAATCTTGTTGCT TCCCA	59.8	781	DRR	Ca_08052	U	--
Ca1_P1_8046858	Ca1	8046858	CTT/CTTT	AGGACCAACTCCATGA CAGG	GGGTTTGGAATGGT GTTTG	60.0	579	INTRON	Ca_08052	U	--
Ca1_P1_8048852	Ca1	8048852	CGAAG/C	CTGAAGAGGTGTAGGA GCGG	GGCCCAAGTCCAATTG ATAA	60.0	372	INTERGENIC	--	--	--
Ca1_P1_8049957	Ca1	8049957	ATAACCATTAAACCAT/ATAACCAT	AAAATGTTGCTCTTGG AAACAAA	TGGTTGTGTTGAGTTT GGGA	60.0	526	INTERGENIC	--	--	--
Ca1_P1_8061451	Ca1	8061451	TAAAA/TAA	CAATGCACGGGTCCT AAAC	CGTTTCAACTTTCAAT GCCA	60.4	622	INTERGENIC	--	--	--
Ca1_P1_8061730	Ca1	8061730	TGT/TGTTGCAGT	AAAATGCAAGAACGGG TCAA	CTTGTGTTGTTGGCG AATA	60.5	100	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_8062208	Ca1	8062208	TCCTCCCTC/TCCTC	TTATTGCGCCCAACAAC ACAA	TCATTGGTAGTACGTG AACCGA	60.0	758	INTERGENIC	--	--	--
Ca1_P1_8063349	Ca1	8063349	CTGGTTGGT/CTGGT	GCAGTATGGCAAGAGC AACA	TCATCACATTAAGGCC AGCA	60.0	486	INTRON	Ca_08053	O	MYB_related
Ca1_P1_8065415	Ca1	8065415	TAAAA/TAAAA	ATTGCCACCAACATTC CATT	TCCACATTCTCGTAT GCTT	60.1	641	DRR	Ca_08053	O	MYB_related
Ca1_P1_8074446	Ca1	8074446	A/ACT	AGGGCTAAAGCAAGG GTTGT	GCTTCTCCGAATGGAT TGAA	60.1	440	DRR	Ca_08054	O	--
Ca1_P1_8074695	Ca1	8074695	GAAAA/GAAAAA	AGGGCTAAAGCAAGG GTTGT	TGCAGCTGAAGTAGC GAAAA	60.1	652	DRR	Ca_08054	O	--
Ca1_P1_8092031	Ca1	8092031	CTTTT/CTTT	TCATCTTCGCCAGAGT TTCA	AAGGCATTGGGAAATG GTAA	59.5	480	INTERGENIC	--	--	--
Ca1_P1_8093889	Ca1	8093889	AAACAACAA/AAACAA	CAGGACCACATTTTAG GCAAA	TGGCTTTGTGGTACAT TGGA	60.0	764	INTERGENIC	--	--	--
Ca1_P1_8095747	Ca1	8095747	AATATATATA/AATATATA	GGTTTTGAAGGCTTGT GTCG	GGAACAGCGATGATTG TCATT	60.7	680	INTERGENIC	--	--	--
Ca1_P1_8097574	Ca1	8097574	AAAAAATAAAATAAAA/AAAAAATAAA A	TGGTGAGAAAGAAAT GCGA	TCAAGCATCCATCAAA ACCA	59.4	738	INTERGENIC	--	--	--
Ca1_P1_8102400	Ca1	8102400	CAA/CA	CCCACCATCCATCTTC CTTA	CCTGCTGTTACACCCC TCAT	59.7	403	INTRON	Ca_08056	C	--
Ca1_P1_8114379	Ca1	8114379	AATATATATATATATAT/AATATATA TATATATATATAT	GGGAAAAGTGATTCTG GCTG	CCTGGGTTTCCCAAGT TTTC	59.7	657	DRR	Ca_08057	A	--
Ca1_P1_8118293	Ca1	8118293	TTCC/TTCTCC	TTTTGACACATTAAGT AACCACA	GCCTTATGTTGCTTCG GGTA	59.5	656	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_8119637	Ca1	8119637	ATTTT/ATT	TCAGTGGTGGCAGTTG TGAT	AAACTCAGGGGCTCCT TCAT	60.2	314	INTRON	Ca_08058	R	--
Ca1_P1_8124056	Ca1	8124056	AATATATATATATA/AATATATATATAT ATATATA	TGTTGAGAAGCATGGG AAAG	TCGAATCGAACACAA CCAA	60.1	918	DRR	Ca_08058	R	--
Ca1_P1_8124850	Ca1	8124850	TATTT/TATTTAAATTT	GTTCGATTTCGATTGGC GTAT	GCGAACAACTTGAGTA GGGC	59.9	447	DRR	Ca_08058	R	--
Ca1_P1_8125888	Ca1	8125888	G/GACATATTAAAA	TGTTGGGTTACGAGGG AGTC	TTGCGGGTTTTTAACC TGAG	60.0	526	INTERGENIC	--	--	--
Ca1_P1_8127338	Ca1	8127338	CTT/CTTT	CCCTCCTTCAGAAAA CCTT	AATCCTGCAGTGAAC CACC	59.5	708	INTERGENIC	--	--	--
Ca1_P1_8130349	Ca1	8130349	ATTTT/ATTT	TTACTCACCAGGAACC GTCC	GTTGCCGGGTAAGTTT TCAA	60.0	557	INTRON	Ca_08059	P	--
Ca1_P1_8130436	Ca1	8130436	ATTTTT/ATTTT	TTACTCACCAGGAACC GTCC	GTTGCCGGGTAAGTTT TCAA	60.0	557	INTRON	Ca_08059	P	--
Ca1_P1_8132050	Ca1	8132050	AT/ATTT	TCTGCCAATGCTCAAA TCAG	TGGCAATGTGGAGTCT ATGC	59.9	181	DRR	Ca_08060	--	--
Ca1_P1_8132296	Ca1	8132296	TTACTACTA/TTACTACTACTA	TCTGCCAATGCTCAAA TCAG	TCCACACAAGTCAAA GTCTAAA	59.9	768	DRR	Ca_08060	--	--
Ca1_P1_8301326	Ca1	8301326	TTATATATATATATATATATAT/TTAT ATATATATATATATATAT	TTTACCACCCTCCTC AAAA	TTGCTCTGGGAATTGG AATC	60.5	620	INTERGENIC	--	--	--
Ca1_P1_8304983	Ca1	8304983	ATTTTTT/ATTTTTTTT	CAAAGGCAGGTGAGTT CAAA	GCTTGTGGAGTTGTG GTCCT	58.9	652	DRR	Ca_08070	QR	B3
Ca1_P1_830680	Ca1	830680	AAATAATAATAATAATAATAATAAT AATAATAATAATAAT/AAATAATAATAA TAATAATAATAATAATAATAATAAT AATAAT	AAGGAGTGTGCTTATT TGGA	TCCGGCTCTATATATC ACAAGACA	59.8	492	DRR	Ca_00101	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P1_831015	Ca1	831015	T/TCTCTTATAATGA	GCCGGATTAAATATA ATCCACA	TGACCTAATAAGCCTG TTTGTTT	59.2	595	DRR	Ca_00101	--	--
Ca1_P1_8319139	Ca1	8319139	TGGGCGCG/TGGGCGCGCTCGGGCG CG	CCCAAGTTCCAAGAG TCAA	CAAAGACACCGGAAC CAAT	60.1	292	INTERGENIC	--	--	--
Ca1_P1_8327619	Ca1	8327619	AATATATATATATATATATATATATA TATATATATA/AATATATATATATATAT ATATATATATATATATATATATA	AATAGCTCCCGCAAGT TTGA	CATGACATCTTCAAT CCAATCA	59.8	425	INTERGENIC	--	--	--
Ca1_P1_8338184	Ca1	8338184	AATATATATAT/AATATATATATAT	CGAAATAGGCACTGGT TTCA	TCTCCATTACACCAT GGAA	58.8	594	INTERGENIC	--	--	--
Ca1_P1_8391335	Ca1	8391335	T/TG	TGGAAGCTGAAATTTG GACC	TTAAAAGTTCATCCGC ACAAA	60.1	364	DRR	Ca_08075	--	--
Ca1_P1_839232	Ca1	839232	AGTGT/AGTGTGT	AAGGATTGTGAAATCG CCAC	TAGATGCCCGTCATTG TTGA	59.9	680	INTERGENIC	--	--	--
Ca1_P1_8403563	Ca1	8403563	TTAATAATAATAATAATAATAATAA TAATAATAATAATAATAATAATAAT TAATAATAATAATAATAATAATAAT AATAATAATAATAATA	CCCCTAAAAATTAGTC GAACCTC	GAGTCTTTGTCCCGAG CAAG	59.4	474	INTRON	Ca_08076	--	--
Ca1_P1_8415420	Ca1	8415420	AG/A	ATGGGTGAAACGAGCA ACTC	TTTTCTTTTGCATCAT CTTTG	60.1	910	INTERGENIC	--	--	--
Ca1_P1_8428429	Ca1	8428429	AAT/A	TGCACGTAGAATCGCC TAAA	TGTTAACACGCCATT TTTAT	59.5	263	INTERGENIC	--	--	--
Ca1_P1_8430466	Ca1	8430466	ATTT/ATT	AGGTCATGGGCTGGAT GTAG	ACCCTTTCACTGCGCT CTTA	60.0	612	INTERGENIC	--	--	--
Ca1_P1_8430733	Ca1	8430733	C/CCTAGGCCTTT	GGGCTATTAAGAGCGC AGTG	TTGGCATAAGGATCAA AGGG	60.0	117	INTERGENIC	--	--	--
Ca1_P1_8433346	Ca1	8433346	AAAAAAAAAAATTAAAAAA/AAAAAA A	GGATCGCGGAGACTAT TTTG	AGATCCAAGAGCGGAT GAGA	59.7	290	DRR	Ca_08078	--	--

[illegible]

[illegible]

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/P1)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_10187103	Ca2	10187103	AATATATATATATATATATATA/AAT ATATATATATATATATATATATATA	AAGGCGAGAACAAGCC ATTA	CCTGAATATGCGGCGT TATC	59.8	314	INTERGENIC	--	--	--
Ca2_P1_10206326	Ca2	10206326	CATATATATATATAT/CATATATATATA TATAT	CTGACAATTGGCCACG TTTG	GGTATGCCATCATGTG TTGC	60.1	348	INTERGENIC	--	--	--
Ca2_P1_1023421	Ca2	1023421	TTATATATATATATATA/TTATATATA TATATATATATA	TCCACGTCCTAAAGCC ATTG	ACAAGACAGACCCTTT TGACA	60.1	639	INTERGENIC	--	--	--
Ca2_P1_10240635	Ca2	10240635	AACA/AA	CCCAAAAATAAATAACA AAATTCAA	GGTTTGTGGTTGGCAC TTCT	57.7	727	DRR	Ca_17599	--	--
Ca2_P1_10272016	Ca2	10272016	TC/T	GTGGTTATGGCGCAAT TCTT	GATGCAATGCAACTAC GGTG	60.0	596	INTERGENIC	--	--	--
Ca2_P1_10281029	Ca2	10281029	CTATTTATTTATTTATTTATTTAT TT/CTATTTATTTATTTATTTATTT ATTTATTT	GGCGATATTCACGGAC AGTT	TTGGAATCCAAATCA CACAA	60.0	313	INTRON	Ca_17595	T	FAR1
Ca2_P1_1035507	Ca2	1035507	GTTACTT/GTT	TTTGCGAGTGCAATTC ATGT	TCCAACATTTACCAA ACCA	60.3	514	INTERGENIC	--	--	--
Ca2_P1_10381921	Ca2	10381921	GAAAAAAAAAAAAA/GAAAAAAAAAAAAA	AGTTGGTTTGATGGGA GGTG	TGAAGGGACATTACAA GGGC	59.8	713	INTERGENIC	--	--	--
Ca2_P1_10498057	Ca2	10498057	CTTTTTTTTTTT/CTTTTTTTTTTTTT	TGACCAAAATCGGAAAG AAAAA	AGGGAATGAGAGCAAT GACG	59.6	454	INTERGENIC	--	--	--
Ca2_P1_10500780	Ca2	10500780	TTATATATATATATAT/TTATATATATAT ATATAT	TTCTCTCTCATTGGTT TGTC	GTTTCGGCAATTTGGTT CAGT	59.0	570	INTERGENIC	--	--	--
Ca2_P1_10535352	Ca2	10535352	GNNNNNNNNNNNN/GNNNNNNNN	CCTTTCTTTCAATCCCC GAT	TTAAACGCAACACGA CTGC	60.3	527	INTERGENIC	--	--	--
Ca2_P1_10586644	Ca2	10586644	C/CGG	GAATCGAATCGGTGAG GAAA	AACACACCATGGGATC GACT	60.0	714	DRR	Ca_17575	O	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/P)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_10591835	Ca2	10591835	TAAAAAAAAA/TAAAAAAAAA	CCCCTCATTGGGCTTA ATTT	TCAGGTCGCTGTTGA AAAA	60.1	481	INTERGENIC	--	--	--
Ca2_P1_10663075	Ca2	10663075	TTATATATATATATATATATAT/TT ATATATATATATATATATATATAT	CGACTTCACTGGGGAC ATTT	CCAGAAGGCTACCACT ACGC	60.0	374	INTERGENIC	--	--	--
Ca2_P1_10720836	Ca2	10720836	ATTTTGTGTTTTGTTTTGTTTTGTTTT T/ATTTTGTGTTTTGTTTTGTTTTGTTT TTTGTTTT	GTTTGTCCTCAAGCAA CAAT	TTGGTCGTTTGAGCCT TTCT	59.8	796	INTERGENIC	--	--	--
Ca2_P1_1074389	Ca2	1074389	CATTTATTTATTTATTT/CATTTATTTT ATTTATTTATTTATTT	CCTCCTCGGTCTCTTC TCCT	AAATTGAGTTTCAAAA CCACCAA	59.9	397	INTERGENIC	--	--	--
Ca2_P1_1074420	Ca2	1074420	ATT/ATTTTTT	CCTCCTCGGTCTCTTC TCCT	AAATTGAGTTTCAAAA CCACCAA	59.9	397	INTERGENIC	--	--	--
Ca2_P1_10773522	Ca2	10773522	CTATATATATATATATATA/CTATAT ATATATATATATATATA	ACATGTTGTTGCAAA CGGA	TGTCGATTGGATGGAG ATGA	60.0	233	INTERGENIC	--	--	--
Ca2_P1_10779124	Ca2	10779124	TTA/TTACATA	CACTTTCTTATGCAC GCA	GCAGCGAGTAGGAGA AATGC	59.9	663	INTERGENIC	--	--	--
Ca2_P1_1078289	Ca2	1078289	TAAAAAA/TAAAAAA	TGTAAATTCACCCGA AGCC	ACGATGGAGTGGACG AAAAC	59.9	453	INTERGENIC	--	--	--
Ca2_P1_1083231	Ca2	1083231	GAAAAAAAAA/GAAAAAAAAA	ACGCGAAAAGCAGCAT AGTT	TCTTCTCTGGCAACCG TTCT	60.0	449	DRR	Ca_20670	--	--
Ca2_P1_10853311	Ca2	10853311	ATTTTTTTTT/ATTTTTTTTT	CAACTCAACCCCTAAA CCGA	TGAGAAATTTTCCGC TGCT	60.0	261	INTERGENIC	--	--	--
Ca2_P1_1087914	Ca2	1087914	GAAA/GAAAA	TGCGGCATACAAACA ACAT	AATGCAGCAGTGTCTGA ACTTT	60.0	361	INTERGENIC	--	--	--
Ca2_P1_10913431	Ca2	10913431	GAAAAAAAAA/GAAAAAAAAA	TGCATAATCGATTGGC ACAT	TCACTTACCGATTCCA GCCT	59.9	838	DRR	Ca_17557	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_10928556	Ca2	10928556	ATTTTTTT/ATTTTTTTTT	CATCCGTGGTCCCTTA ACTT	GCTAAATTACATTCGT GGTCCC	58.9	370	INTERGENIC	--	--	--
Ca2_P1_10948001	Ca2	10948001	ATTA/ATTACACTGACGTTA	TGATTCTTGATCATGTT GTTTTCA	CCATCCTCACTCCAAA GACAA	59.5	702	INTERGENIC	--	--	--
Ca2_P1_1107319	Ca2	1107319	ATAATA/ATAATAATATTAATA	AAAAGTTTTGTGCACC TCCA	ATGCCATGGTTGTGGA ACTT	58.3	459	INTERGENIC	--	--	--
Ca2_P1_11144082	Ca2	11144082	CTTTTT/CTTTT	TGCGAGCTTTCCTTTT TCAT	AAGGAGCTCTGGGAC ACTGA	60.0	214	INTERGENIC	--	--	--
Ca2_P1_11144239	Ca2	11144239	T/TACTC	TCAGTGTCCCAGAGCT CCTT	TCAATTGCGATCAGAG CAAG	60.0	402	INTERGENIC	--	--	--
Ca2_P1_11146648	Ca2	11146648	GAAAAAAAAA/GAAAAAAAAA	TGCGGATGTGTTGATT GATT	CTACCGCTAGAGCGTC CACT	59.9	513	INTERGENIC	--	--	--
Ca2_P1_11170816	Ca2	11170816	AG/A	GTCAATGGTGGCTGCT CTTT	AACGGTATCACGCTCT CCAC	60.3	182	CDS (FRAME SHIFT)	Ca_17548	--	C2H2
Ca2_P1_11226197	Ca2	11226197	GATATATATATATATATATA/GATAT ATATATATATATATATATATA	CGCGATCAAAACAAA CGTA	CCAACATGGCATGAGT TGAC	59.7	757	INTERGENIC	--	--	--
Ca2_P1_11240445	Ca2	11240445	ATTTTT/ATTTTTTT	TCGACCGAATCAAAAC ATGA	ACGTTTCCTCACGTTT CCAC	60.0	622	INTERGENIC	--	--	--
Ca2_P1_11281126	Ca2	11281126	GAAAAAAAAA/GAAAAAAAAA	GATCACGCTTGCAATC CTTT	GGCCAAAGTTGTGTTT CACT	60.2	673	INTERGENIC	--	--	--
Ca2_P1_1136843	Ca2	1136843	GTTTTTTTTTT/GTTTTTTTTTTT	GGCCGAGATCAACAAA TGTA	TGAGAAGCAGAAGCA GCGTA	58.6	504	INTERGENIC	--	--	--
Ca2_P1_11497600	Ca2	11497600	AG/A	TGATGAATGGTTGTGG CACT	ACGGGGTGTACATTG TGTT	60.0	480	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_11530366	Ca2	11530366	CTTGCATCTTTGCATCTT/CTTGCATC TT	TTTGTGTTCCATTTGCA TCA	CAACCAATATCGAGTT GCCA	59.9	171	INTERGENIC	--	--	--
Ca2_P1_11625278	Ca2	11625278	AATATATATATATATATATATATATA TA/AATATATATATATATATATATAT ATATATATA	GTTTAGCGCTCCTCCA TCAT	CTGCCCGTAAAAATCT TCCA	59.3	839	INTERGENIC	--	--	--
Ca2_P1_11648268	Ca2	11648268	AATATATATATATATATATATA/AATAT ATATATATATATATATATATA	TGAGTGCAAGCCTAGT GTGG	TGCACGGAAAACTGAC TCTG	60.0	521	INTERGENIC	--	--	--
Ca2_P1_11671380	Ca2	11671380	G/GT	CCACTAGGTACCCAC TCCA	ATAGCCGGTGGTGCT GTATC	59.8	579	INTERGENIC	--	--	--
Ca2_P1_11711787	Ca2	11711787	ATATTATTATTATTATTATTATTAT TATTATTA/ATATTATTATTATTATT ATTATTATTATTATTATA	TTCAAATTGCTGGTT GGTC	TGAAAGAAGCGCGGT AAAC	60.0	596	INTERGENIC	--	--	--
Ca2_P1_11715547	Ca2	11715547	TC/T	AGTTCAATATGCAGCA GGGC	TCCACTCCTACCAATC AATGC	60.2	824	INTERGENIC	--	--	--
Ca2_P1_11722953	Ca2	11722953	AATATATATATATA/AATATATATAT ATATATA	TTTGAAATGGCGACTT TCTT	AATTGGCATTTCGAAC TTGG	57.5	534	INTERGENIC	--	--	--
Ca2_P1_11728038	Ca2	11728038	CAT/CATAT	TTTTAGAATTGATTGGC GGC	TCGGAGGATGTGGAAT TTCT	60.0	671	INTERGENIC	--	--	--
Ca2_P1_11829316	Ca2	11829316	TTATATATATATATATATATATA/TTA TATATATATATATATATA	TTCCCTCAACAATTT CAA	CTCAAGGGCCTTCACC TTTT	58.0	549	INTERGENIC	--	--	--
Ca2_P1_11869889	Ca2	11869889	TTAACTATAACTAT/TTAACTAT	TGCAAGGAAGCAGATC GAAT	AGCAAACATCCAAACA AGCC	60.9	537	INTERGENIC	--	--	--
Ca2_P1_11940630	Ca2	11940630	TTATATATATATATAT/TTATATATAT ATATATATAT	GTAAGTGAAGCGCTT TCGC	ATTGGCAGACATCCAT TTCC	60.0	634	INTERGENIC	--	--	--
Ca2_P1_11986064	Ca2	11986064	GTTT/GTT	TGGAGTGCAACCACTG ACAT	TCCCACGATACCTTCT CCTG	60.2	184	INTRON	Ca_18763	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_12040012	Ca2	12040012	CAA/CAAA	TGTCAATCCATTATAA TTTCTTTCAA	GTGGCATTGGAGTCT GTTT	59.3	436	INTERGENIC	--	--	--
Ca2_P1_12040246	Ca2	12040246	TTATATATATATATATAT/TTATATAT ATATATAT	TGTCAATCCATTATAA TTTCTTTCAA	CAGCTTTTGGTTGAT GTGG	59.3	490	INTERGENIC	--	--	--
Ca2_P1_12040519	Ca2	12040519	ATT/AT	CCACATCAACCAAAAA GCTG	GTGAGGTGGCATTCTG AGAGT	59.2	665	INTERGENIC	--	--	--
Ca2_P1_12041702	Ca2	12041702	GTTTTTTT/GTTTTTTT	TCATCCTTTCTCCCT CTCA	GAGGAGAGGTCCACA TCAGC	59.7	768	INTERGENIC	--	--	--
Ca2_P1_12048675	Ca2	12048675	AATAATTTATAATTTATA/AATAATTTAT A	CAACATGCTGATGTG GACC	CCATTGGTAAATGGCT AACA	60.0	278	INTERGENIC	--	--	--
Ca2_P1_12167727	Ca2	12167727	GTATATATATATATATATA/GTATAT ATATATATATATATATATA	AAGGTCGTAAGCTTGT CGATG	TAGCACCGTAGCGGA GAGAT	59.4	715	INTERGENIC	--	--	--
Ca2_P1_1221818	Ca2	1221818	ATTTTTTTTT/ATTTTTTTTTT	TAGGTGCCCAACATAG CACA	ACAAAATGGTTCTCGA AATGA	60.1	978	INTERGENIC	--	--	--
Ca2_P1_12307967	Ca2	12307967	GAAA/GAAAA	TGTCTTTGGTCCCTGC AAAT	TCAAACCCCATTTTT GTGT	60.5	755	INTERGENIC	--	--	--
Ca2_P1_12326965	Ca2	12326965	CAA/CAAA	GAATTCACACGGAGT CCAC	TTGATTCTCAGCCAAA AAGGA	60.4	867	INTERGENIC	--	--	--
Ca2_P1_1233900	Ca2	1233900	C/CG	CGTTTTTGAAGCCAT TTGT	CTGCCATAAAGGCTGC AGAT	60.0	830	INTERGENIC	--	--	--
Ca2_P1_12360564	Ca2	12360564	TAAAAAAAAAAAA/TAAAAAAAAAAAA	TCGCACTCACACAACA AAATC	CCTCTTCACTTTTGG AAGGG	59.8	155	INTERGENIC	--	--	--
Ca2_P1_12435719	Ca2	12435719	TA/TAA	AAACGCAATCCTTGAG TTCG	TCCCTCAATCATGCGA CATA	60.2	365	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_12475607	Ca2	12475607	TTGTATTGATGTAT/TTGTAT	TCAAAGAGAAATGACT TTGTCCA	TCACTTTGCTTTGTGT GTCTCA	58.9	852	INTERGENIC	--	--	--
Ca2_P1_12502809	Ca2	12502809	AAATAATAATAATAATAATAAT/AA ATAATAATAATAATAATAAT	TGTCCTACTTTTGGG TCCG	TCCAATAGGAAAGGTC GCTG	60.0	361	DRR	Ca_18077	--	G2-like
Ca2_P1_12553140	Ca2	12553140	ATTTTTTTTT/ATTTTTTTTTT	CCCCCTCCAACCTTTC ATAC	ATCCAAATTCATGCA TCCC	60.5	811	INTERGENIC	--	--	--
Ca2_P1_12653249	Ca2	12653249	GTTTTTTTTT/GTTTTTTTTT	TCTTCGATGGAACAAC CTCC	GTGGAGATTGTGCTCC GTTT	60.1	842	INTERGENIC	--	--	--
Ca2_P1_12707442	Ca2	12707442	GAATTTCAATTTCAAT/GAATTTCAATT TCAATTTCAAT	AGCAGCTGACCGAGCA TATT	GGATGGGTGATTGAAA ATCG	60.0	902	INTRON	Ca_18086	R	--
Ca2_P1_12758393	Ca2	12758393	TAAAAAAAAAAAAAAAAA/TAAAAAAAAA AAAA	GCAAAACAATTGGAGA ACATGA	CTCGTCGCTGAACAAA ATCA	60.0	503	INTERGENIC	--	--	--
Ca2_P1_12933106	Ca2	12933106	A/AT	AGGTTGAAAGAAGCCC CACT	ATCGTTGGTTGGTGA AATG	60.1	834	INTERGENIC	--	--	--
Ca2_P1_12933573	Ca2	12933573	CACCAACCAACC/CACCAACC	TCATTGACAAGGAAAG AACATGA	CGAATTGGTTTGGGA TTTG	59.6	413	INTERGENIC	--	--	--
Ca2_P1_12934202	Ca2	12934202	AAA/AAACAA	AGAAAGCAAGCAAATC CCAA	TTCCAACACCTCACGA TTCA	59.8	488	INTERGENIC	--	--	--
Ca2_P1_12934953	Ca2	12934953	TTCTATCTATCTATCTATCTATC/ TTCTATCTATCTATCTATCTATC TATC	TGCCTCAAAAATCTGG TGTG	CTGCTCCAACTGATC ACGA	59.7	516	INTERGENIC	--	--	--
Ca2_P1_12937651	Ca2	12937651	ATTTT/ATTTT	GATTGCTTTCCTCTAT GCCG	GTTTGGCGTTGGTTT CACT	59.8	353	INTERGENIC	--	--	--
Ca2_P1_12939688	Ca2	12939688	AATATATA/AATATA	TTTTGGTGTGAGGGT GTCA	TTAATCAAAGCGGCAA AAGAA	60.0	564	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_12941200	Ca2	12941200	CAAAA/CAAA	TGTGCTTCTTCCTGAT TTTGG	GGCCAAAGACGGATAT GGTA	60.2	888	INTERGENIC	--	--	--
Ca2_P1_12941800	Ca2	12941800	T/TA	CATATCCGTCCTTGGC CATT	CCTTGAACAATTGGG CAGT	59.8	643	INTERGENIC	--	--	--
Ca2_P1_12947738	Ca2	12947738	TTATATAT/TTATAT	TGCTTTTATGAGCATT CGGG	GTTGGAGCATCAACCT GTCC	60.1	618	INTERGENIC	--	--	--
Ca2_P1_12947970	Ca2	12947970	G/GT	TGCTTTTATGAGCATT CGGG	CGACTTCAAATCCCTT CGAG	60.1	777	INTERGENIC	--	--	--
Ca2_P1_12952557	Ca2	12952557	ACATATCATATCA/ACATATCA	AAAGCATTTTATCCCG ACCA	TTTTTCATCTCACTCTG TCCCA	59.4	787	INTERGENIC	--	--	--
Ca2_P1_12952944	Ca2	12952944	TGTCATGATTAT/TGTCATGATTATAG TCATGATTAT	TGGGAGAGAGTGAGAT GAAAAA	ACGGATGTCTAATCCG TTGG	58.9	308	INTERGENIC	--	--	--
Ca2_P1_12963805	Ca2	12963805	ATTTTTTTTT/ATTTTTTTTT	TGATTGTGCTATCTTAC CTTTGGA	GATCCCATCAAAACCA CCAG	60.0	867	INTERGENIC	--	--	--
Ca2_P1_13079939	Ca2	13079939	ATTTTTTT/ATTTTTTT	GCAGCAAAATGAAAT TGGG	CGCAACAAATGGAAG ATCA	60.4	541	INTERGENIC	--	--	--
Ca2_P1_13220102	Ca2	13220102	CAAAAAAAAA/CAAAAAAAAAA	GACCCTTTGTGGACA GCAT	TCAGAACACGTGGCTT TACG	60.0	436	INTRON	Ca_11681	R	--
Ca2_P1_13247575	Ca2	13247575	ATTTTTTT/ATTTTTTT	TGAAAAGCTAAATGCA TGGAA	TCATGACCATGGACCC ACTA	58.4	937	INTERGENIC	--	--	--
Ca2_P1_13258978	Ca2	13258978	TAAA/TAA	TGTGAATGCGTTGATT GCTT	GCACGCCAACTGTTTG TTAG	60.3	951	INTERGENIC	--	--	--
Ca2_P1_13284989	Ca2	13284989	TGG/TGGG	GTCGGCTGTCGGTTGT TATT	GGTCTGAGGTGGTTTA ACGC	60.0	803	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_1336064	Ca2	1336064	CTATATATATATATATATATATATATATATATATAT/CTATATATATATATATATATATATATATATAT	TGTGGGTGTTGGCTAGT TTGA	ATGTGCTTAAGGATGC AGGG	60.2	716	INTERGENIC	--	--	--
Ca2_P1_13514762	Ca2	13514762	TAAAAAAAAA/TAAAAAAAAA	AGGGGGTATTATTGGA TTAGGA	TTTGAAAATAAAATC AAGGGG	57.8	963	INTERGENIC	--	--	--
Ca2_P1_13569948	Ca2	13569948	ATTTTTTTTTTT/ATTTTTTTTTTT	TGACGCATGTACAAA TCGTG	CCCCCAATCTTGGTG TTTT	60.6	661	INTERGENIC	--	--	--
Ca2_P1_13619074	Ca2	13619074	AATATATATATATATATATAT/AAATATATATATATATATATAT	TGGGATGAAGAATGCC CTAA	TTGACTCGTTGTTGCT CTGG	60.4	678	INTERGENIC	--	--	--
Ca2_P1_13662185	Ca2	13662185	CATATATATATATATATATATA/CATATATATATATATATATATA	GGGGGACCAATTCCAT AAAT	AAGTGAATCAATTGTG TGGTCTTT	59.7	724	DRR	Ca_11645	R	C2H2
Ca2_P1_13701671	Ca2	13701671	AATATATATATATATATATAT/AAATATATATATATATATAT	CTATCCCTACCCCTCC AACC	GCTGATCAAGACAAAT GGCA	59.6	284	DRR	Ca_11644	--	WRKY
Ca2_P1_13721929	Ca2	13721929	AATATATATATATATA/AAATATATATATATATATA	CATTTCATGCAATTGTT GTCA	AAAAACCAGTCGTGTG GAGG	58.0	528	INTERGENIC	--	--	--
Ca2_P1_13728931	Ca2	13728931	TTTATTATTATTATTATTATTATTA TTATTATTATTATTATT/TTTATTATTAT TATTATTATTATTATTATTATTATT ATT	AGAGGCAACAAGAAC CGAA	GAGGACCAAGACCTC CACA	59.9	417	INTERGENIC	--	--	--
Ca2_P1_13794561	Ca2	13794561	CTTTTTTT/CTTTTTTT	GATTCGGTGGAGAATC CAAA	CACCGGTGGTAACGA GAAC	59.9	834	INTRON	Ca_11639	--	SAP
Ca2_P1_13797357	Ca2	13797357	GAAAAA/GAAAAA	TTCGCACTCCACTCT TCCT	CGCAAGAAATTCGGT AAAA	60.0	204	INTRON	Ca_11639	--	SAP
Ca2_P1_13852126	Ca2	13852126	GAAAAAAAAA/GAAAAAAAAA	CACAGTATGGGTTTTT GATCCAT	TTTCTCCTCTTTGGCA CGTT	60.0	512	INTERGENIC	--	--	--
Ca2_P1_13923559	Ca2	13923559	ATGCAGCTTTCTAAA/ATGCAGCTTTC TAAATCTGCAGCTTTCTAAA	TTTGACCAAAACCTTG GAGG	CAGGGCGGTACAAAC CTTTA	59.9	436	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected 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_P1_13956607	Ca2	13956607	ATTTTTTTTT/ATTATTTTTTTTTT	TGAAATTTGTGATTAG TTGCTTAAAA	AAACAAGTTGGTGGTG GAGC	59.6	686	INTERGENIC	--	--	--
Ca2_P1_13957739	Ca2	13957739	TGG/TG	ATTATCCCCACCCCCA CTAC	TTTCAAAAACGGTGGT GTGA	59.8	755	INTERGENIC	--	--	--
Ca2_P1_13957855	Ca2	13957855	TACA/TACACA	GCTCCACCACCAACTT GTTT	CAGCTACGCACAATGG CTAA	60.0	196	INTERGENIC	--	--	--
Ca2_P1_13959549	Ca2	13959549	ATTTTTTTTT/ATTTTTTTTTT	TGAAATTTGTGATTAG TTGCTTAAAA	CATAGATTTCCCAACC AATG	59.6	752	INTERGENIC	--	--	--
Ca2_P1_13983591	Ca2	13983591	ATTTTTTTTT/ATTTTTTTTTT	ACACGAGCGGAGAAA TAAA	TGCAATTGTGTCCAT TTGT	59.7	893	INTERGENIC	--	--	--
Ca2_P1_14086143	Ca2	14086143	C/CT	GCTTCTGATGGTGAC TTGA	TGGCCTAAAGCAAGCT CCTA	60.0	371	INTERGENIC	--	--	--
Ca2_P1_14192522	Ca2	14192522	GAAAAAAAAA/GAAAAAAAAA	TACAAATTGGATGCGG TTGA	CCCTCTGCAATGTCGG TAAT	59.9	755	INTERGENIC	--	--	--
Ca2_P1_15189592	Ca2	15189592	TTATATATATATATATATATAT/TTAT ATATATATATATATATATATAT	GGAAGGAGGGAAACC TCTTG	AAGCTCATCATGTGGT GCAA	60.0	721	INTERGENIC	--	--	--
Ca2_P1_15349212	Ca2	15349212	TAAAAA/TAAAA	GACAACTTTATGCCCC CTGA	ACATCATTTGGCAGGA GTTC	59.9	731	INTERGENIC	--	--	--
Ca2_P1_15454134	Ca2	15454134	AG/AGTGACTTG	CGATAATCATGAAATT GATGGG	GCTCACGAGGCAGTA ATGAA	59.1	765	INTERGENIC	--	--	--
Ca2_P1_15479768	Ca2	15479768	ATTTTTTTTT/ATTTTTTTTTT	GGGGTCTCTCAAATT GGGT	CAAACCTGGGGATGAA AACG	60.0	461	INTERGENIC	--	--	--
Ca2_P1_15557649	Ca2	15557649	AATATATATATATATATATATATA /AATATATATATATATATATATATA ATA	GAAAGCAATTGGGCTA CTGG	CCAAAAACGCTTTTC AATGG	59.7	251	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected 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_P1_1558409	Ca2	1558409	TCGGAAGNNNNNNNNCGGAAG/TC GGAAG	TCGAAATTTTAGGCCA CGAC	TGAGTTGTTGCTTTG ACCA	60.1	631	INTERGENIC	--	--	--
Ca2_P1_15589036	Ca2	15589036	ATTT/ATTTT	ATACGCCTCAACAAA TGGC	CTGCTTTGCTTGATTG CGTT	60.0	376	INTERGENIC	--	--	--
Ca2_P1_15691178	Ca2	15691178	TTATATATATATATATATATAT/TT ATATATATATATATATATATATAT	GACTGTCCAAATTTGT GGGG	TTTTTGGCATCAAGTT GTCCTTT	60.2	581	DRR	Ca_18540	--	--
Ca2_P1_15812866	Ca2	15812866	TAAAAAAAA/TAAAAAAAAA	CATTGGCGGAGCTTTA CAAT	CCATGGCCACTTCAAG ATTT	60.1	298	INTERGENIC	--	--	--
Ca2_P1_15904424	Ca2	15904424	TTAAAATTAAAATAAAATTTAAAT/TTA AAATTTAAAATAAAATTTAAATTTAAAT AAAT	TTAGGCCGCCACAAG TATC	GAGGGTAAAGGCATC CACAA	60.1	524	INTERGENIC	--	--	--
Ca2_P1_15918350	Ca2	15918350	CATATATATATATATAT/CATATATA TATATATATATAT	CTTGGCCAGAAAATCG GTAA	AGGATGCATGGGATG AAAAG	60.1	691	INTERGENIC	--	--	--
Ca2_P1_16003270	Ca2	16003270	AAT/A	GGTACACTTCCGGCAA GAAA	AAGAGAGGTCACCTTG GCGA	60.1	482	INTERGENIC	--	--	--
Ca2_P1_16003324	Ca2	16003324	TTTT/TTTTATTT	GGTACACTTCCGGCAA GAAA	AAGAGAGGTCACCTTG GCGA	60.1	482	INTERGENIC	--	--	--
Ca2_P1_16093747	Ca2	16093747	CATATATATATATATATATATATATA TATATA/CATATATATATATATATATAT ATATATATA	CGTGAGCAACTATTTCG TTGAA	GGGAAGGGAGAAAGA GGAGA	59.0	429	INTERGENIC	--	--	--
Ca2_P1_16312234	Ca2	16312234	GAAAAAAAA/GAAAAAAAAA	TTTTTCCGACTTGGTC CTTT	TGTCCCAAAATATGAA CATCCA	58.7	494	INTERGENIC	--	--	--
Ca2_P1_16398494	Ca2	16398494	ATTTTTTTTT/ATTTTTTTTT	CAATTTGCATCTCCAAA GCA	TGATCTTGATCGGGAT GTGA	59.8	381	INTERGENIC	--	--	--
Ca2_P1_1640062	Ca2	1640062	ATTTTTTTTT/ATTTTTTT	AGATCATGTGCAAAAA GGGG	AGTAACCGTGAGGGA ACGTG	59.9	509	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected 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_P1_16424392	Ca2	16424392	AC/ACGACGCGAAAATTCCC	GCACTCTAATGCAATG CGAA	TAGCGGTGGGGAGAA CTATG	60.0	699	INTERGENIC	--	--	--
Ca2_P1_16514436	Ca2	16514436	AC/A	TGTGCTGGAAGGCAC ATAG	GTCCTCCCCACTACAG TCCA	59.9	812	INTERGENIC	--	--	--
Ca2_P1_16698930	Ca2	16698930	TTCA/TTCATTCCACATCA	AGCGAAATTTCCAACG TGTC	AGGTTGAATGTGGCAA AACAA	60.1	321	INTERGENIC	--	--	--
Ca2_P1_16961941	Ca2	16961941	AATATATATATATATATATATATATA TATATATATATATA/AATATATATATAT ATATATATATATATATATATATATA	AAATGGTTCATTCA TC GGTGT	TGAATAATTCTTGACC ATCCATGT	59.2	499	INTERGENIC	--	--	--
Ca2_P1_17046294	Ca2	17046294	AATAAA TT /AAAA TTTATAAA TT	CTATTCCATCCACGAA TGCC	TCCATGGAGGATATTT ATGT CG	60.3	523	DRR	Ca_24768	--	G2-like
Ca2_P1_17049910	Ca2	17049910	TAA/TA	AGAGAAGCTCGTTGTG GCAT	TCGTCGAGCATGTGAC TTTC	60.0	479	DRR	Ca_24767	--	--
Ca2_P1_17050299	Ca2	17050299	TC/TCC	ACCCCTTGATGAGACA AACG	ATGCTGCCGAGTTTCT GAAT	60.0	556	DRR	Ca_24767	--	--
Ca2_P1_17061321	Ca2	17061321	TAATATATA/TAATATATAAATATATA	TTTGCTCGGAAGCTT TTTA	AGGAAGAGTGGAGTT GCGAA	60.0	498	INTERGENIC	--	--	--
Ca2_P1_17061679	Ca2	17061679	T/TCCA	TTCGCAACTCCACTCT TCCT	CGGTAAAAATCTCTGC TCGC	60.0	190	INTERGENIC	--	--	--
Ca2_P1_1728113	Ca2	1728113	AATTATTATTATTATTATTATTATT ATTATTATT//AATTATTATTATTATTATT ATTATTATTATTATT	GAAAAGACACACATAT TTGGCA	GTTTGTGTGGTTGCA GTGG	57.7	491	INTERGENIC	--	--	--
Ca2_P1_17318657	Ca2	17318657	TT/TTGAT	GATGGCTCTCATGAGG GAAG	TCACATGTCATTGGG GAGA	59.8	169	INTERGENIC	--	--	--
Ca2_P1_17368825	Ca2	17368825	AA/AATTTATTTTTAGGA	TGACATATCCGCTATG AACGA	ATCCATCAACGCTTT CACC	59.2	592	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_17388033	Ca2	17388033	GTT/GTTT	TGGACACGACGGTGAA ATAA	GTCGGCCACAAGAAG ACAAT	60.0	578	INTERGENIC	--	--	--
Ca2_P1_17551687	Ca2	17551687	G/GC	ATGTGGTTGATAAGGC CTCG	AGCAAATGCAATGCTC TGAA	60.0	398	CDS (FRAME SHIFT)	Ca_16000	OE	--
Ca2_P1_17619991	Ca2	17619991	ATTTTTTTTTTTT/ATTTTTTTTTTT	CATCAAGATTCCGAT GGCT	CATGTGGTTCAGCTCG ATTT	60.0	608	INTERGENIC	--	--	--
Ca2_P1_17850204	Ca2	17850204	GAAAAAAAA/GAAAAAAAA	TCTCCTTTGCCCAAC TATG	TTGTTTGACATTCCTAA GGGT	60.1	745	DRR	Ca_15990	--	B3
Ca2_P1_17893254	Ca2	17893254	ATTTTT/ATTTTTTTT	TCGCTTCCTATGGAAT TTCG	CATCATTCCAAACAT CCCC	60.2	298	INTERGENIC	--	--	--
Ca2_P1_17893359	Ca2	17893359	GAAAAAAAA/GAAAAAAAA	GGGGATTGTTGGAAT GATG	CAATGGATCACCAGAA CGTG	60.0	585	INTERGENIC	--	--	--
Ca2_P1_17994837	Ca2	17994837	AATATATATATATATATATATATAT/ AATATATATATATATATATATATATA T	TGTGGCCCTATGTACT GCTG	TTGGAAGGAGCCCTTA CCTT	59.7	799	INTERGENIC	--	--	--
Ca2_P1_18086083	Ca2	18086083	ATATTATTATTATTATTATTATTATT TATTATTATTATTATT/ATATTATTATTA TTATTATTATTATTATTATTATTATT	AAAAAGCGGATGGAGT GATG	GGGAGTTGGGTTCTTC CTTC	60.1	688	INTRON	Ca_15983	--	--
Ca2_P1_18160173	Ca2	18160173	TATAATAATAATAATAATAATAATA ATAAT/TATAATAATAATAATAATAATA ATAATAATAATAAT	AGGGACACCTCATTTG TTCG	GAAGCGACCACCTGAA GAAC	60.0	510	INTERGENIC	--	--	--
Ca2_P1_18211722	Ca2	18211722	CCCCAAGAATCCCAAGAATC/CCCCA AGAATC	CAACCTACACGCCGAT TTTT	TGGGTCCATGTTCCAA TTTT	60.0	321	INTERGENIC	--	--	--
Ca2_P1_18223174	Ca2	18223174	TTAATAATAATAATAATAATAATAA TAATAATAATAA/TTAATAATAATAATA ATAATAATAATAATAATAATAA	CTCAGGATGCGACTTG TTGA	AAGTGATTGTGGGTG ATTGG	60.0	558	INTERGENIC	--	--	--
Ca2_P1_18225059	Ca2	18225059	GTTTTTTTT/GTTTTTTTTT	TTGTTTTGATGGATGA TTTGGGA	AAGCAAACATTGGAA TGGC	60.2	460	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected 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_P1_18225968	Ca2	18225968	AATT/AATTAATTCATT	CGGGAAATCGTTATTA GCCA	AACAACGCAGAAGAGA AGCC	59.9	127	INTERGENIC	--	--	--
Ca2_P1_18241747	Ca2	18241747	C/CTA	GACGTTTCCATCGTCA AGGT	TTGTTGCGATGGAGTC AGAG	60.0	551	INTERGENIC	--	--	--
Ca2_P1_1835747	Ca2	1835747	TTATATATATATATATATATATATAT/ TTATATATATATATATATATATAT	CACAATGCACCATGTG ACAA	TGGAAGTGAAGCCATA TCCC	60.0	831	INTRON	Ca_12601	--	--
Ca2_P1_18391802	Ca2	18391802	AATATATATATATATATATA/AATATAT ATATATATATA	CAAAGCGGGTAGCAAG GATA	GCCGCTCCTCTTCAAG TAAA	60.2	524	INTERGENIC	--	--	--
Ca2_P1_18474690	Ca2	18474690	GATATTTAATA/GATA	TTCGGAGCAAACCTCC ACTT	CCAAGGCCAACTCAAA TTGT	59.9	692	INTERGENIC	--	--	--
Ca2_P1_18496873	Ca2	18496873	AATATATATATATATATATATATATATA TATATATATAT/AATATATATATATATAT ATATATATATATATATATAT	AAAAATCCCACGTTTG TCCA	TAAGGTTGTGCGAGAA GTGC	60.2	914	INTERGENIC	--	--	--
Ca2_P1_18574917	Ca2	18574917	ATTTTT/ATTTT	CAATTCCCACAGGTAC GCTT	CAAACCCTAATTTTCA AACACG	60.0	349	INTERGENIC	--	--	--
Ca2_P1_18584340	Ca2	18584340	GAAAAAAAAA/GAAAAAAAAA	ATGTACCTCCGCCTCA TTTG	TCTCTGGCAACCGTTC TTCT	60.0	257	INTERGENIC	--	--	--
Ca2_P1_18610007	Ca2	18610007	TAA/TAACAA	TTGATCCCTTATTTCT GCG	TTATTTCAACGTCGTG TCCA	60.0	492	INTERGENIC	--	--	--
Ca2_P1_18611453	Ca2	18611453	GT/G	TGCCCTTGGATAGAC TCAT	CATGACACCCTTACCG AACA	59.5	508	INTERGENIC	--	--	--
Ca2_P1_18719612	Ca2	18719612	ATATG/A	ATGGAAAATTGTCGTT TCGG	TTGTGTGTGTTTCCCA CGTT	59.8	591	INTERGENIC	--	--	--
Ca2_P1_18742446	Ca2	18742446	GATATATATATATATATATATATATA TATATATA/GATATATATATATATATAT ATATATATATATATA	GATACAAATTGGCATT GGGG	TCAATTGAAATTGTGT GGAGAAA	60.0	679	INTERGENIC	--	--	--

[illegible]

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected 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_P1_19219016	Ca2	19219016	ATTTT/ATTT	CCCGTGAGATCCTCT AACA	TGAATCTACGGCTTC TGGG	60.1	498	INTERGENIC	--	--	--
Ca2_P1_1935888	Ca2	1935888	CAAAAAAAAAAAAA/C	CGAATTTTAAGACCAC CCAAA	ACATGCAATTGTGTGC CTTC	59.0	398	INTERGENIC	--	--	--
Ca2_P1_19384298	Ca2	19384298	GGAGAGAGAGAGAGAGAGAGAGA GAGAGAGAG/GGAGAGAGAGAGAGA GAGAGAGAGAGAGAGAG	TGGTTTGGTCAATTG AGGC	GAAGCCCAAGTTCCAA ATGA	60.9	679	INTERGENIC	--	--	--
Ca2_P1_19465818	Ca2	19465818	TAAAA/TAAAAA	GCCACAAAACACAGAA AGCA	CAGTGTACCGTCATC GAAC	59.9	469	INTERGENIC	--	--	--
Ca2_P1_19563753	Ca2	19563753	TAAAAAAAAA/TAAAAAAAAA	GCTCATGCAGTCCCCA AACT	GCATAATTGCTCATGC GGTA	60.3	381	INTERGENIC	--	--	--
Ca2_P1_19573107	Ca2	19573107	TTATATATATATATATATATATAT/TT ATATATATATATATATATATATAT	TTGTCCAAATGGTACA GCCA	AAGGAAGGCCTACTCC CAAA	60.0	647	INTERGENIC	--	--	--
Ca2_P1_19620908	Ca2	19620908	CAAAAAA/CAAAAA	TGGGGTCCATGTACCA CTTT	CCCCTTCTGATTGA AGGA	60.1	334	INTERGENIC	--	--	--
Ca2_P1_19652227	Ca2	19652227	AAA/AAATAA	AGATGTTTGTTCGCC GTCC	TGCTGTTGAGTTGTG GGAG	60.0	544	INTRON	Ca_24537	--	SAP
Ca2_P1_19705772	Ca2	19705772	GAAAA/GAAAAA	TATTTTGGATTTTGGCT CGG	AGGAAGAGTGGAGTT GCGAA	59.9	475	INTERGENIC	--	--	--
Ca2_P1_19772797	Ca2	19772797	CT/CTT	GTTTAGGCACGTAGGG ACCA	CGTTTAATTCGGGAC TGGA	60.0	417	INTERGENIC	--	--	--
Ca2_P1_19791685	Ca2	19791685	C/CG	TAGGCCATTTTCGTCC TCAC	AATCCAATGACACAAA CGCA	60.1	392	INTERGENIC	--	--	--
Ca2_P1_19860997	Ca2	19860997	GTTTTT/GTTTT	TTGTGCATCCGGTAAG TTCA	AAGCCTAGGGAGGAC GAAA	60.1	269	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_19893185	Ca2	19893185	TAAAA/TAAA	ACACCATTTTCGATT CGAG	CCATGTACCATTGTT GCTG	59.9	474	INTERGENIC	--	--	--
Ca2_P1_1990862	Ca2	1990862	GATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATT TTATTATTATTATTATT	GAGGATTAAGCCAATG CCAA	ACTTGTGTTTGGTCCC ATGA	60.0	635	INTRON	Ca_12580	GE	HB-other
Ca2_P1_20175480	Ca2	20175480	GATATATATATATATATATA/GATATAT ATATATATATATATA	TTTCAGAGTGTCTGTG GTTAGCA	GATCTGAGGTGTCATG GGCT	60.0	669	INTERGENIC	--	--	--
Ca2_P1_20196959	Ca2	20196959	TGGTG/TGGTGGGTG	TTCTAAGTTTGGGTT GCTCA	TCCTAGAACATGCATC ACGC	59.7	385	INTERGENIC	--	--	--
Ca2_P1_20249774	Ca2	20249774	AAT/AATGAT	GCAACAACAACAACAA CAACAA	TGTGATTGGTAATGTG GCAAA	59.6	334	INTERGENIC	--	--	--
Ca2_P1_2026250	Ca2	2026250	GTTTTTTTTTT/GTTTTTTTTTT	ACGGTGGTGGTGACT GTTA	TTTTCTGCATAGGCAA AGCC	58.9	506	INTERGENIC	--	--	--
Ca2_P1_20280019	Ca2	20280019	TAAAAAAAAAAAA/TAAAAAAAAAA	GCAAGGTTTGACAGTG AGCA	CATCGACAACCAATCC ACAG	60.0	554	INTERGENIC	--	--	--
Ca2_P1_20353586	Ca2	20353586	T/TG	TCTCCCTCCTCCTCC ATTT	CATTAAGAGGTTCCCC CTCC	60.0	844	INTERGENIC	--	--	--
Ca2_P1_20407750	Ca2	20407750	TTCTCTCTCTCTCTCTCTCTCTC TCT/TTCTCTCTCTCTCTCTCTCTC TCTCT	CTAACGGCGACTTCTT GGAG	TGGAAGTTGCACTTTC CTTTG	60.0	640	INTERGENIC	--	--	--
Ca2_P1_20423156	Ca2	20423156	ATGT/AT	CATTTTGTTCAAAGTG GGCA	AGAAAGGCTCAAACGA CCAA	59.6	702	INTERGENIC	--	--	--
Ca2_P1_20439742	Ca2	20439742	TTT/TTTATATATCTT	CAGCGTTTTGGCAATT ACAA	TGCTGTCTTCTCCCGA GTTT	59.7	761	INTRON	Ca_25923	LT	--
Ca2_P1_20451589	Ca2	20451589	CAAAA/CA	ACCAAATTGACTCGGT GCTC	TGTGGGATGACCCTTT TTGT	60.1	460	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_20561228	Ca2	20561228	TNNNNNNNNNNNNNNNNNNNNNN	AAGCCATCCAATACGC AAAC	TGTGGAGGGTTGTTTC AAGA	60.0	922	INTERGENIC	--	--	--
Ca2_P1_20647114	Ca2	20647114	AATATATATATATATATATAT/AATATA TATATATATATATATAT	ATCACTCGCACAAACA ACCA	TTGGAAGGAGCCCTTA CCTT	60.2	920	INTERGENIC	--	--	--
Ca2_P1_20673165	Ca2	20673165	GT/G	TCGACTTGTCATCGC TTTG	TACATGCCATAGTGGG GGAT	60.0	667	INTERGENIC	--	--	--
Ca2_P1_20715795	Ca2	20715795	T/TCATCA	GACATTGCATTTTGG CACG	AAATGGATTTCAGCCA ATCG	60.0	539	INTERGENIC	--	--	--
Ca2_P1_2072389	Ca2	2072389	ATTTTTTTTTT/ATTTTTTTTTT	TTCTGGACTTTTCACAT AGCGA	CACACGATTGTGAGGA CTGG	59.9	366	INTERGENIC	--	--	--
Ca2_P1_20907810	Ca2	20907810	AATATATATATATATATATATATATA TATATATATAT/AATATATATATATATAT ATATATATATAT	GTCGATGAGTCTGTGC GTGT	CATAAACGTTGTCCG ATCA	59.9	363	INTERGENIC	--	--	--
Ca2_P1_20919626	Ca2	20919626	ATTTTTTTTTT/ATTTTTTTTTT	ATTTCATGGATGCGGGT ATGT	TTACATCAATGAGCCA ATCG	60.0	552	INTERGENIC	--	--	--
Ca2_P1_20970910	Ca2	20970910	ATTCCCT/A	AACAAAGGAACAAAT GGCG	AGGGACAAAGGGCAA GAAAT	60.0	853	INTERGENIC	--	--	--
Ca2_P1_21000306	Ca2	21000306	TTCCAATC/TTC	GCCATGTCAAAGTATC GCCT	GCCCCGTATTACCAA TGTG	60.1	431	INTERGENIC	--	--	--
Ca2_P1_21028365	Ca2	21028365	TTTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTAT/TTTA TTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTA	GGGGAAGTGGATAAG GTGGT	CCGTAAATGCTGTTTCC CTGT	60.1	441	INTERGENIC	--	--	--
Ca2_P1_21084107	Ca2	21084107	AT/ATT	ACATAATATCTGGCCG GCTG	CTGGCTTTGAAGAGCT TGGT	59.9	469	INTERGENIC	--	--	--
Ca2_P1_21088001	Ca2	21088001	TA/TAAAGCATCA	AGAACGATGACAGTT GGGT	CTTCTGTCCAAAAGC AGCC	60.4	812	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_21208615	Ca2	21208615	T/TCTCAA	TTTGATGAGACCTATG CCCC	ATGAAATGCGCTTGCT TGCT	59.9	329	INTERGENIC	--	--	--
Ca2_P1_21308629	Ca2	21308629	CAAA/CAA	TTTGAAGCAACGAGG AAGT	TTGGTATTGAACTCGG AGGC	60.0	474	INTERGENIC	--	--	--
Ca2_P1_21312312	Ca2	21312312	GTTTTTT/GTTTTTTTT	TATCAGAGTTCTCCCC ACCG	AGAAACCACAACGCAA CACA	60.1	356	INTERGENIC	--	--	--
Ca2_P1_21314611	Ca2	21314611	AG/AGG	CAAACCCTTTCAAGT GCAT	GCACTGCCCAAGAAT TTTA	60.0	443	INTERGENIC	--	--	--
Ca2_P1_21439321	Ca2	21439321	TATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATAA TAA/TATAATAATAATAATAATAAT AATAATAATAATAATAATAATAATA ATAA	TGGAAATCACTCAAT GCAAG	AAGATAGCAACCACAT TCCCA	58.8	751	INTERGENIC	--	--	--
Ca2_P1_21440030	Ca2	21440030	TTATATATATATATATATAT/TTATAT ATATATATATATAT	TGGGAATGTGGTTCCT ATCTT	CAAGAGAATCTCCATC GTCTTTT	59.4	389	INTERGENIC	--	--	--
Ca2_P1_21538005	Ca2	21538005	T/TG	TTCGCACTCCACTCT TCCT	TCAAGTATGGACACGC CAAA	60.0	468	INTERGENIC	--	--	--
Ca2_P1_21553655	Ca2	21553655	TTTATTATTATTATTATTATTATTATTA TTACTATTATTTTTATTATTATTATTAT TATTATTATTATTATTATTATTATT/TTT ATTATTATTATTATTATTATTATTATTA TTATTATTACTATTATTTTATTATTAT TATTATTATTATTATTATTATTATTATT	TGTGCTCTCAATTGTG CTCC	AATTACCCGCATGTTG AAGC	60.0	792	INTERGENIC	--	--	--
Ca2_P1_21596317	Ca2	21596317	TTTATTATTATTATTATTATTATTATTA TTATT/TTTATTATTATTATTATTATTAT TATTATTATTATT	AATCCCTCCCTTCGTC ACTT	TCCCTTTCTACAAGCG TTCA	59.9	210	INTERGENIC	--	--	--
Ca2_P1_21672716	Ca2	21672716	ATT/AT	TGATGCCGTGCCATAA ATAG	TAACCTTGCCTTTGGG TGAG	59.5	595	INTERGENIC	--	--	--
Ca2_P1_2169056	Ca2	2169056	C/CG	AACCTCTCCAAGAGGA TCGG	GGAGAGTGAAACGGA TGGAA	60.6	648	INTERGENIC	--	--	--
Ca2_P1_2169072	Ca2	2169072	TTCTCTCTC/TTCTCTCTCTC	AACCTCTCCAAGAGGA TCGG	GGAGAGTGAAACGGA TGGAA	60.6	648	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/P)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_21714880	Ca2	21714880	TAAAAAAAA/TAAAAAAAA	GCAGAAAAGAGGTGTT TGCC	ATTCGTCCGATGTGAA GTCC	59.9	600	INTERGENIC	--	--	--
Ca2_P1_21717951	Ca2	21717951	CTATATATATATATAT/CTATATATA TATATATATAT	ACAGTTGCCAAAAAGG CTGT	TGATCATTAGCTCCAC TGTCAAA	59.8	312	INTERGENIC	--	--	--
Ca2_P1_21724533	Ca2	21724533	TTATATATATATATATATATATATAT ATATATATATAT/TTATATATATATATAT ATATATATATATATATATAT	TTGTTCCCGCTCTCT TCTA	GGGTGCATTGAGTAA TTGGA	59.9	331	INTERGENIC	--	--	--
Ca2_P1_2174282	Ca2	2174282	ATTTTTTTTTTT/ATTTTTTTTTTT	TGACATCCATCTTATG GGGTC	GGTCTACTCATGTTGA AAGACGC	59.7	674	INTERGENIC	--	--	--
Ca2_P1_21783996	Ca2	21783996	ATTTTT/ATTTTTTT	ATCTCGTGGGTGGATC TGAC	GCTATGGGACCTATCA GGCA	59.9	381	DRR	Ca_23057	--	--
Ca2_P1_21804815	Ca2	21804815	CAT/CATAAAT	CGCCATAGACCATTGG AAAC	TCCATTGATCACACAA CGGT	60.3	860	INTERGENIC	--	--	--
Ca2_P1_21943275	Ca2	21943275	AGCGCG/AGCG	GCAGATTGGAAGGTG TGGT	ACAATCAGCACGCAAG AATG	60.0	461	INTERGENIC	--	--	--
Ca2_P1_22057378	Ca2	22057378	T/TC	GGACAATTGGTGAGG AGAA	TGGGTGAAAGTTACCT TGGG	59.9	250	INTERGENIC	--	--	--
Ca2_P1_22100604	Ca2	22100604	CTTAGTTAGTTAGTTAGTTAGTTAGTT AGTTA/CTTAGTTAGTTAGTTAGTTAG TTAGTTAGTTAGTTA	GGTTTGTGACTGAAAA ACGGA	TGACCCTCACACTTCA CTCG	60.0	350	INTERGENIC	--	--	--
Ca2_P1_22103224	Ca2	22103224	GAA/G	AAGAGAAGGCACTGCC ACAT	TGTAGGAATCCCTTGG CAAC	59.9	804	INTERGENIC	--	--	--
Ca2_P1_22219214	Ca2	22219214	GTGGTGGTCG/GTGGTGGTCGTTGGT GGTCG	CAAAGCGGTCGAAGTA GAGG	GTTGTTCTGGGGTTGT GAGTT	60.0	391	INTERGENIC	--	--	--
Ca2_P1_22286038	Ca2	22286038	GAAGCGC/GAAGCGCACCCAAGCGC	GGGAGGCAACCCAATT TTAT	GCTTAGATCATCCGCT CCTG	60.0	368	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_2235889	Ca2	2235889	TTATTA/TTATTACTATTA	TCTTGCACAACCTATT CGG	AAAAAGCAAAGAAATT GTCAGAA	59.8	330	INTERGENIC	--	--	--
Ca2_P1_22455964	Ca2	22455964	GTATATATATA/GTATATATATATA	AGCGCTGTAAATGTC CACC	CTGGGCAAGGGATCT GAATA	60.1	470	DRR	Ca_14999	--	Trihelix
Ca2_P1_224634	Ca2	224634	TCATTTATAGCATTATAG/TCATTTAT AG	GTTGGGTCACCGTTTC ACTT	GCTCAACATTGGTTC CTTT	59.9	657	INTRON	Ca_16974	--	--
Ca2_P1_22468520	Ca2	22468520	CAAAAAAAAA/CAAAAAAAAAA	TGGCCATGTGCATTGT TTAT	AGGCATCAACGCCTAA ATTG	59.8	674	INTERGENIC	--	--	--
Ca2_P1_22579550	Ca2	22579550	CT/CTTT	CTAAGCCCTCACAAAG GCAG	AGTTGAAGCTTCTGGG ACGA	60.0	292	DRR	Ca_14994	--	--
Ca2_P1_22650634	Ca2	22650634	TG/T	GAGAGGAGGGTTCCC AGAGT	GTGCATCTCCATCTT TGGT	59.7	550	DRR	Ca_14991	--	--
Ca2_P1_2278774	Ca2	2278774	T/TG	GGGCTTGTGTGATTGT GTTTG	GGAAGAGAGGAAGGC TGGAT	60.4	812	INTERGENIC	--	--	--
Ca2_P1_228183	Ca2	228183	GTTTTTTTTT/GTTTTTTTTT	TTCGAAACGTTGGATG AATG	GCAACCATCTGACCAA GTGA	59.5	418	INTERGENIC	--	--	--
Ca2_P1_22846943	Ca2	22846943	ATTTTTTTTT/ATTTTTTTTTT	GGTTCCAAACTCTCGG TTGA	GCACGTGGCTAGGGT TATGT	60.1	569	DRR	Ca_14984	--	--
Ca2_P1_22890617	Ca2	22890617	TTATATATATATATATATATAT/TTAT ATATATATATATATATATAT	GCCACCCCTGTGAGAG TTTC	CACGAGTCCGATAAG GGTGT	59.7	554	INTERGENIC	--	--	--
Ca2_P1_22939976	Ca2	22939976	TATTTAAATTTAA/TATTTAAATTTAAAT TTAA	GCACCCACAAAGTAGG CATT	CTCGGCCTCAATACTT GCAT	60.0	893	INTERGENIC	--	--	--
Ca2_P1_2301289	Ca2	2301289	CATATATATATA/CATATATATATATA	TGCAAAATCAAGCGAA TGAG	TTTTTGAGGTCTACC CAGG	60.0	418	INTERGENIC	--	--	--

[illegible]

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_23718665	Ca2	23718665	TA/T	GATTCTCGGACTTTG GGGT	TTCAACCATAGGAATT TAAGGCA	60.3	265	INTERGENIC	--	--	--
Ca2_P1_2373367	Ca2	2373367	AATATATATATATATATATATA/AAT ATATATATATATATATATATATA	AAAATTGTCAGGTTCA CCGC	GGTGGTGATTGGTG CTCTT	60.0	896	DRR	Ca_12541	R	DBB
Ca2_P1_23792320	Ca2	23792320	GGAGTAAGAGAGTAA/GGAGTAAGAG AGTAAGAGAGTAA	TCAGAATCCCTGATCC CAAG	GCAACCAGGAGGCAA GTCTA	60.0	490	INTERGENIC	--	--	--
Ca2_P1_23819744	Ca2	23819744	ATTT/ATT	TTGTTGTAGGGCACAT TGGA	TGTTCTTTGACGAGA GCAC	60.0	391	DRR	Ca_14945	--	--
Ca2_P1_23820380	Ca2	23820380	TTATATATATATATAT/TTATATATATAT ATATAT	GTGCTCTCGTCAAACG AACA	AAGCGCTGTAATGGT GCAT	60.0	716	DRR	Ca_14945	--	--
Ca2_P1_23838318	Ca2	23838318	AG/A	CAACAATCTCTCCCGC TCTC	TGGCGACTAGGAGGT TTTGA	60.0	665	INTERGENIC	--	--	--
Ca2_P1_23851284	Ca2	23851284	GATATATATATATATATATATATA /GATATATATATATATATATATATA ATA	TGCCTTCATCATGTGG TTGT	ATGGCAATTTCTCAGG ATGG	60.0	501	INTERGENIC	--	--	--
Ca2_P1_23874695	Ca2	23874695	TTATATATATATATAT/TTATATATATAT ATATAT	TTTTTAAGGATAAATTA CGAAACCAA	CCCGTATTTGCTGCAA CTTT	58.6	431	DRR	Ca_14942	--	--
Ca2_P1_23932608	Ca2	23932608	TAAATTAATGAATAAAAAATTAAT/TAAA TTAAT	AAGGCATCCAATCAAA GCAC	CTCAAGATTTTAGCGC CGTC	60.1	460	INTERGENIC	--	--	--
Ca2_P1_23989802	Ca2	23989802	AAAAACAAAACAAA/AAAAACAAAAC AAAACAAA	AATTCGTTGAGCCGGT CTAGT	AGCACGGGGAGTATG AGAAA	60.1	421	INTERGENIC	--	--	--
Ca2_P1_23990182	Ca2	23990182	AAAAACAAAACAAA/AAAAACAAAAC AAAACAAA	TCTCACTACCCCGTG CTTT	ATCCCCTACACCAGAT GCAC	59.7	565	INTERGENIC	--	--	--
Ca2_P1_24019689	Ca2	24019689	TAAAAAAAAAAAAA/TAAAAAAAAAAAA AA	TGCCTTGAACAACCAC TGTC	CCTTTCAGAGAATCGT GGGA	59.7	584	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_24102058	Ca2	24102058	TCC/TC	ACCAAAATCACTGCTC ACCC	GATTGAATCAAACACG CCCT	60.0	467	INTRON	Ca_21670	S	--
Ca2_P1_24102909	Ca2	24102909	GT/GTT	TGGGGGATCCAAGTTA AAAA	GAAACTCTCCGGCAT TCAA	59.2	428	CDS (FRAME SHIFT)	Ca_21670	S	--
Ca2_P1_24124699	Ca2	24124699	ATTTTTTTTTTTTTTT/ATTTTTTTTTTT TT	ATATATCGGGGTTTCAT GGCA	CCATGCTTCACCCCTTG GTAT	60.0	603	INTERGENIC	--	--	--
Ca2_P1_24151703	Ca2	24151703	T/TATGGAA	ATTTGATGTTTGCTTC GGG	GGTGACAGCAAGATTG GATTT	59.9	360	INTERGENIC	--	--	--
Ca2_P1_24241560	Ca2	24241560	ATCT/AT	TTAATGTGTTCGCGGT GAAA	GTTGTTCCCTAGCAC CGTA	60.0	447	INTERGENIC	--	--	--
Ca2_P1_24252139	Ca2	24252139	TAA/TAAGAAA	GATCCTCAAATCGACC TCCA	TGTCACCATTGGTCTC CAAA	60.0	465	INTERGENIC	--	--	--
Ca2_P1_24259838	Ca2	24259838	TAA/TAAA	TCTTCTCCCTCCCTAG CCTC	GCGAATTGCAGACTGA AACA	59.9	825	DRR	Ca_21665	--	--
Ca2_P1_24259982	Ca2	24259982	CAA/CAAA	CATCATCAAAAAGGGG GAGA	GCGAATTGCAGACTGA AACA	59.9	535	DRR	Ca_21665	--	--
Ca2_P1_24349766	Ca2	24349766	AATTTAATT/AATTTAATTATTTAATT	TCTTCAGCCAAGAAG AAAAA	AAAAACGATTGCGAAT GGAG	60.0	614	INTERGENIC	--	--	--
Ca2_P1_24563119	Ca2	24563119	TCCCC/TCCC	CCATCTACTGCCCTTG GAAA	GATCCAGGCAAGGTC AATGT	60.1	260	INTERGENIC	--	--	--
Ca2_P1_24653257	Ca2	24653257	GATATATATATATATATATATATATA TATATATAT/GATATATATATATATATA TATATATATATATATATATATATAT	TGTAGGGTTTGAACGT GGTG	TGGCTACAATCTGTTT ATCCCTC	59.5	564	INTERGENIC	--	--	--
Ca2_P1_24798855	Ca2	24798855	AA/AACAAATAATAATA	TTCTCAAACGTTCG ACCA	CACTTTTCTGCAAAGG CACA	60.4	481	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_24940560	Ca2	24940560	CAAA/CAAAA	GTGAACAATGACCAAG CCAA	CCTAACTCTGCATGGG GAAA	59.5	186	INTERGENIC	--	--	--
Ca2_P1_24943252	Ca2	24943252	CTTT/CTT	AACCCCTCAAAGAAC GACT	AGGGCCCCACTAACTC CTTA	60.0	680	INTERGENIC	--	--	--
Ca2_P1_24948166	Ca2	24948166	CTTTTT/CTTTT	GGTGAGACTTTCGAGG GCTA	GGCATTGAACGTTTTTC ACAA	59.4	295	INTERGENIC	--	--	--
Ca2_P1_24948276	Ca2	24948276	GAAA/GAAA	AAACGTCCAAGGTAAG GGCT	GGCATTGAACGTTTTTC ACAA	60.0	255	INTERGENIC	--	--	--
Ca2_P1_25025231	Ca2	25025231	TAA/TA	CAGCCACCCACCTACA AAGT	ATAGCACCAACAAACC CAGC	60.0	829	INTRON	Ca_14236	--	CO-like
Ca2_P1_25120783	Ca2	25120783	ATTTTTTTTTTT/ATTTTTTTTTTTT	CGATTGAGATTGAAC CGAACA	GGTGGGAGAGCAATA ATGGA	60.2	445	INTERGENIC	--	--	--
Ca2_P1_25171520	Ca2	25171520	TCAACAA/TCAA	GGAAATGAGCTGAATG GGAA	CCAGAGGGGATGTTG AGAAA	60.0	551	INTRON	Ca_14250	T	M-type
Ca2_P1_25241576	Ca2	25241576	GATATATATATATATA/GATATATATAT ATATATATA	TATTTTGGATTTTGGCT CGG	AAATGGAGGAAGGAG GGAGA	59.9	433	INTERGENIC	--	--	--
Ca2_P1_25352886	Ca2	25352886	ATTTTTTTTTT/ATTTTTTTTTTTT	AAAGAGACACATGACA TAACTCCTC	ATGGGGGATGGACCT AGAAC	57.9	685	DRR	Ca_14268	--	--
Ca2_P1_25411964	Ca2	25411964	ATTT/A	CAAAATCATTACTCACC ATAAGTGG	TCACATCAGCCAAAAA GCTG	58.9	405	INTERGENIC	--	--	--
Ca2_P1_25427657	Ca2	25427657	TTATATATATATATATATATATATATAT ATAT/TTATATATATATATATATATATAT ATATAT	TGTTGTTGAAGATGAA ATATTGGC	TTTGCGTAGTGAAGT TGACA	60.2	723	INTERGENIC	--	--	--
Ca2_P1_2546989	Ca2	2546989	AT/ATCATAGTTT	CCCGTCGATCAAAAGA AAAA	TTGAATTGCTTTCCAG TGTC	60.0	705	INTRON	Ca_10592	R	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_25529091	Ca2	25529091	TA/TAGA	CCATTGAATTTACCGA CGAAA	TTTACCGGATTCTGC AAAG	59.8	663	INTERGENIC	--	--	--
Ca2_P1_25529860	Ca2	25529860	CTTT/CTTTTTT	AGCAGCCCAAGCAAGA CTTA	TCATGCCGATTGATAG AGGTT	60.2	553	INTERGENIC	--	--	--
Ca2_P1_25535050	Ca2	25535050	CTTTTTTTTT/CTCTTTTTTTTTTTTTT T	CCAGATTGAACTGGG GAAA	AATCAAGTGGGTTCTGA GTGG	59.9	551	DRR	Ca_14283	R	MYB
Ca2_P1_25615480	Ca2	25615480	A/ATCCACTCTTCTCTCCAC	TTCTCCACCAACCCAA GAAC	GCAAGTTGCTATGTGA GCCA	59.9	489	INTERGENIC	--	--	--
Ca2_P1_25619256	Ca2	25619256	CTTTTT/CTTTTTT	TTGAGAGACCAAAGTG TCCAAA	AAGTGACTATTTCTCTC GGTCCTT	59.8	829	INTERGENIC	--	--	--
Ca2_P1_25661456	Ca2	25661456	AATATATATATATATATATATATA/A ATATATATATATATATATATATATAT ATA	CCCATAGGGATTGCTA ACGA	TGCCCCAGTTATCCAA AAGT	59.9	652	INTERGENIC	--	--	--
Ca2_P1_25713315	Ca2	25713315	CA/CATGAGATA	TCAGCCTTGCTTGTC TTTG	TGCTTGCAATGCTCTC TCTCA	60.0	528	INTERGENIC	--	--	--
Ca2_P1_25767704	Ca2	25767704	GAAGTTAAGTT/GAAGTT	ATGAATTTGGCATCC AACC	CGTGGACAAAGATCGT GATG	59.6	654	INTRON	Ca_14294	G	NAC
Ca2_P1_25791084	Ca2	25791084	ATTTTTTTTTTTTTT/ATTTTTTTTTTT TT	GCAAGTTGAGCCTCAT GGAT	GCCTCGGTTGAAAATT GAAA	60.2	452	INTERGENIC	--	--	--
Ca2_P1_25795167	Ca2	25795167	GAATTTTAAATTTTAA/GAATTTT AAATTTTAAATTTTAA	AGCCACGGCTCTAAG ATCA	TTGGTTTCATTGTTTT GCATT	60.0	674	INTERGENIC	--	--	--
Ca2_P1_25809875	Ca2	25809875	CAATAATAATAATAATAATAATAAT AATAATAATAATAATAATAATAATA ATAATAATAA/CAATAATAATAATA ATAATAATAATAATAATAATAATAA TAATAATAATAATAATAATAATAAT ATAATAA	TGACAAAAATATCCGT AAGAAGCA	AGCTCAAAAGACAAAT GCCG	60.0	535	INTERGENIC	--	--	--
Ca2_P1_25847633	Ca2	25847633	ATATCTAT/ATAT	TTTTAACAGAAGTTGG GATGACA	CAGAACAAAGTTCAAA TCTTCTCG	58.7	762	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Anneling temperature (°C)	Expected 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_P1_26106556	Ca2	26106556	CAAAAA/CAAAAAA	TCTAGCGAAAAGACG AAGC	TCCATTTGGATCAAC CCAT	59.7	699	INTERGENIC	--	--	--
Ca2_P1_26112745	Ca2	26112745	CATATATATATATATATATATATATA TATATATATATA/CATATATATATATAT ATATATATATATATATATA	TCGTTGCCACTCAATA AAAACCT	TCAAATCCGAAACCT TTGC	60.1	195	INTERGENIC	--	--	--
Ca2_P1_2612391	Ca2	2612391	CTCTTTCTTTCTTTCTTTCTTTCTTTCT TTCCTTTCTTTCTT/CTCTTTCTTTCTTT CTTCTTTCTTTCTTTCTTTCTTTCTTT CTT	CCATCTTCCTTCTCAA CATGC	ATGGAGGTGCGTAATT GACA	59.7	449	INTERGENIC	--	--	--
Ca2_P1_2624920	Ca2	2624920	CGGCTGGCT/CGGCT	GGCCAAGTTGCTGAAG GATA	CGCTAAGAGGCCGTTA TCAA	60.2	610	INTRON	Ca_10586	--	--
Ca2_P1_26500379	Ca2	26500379	CAATAATAATAATAATAATAATAAT AATAATAATAATAATAATAATAATA ATAATAATAATA/CAATAATAATAATA TAATAATAATAATAATAATAATAAT AATAATAATAATAATAATAATAATA	ATTGATTCAACGGCT CCAC	TGAACTTGGCCAATAT GTGTG	59.9	516	INTERGENIC	--	--	--
Ca2_P1_26504489	Ca2	26504489	CAA/CAAAA	CCGACGTCCAGTCAGA ATTT	CTCAATTGGACACCGT TCCT	60.1	772	INTERGENIC	--	--	--
Ca2_P1_26509024	Ca2	26509024	AT/ATT	GCTTTTTGAAGTTTC GACG	GGGTTAAGCCCATATG GAAGA	59.9	547	DRR	Ca_17250	C	--
Ca2_P1_26556425	Ca2	26556425	TTATATATATATATATATATATATAT ATATA/TTATATATATATATATATATA TATATA	TCAGGTGCAGATCTTT TCACA	TATTTGGAGAGTTGGG AGCG	59.4	781	INTERGENIC	--	--	--
Ca2_P1_26570798	Ca2	26570798	GAAAAAAAAA/GAAAAAAAAA	GGTGGCATGAGATGA GAGT	TTTACGGGAAGAGAA GTGC	60.1	782	INTERGENIC	--	--	--
Ca2_P1_26691947	Ca2	26691947	AATATATATATATATATATATA/AAT ATATATATATATATATATATA	AGTTTTACAGCGCTTT CGG	TTATTGGCGTGATGT TTTT	59.5	643	INTERGENIC	--	--	--
Ca2_P1_26715780	Ca2	26715780	ATTTTT/ATTTTTTT	AAGGTGAGGTGTGGTT GAGG	TTGGGAAAGGCGATTT GTAG	60.0	518	INTERGENIC	--	--	--
Ca2_P1_26716017	Ca2	26716017	GC/GCC	AAGGTGAGGTGTGGTT GAGG	TTGGGAAAGGCGATTT GTAG	60.0	518	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_26839360	Ca2	26839360	TAAAAAAAAA/TAAAAAAAAA	TTGCCTTTTGAATACC CGAG	TGAGTATGGACACGGA GACG	60.1	606	INTERGENIC	--	--	--
Ca2_P1_26914055	Ca2	26914055	ATTTTTTTTT/ATTTTTTTTTTT	AGGTTTGAACCGTCAC CAAC	TTTGCATGTTCAATCA CTCCA	59.9	255	INTERGENIC	--	--	--
Ca2_P1_2692293	Ca2	2692293	ATTTTTTTT/ATTTTTTTT	AAAGGTGATGAAGCAG ATTTTGA	TGGTGTCTCTCTTCT CTAATCG	60.1	478	INTERGENIC	--	--	--
Ca2_P1_27153936	Ca2	27153936	TTATATATATATATATATATAT/TTAT ATATATATATATATATAT	TCCAACTAGGTGGCA ACAA	TTGCCACTCATTTC TTTC	59.2	478	INTERGENIC	--	--	--
Ca2_P1_27347942	Ca2	27347942	TT/TTATTAT	TTTTGGAATGTGCTGC AAAG	TGAAAAAGGGAAACCA AATGA	59.8	603	INTERGENIC	--	--	--
Ca2_P1_27366969	Ca2	27366969	CAAAAAAAAA/CAAAAAAAAA	TTACCGTTGAATTGC CACA	ATGGGTGTTCATAGCG GAAA	60.0	756	DRR	Ca_15658	DT	--
Ca2_P1_27398740	Ca2	27398740	TTTTAAATTTAAATTTAAATTT/TTTTAA ATTTAAATTTAAATTTAAATTT	TTTCATGGTTGGATTGA CTTTTG	AACCTCCTCCTGCTTG TGAA	59.8	697	INTERGENIC	--	--	--
Ca2_P1_27399194	Ca2	27399194	CTTCAATACTAATAATTCAA/CTTCAA	TCACAAGCAGGAGGAG GTTT	ACCGTCCATCTGAAAT GAGG	59.8	188	INTERGENIC	--	--	--
Ca2_P1_27401550	Ca2	27401550	TAAAAAAAAA/TAAAAAAAAA	GCCGTTGGGTTTGAGT TAGA	CCAAATCACCTCCAGT CACC	60.1	678	INTERGENIC	--	--	--
Ca2_P1_27408634	Ca2	27408634	CATATATATATATATATATAT/CATA TATATATATATATATAT	ATTGCAATTTATGGG TGTT	TGTTGCATGTTTAGAC GACAA	57.8	519	INTERGENIC	--	--	--
Ca2_P1_27420609	Ca2	27420609	CATATATATATATATATATATATATA TAT/CATATATATATATATATATATA TATATATATATATATAT	TTTAGATCCCTTGCAC GACC	CTTCGACACTGTAGCA CCCA	60.1	204	DRR	Ca_15661	--	--
Ca2_P1_27436271	Ca2	27436271	CAAA/CAA	TCCTACGTATCTTTGA TGCGA	CGTGCCCAATCTCTCA ATCT	59.7	382	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_27482007	Ca2	27482007	AATTTGTATGGCATAATT/AATTTGTAT GGCATAATTCATTTGTATGGCATAATT	TTGATGCTGGTTGCTG ACTC	CGGTTCAAACCTCTTCC CGTA	60.0	583	INTERGENIC	--	--	--
Ca2_P1_2749945	Ca2	2749945	CTTT/CTT	ATATGGATTCATGCC CAAA	TTGCATTTTTCAGAGG GAGG	60.0	580	INTRON	Ca_10569	GMO	E2F/DP
Ca2_P1_27538165	Ca2	27538165	CTGATGCATAATGATGCATAAT/CTGA TGCATAAT	CATTCCCCCTACCTCC ATTT	TTGAGGATGATTGAGA GGGG	60.0	432	INTERGENIC	--	--	--
Ca2_P1_27549994	Ca2	27549994	AATATATATATATATATATAT/AATATA TATATATATATAT	GCACAGCACCTTCTT CCTC	TCAGCAAATCATGGTG GAAA	60.0	754	INTERGENIC	--	--	--
Ca2_P1_27560889	Ca2	27560889	TTCCCTCCTATCCCTC/TTCCCTC	GGTGCATTTGGAACC TTTA	CTGCAGCATCCCTACA CTCA	59.8	767	INTERGENIC	--	--	--
Ca2_P1_27614728	Ca2	27614728	AAATAATAATAATAATAATAATAAT AATAATAATAATGCTAATAATAAT AATAATAATTGTAATAATAATAATA ATAACAATAATAATAATAATA/AAATA ATAATAATAATAATAATAATAATAA TAATAATAATAATAATAATAATAATA	CGCGCGAGCCATAATC TAGT	CGACGCCAATCTGCTT ATTT	62.6	625	INTERGENIC	--	--	--
Ca2_P1_27618744	Ca2	27618744	GAATAATAATAATAATAATAATAATA GAAAAAATAATAATAATAATAATAATA	CAACTGTGGGCAATGT CATC	ACAAATGTCGTTGGAT GGGT	60.0	822	INTERGENIC	--	--	--
Ca2_P1_27647945	Ca2	27647945	T/TC	ATGATTTGGAGCCATT CCAG	CAAGTCAGTGCCAAA ATCC	59.9	244	INTERGENIC	--	--	--
Ca2_P1_27668293	Ca2	27668293	TC/T	AGGTTGGGTTTAGCGA CTCA	TTCCCGATCTAGTCCT TTATTCC	59.7	365	INTERGENIC	--	--	--
Ca2_P1_27692325	Ca2	27692325	TG/T	AGACAAAACGTTCAAG TTGTCG	TCTTTAATTGCATGCG CAAA	59.3	762	DRR	Ca_15671	--	ERF
Ca2_P1_27694535	Ca2	27694535	TGAGAGAGAGAGAGAGAGAGAGAGA GATGAGAGAGAGAGAGAGAGAGAGA GA	TTGATTTGCTTGATGG GTCA	TCACACTCCATTTTCC CTCC	60.0	733	INTERGENIC	--	--	--
Ca2_P1_27715428	Ca2	27715428	AT/ATATTT	AAGTCGCATCACCGAT ATTGT	CAAGGCGATTGGAATT GGTT	59.5	372	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_27742692	Ca2	27742692	C/CTTGA	CTCCGTTTTCTGCACA TCAA	TATGAATGAGCAGCAG TGGC	59.8	331	DRR	Ca_15675	--	--
Ca2_P1_27776478	Ca2	27776478	GTTTTTTTTT/GTTTTTTTTT	CAATGAACCTGGTCAA CCCC	GCCCATGTCTGCATAG TAACAA	60.2	407	INTERGENIC	--	--	--
Ca2_P1_27804750	Ca2	27804750	TCC/TC	CAGGAAACTCTGCCTT TTCG	TAGCAGCTGTATGGTG CAGG	60.0	137	INTERGENIC	--	--	--
Ca2_P1_2798745	Ca2	2798745	TCAATAACAATAACAATAACA/ TCAATAACAATAACAATAACA	CAGCACGTGAAGAACC AAAA	TTTGCTCCGCTCTCTC TCTC	59.9	444	INTRON	Ca_10562	B	WRKY
Ca2_P1_28064133	Ca2	28064133	GTATATATATATATATAT/GTATATA TATATATATATATAT	TCAAAATGCCACAATT CCAA	ACATATACCATTGGGG CGAT	59.9	612	INTERGENIC	--	--	--
Ca2_P1_28153616	Ca2	28153616	CTT/CT	ACGCCTTAGAGGGTTG GTTT	TTGAGTTTCCAACCTT GGGG	60.0	323	DRR	Ca_14386	--	--
Ca2_P1_28157957	Ca2	28157957	TTATATATATATATATATAT/TTAT ATATATATATATATATATATATAT	GCATGGACATTCAAAA ATGAGA	CCATGTCTAAGTGGCA GGGT	59.9	583	DRR	Ca_14385	O	MYB_related
Ca2_P1_28202546	Ca2	28202546	TATAATAATAATAATAATAATAATA ATAATAATAATAAT/TATAATAATAATA ATAATAATAATAATAATAATAAT	TGAACCACATCCCTTA TGCTT	CCATGAATGAGAGTGC AAAGG	59.4	632	INTERGENIC	--	--	--
Ca2_P1_28235085	Ca2	28235085	GTTTTTTTTT/GTTTTTTTTT	TCCAAATAGCGACTTC CCAC	TCCAAATGTTACAGCC AGCTC	60.1	567	INTERGENIC	--	--	--
Ca2_P1_28235280	Ca2	28235280	AATATATATATATATATA/AATATAT ATATATATATATATA	TCCAAATAGCGACTTC CCAC	ACAATCCTCAAATGCG GAGA	60.1	701	INTERGENIC	--	--	--
Ca2_P1_28235432	Ca2	28235432	AATATATATATATATATA/AATAT ATATATATATATATATA	TCCAAATAGCGACTTC CCAC	GCTGCATGTTCTTATG CTCG	60.1	849	INTERGENIC	--	--	--
Ca2_P1_28296041	Ca2	28296041	AGTATG/A	GATGCGATCTTGCTTG TTGA	TCGACATGGCATGGTG AATA	60.0	399	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_28304737	Ca2	28304737	TAAAAAAAAAAAAA/TAAAAAAAAA	CATGATTAACGTGGAC GCAA	TCGTCTCGAAATTTGA TGTTTG	60.5	675	INTERGENIC	--	--	--
Ca2_P1_28412021	Ca2	28412021	ATATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTATT A/ATATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTAT TATTATTATTATTA	TGAAATGCACTAAGTG GCTCC	CATGATCAAAACATCA CCGC	60.3	786	INTERGENIC	--	--	--
Ca2_P1_28422143	Ca2	28422143	TAAAAAA/TAAAAA	TGAGGCTGGTCCACAA TACA	TCCAAATATGCACAC TCACA	60.1	413	INTERGENIC	--	--	--
Ca2_P1_28465109	Ca2	28465109	AA/AATA	TCATCGCAGGTGTACC ATGT	AACATTGCACCGGTTT GATT	60.0	414	INTERGENIC	--	--	--
Ca2_P1_28465231	Ca2	28465231	CAAAAA/CAAAA	TCATCGCAGGTGTACC ATGT	GGTATCAGAGCCCA CATGT	60.0	908	INTERGENIC	--	--	--
Ca2_P1_28465336	Ca2	28465336	AAT/A	AAGAGAGGTCACTTTG GCGA	GCAATCCACAGGTA TGCT	60.0	886	INTERGENIC	--	--	--
Ca2_P1_28465620	Ca2	28465620	A/AT	AGTCCATTGCAAAA CACC	GCAATCCACAGGTA TGCT	60.1	553	INTERGENIC	--	--	--
Ca2_P1_28482218	Ca2	28482218	CATA/CATATA	TCCATAGAATTAATGG TCCCC	TTTGCTTTATCAAGCC ACCC	57.7	198	INTERGENIC	--	--	--
Ca2_P1_28556774	Ca2	28556774	GAAAAAAA/GAAAAAAA	TCCTAGCAAATTCAC ACGA	GACAATGAAATTGGGG TTGG	59.3	450	INTERGENIC	--	--	--
Ca2_P1_285679	Ca2	285679	AAATAATAATAATAATAATAAT AATAATAATAACTAATAATAATA ATAATAA/AAATAATAATAATAATA ATAATAATAATAATAATAATACTAA TAATAATAATAATAATAA	AAACGACTCACACCG AAAC	GCCATTGATTCATTC TTCG	60.0	614	INTERGENIC	--	--	--
Ca2_P1_28569036	Ca2	28569036	TGG/TGGG	TCTCAAATGATTGGA AGGC	GACTGGACGTAACCA CGTT	60.0	913	INTERGENIC	--	--	--
Ca2_P1_28569281	Ca2	28569281	T/TC	CATCTGTAATGATGCG CCAC	GACTGGACGTAACCA CGTT	60.1	503	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_28582452	Ca2	28582452	TATT/TATTGAATT	TCGTCGCAAACTTCA TCAG	AAAGGACCAATCGGA AAAA	60.0	761	INTERGENIC	--	--	--
Ca2_P1_28582611	Ca2	28582611	TTATTGTATTGTATTGATT/TTATTGT ATTGTATT	ACCTTCATCAGTTTCG TGCC	AAAGGACCAATCGGA AAAA	60.1	499	INTERGENIC	--	--	--
Ca2_P1_28617666	Ca2	28617666	TTTTATTATTATTATTATT/TTTTATTTA TTTATTATTATTATTATT	ATCGACTCCCGAACTC AAAA	CCACGGTTCCTTAGAGC CATT	59.7	621	INTERGENIC	--	--	--
Ca2_P1_28709767	Ca2	28709767	AG/A	TCATCAAATTCGTAAC GCAA	TGAACACTCTTGTGGA TTCAATG	59.2	715	INTERGENIC	--	--	--
Ca2_P1_28723744	Ca2	28723744	AAAAACACACACACA/AACACACA	AAAAAGCGCTGTTCAT TTCAA	AAAAAGCCTCCACCAG AGGT	59.9	511	DRR	Ca_14359	R	--
Ca2_P1_28812761	Ca2	28812761	TATTAACCTGAATTGACGA/TATTAAC TGAATTGACGATTAACCTGAATTGAC GA	AAGGCGATGATCAAT CCAA	CCAGCATTGTACGAGC TTCA	60.4	316	INTERGENIC	--	--	--
Ca2_P1_28817111	Ca2	28817111	CTTTTGTACTCTTT/CTTTTGTACTC TTTTTGTACTCTTT	TTCATTTCAATTCG ATCCTT	GGCAATGCCACCGTAA AATA	59.8	776	INTERGENIC	--	--	--
Ca2_P1_28873803	Ca2	28873803	GTTTT/GTTTTT	GGCAGGCAACAAGACA AAAT	TCCGTGCATGCCATAA TCTA	60.1	656	INTERGENIC	--	--	--
Ca2_P1_28874011	Ca2	28874011	CTTT/CTT	TGATGGAATGCAATGA AATGA	TCCGTGCATGCCATAA TCTA	59.9	386	INTERGENIC	--	--	--
Ca2_P1_2888796	Ca2	2888796	AAATAATAATAATAATAATAATA/AAA TAATAATAATAATAATAATAATAA	CTTGCCAATACGTGTG TTCC	TGCCTCAATTGTTGAG GAGA	59.1	442	INTERGENIC	--	--	--
Ca2_P1_28905309	Ca2	28905309	TAAAAAAAAA/TAAAAAAAAA	AGGTGTGGATATTTCC GTCG	TTGTGCACCTTCATTT TACCA	59.8	970	INTERGENIC	--	--	--
Ca2_P1_29029807	Ca2	29029807	AAATAATAATAATAATAATAATAAT AATAATAATAATAATAATAATA/AAAT AATAATAATAATAATAATAATAATA ATAATAATAATAA	AGTTGGCTTTTGAC CCCT	AATGTGCCACAACAA AACG	59.9	732	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_29051306	Ca2	29051306	CTTTTTTT/CTTTTTTTT	TTGTTGTGAGCAACCA CCAT	TCGTGAAACCTTGAC TTCA	60.0	837	INTERGENIC	--	--	--
Ca2_P1_29065437	Ca2	29065437	GAAAAAAAAA/GAAAAAAAAA	ACAAAATGCATGGTGC AATC	CACCAGCAATCCTAAT TTCAA	59.4	452	INTERGENIC	--	--	--
Ca2_P1_2907015	Ca2	2907015	AATATATATATATATATATA/AAT ATATATATATATATATATA	TTTCTCTGTGTTTATTG TGC GTT	TTTTTGACTGACGCCT CAAAT	58.9	577	INTERGENIC	--	--	--
Ca2_P1_29072040	Ca2	29072040	ATCTGCAGACTTT/ATCTGCAGACTTT CTGCAGACTTT	TTGCTGGCAGAACAA CAAG	TGTGGGAAGCACCAT GTTTA	60.0	546	DRR	Ca_14332	--	--
Ca2_P1_29170521	Ca2	29170521	TTTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTAT TATTATTATTA/TTTATTATTATTATTAT TATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTA	CCTCTGATTAGGGGTG GACA	GCTGGATTGAGAGTGT GGGT	59.9	446	INTERGENIC	--	--	--
Ca2_P1_29175467	Ca2	29175467	CTATATATATATATATATATATA/CT ATATATATATATATATATATATA	TAGCGGGTTATGGTGG ACAT	CTCCTGATAACGCCAT TG GT	60.2	749	INTERGENIC	--	--	--
Ca2_P1_29212961	Ca2	29212961	TTATATATATATATATATATATATAT ATATATAT/TTATATATATATATATAT ATATATATATATATATATATATAT	TAGTTTGTAACCCGTG CGTC	CAAAAATAAGACATGG TGTTGGA	58.7	273	INTERGENIC	--	--	--
Ca2_P1_29215176	Ca2	29215176	T/TTTGATATTCTCTC	ACGGTTGAGAATTGAG TGGC	CGCACACCTCTAACAA CCAA	60.1	508	INTERGENIC	--	--	--
Ca2_P1_29215461	Ca2	29215461	TTAT/TTATAT	TACTTTAGCAACCACC CGCT	ATGACTCCAACACCAT GCCT	59.8	873	INTERGENIC	--	--	--
Ca2_P1_29220253	Ca2	29220253	GATATATATATATATATATATA/GAT ATATATATATATATATATATATATA ATA	AGGCATGGTGTGGAG TCAT	CTAGTTCGTAACCCGT GCGT	60.4	253	INTERGENIC	--	--	--
Ca2_P1_29220546	Ca2	29220546	GATAATAATAATAATAATAATAAT AATAAT/GATAATAATAATAATAATAAT AATAATAAT	CACGTGTCAAACCTGC CAAT	GTAACCGTTGGAGCAC CACT	59.6	534	INTERGENIC	--	--	--
Ca2_P1_29238503	Ca2	29238503	A/AGTT	TGTGGAACCAACGA ATGT	ACCTCCCGCTAATGTC AATG	59.9	746	DRR	Ca_14317	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_29238544	Ca2	29238544	AAATAATAATAATAATAATAAT AATAATAATAATAATAATAA/AAAT AATAATAATAATAATAATAATA ATAATAATAA	TGTGGAACACCAACGA ATGT	ACCTCCCCTAATGTC AATG	59.9	746	DRR	Ca_14317	--	--
Ca2_P1_29239999	Ca2	29239999	AAT/A	GGCTGCTGATCCTGTT CTTC	CTGACGGACGGACTC ATTTT	60.0	482	INTERGENIC	--	--	--
Ca2_P1_29240150	Ca2	29240150	TC/TCACC	CTTAGAGCATCTCCAA CGGC	GAAGCATCGTTCCTTC CTGA	60.0	134	INTERGENIC	--	--	--
Ca2_P1_29240273	Ca2	29240273	ATTTTTTTT/ATTTTTTT	CTTAGAGCATCTCCAA CGGC	CAACGGTGAACCAAT ATGGG	60.0	671	INTERGENIC	--	--	--
Ca2_P1_29240382	Ca2	29240382	TCCC/TCC	CTTAGAGCATCTCCAA CGGC	CCTTGCACTATCATT TCGGA	60.0	803	INTERGENIC	--	--	--
Ca2_P1_29252004	Ca2	29252004	GTT/GT	TCAAAGGTGCACTCTT GCTATT	TGGCTCCGGAAAGAC TAAA	59.0	502	INTERGENIC	--	--	--
Ca2_P1_29253047	Ca2	29253047	TTTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTAT TATT/TTTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTA TTATTATTATT	GACACCCAAATATAGT GTCAACGA	CCCGGTATAGGGTC TCACT	60.2	583	INTERGENIC	--	--	--
Ca2_P1_29314373	Ca2	29314373	GATC/GATCATC	CCAAAGCAAATCACAG AGCA	AGGTGACATTCATGGG CAGT	60.0	433	CDS (large-effect mutations)	Ca_25184	TR	FAR1
Ca2_P1_29339791	Ca2	29339791	CAAA/CAAAA	CCACAGCCTACCTGA ACAT	CCCAAGGTATGCAGTG GATT	60.0	502	DRR	Ca_25183	TZ	--
Ca2_P1_29348083	Ca2	29348083	TTATATATATATATATATATAT/TTAT ATATATATATATATATATATAT	TTTTCCAACACCAGAG TCCC	GATGCCTCATCGTGGA GATT	59.9	629	INTERGENIC	--	--	--
Ca2_P1_2941315	Ca2	2941315	GGG/GGGCCGG	CAAAACCATTTGGTCCC TTTA	AAGTTTGAATCTTGAG GGTGG	59.7	695	INTERGENIC	--	--	--
Ca2_P1_29431087	Ca2	29431087	CATAATAATAATAATAATAATAA /CATAATAATAATAATAATAATAAT AATA	CATGCGTTCCTTGTTG TAGA	CCGATATTTATGGCAC GACA	59.7	321	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_29444244	Ca2	29444244	ATTTT/ATTTT	AAATCCGACTGTCTAA CCCG	TTTTCCTCCAATTTA GTCCAA	59.1	826	INTERGENIC	--	--	--
Ca2_P1_29445825	Ca2	29445825	TGTCTAACCCGTCTAACCCG/TGTCTA ACCCG	TCACCCACACTCTCAA TCCA	CCCTACCTAGGGGTG GACAT	60.1	419	INTERGENIC	--	--	--
Ca2_P1_29445927	Ca2	29445927	AACCCGAACCC/AACCCGAACCCACC CGAACCC	TGTCTAACCCGTCTAA CCCG	CCCTACCTAGGGGTG GACAT	60.0	138	INTERGENIC	--	--	--
Ca2_P1_29520346	Ca2	29520346	TTAATAATAATAATAATAATAATAA TAATAATAATAATAA/TTAATAATAA ATAATAATAATAATAATAA	ACACGTTTGTGTTGTG GCAA	GTTGGCTTTGTACCC CTCA	60.1	599	DRR	Ca_16133	H	--
Ca2_P1_29534597	Ca2	29534597	ATTTTTTT/ATTTTTTT	AGAGTCGCTCCCAAGC ATTA	GGAGTGGTTGACGTT GGATT	60.0	472	INTERGENIC	--	--	--
Ca2_P1_29551226	Ca2	29551226	CCAC/CC	CCATGAACAAGTCAAA ATCCG	AGCAAGACAACCAACA ACCC	60.4	743	INTERGENIC	--	--	--
Ca2_P1_29563734	Ca2	29563734	C/CA	TTTAGAAATCTGAAAT GCAATCAA	CGGGACAACCTTTCA ACAAA	59.2	715	INTRON	Ca_16130	--	--
Ca2_P1_29564147	Ca2	29564147	AATATATATATATAT/AATATATATATA T	CTCCATGATGTCAACC ATGC	AATTTCCGGGAGGAAT GAGT	59.9	890	INTRON	Ca_16130	--	--
Ca2_P1_29608982	Ca2	29608982	TAAAAAA/TAAAAA	TTTGCCACAACAAAA CGTG	TGAAATTTCCCTACGA TGCC	60.6	504	INTERGENIC	--	--	--
Ca2_P1_29621106	Ca2	29621106	ATTTTTTTTT/ATTTTTTTTTTT	CGATGGTAAGCGCAAT TAAA	CAAAAACAGAAGCACA GGCA	58.8	490	INTERGENIC	--	--	--
Ca2_P1_29659079	Ca2	29659079	CAAAAAAAAA/CAAAAAAAAA	CGACGATCTCATTTAG CAATCA	TTTGCAATACGGATT GATGA	60.2	384	INTERGENIC	--	--	--
Ca2_P1_29679294	Ca2	29679294	T/TTAAC	TGCATGAACACCAC CATT	AGGAGTGTGTCGTTT TGGA	60.0	885	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_2969263	Ca2	2969263	C/CAAATTAAT	TTCCAAAATCCCTCAC ATCC	CGGAACATCGTGTCT CCTT	59.7	408	DRR	Ca_10546	--	--
Ca2_P1_2975084	Ca2	2975084	GTATTATT/GTATT	ATCTACGAAGACGTGG TGGG	TGAGGATTAATTGGCT GCTCT	60.0	852	INTERGENIC	--	--	--
Ca2_P1_2976254	Ca2	2976254	TTA/T	TTTCATCCTCTTTTGGT CGG	GGGGCTGATTAATCCA CCTTA	60.0	528	INTERGENIC	--	--	--
Ca2_P1_2977761	Ca2	2977761	A/ACTT	CAACTTGCCAAACAGC TTCA	TGGTGCAAGGATAGTA CGACA	60.0	620	INTERGENIC	--	--	--
Ca2_P1_2978014	Ca2	2978014	CTAT/CTATAT	TTGCTGTAATTGTTGC ACATGA	CCTCCCCAACTTGTA TTTCTG	60.2	542	INTERGENIC	--	--	--
Ca2_P1_29789566	Ca2	29789566	AATTATTATTATTATTATTATT ATTATTATTATTAT/AATTATTATTATTA TTATTATTATTATTATTATTAT	TCCATTGGGGTATT TTGA	CTCCGCTACCTAAATC GACC	60.0	743	INTERGENIC	--	--	--
Ca2_P1_29802522	Ca2	29802522	GATATATATATATATATATATATA /GATATATATATATATATATATATA ATA	TTCTCTGGGAAATCGA CCAC	TCTTGCAATTTTCCAA GTTTCG	60.1	728	INTERGENIC	--	--	--
Ca2_P1_29819377	Ca2	29819377	GTTTTTTTTTTTTT/GTTTTTTTTTTTT T	TAATGGGGACCAATTT CTCG	CTAAACCTCGCGATA ACGG	59.8	157	INTERGENIC	--	--	--
Ca2_P1_29829880	Ca2	29829880	T/TA	CTTTTCGTCGGAGTTT GTCC	TCGTCCTCTGGTTTTT TCGT	59.7	476	INTERGENIC	--	--	--
Ca2_P1_29829940	Ca2	29829940	TT/TTTCGAAAAAAT	CTTTTCGTCGGAGTTT GTCC	TCGTCCTCTGGTTTTT TCGT	59.7	476	INTERGENIC	--	--	--
Ca2_P1_29835133	Ca2	29835133	GC/G	AAGGCAACAACAAACA AGCC	TGTGACCGTTGAAAA TTCA	60.2	402	INTERGENIC	--	--	--
Ca2_P1_2984306	Ca2	2984306	GTTTTTTT/GTTTTTTT	GCTCACACAGCAAAA ACCA	TCTCTTCTTAGACCG GAGCA	59.9	443	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_2984359	Ca2	2984359	CTTTTTTTTTTT/CTTTTTTTTTT	GCTCACAAACAGCAAAA ACCA	TCTCTTTCTTAGACCG GAGCA	59.9	443	INTERGENIC	--	--	--
Ca2_P1_2984403	Ca2	2984403	GAT/GATATAT	GCTCACAAACAGCAAAA ACCA	TCTCTTTCTTAGACCG GAGCA	59.9	443	INTERGENIC	--	--	--
Ca2_P1_2984623	Ca2	2984623	CATT/CA	TGCCAAACCAATGTCT TCTT	GAGTCTCATGTCTCAA CGAGGA	58.2	663	INTERGENIC	--	--	--
Ca2_P1_2985774	Ca2	2985774	ATGT/AT	GTGAAGCTGTATGGCC CAAT	AGATCTGGGTCGGGA AAAGT	60.0	540	INTERGENIC	--	--	--
Ca2_P1_2986282	Ca2	2986282	TTATATAT/TTATAT	TCAATCAACTTTTCCC GACC	GGACCAACTTTTGAAC ACATGA	59.9	712	INTERGENIC	--	--	--
Ca2_P1_2987500	Ca2	2987500	TAAAAAAAA/TAAAAAAAAA	GCCAAATGATTGGTT GCTA	GCCGACCATGGAGTA ATTGT	61.0	700	INTERGENIC	--	--	--
Ca2_P1_2996094	Ca2	2996094	T/TA	TTCTAAGGACCAACGC AACA	GTATGATCGATTATGC GCGA	59.3	434	INTERGENIC	--	--	--
Ca2_P1_2996172	Ca2	2996172	ATTT/ATT	TTCTAAGGACCAACGC AACA	GTATGATCGATTATGC GCGA	59.3	434	INTERGENIC	--	--	--
Ca2_P1_29962779	Ca2	29962779	G/GC	AGCCAACGGACCACTA ACAC	TTCGCCATTCTTCTC GTCT	60.0	237	INTERGENIC	--	--	--
Ca2_P1_29962869	Ca2	29962869	TAACAACAA/TAACAA	TGGAAGCCATGATTAG GAGG	TCTCCCATTGTTGTT GATG	60.0	182	INTERGENIC	--	--	--
Ca2_P1_29964324	Ca2	29964324	ATTTTTTT/ATTTTTTTT	TGACAAAACCAACACA CAAAAA	TGTCTTTCATGAGCAT CCAGA	59.0	178	INTERGENIC	--	--	--
Ca2_P1_29976673	Ca2	29976673	ATTTTTTT/ATTTTTTTT	AAAAGCGCGCTCATT GAGT	AAAGCTTTGAAAGTCA AATCCTAC	59.3	118	INTERGENIC	--	--	--

[illegible]

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_3011716	Ca2	3011716	G/GA	TGATTGGGGTGTTC GAAA	TCCGCACCAACATT AAAA	58.9	657	INTERGENIC	--	--	--
Ca2_P1_3011986	Ca2	3011986	GTTTTTTTTT/GTTTTTTTTT	TGTGTGTGAAAAATT GGTGA	TCCGCACCAACATT AAAA	59.8	577	INTERGENIC	--	--	--
Ca2_P1_30125989	Ca2	30125989	TAAAAA/TAAAAA	TTCCACTTATGGTGAG TAATGATTTT	TTGTGAGCATGAGAAG TTGTTG	59.3	641	INTERGENIC	--	--	--
Ca2_P1_30146454	Ca2	30146454	CAAAAA/CAAAAAA	GCCCAAAACCAATTT AGCA	AAGACCCAGAACTTC CCGT	59.9	452	INTERGENIC	--	--	--
Ca2_P1_30165012	Ca2	30165012	T/TGA	TTGTTGTGACATCGAA CGTCT	CAACAATTTCTCATGC TCGC	59.2	560	INTERGENIC	--	--	--
Ca2_P1_3016524	Ca2	3016524	GAAAAAAA/GAAAAAAA	TGGGAGAGATAAACG CTGC	TCTTTCAACCTCAA AAGTGC	60.4	353	INTERGENIC	--	--	--
Ca2_P1_30171972	Ca2	30171972	AAT/AATAATTATTAT	TGAAAGGTTAGAGAA AATGACATC	TTGGGTAGCCAAGGTT TCAC	58.0	293	INTERGENIC	--	--	--
Ca2_P1_30174020	Ca2	30174020	CTT/CTTT	TTATCCCCGCATATTG GACT	AGTCCTTGGGACCGAA AAGT	59.3	227	INTERGENIC	--	--	--
Ca2_P1_30187523	Ca2	30187523	GATATATATATATATATATATA/G ATATATATATATATATATA	GGACCATAGGTCAGG GGTTT	GAGGTCTGGTAACCTCA AATAGGAA	60.1	870	INTERGENIC	--	--	--
Ca2_P1_30198484	Ca2	30198484	GAAAAAAA/GAAAAAAA	GCTCGCTTATTCAAT ACCCA	CATTGGCAACGACTTT TTCA	59.2	267	INTERGENIC	--	--	--
Ca2_P1_3020857	Ca2	3020857	AT/ATT	GCATAATCTATATCGG CTTCTCA	ATTTCGGAACGTTTT GCAG	58.9	628	INTERGENIC	--	--	--
Ca2_P1_3021004	Ca2	3021004	TAAAAAAA/TAAAAAAA	ATCAACAACGCATACC AACA	ATTTCGGAACGTTTT GCAG	57.5	380	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_3021370	Ca2	3021370	CACTA/CA	TGCAAAACGTTTCGA AATA	TCAAAAATTGATTCCA CCCA	59.2	241	INTERGENIC	--	--	--
Ca2_P1_3022120	Ca2	3022120	TCC/TC	CATAAGTCTGGCCTAC GGCT	AGGACCAGGACCACTT GTGT	59.4	756	INTERGENIC	--	--	--
Ca2_P1_3022370	Ca2	3022370	T/TAGTCTGTAAGA	TCCTGAACAAATGCA CCAA	TCTGTCTATGGCCTG ACCT	60.1	379	INTERGENIC	--	--	--
Ca2_P1_3022599	Ca2	3022599	GTGGTCCTGGTCCT/GTGGTCCT	TCCTGAACAAATGCA CCAA	TGAGAACTTTCGAGT CGGG	60.1	614	INTERGENIC	--	--	--
Ca2_P1_3022835	Ca2	3022835	TTAA/TTAATAA	CCCGACTCGAAAGTTT CTCA	AAAATTGACACGGCTT CGTC	60.4	544	INTERGENIC	--	--	--
Ca2_P1_3023037	Ca2	3023037	TAAAAAAA/TAAAAAAA	CCCGACTCGAAAGTTT CTCA	AAAATTGACACGGCTT CGTC	60.4	544	INTERGENIC	--	--	--
Ca2_P1_3023630	Ca2	3023630	ATTTTTTT/ATTTTTT	GACGAAGCCGTGTCAA TTTT	TCGACTCCAACAACAA CGTAA	60.1	508	INTERGENIC	--	--	--
Ca2_P1_30243585	Ca2	30243585	CTT/CT	TTCCTACTCCACATTT TAACGA	GCCTGTATCCAGCCAT TTGT	59.9	467	INTERGENIC	--	--	--
Ca2_P1_3024878	Ca2	3024878	ATTTTTTT/ATTTTTTTTT	CTGGTTTTCAAACGCG CTAC	CGGGGTCGGTATTATT TTGA	60.8	799	INTERGENIC	--	--	--
Ca2_P1_3029449	Ca2	3029449	TTTAATAATTATT/TTTAATAATTATTA TAATTATT	ACCGCTCTATTAAGGG CGAG	TCCATCGCAATTGAAT AATGA	60.7	765	INTERGENIC	--	--	--
Ca2_P1_3029534	Ca2	3029534	ATAAT/A	ACCGCTCTATTAAGGG CGAG	TCCATCGCAATTGAAT AATGA	60.7	765	INTERGENIC	--	--	--
Ca2_P1_3030942	Ca2	3030942	CAAGA/C	TTTTCATTTTCTCCCTT CCCT	TCCATCGCAATTGAAT AATGA	59.1	592	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_3031259	Ca2	3031259	ATTTTT/ATTTTT	TCAATTGCGATGGATA GAGAAA	AATTGGTGATCCGATT GCGT	59.7	647	INTERGENIC	--	--	--
Ca2_P1_3031554	Ca2	3031554	C/CCAAAATATCT	CATCTTGTCCATCAAA CGGA	GGTGATCCGATTGCGT ATCC	59.5	279	INTERGENIC	--	--	--
Ca2_P1_30328574	Ca2	30328574	ATTTTTTTTTTTTT/ATTTTTTTTTTTTT	TTTGAAGAAATGCGCA AGTG	TCATCCTCTCCATTCA CGTTT	60.0	466	DRR	Ca_12520	--	MIKC
Ca2_P1_3033081	Ca2	3033081	TA/TAA	AACGCAACAAGCTCCA AAAG	CGTTAGGCCTTATCCT AGCC	60.4	902	INTERGENIC	--	--	--
Ca2_P1_30341034	Ca2	30341034	TAA/TAAA	TGTCTTATCCTGAAC CAAACG	ATTTGGTCAACCACCC AAAA	59.8	537	INTERGENIC	--	--	--
Ca2_P1_30342173	Ca2	30342173	CA/CATA	TGAATCATTGACAAA GACTCAATC	CTAGCCCAAGATCCAA ACCA	59.5	572	INTERGENIC	--	--	--
Ca2_P1_30342240	Ca2	30342240	ACTCT/ACT	AAAAATGAAATTGAGG CATTTTA	CTAGCCCAAGATCCAA ACCA	57.0	104	INTERGENIC	--	--	--
Ca2_P1_30342844	Ca2	30342844	ATTTTT/ATTT	TGCCTAATTTTGACTTC CCC	TCTCTAATCTGCTACG CATCCA	59.0	439	INTERGENIC	--	--	--
Ca2_P1_30342955	Ca2	30342955	TAAA/TAAAA	TGCCTAATTTTGACTTC CCC	TCTCTAATCTGCTACG CATCCA	59.0	439	INTERGENIC	--	--	--
Ca2_P1_30343063	Ca2	30343063	ATTTTTTTTTTT/ATTTTTTTTTTT	TGCCTAATTTTGACTTC CCC	TGCCTAACACATTCAA CTCCTTT	59.0	898	INTERGENIC	--	--	--
Ca2_P1_30343145	Ca2	30343145	TAAA/TAA	TGGATGCGTAGCAGAT TAGAGA	CGTCACTTGGTCACTT GGTG	60.0	581	INTERGENIC	--	--	--
Ca2_P1_30343226	Ca2	30343226	C/CT	TGGATGCGTAGCAGAT TAGAGA	CGTCACTTGGTCACTT GGTG	60.0	581	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_30343408	Ca2	30343408	TTAATAAA/T	TGGATGCGTAGCAGAT TAGAGA	CGTCACTTGGTCACTT GGTG	60.0	581	INTERGENIC	--	--	--
Ca2_P1_30343585	Ca2	30343585	CACCAAGTGACCAAGTGAC/CACCAA GTGAC	CAATCAATAATTTTGAC GTCGG	CATTTCACGGGGCTCT TAAA	59.4	658	INTERGENIC	--	--	--
Ca2_P1_30344009	Ca2	30344009	A/AC	TTTAAGAGCCCCGTGA AATG	AACGATGGAACTTTGT TGCAC	60.1	311	INTERGENIC	--	--	--
Ca2_P1_30344081	Ca2	30344081	CAAAAAAAAA/CAAAAAAAAA	TTTAAGAGCCCCGTGA AATG	AACGATGGAACTTTGT TGCAC	60.1	311	INTERGENIC	--	--	--
Ca2_P1_30345200	Ca2	30345200	TG/T	TAAGTTGGGCGAATC ATCC	TGGGGTGGGTGTTTA GAAAA	59.9	524	INTERGENIC	--	--	--
Ca2_P1_30352364	Ca2	30352364	ATTTTTTT/ATTTTTT	TAAAAAGTGTTTCGGT TCGG	TTATTTTCCCTTTTGG CCC	60.0	826	INTERGENIC	--	--	--
Ca2_P1_30352714	Ca2	30352714	GAAAA/GAAAAA	GGGCCAAAAGGAAAA ATAA	CCTGTCACTCTCCACT TCACC	60.1	369	INTERGENIC	--	--	--
Ca2_P1_30356368	Ca2	30356368	AATATATA/AATATATATA	CCACATGGCTGCTTAT GATG	AGCGCATGGTAATGTT GAGA	60.1	459	DRR	Ca_12517	--	ERF
Ca2_P1_30356995	Ca2	30356995	GAAA/GAA	TCTCAACATTACCATG CGCT	GCCTTGATGTGTGTT GATG	59.3	736	INTERGENIC	--	--	--
Ca2_P1_30361193	Ca2	30361193	GAAAAAAAAA/GAAAAAAAAA	GAAACGGAGACGGGT GTAGA	TCTGCCACTATTAGCG GATAAG	60.1	543	INTERGENIC	--	--	--
Ca2_P1_30361475	Ca2	30361475	TATC/TATCGATC	TCCGCTAATAGTGGA GATAAA	ACCAATTTGTGAAAGC TGGC	58.9	617	INTERGENIC	--	--	--
Ca2_P1_30365282	Ca2	30365282	GATATATATATAT/GATATATATATA T	AATCCCAGGGCCAAC TATC	AAGCTGTTTGATTCCA TGCC	60.2	539	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_30367772	Ca2	30367772	TA/TATTTGTAAA	CTTCCACCACCAATG ACCT	TACCTGGCGCGTTT TTTT	59.8	300	DRR	Ca_12515	Q	--
Ca2_P1_30367815	Ca2	30367815	CA/CAA	CTTCCACCACCAATG ACCT	ATCAATTGAGCGCCTG TAGC	59.8	371	DRR	Ca_12515	Q	--
Ca2_P1_30369374	Ca2	30369374	TAAAA/TAAAA	TGTACTTCCTCCGATT CCAAA	TGAATGACGACGACG GTAAA	59.6	632	DRR	Ca_12515	Q	--
Ca2_P1_30373739	Ca2	30373739	TAAAAAAAA/TAAAAAAAA	CGGGAATGAAAAGTGG AAGA	CCAGGGGCAAAACAAA GTAA	60.0	518	DRR	Ca_12514	S	--
Ca2_P1_30375028	Ca2	30375028	AC/A	AATTGAATCAACCCCT TTCC	AAGGAGGGACTAGT TTGGG	60.0	308	DRR	Ca_12514	S	--
Ca2_P1_30375161	Ca2	30375161	ACCCCC/ACCCC	AATTGAATCAACCCCT TTCC	GGTTTGAAGCTAATGT CGTGC	60.0	737	DRR	Ca_12514	S	--
Ca2_P1_30375213	Ca2	30375213	TAAAAAA/TAAAAAA	AATTGAATCAACCCCT TTCC	GGTTTGAAGCTAATGT CGTGC	60.0	737	DRR	Ca_12514	S	--
Ca2_P1_30375265	Ca2	30375265	CT/C	AACCCCTTCCTTTTG TGTC	TTGATTTTGGGGTGG CTAA	60.2	963	DRR	Ca_12514	S	--
Ca2_P1_30380354	Ca2	30380354	GTTTTTTTTT/GTTTTTTTTT	ACCTTTGGGGTGT AGGC	TTTTGAGACAGCTCAA TCGAA	60.2	273	INTERGENIC	--	--	--
Ca2_P1_3038248	Ca2	3038248	GAAAAAA/GAAAAAA	ACTTGCACCTTGAGT GCCT	CCCTGTGCCTTATGG TTTG	59.9	784	INTERGENIC	--	--	--
Ca2_P1_30383360	Ca2	30383360	AC/A	TCATAAGGTGGGTCCA AACC	TGATGGCTTGCCATAT TCTT	59.6	805	INTERGENIC	--	--	--
Ca2_P1_30385121	Ca2	30385121	A/AAT	TGATTTGGCCCAACAC CTAT	GCAAATACAAAGGACC GTCAA	60.2	381	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_30386487	Ca2	30386487	AGTGGG/AGTGGGTGTGGG	CAAAACAGGCACATG GTGG	AAAGCTGCAAAAAGTT GGGA	59.8	392	DRR	Ca_12512	R	--
Ca2_P1_30389809	Ca2	30389809	CG/C	CGACAACAGCTTTTC CTCC	CCACCAACACTTTTC TGCC	60.0	586	INTRON	Ca_12512	R	--
Ca2_P1_30391104	Ca2	30391104	AT/ATT	TTGCATTCTCAAGGCT CAGA	TTTTGGGAGTGCTTGG TTTC	59.7	461	INTRON	Ca_12512	R	--
Ca2_P1_3039238	Ca2	3039238	ATTTTTTT/ATTTTTTTT	CAGATAAGAGAGCGT GGGC	TGAGTGGACAATCCAA CCATT	60.0	218	INTERGENIC	--	--	--
Ca2_P1_3039311	Ca2	3039311	CTTTT/CTTT	AGATAAGAGAGCGTG GGCA	GGAATAAGGACGGG GAAAA	60.0	595	INTERGENIC	--	--	--
Ca2_P1_30393573	Ca2	30393573	CT/CTT	TCCCAACAGGAATGA AACC	AGTGCAAGCATCATGG AGAA	59.8	714	INTERGENIC	--	--	--
Ca2_P1_3039362	Ca2	3039362	CCACTCACTCA/CCACTCA	AGATAAGAGAGCGTG GGCA	GGAATAAGGACGGG GAAAA	60.0	595	INTERGENIC	--	--	--
Ca2_P1_30393638	Ca2	30393638	TAAAAAAAAA/TAAAAAAAAA	TCCCAACAGGAATGA AACC	AGTGCAAGCATCATGG AGAA	59.8	714	INTERGENIC	--	--	--
Ca2_P1_30393886	Ca2	30393886	TC/T	ATTCTCCGATTTTCCC CAT	TGTTTTCACTGCAAGC ATCA	59.6	475	INTERGENIC	--	--	--
Ca2_P1_3039423	Ca2	3039423	AT/A	AGATAAGAGAGCGTG GGCA	GGAATAAGGACGGG GAAAA	60.0	595	INTERGENIC	--	--	--
Ca2_P1_30394906	Ca2	30394906	CAAAA/CAAAAA	GAGAGAGGGGCAAGG TCAC	AGGCTTTTGTGTTGT TGGG	59.8	392	INTERGENIC	--	--	--
Ca2_P1_30394922	Ca2	30394922	AA/AATATA	GAGAGAGGGGCAAGG TCAC	AGGCTTTTGTGTTGT TGGG	59.8	392	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_30395203	Ca2	30395203	CATATATATA/CATATATATATA	CCCAACAACAACAAA GCCT	AAACCAGCATGACAAA AGCA	60.0	289	INTERGENIC	--	--	--
Ca2_P1_30395542	Ca2	30395542	CAAAAA/CAAAAA	CCCAACAACAACAAA GCCT	CCAAATGAAACAATCG AGGAA	60.0	780	INTERGENIC	--	--	--
Ca2_P1_30399984	Ca2	30399984	CATATATATATATATAT/CATATATA TATATATAT	AGGTGGGCCCATCT TGAT	AGTGAGGACCACTTC CTCA	60.6	836	INTERGENIC	--	--	--
Ca2_P1_30401833	Ca2	30401833	ATTT/ATT	GGTCGAGTTTGCAATG ATGA	TGACCACAAGTTGCCA AAAA	59.7	761	INTERGENIC	--	--	--
Ca2_P1_30403193	Ca2	30403193	ATTGAGTT/ATTGAGTTGAGTT	AAAGTTGCACCAAGAG GTGG	TCTCTGGCCTTCGTTA GTCAA	60.1	989	DRR	Ca_12511	--	--
Ca2_P1_30415385	Ca2	30415385	AAAACAT/A	CAAAACAGGGGGCTGT AAAA	AATCTTCAACGGGTTG TTGC	60.0	506	INTRON	Ca_12510	--	--
Ca2_P1_30419465	Ca2	30419465	ATAATTT/ATAATTTATTATTCGTAATT T	AGTGGTTGCAATCATC ACCA	CGGTGGAGAACAGAA TTTCAA	60.0	654	DRR	Ca_12509	C	M-type
Ca2_P1_3042033	Ca2	3042033	TTTTGTTTGCTT/TTT	TGCCAAATCATGCGTT TTTA	CTCTGATCGGAAGGTT GACA	60.1	100	INTRON	Ca_10543	--	--
Ca2_P1_30420544	Ca2	30420544	CTTTTTTTTTTTTT/CTTTTTTTTTTT	AGGCTTTGGCTTTGTA AGCA	AACTCGGGACCTCACA GTTG	60.0	417	INTRON	Ca_12509	C	M-type
Ca2_P1_30432943	Ca2	30432943	GTTTTTTTTTT/GTTTTTTTTT	ATGAATCAAACGAACA CCGA	TTACAGTTAAGGGCCA ACCG	59.0	778	INTERGENIC	--	--	--
Ca2_P1_30433128	Ca2	30433128	TAAAAAAAA/AAAAAAAAA	GAAATTCATTTATCTC CCCC	TTACAGTTAAGGGCCA ACCG	59.6	737	INTERGENIC	--	--	--
Ca2_P1_30433778	Ca2	30433778	TA/TAA	CGGTTGGCCCTTAAC GTAA	TCCTCAAACCCAAAT GGTC	60.0	674	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_30439365	Ca2	30439365	GAAAAAAAAA/GAAAAAAAAA	CCAAGTTCAACACTCA TATGCC	ATGGAGAATTCAGCCC AACA	59.5	406	INTERGENIC	--	--	--
Ca2_P1_30447611	Ca2	30447611	A/A/T	CTTTTGCTTCTCGGC CTTG	CGTGCTCATCTCCATT GTTG	60.0	891	INTERGENIC	--	--	--
Ca2_P1_30447653	Ca2	30447653	AC/A	CTTTTGCTTCTCGGC CTTG	ATCTCCTCAGCATTGT CGCT	60.0	943	INTERGENIC	--	--	--
Ca2_P1_30447804	Ca2	30447804	TTG/TTGTG	AACAAAAGGGGTGGA AAGC	ATCTCCTCAGCATTGT CGCT	60.3	809	INTERGENIC	--	--	--
Ca2_P1_30448097	Ca2	30448097	GGTGGC/GGTGGCAGTGGC	CAACAATGGAGATGAG CACG	TTTTCTCTTCCCACC CTCT	60.3	111	CDS (large-effect mutations)	Ca_12507	--	--
Ca2_P1_30448973	Ca2	30448973	GAAAAA/GAAAAA	GCTTTTGATTTCTAAA GGATGG	TCTTCCTGTTGGTTC TTTGG	58.4	759	DRR	Ca_12507	--	--
Ca2_P1_30449164	Ca2	30449164	TAAAAAA/TAAAAAA	TGTTGCAAGAGAAAG AACTCA	TGACGGTGGCAATCG ATATT	59.2	557	DRR	Ca_12507	--	--
Ca2_P1_30450495	Ca2	30450495	TAAAAAA/TAAAAAA	AGAATTTGGATTGTT GCGG	ACTCTCTTCACCGTT GTGG	59.9	413	INTERGENIC	--	--	--
Ca2_P1_30456719	Ca2	30456719	TAAAAAA/TAAAAAA	TTCTGATTCGATCT CACC	CATACCTTGGGATGC AAAG	60.0	601	DRR	Ca_12504	--	WOX
Ca2_P1_30457303	Ca2	30457303	A/A/T	TGCATCCCCAAGGTAT GACT	CCACCATTAGATTGC GGTT	60.3	649	DRR	Ca_12504	--	WOX
Ca2_P1_30461111	Ca2	30461111	TC/T	ACGTTTTGGTCTTGA GCAT	TTTTTGCTCACATTGA TTGCTTT	59.6	918	INTERGENIC	--	--	--
Ca2_P1_30461396	Ca2	30461396	CTTTTTT/CTTTTTTTT	AAAAAGAGTGTTGT CCGC	AAACGATGCTTATCC GTGAA	59.2	929	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected 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_P1_30464150	Ca2	30464150	CTT/CTTT	CCACCTCCCAACAA CACT	GGCAAGTTGCTTTAC CAAAAC	59.9	602	INTERGENIC	--	--	--
Ca2_P1_30465917	Ca2	30465917	GAAAAAAAA/GAAAAAAAAA	TCCATGATTGAGTGAC TAGGGA	GCAGTCAACCAGCGA CAATA	59.6	322	DRR	Ca_12503	J	--
Ca2_P1_30467933	Ca2	30467933	AT/A	GCAAGAGCCAAAGCA AGTC	TGGAGAGGGCACCAT AAAAG	60.1	387	INTRON	Ca_12503	J	--
Ca2_P1_3047152	Ca2	3047152	CTTT/CTTTT	TGAAATTTAACGGGCC TTCA	GTGGAAAACTGGACC CTCA	60.4	643	INTRON	Ca_10543	--	--
Ca2_P1_30473938	Ca2	30473938	TTTTTTA/T	AGATGAGGAGCAAAT CAGCA	TGTGTTCTGGAGCAT TTGA	60.0	624	INTERGENIC	--	--	--
Ca2_P1_3047767	Ca2	3047767	TGG/TGGG	TGAGGGTCCAGTTTT CCAC	AACCAAGTTGCCCAA AAA	59.9	266	DRR	Ca_10543	--	--
Ca2_P1_30478526	Ca2	30478526	CTTTTTTT/CTTTTTTT	GTGCCTTGAGAAGTG AGGG	CATCATAGCCCCGAGA AAAA	59.8	390	DRR	Ca_12502	G	--
Ca2_P1_30478867	Ca2	30478867	AATATATATAT/AATATATATATAT	TTTTTCTCGGGGCTAT GATG	GTAGGGCATGTGTGT GTTGC	60.0	640	DRR	Ca_12502	G	--
Ca2_P1_3048024	Ca2	3048024	CTTTTT/CTTTTTTTT	TGAGGGTCCAGTTTT CCAC	TGTGCAATTAAGTGA TAGAGCA	59.9	905	DRR	Ca_10543	--	--
Ca2_P1_30480817	Ca2	30480817	TAAA/TAAAA	CTGCGTCCCATTTCAA GAAT	ATGTGTCTTTGGGAGC CAAC	60.1	880	INTRON	Ca_12502	G	--
Ca2_P1_30481523	Ca2	30481523	TTTAAAAAAT/TTTAAAAAATATGTTAA AAAAT	GTTGGCTCCCAAGAC ACAT	TCGATTTTCATTAAAGT GTTGGA	60.0	631	INTERGENIC	--	--	--
Ca2_P1_30481892	Ca2	30481892	AACATA/AA	TCAATGCATGGAAAAT AATCTCT	TGGTCCTCATCCATCA AACA	57.8	401	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_30484744	Ca2	30484744	GG/GGACG	ACATGAGACGTCAT GCAA	CGAAAAATCAAATAA CATCGC	60.1	386	INTERGENIC	--	--	--
Ca2_P1_30484802	Ca2	30484802	A/ATT	ACATGAGACGTCAT GCAA	CGAAAAATCAAATAA CATCGC	60.1	386	INTERGENIC	--	--	--
Ca2_P1_30489361	Ca2	30489361	TTAT/TT	TGCAAAGTTTGATGGA GTGC	TAGAACCCCAATTTTG TCCG	59.8	363	INTERGENIC	--	--	--
Ca2_P1_30490084	Ca2	30490084	ATTTTTTTTTTTTT/ATTTTTTTTTTT	CCCCCTACTACTTGAC GATCC	TTCCCAATGCAATTT TTCC	59.8	393	INTERGENIC	--	--	--
Ca2_P1_30490221	Ca2	30490221	T/TA	GGAAAAATTGCATTG GGAA	GTTGGCTTACACATTG GGCT	59.8	578	INTERGENIC	--	--	--
Ca2_P1_30490465	Ca2	30490465	ATTTTTTT/ATTTTTTTTT	GGAAAAATTGCATTG GGAA	GTTGGCTTACACATTG GGCT	59.8	578	INTERGENIC	--	--	--
Ca2_P1_30490798	Ca2	30490798	AA/AACA	AGCCCAATGTGTAAGC CAAC	AAGCTTTTGCAAATGG GAGA	60.0	410	INTERGENIC	--	--	--
Ca2_P1_30503807	Ca2	30503807	TAA/TAAA	GTTCTCACTATGCCCC CAAA	AGTAATTAGCCCGAAT CGCA	59.9	404	INTERGENIC	--	--	--
Ca2_P1_30507919	Ca2	30507919	CT/CTT	TCATCTTTGATGCATT CGC	TGCATTTGCGACAAGA AAAG	59.8	503	INTRON	Ca_12501	GMW	--
Ca2_P1_30510130	Ca2	30510130	ATTTTTTTTTTTTTTT/ATTTTTTTTTTTT	AGACCCACGTTAAC ATGA	AGCACCTTACAAGGG GGAGT	60.2	700	DRR	Ca_12500	--	--
Ca2_P1_30513922	Ca2	30513922	T/TG	TTGAATGGTTTGAT CCGA	TCCATTGGAAGCATT ACTTC	59.9	483	INTERGENIC	--	--	--
Ca2_P1_30514265	Ca2	30514265	AAGA/AA	CACCAATCACCCACA ATCA	ATGGGCTGGTATATCA TGGG	60.2	972	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_30514604	Ca2	30514604	ATTTTTTT/ATTTTT	TGGTTTGTGAACCACT GTGAA	AAACTTTCAAATGCAT GGGC	60.0	336	INTERGENIC	--	--	--
Ca2_P1_30516125	Ca2	30516125	GATATA/GATA	GAGATGAAAACGGATG GGTG	CATGACAATCATTTGC AGCC	60.3	831	INTERGENIC	--	--	--
Ca2_P1_3051651	Ca2	3051651	GTTTTTTTTTTT/GTTTTTTTTTTTTT	TCCGAGAAAATCAAAA TCGG	TACAGATTCCAACAC GGCA	60.0	533	INTERGENIC	--	--	--
Ca2_P1_30516532	Ca2	30516532	GT/G	CACAAGGTTTGTGCAC TGAA	CATGACAATCATTTGC AGCC	59.8	440	INTERGENIC	--	--	--
Ca2_P1_3051893	Ca2	3051893	CATATAGATGTGATATAGATGTGAT/C ATATAGATGTGAT	TCCGAGAAAATCAAAA TCGG	TACAGATTCCAACAC GGCA	60.0	533	INTERGENIC	--	--	--
Ca2_P1_30522321	Ca2	30522321	ATTTTTTT/ATTTTTT	GAACAGTGGCAATTCA TCCA	CGATGTGTGCATGCTC TCTAA	59.5	865	INTERGENIC	--	--	--
Ca2_P1_30523186	Ca2	30523186	CT/CTTT	TCATCGTTTGCAAGGT TTTG	TAATGCAC TTCATTGC TGGC	59.7	249	INTERGENIC	--	--	--
Ca2_P1_30525393	Ca2	30525393	TTA/TTATA	CAGCCACAGCATAGCT TTCA	GACGTGTGTTGCTTTA AGGG	60.2	516	INTERGENIC	--	--	--
Ca2_P1_30526387	Ca2	30526387	TATCTCAT/TAT	CAATTCGTGCGTGAA TCAG	CCGACCTAATCCTTCA CGAG	60.3	994	INTERGENIC	--	--	--
Ca2_P1_30526988	Ca2	30526988	GAAAA/GAAA	CTCGTGAAGGATTAGG TCGG	TTGCAACGCATCTCAA TCTC	59.7	353	INTERGENIC	--	--	--
Ca2_P1_30527508	Ca2	30527508	TAAAAAAAAAAAA/TAAAAAAAAAAAA	TTGAGATGCGTTGCAA TAGG	CGTGCCACTTTCTTCC TTTC	59.8	681	INTERGENIC	--	--	--
Ca2_P1_30527572	Ca2	30527572	A/AT	TTGAGATGCGTTGCAA TAGG	CGTGCCACTTTCTTCC TTTC	59.8	681	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_30550518	Ca2	30550518	GAAAAAA/GAAAAAAA	CGCTAGCTATTTCTCT GGCGT	TGCATTGATCAAGCT CAAC	61.0	189	INTERGENIC	--	--	--
Ca2_P1_30553119	Ca2	30553119	T/TTAGAC	TTTTTATGAGGCGTGG AAGG	AAACTAACACACCCC CGTG	60.1	223	INTERGENIC	--	--	--
Ca2_P1_30553227	Ca2	30553227	A/AG	TTTTTATGAGGCGTGG AAGG	CAACTGAGGGAGGG TATTGA	60.1	688	INTERGENIC	--	--	--
Ca2_P1_30553379	Ca2	30553379	GAAA/GAAAA	TTTTTATGAGGCGTGG AAGG	CCATGAACAGCCAAA CATA	60.1	874	INTERGENIC	--	--	--
Ca2_P1_30555764	Ca2	30555764	AAG/AAGACACGTGTAG	AAACATAACCTTTTGC CCG	TCACTCCAAGCTTCCC AAAT	59.0	257	INTERGENIC	--	--	--
Ca2_P1_30558124	Ca2	30558124	TAAA/TAAAA	TGTTTAAGGGTGATGC GACA	AGGCTTCATAGATGGG GTGA	60.1	948	INTERGENIC	--	--	--
Ca2_P1_30558600	Ca2	30558600	CTAT/CTATATAT	GATGCATACAAAAGTC ACCCC	GGATTGATGAAGTGGT TGGG	59.3	254	INTERGENIC	--	--	--
Ca2_P1_30559202	Ca2	30559202	AT/ATT	CCCAACCACTTCATCA ATCC	AAAAATTATGGGCTTT GGGC	60.2	750	INTERGENIC	--	--	--
Ca2_P1_30563316	Ca2	30563316	GAAAAAA/GAAAAAAA	ATTCATTGGGTGAAT GGGA	AAAGCATGACACCACA ACCA	60.0	573	INTERGENIC	--	--	--
Ca2_P1_30563758	Ca2	30563758	ATGTGT/ATGTGTGT	TGGTTGTGGTGTCATG CTTT	ATGCCAACCAAAACCT GAAG	60.0	427	INTERGENIC	--	--	--
Ca2_P1_30568142	Ca2	30568142	AT/ATGT	CTTGTTTGTGCGAGTC GCTA	GGTCATACCAAGGCCA AGAA	60.2	453	INTRON	Ca_12495	E	--
Ca2_P1_30569240	Ca2	30569240	AT/ATT	AGTTTTCAGCTTTTG CCTC	CCGTCCAATTTCTCT TGGA	59.6	609	INTRON	Ca_12495	E	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_30569354	Ca2	30569354	TCACA/TCA	AGTTTTGCAGCTTTTG CCTC	CCGTCCAATTTTCTCT TGGA	59.6	609	INTRON	Ca_12495	E	--
Ca2_P1_30572769	Ca2	30572769	ATATTATTATTATTATTATTATTAT TA/ATATTATTATTATTATTATTATT ATTATTATTA	TTTGGCAATTGGCATG TAGA	GATTCCCTACGGCTGA TGAA	60.1	601	DRR	Ca_12495	E	--
Ca2_P1_30573212	Ca2	30573212	GA/GAA	TTCATCAGCCGTAGGG AATC	CGGACAAGTTCCAAGA TTCAA	60.0	477	DRR	Ca_12495	E	--
Ca2_P1_30573602	Ca2	30573602	CGGG/CGGGG	TGGCTCATGACCCCTT TATC	GGCCCTTTTCATTTT CATT	59.9	709	DRR	Ca_12495	E	--
Ca2_P1_30573670	Ca2	30573670	TAAAAAAAA/TAAAAAAAA	TGCATGCAAAAGAATT GTCC	GGCCCTTTTCATTTT CATT	59.7	534	DRR	Ca_12495	E	--
Ca2_P1_30574200	Ca2	30574200	ATTTTT/ATTTTTT	AAATGAAAAGGGGCCA AAGT	AATTTCCCGTTGCAAT GTCT	59.8	859	INTERGENIC	--	--	--
Ca2_P1_30574328	Ca2	30574328	TAAAA/TAAAAAA	CCATTGAGGAGTGGAG AACTTT	CTTGTGTGTCCCAAT GCAA	59.6	783	INTERGENIC	--	--	--
Ca2_P1_30575054	Ca2	30575054	AT/A	TGCAGCAACAATTATC CAGC	GACACACCTCGTTT GCAT	59.8	858	INTERGENIC	--	--	--
Ca2_P1_30576047	Ca2	30576047	ACCCCC/ACCCCC	GAATGGATGCTGCTTT GGAT	CAATAAAGGGCCATCC TTGA	60.0	214	INTRON	Ca_12494	--	--
Ca2_P1_30577110	Ca2	30577110	CTTT/CTT	GTTCTCGTGGCTCAGG ACTC	CCATTGGCTTTTGCTC ATTT	60.0	388	DRR	Ca_12493	--	--
Ca2_P1_30590146	Ca2	30590146	A/AG	TGTTCGAACTCGGAAC ATGA	AACCAAAACGACTACG ACGG	60.2	705	DRR	Ca_12492	--	--
Ca2_P1_30592392	Ca2	30592392	AATTATTATTATTAT/AATTATTAT ATTATTATTATTATTATTAT	TGAGTTGGAAGTCTGA ATCG	CCGAAAATGTAGGGAC AACG	59.8	274	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_3062029	Ca2	3062029	C/CAGTATAA	TTTGTGCTTTGTGAA GCTG	CCCGACCTTCTGTTT ATCA	60.0	222	INTRON	Ca_10542	Z	--
Ca2_P1_30621875	Ca2	30621875	TT/TTCT	TAAGCTTTCCCGTGTC TGCT	TTGGGGTCAAATGGTT GATT	60.0	813	INTRON	Ca_12490	R	--
Ca2_P1_30622722	Ca2	30622722	A/ACCGTAATCC	CTTGGTCAGAATCAGC GAGC	CACGTTGACCCTTTTT GTCA	60.8	380	INTRON	Ca_12490	R	--
Ca2_P1_30622746	Ca2	30622746	AC/A	CTTGGTCAGAATCAGC GAGC	CACGTTGACCCTTTTT GTCA	60.8	380	INTRON	Ca_12490	R	--
Ca2_P1_30622806	Ca2	30622806	AATCA/AATCATCA	CTTGGTCAGAATCAGC GAGC	CACGTTGACCCTTTTT GTCA	60.8	380	INTRON	Ca_12490	R	--
Ca2_P1_30623473	Ca2	30623473	TAAA/TAAAAA	TGACAAAAAGGGTCAA CGTG	CCGCAATCAATTTAGC GAAT	59.6	686	INTERGENIC	--	--	--
Ca2_P1_30623537	Ca2	30623537	TAAAAAA/TAAAAAAA	AGTAGAGCCCGACAAG ATGC	CCGCAATCAATTTAGC GAAT	59.5	483	INTERGENIC	--	--	--
Ca2_P1_30623593	Ca2	30623593	TTATGTTTTAT/TTATGTTTTATGTT TTAT	AGTAGAGCCCGACAAG ATGC	CCGCAATCAATTTAGC GAAT	59.5	483	INTERGENIC	--	--	--
Ca2_P1_30623846	Ca2	30623846	TAAAA/TAAAAAA	ATTCGCTAAATTGATTG CGG	TGTTGCAAGCAAATC AAGC	60.1	606	INTERGENIC	--	--	--
Ca2_P1_30624016	Ca2	30624016	A/AAT	ATTCGCTAAATTGATTG CGG	TGTTGCAAGCAAATC AAGC	60.1	606	INTERGENIC	--	--	--
Ca2_P1_30624454	Ca2	30624454	C/CT	TCATGAATGCAACGTG GTTT	TTTTGCTGTTTGTTTA CGTCAT	60.0	646	INTERGENIC	--	--	--
Ca2_P1_30630371	Ca2	30630371	ATTTA/ATTTATTTTA	TGCGTGTATCATTTTCA ACTCA	GGAGATCCAATAGATG GCGA	59.2	841	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_30630925	Ca2	30630925	CT/CTGAT	TGTTGATCCGACAAGG GTTT	ATTCTCCCGTCCCA ATTA	60.4	410	INTERGENIC	--	--	--
Ca2_P1_30631182	Ca2	30631182	AG/A	TGTTGATCCGACAAGG GTTT	AACCTCGTGAGCGTTC TTGT	60.4	719	INTERGENIC	--	--	--
Ca2_P1_30637842	Ca2	30637842	TGG/TG	GGAAAGGGAGCCTGA AGAGA	GGGTCTTTTGC AAAT TTGATT	60.8	455	INTERGENIC	--	--	--
Ca2_P1_30641002	Ca2	30641002	TTTCTT/TTT	CAAATTGAAGGTGTGG CCTT	TGATTCATTGAGGCTC ACCA	60.0	656	INTERGENIC	--	--	--
Ca2_P1_30642500	Ca2	30642500	GAAAAAAAA/GAAAAAAAAA	TGCAGTTGCCGACAAT TTTAT	TCCTCGGTAACCAAC AAGC	60.5	128	INTERGENIC	--	--	--
Ca2_P1_30645883	Ca2	30645883	TAAAAAAAAA/TAAAAAAAAA	TGCTGGGTTGATGGAT GTAA	TGCATGCATGGATCCC TAA	59.9	816	INTERGENIC	--	--	--
Ca2_P1_30647034	Ca2	30647034	CAT/CATAT	TTGACGTACCCAACCA TTGA	CCCTCACTTAAGCCCA CAAA	59.8	443	INTERGENIC	--	--	--
Ca2_P1_30653450	Ca2	30653450	TATATAGAAAATTGATATAGAAA/TAT ATAGAAA	TGAACTTTCTTGTC GAATG	GGGTGGTGAAGGTTT CAAGA	60.1	450	INTERGENIC	--	--	--
Ca2_P1_30665443	Ca2	30665443	ATTTTTTTTT/ATTTTTTTTT	TCATGGTGGACCGTAA TCTG	CTACTGCCTTGGATTC CTTTT	59.4	403	INTRON	Ca_12489	QI	bHLH
Ca2_P1_30665911	Ca2	30665911	ATTTTTTTTT/ATTTTTTTTTTT	AAAAGGAATCCAAGGC AGTAG	TCCATTACCATCATAC GCCA	57.5	788	INTRON	Ca_12489	QI	bHLH
Ca2_P1_30665994	Ca2	30665994	CTTTTTTT/CTTTTTTTTT	AAAAGGAATCCAAGGC AGTAG	ACGAACGCAGATCCAT TACC	57.5	799	INTRON	Ca_12489	QI	bHLH
Ca2_P1_30667046	Ca2	30667046	GTGATTATGA/GTGA	TGAATTTGTGGTGTGT GCAA	GCGGTGGAGAAAACA AGAAA	59.6	721	INTRON	Ca_12489	QI	bHLH

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_30667297	Ca2	30667297	TATTAAT/TAT	TTTCTGTCTTCTCCAC CGC	TGAAGCAGACTGCAGA ATCG	60.2	461	INTRON	Ca_12489	QI	bHLH
Ca2_P1_30667379	Ca2	30667379	T/TCAC	TTTCTGTCTTCTCCAC CGC	TGAAGCAGACTGCAGA ATCG	60.2	461	INTRON	Ca_12489	QI	bHLH
Ca2_P1_30669761	Ca2	30669761	ATTTTTTTTT/ATTTTTTTTT	AGGCCCACTTCACAA TGTC	AGGGCTCGATACTTCC GAAT	60.0	879	INTRON	Ca_12489	QI	bHLH
Ca2_P1_30669952	Ca2	30669952	AATATAT/AATATATAT	AGACCAATCATGCAA ATCC	AAAACGGTGAAGAAAC ACGG	59.8	776	INTRON	Ca_12489	QI	bHLH
Ca2_P1_30672058	Ca2	30672058	ATTTT/ATT	GGGCTGATCCAACAG TTAT	CCATGGGAAACGTTG GTAAC	59.8	396	DRR	Ca_12489	QI	bHLH
Ca2_P1_30672151	Ca2	30672151	TGGGG/TGGG	GGGCTGATCCAACAG TTAT	CCATGGGAAACGTTG GTAAC	59.8	396	DRR	Ca_12489	QI	bHLH
Ca2_P1_30675995	Ca2	30675995	A/AC	TTAAGTGGGTGCGCT TTTT	AAGAACTTGGACGTTG GTGG	59.8	536	INTERGENIC	--	--	--
Ca2_P1_30676386	Ca2	30676386	GAAAAAAAA/GAAAAAAAAA	ATCCACCAACGTCCAA GTTC	CCTTGGTATGACCCTA ATTCTT	59.8	532	INTERGENIC	--	--	--
Ca2_P1_30676782	Ca2	30676782	ACTAGC/ACTAGCTAGC	GCTCCAGCAAAATAG AAATGG	TCATCAATCAAACCTAC TTACGCAGA	60.1	504	INTERGENIC	--	--	--
Ca2_P1_30677085	Ca2	30677085	TAAAAAAAA/TTATAAAAAAAAA	TCTGCGTAAGTAGTTT GATTGATGA	TTGCGCCTTTTCAGTA TTTTTC	60.2	668	INTERGENIC	--	--	--
Ca2_P1_30678831	Ca2	30678831	TT/TTTTAT	CAAACCCAAAACCTTTT CCA	CTCACGCATCTCCAAA CTCA	59.8	369	INTERGENIC	--	--	--
Ca2_P1_30679543	Ca2	30679543	TAAAAA/TAAAA	ATATCCAACGCGTCAA CCTC	TGTTAAACGCAATCGA TCACA	60.0	282	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_30680495	Ca2	30680495	TAAAAAAAAA/TAAAAAAAAA	TCATGCTACAATTGAA GGGAA	TCCAAATCCATAGTCA GCCC	59.6	500	INTERGENIC	--	--	--
Ca2_P1_30680775	Ca2	30680775	AATATATAT/AATATAT	GGGCTGACTATGGATT TGGA	TATTTGGCTGACGTGG AACA	59.9	225	INTERGENIC	--	--	--
Ca2_P1_30689429	Ca2	30689429	CAAGAAA/CAAGAAAAGAAA	CGTACCTTGAGTGGGA AAGG	TTGCTTCGCAACATGA GAAC	59.6	381	INTERGENIC	--	--	--
Ca2_P1_30689624	Ca2	30689624	CAATTGTAATT/CAATTGTAATTGTAAT T	CCGTACCTTGAGTGGG AAAG	ACGTTCCCTTAAACCC AAAC	59.6	677	INTERGENIC	--	--	--
Ca2_P1_30689650	Ca2	30689650	TGCAAA/TGCAAAAGCAAA	CCGTACCTTGAGTGGG AAAG	ACGTTCCCTTAAACCC AAAC	59.6	677	INTERGENIC	--	--	--
Ca2_P1_30690091	Ca2	30690091	CT/CTTT	GCGGTGTTTGTTGGG TAGT	GGAGCACACAGATGC GAATA	59.9	335	INTERGENIC	--	--	--
Ca2_P1_30690274	Ca2	30690274	A/AT	TTAGGGGAACGTGAAA TTGG	CGGTCACTGCACAC ACAA	59.8	444	INTERGENIC	--	--	--
Ca2_P1_30690413	Ca2	30690413	AT/ATAAATT	TATTCGCATCTGTGTG CTCC	CGTGGTTGAGTAGATG TGCC	59.8	670	INTERGENIC	--	--	--
Ca2_P1_30690532	Ca2	30690532	CTATTTTATT/CTATT	TATTCGCATCTGTGTG CTCC	CGTGGTTGAGTAGATG TGCC	59.8	670	INTERGENIC	--	--	--
Ca2_P1_30690585	Ca2	30690585	AAATAATAATAATAAA/AAATAATAA TAATAATAATAATAAA	TATTCGCATCTGTGTG CTCC	CGTGGTTGAGTAGATG TGCC	59.8	670	INTERGENIC	--	--	--
Ca2_P1_30691906	Ca2	30691906	TAAAAAAAAA/TAAAAAAAAA	ACAGCTGCAACACCA CATC	ATCAAGGTCGGGAAT AACC	59.8	305	INTERGENIC	--	--	--
Ca2_P1_30695617	Ca2	30695617	CTTTTTTTTT/CTTTTTTTTTT	CCCATGCATATCAGT TTTG	ACGAGGGCCATGAT ACTAC	59.8	361	DRR	Ca_12487	KLB	YABBY

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_30695733	Ca2	30695733	T/TGAAATTAA	CCCATGCATATCAGT TTTG	ACGCAGGGCCATGAT ACTAC	59.8	361	DRR	Ca_12487	KLB	YABBY
Ca2_P1_30701503	Ca2	30701503	T/TAATC	TTATCTGCCCTGGATT CTGC	TTGGAAGAGGCCAAAT ATGC	60.2	753	INTRON	Ca_12487	KLB	YABBY
Ca2_P1_30702625	Ca2	30702625	GAAAAA/GAAAAA	CTTCGCCCATCAATGA CAC	AATCTCTTCAATCCCC CGTT	60.1	566	INTRON	Ca_12487	KLB	YABBY
Ca2_P1_30702934	Ca2	30702934	ATTTTTTTTT/ATTTTTTTTT	AACGGGGGATTGAAGA GATT	GCAAATCTGCGGGTG TTAT	59.8	508	INTERGENIC	--	--	--
Ca2_P1_30702980	Ca2	30702980	TATTTAATTTAATTT/TATTTAATTT	AACGGGGGATTGAAGA GATT	GCAAATCTGCGGGTG TTAT	59.8	508	INTERGENIC	--	--	--
Ca2_P1_30703181	Ca2	30703181	TAAAAAA/TAAAAA	AACGGGGGATTGAAGA GATT	CGCATACATACGGTGA TTGC	59.8	882	INTERGENIC	--	--	--
Ca2_P1_30703635	Ca2	30703635	TAAAAAAAAA/TAAAAAAAAA	ACCCGCAGAATTGCT AAGA	GGAGTTTTCAAGAGGT GCCA	59.8	498	INTERGENIC	--	--	--
Ca2_P1_30703947	Ca2	30703947	ATTTTTTTTT/ATTTTTTTTT	CCGTATGTATGCGTGA CACC	TCGAATTGGATTTCAC ATATTTTC	59.9	423	INTERGENIC	--	--	--
Ca2_P1_30704006	Ca2	30704006	TAAAA/TAAA	CCGTATGTATGCGTGA CACC	GGAAGGTGAATGATCT TAAATAACG	59.9	902	INTERGENIC	--	--	--
Ca2_P1_30704638	Ca2	30704638	TA/TAA	AAATTCAGTGCAACGC ACAT	CCCACCTTTGGATAACA ATTCC	59.2	445	INTERGENIC	--	--	--
Ca2_P1_30704814	Ca2	30704814	CAA/CAAA	AAATTCAGTGCAACGC ACAT	CCCACCTTTGGATAACA ATTCC	59.2	445	INTERGENIC	--	--	--
Ca2_P1_30713265	Ca2	30713265	A/AG	TTCTGCTGGTCTGGCT TTTT	TGAAAGGGAATTGGGT GAAG	60.0	233	INTRON	Ca_12485	T	RAV

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_30719499	Ca2	30719499	AT/A	CACGGTTGTGGGACT AAAC	AAGAACCATCCAGCGG AAC	60.3	988	INTERGENIC	--	--	--
Ca2_P1_30719828	Ca2	30719828	AA/AATA	CAACGACAAGAAAAT CTCACA	TCACAAATTAACGGCC ACAA	60.1	804	INTERGENIC	--	--	--
Ca2_P1_30720315	Ca2	30720315	TATTA/T	TTGTGGCCGTTAATTT GTGA	GTTGATGTTATCAAA AAACAATTTCA	60.0	344	INTERGENIC	--	--	--
Ca2_P1_30720521	Ca2	30720521	CAAAAAA/CAAAAAA	TTGTGGCCGTTAATTT GTGA	CGAGTTTCTTTTCCC GTCA	60.0	787	INTERGENIC	--	--	--
Ca2_P1_30720601	Ca2	30720601	TAAAAA/TAAAAA	TTGTGGCCGTTAATTT GTGA	TTGTTGTGGATGCGGT TAAA	60.0	917	INTERGENIC	--	--	--
Ca2_P1_30732861	Ca2	30732861	A/AG	TCACAGAAGGGTTTT GGTC	AAAATTGTGAACGGAG ACCG	59.9	394	INTRON	Ca_12484	T	RAV
Ca2_P1_30737308	Ca2	30737308	TAAAAAAA/TAAAAAAA	TTTTGCCATGGTCTTG GATT	TCAAGAAAATTGCCAA CCCT	60.3	618	DRR	Ca_12484	T	RAV
Ca2_P1_30737463	Ca2	30737463	TAAAAA/TAAAAA	TTTTGCCATGGTCTTG GATT	TGGGCCCTCATGATAT TGAT	60.3	720	DRR	Ca_12484	T	RAV
Ca2_P1_30739062	Ca2	30739062	AC/ACC	TTGTGTGTGGGCTCAA CTTC	TGGCCTACCTCTTGTG ATGA	59.7	569	DRR	Ca_12483	T	FAR1
Ca2_P1_30742309	Ca2	30742309	CAGAGAGAG/CAGAGAGAGAGAG	CGTTGCGGTAACAAAC AATG	TTGGAGAAAAGGCAG GCTTA	60.0	349	INTERGENIC	--	--	--
Ca2_P1_30742679	Ca2	30742679	TAAAAA/TAAAAA	TGTTTGCTTCATTGGC AGAG	AAATTTGATGAGAAT ATAACCCAAA	60.0	674	INTERGENIC	--	--	--
Ca2_P1_30773455	Ca2	30773455	GAAAAAAA/GAAAAAAA	TGACTCCATCCACTTA TCCA	CCCATGAGTTTATGTT GGGG	60.3	158	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_30775811	Ca2	30775811	ATTTTT/ATTTTTT	TGGAAGTAGTAGAATT GAAAGGAAAAA	TTGCCTTAGTGGCTTT GAGTC	60.0	349	INTERGENIC	--	--	--
Ca2_P1_30783115	Ca2	30783115	CTTTTTTT/CTTTTTT	AGGCATGAAGAATGTG GAGC	GCTGGTGGTACCATGT CCTT	60.2	712	INTERGENIC	--	--	--
Ca2_P1_30788585	Ca2	30788585	CTTTTTTTTT/CTTTTTTTTTT	TCTATCCTCACCACT CAAGC	TGCAAAATTGGATTCA CAAGA	59.3	432	INTERGENIC	--	--	--
Ca2_P1_30788694	Ca2	30788694	TTTTATTATTATT/TTTTATTATTA TTTATT	TCTATCCTCACCACT CAAGC	TGCATGTCAAGTTGGA TTCAT	59.3	774	INTERGENIC	--	--	--
Ca2_P1_30790808	Ca2	30790808	GAAAAAAA/GAAAAAAA	CACTCAGGGGATGAAT GTACG	CGAAGTTTGGACATGA GCTG	60.4	480	INTERGENIC	--	--	--
Ca2_P1_30792756	Ca2	30792756	ATTTTTTT/ATTTTTT	ACGTGCCAATTATGAT GCTG	GAATGCTGATGTGTGC ATAAGA	59.6	396	INTERGENIC	--	--	--
Ca2_P1_30794341	Ca2	30794341	ATTTTT/ATTTTTT	GAGTTGAATGCAGCTG ACCA	CCAAAAACAAATTTTC GGGA	60.0	678	INTERGENIC	--	--	--
Ca2_P1_30794367	Ca2	30794367	ATTTTTTT/ATTTTTTTT	GAGTTGAATGCAGCTG ACCA	TGCATTTCACTGGAGA CGTT	60.0	741	INTERGENIC	--	--	--
Ca2_P1_30794400	Ca2	30794400	CTTTTTTT/CTTTTTT	GAGTTGAATGCAGCTG ACCA	TGCATTTCACTGGAGA CGTT	60.0	741	INTERGENIC	--	--	--
Ca2_P1_30794493	Ca2	30794493	A/AT	GAGTTGAATGCAGCTG ACCA	TGCATTTCACTGGAGA CGTT	60.0	741	INTERGENIC	--	--	--
Ca2_P1_30794649	Ca2	30794649	TAAAAAAA/TAAAAAAA	TGATTCTCGACTGAAA ACATGAG	TTGCATTTCACTGGAG ACGTT	59.4	641	INTERGENIC	--	--	--
Ca2_P1_30794993	Ca2	30794993	TAATAAATA/TAATA	ACGTCTCCAGTGAAAT GCAA	AGCCTTGATGTTGTTT GCG	59.3	506	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_30795414	Ca2	30795414	TAAA/TAAA	GCAAACAACATCAAGG CTCA	TGAAAATAGTTTTGG TCCCTG	59.8	558	INTERGENIC	--	--	--
Ca2_P1_30796973	Ca2	30796973	CAAA/CAAAA	CGTGTCCTGATATT TGCC	GGGACAGTTTTGTTG TGCC	60.3	108	INTERGENIC	--	--	--
Ca2_P1_30799097	Ca2	30799097	ATTTTT/ATTTTTT	ACGTTTTGCCAACAA CCTC	TGCTCCTGGGTAAATC GAAC	60.0	359	DRR	Ca_12478	R	MYB
Ca2_P1_30799752	Ca2	30799752	T/TGAC	CCATGAAGTTGAAGGC AAGA	TCTCTGTGGGAAGG TTCAG	58.8	556	DRR	Ca_12478	R	MYB
Ca2_P1_30799865	Ca2	30799865	CAAAAAAAAA/CAAAAAAAAA	TGCTCAATCCTTCCAA TTCA	AATCAACCCCAAGA AGGC	59.2	333	DRR	Ca_12478	R	MYB
Ca2_P1_30800347	Ca2	30800347	TTGTGT/TTGTGTGT	TGCTGATCTGTAGTG CTGC	AAAAACGGCAAAATG CCTG	60.2	606	INTRON	Ca_12478	R	MYB
Ca2_P1_30807589	Ca2	30807589	CTTTTTTTTT/CTTTTTTTTTT	TTCCCTCTTACCTTTG TCCC	AATTGCAATTTACGC ACCC	59.4	406	INTERGENIC	--	--	--
Ca2_P1_30842603	Ca2	30842603	CCATCAT/CCAT	ACGTTAAGGGGCAAT TACA	AACAATCCATGGTCA CTCTCA	59.3	269	INTERGENIC	--	--	--
Ca2_P1_30842775	Ca2	30842775	AT/ATGATAGGAGCT	ACGTTAAGGGGCAAT TACA	CGTGACTTCAGGGGC AATAG	59.3	728	INTERGENIC	--	--	--
Ca2_P1_30844156	Ca2	30844156	TTTAA/TTTAATTAA	TCCACACTCTTGAGG TTGCAT	CAGAATCAGCACGCAA ACAT	59.7	854	INTERGENIC	--	--	--
Ca2_P1_30846096	Ca2	30846096	GAAAA/GAAAAA	CCTTTGCGAACTTGAA GACC	TCCTCCCTCTTGACAG TTTA	59.9	815	INTERGENIC	--	--	--
Ca2_P1_30846540	Ca2	30846540	AATATATATATATATATA/AATAT ATATATATA	CGGATTGCAACATGG TAGA	TAAGGCTTGCAAAGAT TGGG	59.5	529	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_30848508	Ca2	30848508	TTGATAAT/TTGATAATAATGATAAT	TTGAAGGACCAAAATC ATGAAC	CATACAACGCAAGCTA GGCA	58.9	533	INTERGENIC	--	--	--
Ca2_P1_30849743	Ca2	30849743	ATT/ATTT	TCAACTTAGATATGCC GTCCG	TGGGTTGGTTTGAATC ATCA	60.1	410	INTERGENIC	--	--	--
Ca2_P1_30850146	Ca2	30850146	TAAAAAAA/TAAAAAAA	TGATGATTCAAACCA CCCA	ATTTAGGTGGCAAAAG ACGC	59.8	345	INTERGENIC	--	--	--
Ca2_P1_30860320	Ca2	30860320	TAA/TAAA	TGAACAAAAGTTGG GTGA	TGCTCACTTTGACCC ATTG	59.0	487	INTERGENIC	--	--	--
Ca2_P1_30860618	Ca2	30860618	ATTTT/ATTTTTT	TGGGTCAAAGTTGAGC ATGA	CACCTTTGGAAAGAGC TGGA	60.2	557	INTERGENIC	--	--	--
Ca2_P1_30860644	Ca2	30860644	CAAA/CA	TGGGTCAAAGTTGAGC ATGA	CACCTTTGGAAAGAGC TGGA	60.2	557	INTERGENIC	--	--	--
Ca2_P1_30860700	Ca2	30860700	AC/A	TGGGTCAAAGTTGAGC ATGA	CACCTTTGGAAAGAGC TGGA	60.2	557	INTERGENIC	--	--	--
Ca2_P1_30861287	Ca2	30861287	AA/AATA	CCAAAGGTGGGTGAAG AAGA	CAGGCCCAATTCACAA AGTT	60.1	554	INTERGENIC	--	--	--
Ca2_P1_30861798	Ca2	30861798	A/AAT	AACCTTTGGAATTGGG CCTG	TTTGCATGCCGATAAT TTGA	60.0	365	INTERGENIC	--	--	--
Ca2_P1_30861870	Ca2	30861870	A/AT	AACCTTTGGAATTGGG CCTG	TTTGCATGCCGATAAT TTGA	60.0	365	INTERGENIC	--	--	--
Ca2_P1_30862282	Ca2	30862282	T/TCA	TTATCGGCATGCAAAA CAAA	GTTGGGTGACAGACA GCACA	60.1	794	INTERGENIC	--	--	--
Ca2_P1_30864086	Ca2	30864086	AATATATATATA/AATATATATATAT A	TGGTTGTCAACATGAG TTCCA	CAAACCTTTGAATTTTG GTGAATG	60.0	278	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_30864595	Ca2	30864595	ATTTTTTTTT/ATTTTTTTTTTT	TCAAAGAGCGGATAAT AGGTTTT	CTTTCGAAATCCCTCA GCTT	58.4	769	INTERGENIC	--	--	--
Ca2_P1_30864873	Ca2	30864873	TAAAAA/TAAAAA	GATTTTAGTTATTACAG ACGTCCA	CTTTCGAAATCCCTCA GCTT	59.5	375	INTERGENIC	--	--	--
Ca2_P1_30872234	Ca2	30872234	CAT/CATAT	CAAAAGCACACAAGC CAGA	AATTTAAAGAAAGGCC GGGA	60.0	268	INTRON	Ca_12473	U	--
Ca2_P1_3088291	Ca2	3088291	GTTTT/GTTT	CCGCGCTACTCAAAA TCAT	GTGCCCTTGAATGGAT GTCT	60.2	440	INTERGENIC	--	--	--
Ca2_P1_30883523	Ca2	30883523	TGCG/TG	CACATCAACAGGCGAA AATG	GTGTGTGCAATCTCTG GCAT	60.0	682	INTRON	Ca_12473	U	--
Ca2_P1_30883879	Ca2	30883879	CACACAGACACAGACAC/CACACAGACAC	GCCTGTTTCTCAATC CCAA	GTGTGTGCAATCTCTG GCAT	60.1	514	INTRON	Ca_12473	U	--
Ca2_P1_30885844	Ca2	30885844	TAAAAA/TAAAAA	TTGGTTTTGTTCCAGG CTTC	GTTGCATCCTTCACCA ATGA	60.1	703	INTERGENIC	--	--	--
Ca2_P1_30887613	Ca2	30887613	AT/A	TCAAGGGAGGATTACA TGGG	AAAGGGAAAGTTGCAT CACG	59.7	826	INTERGENIC	--	--	--
Ca2_P1_30887902	Ca2	30887902	T/TC	GCATCGCACGGATTCT AATA	GGGCTAGTGGCAGTC TTCAG	58.7	796	INTERGENIC	--	--	--
Ca2_P1_30890128	Ca2	30890128	AAAAATAATAATAATA/AAAAATAATAATAA	GATGATGTAATGGGA GCCAA	CATTTGTTGAATGTTG CCCA	59.8	697	INTERGENIC	--	--	--
Ca2_P1_30890411	Ca2	30890411	AAATGAATGAATGAA/AAATGAATGAATGAATGAA	GATGATGGATGGGCAA CATT	GCGGTGAGACTCGAA AAGAG	60.6	330	INTERGENIC	--	--	--
Ca2_P1_30890896	Ca2	30890896	ATTTTT/ATTTTTTT	CTCTTTTCGAGTCTCA CCGC	ATGCCATGACGTGAAC AAAA	60.1	566	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_30892153	Ca2	30892153	A/ATGTAC	AGGATGGGTTTCTGTG TTGC	CTAAGGGGCAAAGC GTACA	60.0	617	INTRON	Ca_12472	--	--
Ca2_P1_30897629	Ca2	30897629	TAAAAAAA/TAAAAAA	CCAACAGATCAAGGGG AATG	ATCGAGATCTCACCGT GGAA	60.3	548	INTERGENIC	--	--	--
Ca2_P1_30897792	Ca2	30897792	AAT/AATATAT	CCAACAGATCAAGGGG AATG	ATTGGGGTTTGGTGAA ATGA	60.3	708	INTERGENIC	--	--	--
Ca2_P1_30900645	Ca2	30900645	T/TA	GATGAAGGGTCCACG GAATA	TTCAGAACCGGAGTG GTTTC	59.8	668	INTRON	Ca_12471	--	--
Ca2_P1_30901717	Ca2	30901717	TG/T	TCATTGGTGTTTACCG GGAT	TAGCCTTTTGCAATAT GGGG	60.1	886	DRR	Ca_12470	DO	--
Ca2_P1_30902299	Ca2	30902299	CTT/CT	CCCCATATTGCAAAAG GCTA	CAAATGGGTTTGCAAG TGTC	59.9	385	DRR	Ca_12470	DO	--
Ca2_P1_30902626	Ca2	30902626	T/TC	CCCCATATTGCAAAAG GCTA	TGGGGAATCGCAAGAT AAAC	59.9	839	DRR	Ca_12471	--	--
Ca2_P1_30905223	Ca2	30905223	ATTTTTTTTT/ATTTTTTT	AGGAAAGTGCTCAATC AGGC	GCCAGAGAGTGATGA CCGAT	59.4	599	INTRON	Ca_12470	DO	--
Ca2_P1_30907113	Ca2	30907113	TAAA/TAA	ACTGGCACCCAATAGG ATCA	AGTTCCATTGCTGCTT TGCT	60.3	812	INTRON	Ca_12470	DO	--
Ca2_P1_3090922	Ca2	3090922	TA/T	GAGACTTTTGGGCATG GAAA	TGGTCAGTCAAATTCT CCGA	60.1	368	INTRON	Ca_10541	T	HD-ZIP
Ca2_P1_30915268	Ca2	30915268	A/ACAATCACTAAG	GAAGTGAAGTGGTTCT TTGCG	CAAGACCTTGTGGCTC ATCA	59.9	783	INTRON	Ca_12470	DO	--
Ca2_P1_30920554	Ca2	30920554	ATTTTT/ATTTTTTT	TCCACAACCTAAACCC ATGA	AGTTTCCTGTGGGTC GATG	59.9	344	INTRON	Ca_12470	DO	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected 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_P1_30931555	Ca2	30931555	GCATCATC/GCATC	CAAAAACGTCCCCAA AGAA	CGTAGGACGAAGGA GATGC	59.9	857	INTRON	Ca_12470	DO	--
Ca2_P1_30931955	Ca2	30931955	ACC/AC	GCATCTTCCTTCGTCC TACG	AAGAAGTTGGATGCCA AGGA	59.8	116	INTRON	Ca_12470	DO	--
Ca2_P1_30933751	Ca2	30933751	TC/T	TCGAAACGTGTGGTGA TGAT	ACAATTCACGCAATG TGAG	60.0	895	INTERGENIC	--	--	--
Ca2_P1_30937234	Ca2	30937234	CTTTTT/CTTTTTTT	TTGAATTGTGTGCGGT TGAT	CGTTGATGTGTACAC GTTTC	60.0	467	INTERGENIC	--	--	--
Ca2_P1_30938413	Ca2	30938413	CTTTTTTT/CTTTTTTT	TGCAAAATAGAAATGGA GGTGA	TTTTTCATTGGTCCAT CCC	58.2	319	INTERGENIC	--	--	--
Ca2_P1_30938733	Ca2	30938733	AC/A	GGGATGGACCAATGA AAAA	AAGGCCCTAGTAGCA GGCAT	59.6	570	INTERGENIC	--	--	--
Ca2_P1_30940538	Ca2	30940538	ATGTGTGTGT/ATGTGTGTGT	CATAAGTGGGTATCCA ACCGA	CATTGCAAGCAAAT TGACA	59.7	620	INTERGENIC	--	--	--
Ca2_P1_30943416	Ca2	30943416	TAAAAA/TAAA	CGAACTCACCTGATGC TCAA	GCCAATATGTTTCATTG ACGG	60.0	607	INTERGENIC	--	--	--
Ca2_P1_30945167	Ca2	30945167	GT/GTCT	GACCATGGAATCGGAC AAGT	CTTCTTGCATCCCCTT GTGT	59.8	684	INTRON	Ca_12469	U	bHLH
Ca2_P1_30949563	Ca2	30949563	GTTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTAT TATT/GTTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTA TTATTATTATTATTATTATT	GGCGACTGCGTAATAG CTTC	CCACAACCTGCAATGA CAAC	60.0	149	INTRON	Ca_12469	U	bHLH
Ca2_P1_3095070	Ca2	3095070	ATT/ATTT	AGGGTCAGCCTGTAAG AGCA	CCAAACTATGCTTGA GCCC	60.0	899	DRR	Ca_10541	T	HD-ZIP
Ca2_P1_30957679	Ca2	30957679	ATTTTT/ATTTTTTT	TCGGTTGTAGCCGAGC TAGT	TTTTCCTTGGGTCGAG AGAT	60.0	791	DRR	Ca_12469	U	bHLH

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_30957722	Ca2	30957722	CCA/CCACA	TCGGTTGTAGCCGAGC TAGT	TTTTGCTTGGGTCGAG AGAT	60.0	791	DRR	Ca_12469	U	bHLH
Ca2_P1_30963140	Ca2	30963140	GT/G	TAAGCCCATTTGAACG CTCC	CACAATTGCCTACACC ATCG	60.2	780	INTERGENIC	--	--	--
Ca2_P1_30964401	Ca2	30964401	T/TC	TGCACAAGTATTTTCC ACCAA	TGCCTTACAACATAA GCGTT	59.1	918	INTERGENIC	--	--	--
Ca2_P1_3096490	Ca2	3096490	ATTTT/ATTTTT	TGGTTTTCTTAAACAT GCAA	CTTTATCTTCATTTTCG GCGG	58.2	134	DRR	Ca_10541	T	HD-ZIP
Ca2_P1_30965491	Ca2	30965491	GAAAA/GAAAAAAA	GCGAAACCTAATCAC CAAA	CCGTTCCGACAATTTG AAGT	59.9	474	INTERGENIC	--	--	--
Ca2_P1_30979063	Ca2	30979063	GATCA/GA	CTCGCCAACCTACCGA TTGT	TCATTATTGTGAAATA GGGCCA	60.1	554	DRR	Ca_12466	O	TCP
Ca2_P1_3098006	Ca2	3098006	GTTTTTTTTTTTT/GTTTTTTTTT	TGCCTGACTATTATGC GGCT	CACGTTGTTTCATTGC ATCC	60.9	435	INTERGENIC	--	--	--
Ca2_P1_30980417	Ca2	30980417	ATT/ATTT	AAAGGGGTTGGTTCCT TTTG	GGAACCGGAATGTTGC ATCT	60.2	469	DRR	Ca_12466	O	TCP
Ca2_P1_30983172	Ca2	30983172	GAAAA/GAAA	GTAGCATCGCCTTGGG ATTA	TCGACATCCCATTTC ATTGC	60.1	267	INTERGENIC	--	--	--
Ca2_P1_30983322	Ca2	30983322	GTTTTT/GTTTT	GTAGCATCGCCTTGGG ATTA	TGTCCACCATAAGTA ATCATTG	60.1	744	INTERGENIC	--	--	--
Ca2_P1_3098512	Ca2	3098512	TTAAAAATT/TTAAAAATTATATTTGAT CTAAAAATT	GGATGCAATGAAACAA CGTG	ACCCTTTCGTGAAGCA TTTG	60.0	514	INTERGENIC	--	--	--
Ca2_P1_30987559	Ca2	30987559	ATTTTTT/ATTTTTTT	TCAAATCATGCTCTAA GCGG	GTTGATAAACACCGGC CATT	59.0	848	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_3098929	Ca2	3098929	TTTTCTT/TTT	CAATGCTTCACGAA GGGT	AGCCACAAACCACAA CACA	60.1	361	INTERGENIC	--	--	--
Ca2_P1_3099476	Ca2	3099476	ATTT/ATTTT	GTTGTGTTTTGTGGC TGTG	CCAATGCTTGACCCAT CTTT	60.0	649	INTERGENIC	--	--	--
Ca2_P1_3099613	Ca2	3099613	ATATTATTA/ATATTA	GTTGTGTTTTGTGGC TGTG	CCAATGCTTGACCCAT CTTT	60.0	649	INTERGENIC	--	--	--
Ca2_P1_30997163	Ca2	30997163	GT/G	TGAAACGGTTCGACA AACA	ATGTGCCATTGACAA GTGA	60.1	655	DRR	Ca_12465	--	ERF
Ca2_P1_30997225	Ca2	30997225	A/AT	TCACCCTCGTATCCAC AACA	ATGTGCCATTGACAA GTGA	60.0	245	DRR	Ca_12465	--	ERF
Ca2_P1_30999439	Ca2	30999439	T/TC	CCCAAACCTTTTGGG GTTG	TAGCTTGAGCGTGGT TCCT	59.4	625	INTERGENIC	--	--	--
Ca2_P1_31004156	Ca2	31004156	TAAA/TAAAA	AACGGTCTCTTAGGA CATCA	ACATGGGAATCCAAG ACCA	58.7	562	DRR	Ca_12464	--	LBD
Ca2_P1_3101145	Ca2	3101145	GTTGGAA/GTTGGAACTTGGAA	TTGTCATGGTGGTGC ATCT	TCTTCGACAGCCTTCG CTAT	60.0	657	INTRON	Ca_10540	C	--
Ca2_P1_31013539	Ca2	31013539	GAAAAAAAAAAAAA/GAAAAAAAAAAAAA	TGGTCACGGAGACAAA TCAA	TTGTGCCTTCCCTCTA CCAC	60.1	706	INTERGENIC	--	--	--
Ca2_P1_31013894	Ca2	31013894	TAAAAAAAAA/TAAAAAAAAAAAAA	GTGGTAGAGGGAAGG CACAA	TCATGGATTGTGGTG TGCT	60.1	615	INTERGENIC	--	--	--
Ca2_P1_31017880	Ca2	31017880	A/ATTG	TCCTTGATGCTAAGGT TGCC	GACCCATCTCCAATAG CCCT	60.2	584	DRR	Ca_12462	R	G2-like
Ca2_P1_3102410	Ca2	3102410	AATATAT/AATAT	ACACGTGTCGATGTCG GATA	TGGCCTTTTGAAAGTG CTTC	60.0	621	DRR	Ca_10540	C	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_3102450	Ca2	3102450	AAAATA/AAAATAATA	ACACGTGTCGATGCG GATA	TGGCCTTTGAAAGTG CTTC	60.0	621	DRR	Ca_10540	C	--
Ca2_P1_31031179	Ca2	31031179	CTCTTCTTCTC/CTCTTCTTCTTCTTC	TGTTCCATTGGGGCA TATT	TTCATTTTCAGGTGTG CCAA	60.0	403	CDS (large-effect mutations)	Ca_12461	--	LBD
Ca2_P1_31033011	Ca2	31033011	CTT/CTTT	TGGGAGAGAAACCAAC AAGG	GGCACCAGAGCTAGT GAACC	60.1	409	INTRON	Ca_12461	--	LBD
Ca2_P1_31033700	Ca2	31033700	A/AT	GGTTCAGTACTCTGG TGCC	AAGTGGTGACCTTTT GGTG	59.9	655	INTRON	Ca_12461	--	LBD
Ca2_P1_31035260	Ca2	31035260	TAAGAAA/TAA	TCGACTTTAACAAACG CAAA	AAAGTGAAGTCACGG GGATG	57.1	478	INTERGENIC	--	--	--
Ca2_P1_31036015	Ca2	31036015	TAAA/TAAAAAAA	GGCTTTGTCTCACTTC AAACC	TATCACATGCCATGCA ACAA	58.8	516	INTERGENIC	--	--	--
Ca2_P1_31038690	Ca2	31038690	ATTTTT/ATTTT	CCTTGGGCTTTTGAT TGAA	CACTGGGATCGTGGC ATAAT	60.0	938	INTERGENIC	--	--	--
Ca2_P1_31040473	Ca2	31040473	ATTTTTTTTT/ATTTTTTTTTT	CCGGACTTACGGTGAA GAAA	GTTAAGGAACCGCCG ATGTA	60.1	567	INTERGENIC	--	--	--
Ca2_P1_31041115	Ca2	31041115	TTATTTGAAT/TTATTTGAATATTTGAA T	TACATCGGCGGTTCT TAAC	CAAAATTTTCAAACAAA ACCCA	60.0	379	INTERGENIC	--	--	--
Ca2_P1_31041300	Ca2	31041300	GGAA/GGAAGAAGAA	TACATCGGCGGTTCT TAAC	GGCTAAATTACATCTG TGGTCCTT	60.0	553	INTERGENIC	--	--	--
Ca2_P1_3104148	Ca2	3104148	TAAAAAAA/TAAAAAAA	GGAAACGCCGAGACAT ACAT	GCACAACCTTTTGGC GTAT	60.0	360	DRR	Ca_10539	P	WOX
Ca2_P1_31041722	Ca2	31041722	TA/T	AAAGGACCAATCAGG AAAAA	TACCGCCACTAGAGG CTACG	57.7	848	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_31042129	Ca2	31042129	CGG/CGGG	AACCCCTTGTGTAATG ATTCTG	CATGGAATATCAAGTG GGGG	58.8	346	INTERGENIC	--	--	--
Ca2_P1_31047371	Ca2	31047371	TAAAAA/TAAAAAA	TTTCCTTGTCTTTTGG AGCA	GCGGTGATGATTCCAA AGTT	59.8	369	INTERGENIC	--	--	--
Ca2_P1_31051512	Ca2	31051512	GTATATATATATAT/GTATATATATA TATATATATATAT	CCAAACGGCCACTAAT GTCT	CTGCATTTTCCATCCC AAGT	60.0	614	INTRON	Ca_12459	D	--
Ca2_P1_31060815	Ca2	31060815	GATAA/GATAATAA	TTTGACCGAGTGGAGC TTTT	CCACTCCAACAGCCAT ACCT	59.9	426	INTERGENIC	--	--	--
Ca2_P1_31068357	Ca2	31068357	GGCAATG/GG	TTCAAAGGTGTTTGTG CTTCA	TCACCATAGCAGTTTC CATCC	59.4	877	DRR	Ca_12458	M	--
Ca2_P1_31073018	Ca2	31073018	AAG/AAGAG	TAAACACCGTACACGA CGGA	AATGGGAGGGCTGGA CTAAT	60.0	603	INTRON	Ca_12457	--	NF-YB
Ca2_P1_31075019	Ca2	31075019	CTTT/CT	GCTGGAAGGTTGTGG CTAAG	TGTCCTTGTGAACCT GTCCG	59.9	585	INTRON	Ca_12457	--	NF-YB
Ca2_P1_31077102	Ca2	31077102	AAAA/AAAATTTAAA	TCCTTTTCAAATCACCC AAGA	AGAGGAAAGCTTGCA GACCA	59.5	747	DRR	Ca_12456	--	--
Ca2_P1_31077356	Ca2	31077356	A/AT	TCCTATGAGAAAGTTT TGGCA	AGAGGAAAGCTTGCA GACCA	58.9	481	DRR	Ca_12456	--	--
Ca2_P1_31077411	Ca2	31077411	TAAAAA/TAAAAAA	CAATCCAACACACCA AGAGAA	AGAGGAAAGCTTGCA GACCA	60.0	115	DRR	Ca_12456	--	--
Ca2_P1_31081453	Ca2	31081453	CAGAG/CAGAGAG	ATGAGGTGTGTTCCCC AAAC	TCCTTGGTGCACTCA TCCT	59.7	258	INTERGENIC	--	--	--
Ca2_P1_31085057	Ca2	31085057	T/TTAAA	CACCAACATAAACAA GTCGAA	ACCACAAATGGAGAAG GTGC	58.5	942	DRR	Ca_12455	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_31088258	Ca2	31088258	GT/GTAT	ACAGGCGAGAGGATTG AAGA	TAGCATAGCGGGATT GACC	60.0	518	INTRON	Ca_12454	J	--
Ca2_P1_31103366	Ca2	31103366	CGTGTG/CGTG	CCACACCTAAATCCTC GCAT	TCATGTCTTGTGTGG GCAT	60.0	414	INTRON	Ca_12452	F	--
Ca2_P1_31105983	Ca2	31105983	TAAAAA/TAAAAAA	TGTGGATTATCACCAC TCCAA	TTTTTCCCGCTTAAAT GTAGC	58.8	557	INTERGENIC	--	--	--
Ca2_P1_31108104	Ca2	31108104	C/CT	CGAAATAGAACTTTGC GGGT	TGGATTGACACTTGGT TGGA	59.2	516	INTERGENIC	--	--	--
Ca2_P1_31108593	Ca2	31108593	ATTTTT/ATTTTT	TCCAACCAAGTGCAA TCCA	TGCTAGATTGCCAGC ATAA	59.9	792	INTERGENIC	--	--	--
Ca2_P1_31109532	Ca2	31109532	ATTTTTTTTT/ATTTTTTT	ACATAAGAAAGCTGTGC GCCT	TTGGTTTCATGACCTG CATC	60.0	559	DRR	Ca_12451	F	--
Ca2_P1_31110207	Ca2	31110207	TC/T	CCAAGGTTGGATTCTGA AGTG	AGGCTTTCAGGTCAGA CCAA	60.5	396	DRR	Ca_12451	F	--
Ca2_P1_31113980	Ca2	31113980	CT/CTATTTTATACTATT	ATGCCCAACAAGAC ATGA	TGTTTTGCCACCAGG TAAT	60.0	825	INTRON	Ca_12451	F	--
Ca2_P1_31115854	Ca2	31115854	CAACTCTGTAAGTCTGT/CAACTCTGT	TAATGGAAATGCGACC ATGA	CACCTTCCAATAGGTG AGTGC	59.9	429	INTERGENIC	--	--	--
Ca2_P1_31116827	Ca2	31116827	T/TA	GTCACCCCTCGGTCAA AGTA	GCATGACATGAAAAAC CCAA	60.0	541	INTERGENIC	--	--	--
Ca2_P1_31118846	Ca2	31118846	ATATTATTATTATTAT/ATATTATTA TTATTAT	AACGCCAAGTCAAGAC GAGT	AAGTATGTTGCATTGC GATTTTT	59.9	352	INTERGENIC	--	--	--
Ca2_P1_31122289	Ca2	31122289	ATTTTTTT/ATTTTTTTTT	TGTGTTGAATTTACTAA AACACCCTT	TGCCTCACATGATTCA AAGC	59.4	918	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_31122580	Ca2	31122580	GTATATATA/GTATATA	AAAATTAACACCGG AGGTAGT	TGCCTCACATGATTCA AAGC	57.4	217	INTERGENIC	--	--	--
Ca2_P1_31125141	Ca2	31125141	TTCT/TT	TCTCTCCGTCTGCCA TTTT	CCACATTGGGTATTTT TGGG	59.8	581	INTERGENIC	--	--	--
Ca2_P1_31130324	Ca2	31130324	TAA/TAAAAA	TGCACATATTTTGAGC ATTGAA	TGATGTTGAGGAACA CGGA	59.2	520	INTERGENIC	--	--	--
Ca2_P1_31131673	Ca2	31131673	GAATAATA/GAATAATAATA	TTTGGACAGCAAGAAG ATGG	CATGCAAGAAATGCAA GGAA	58.8	473	INTERGENIC	--	--	--
Ca2_P1_31133031	Ca2	31133031	AC/A	GGTGATCAACACATC GTCG	TTAGGTGGAGAGGT GAGGA	60.0	807	INTERGENIC	--	--	--
Ca2_P1_31133111	Ca2	31133111	CA/CAAA	GGTGATCAACACATC GTCG	TTAGGTGGAGAGGT GAGGA	60.0	807	INTERGENIC	--	--	--
Ca2_P1_3113326	Ca2	3113326	AACCTATACCTT/AACCTATACCTATAC T	ATTTGTTCTGGCCCA CTTT	AGCTTGATGCTGCAAT TCCT	60.7	535	INTRON	Ca_10538	--	--
Ca2_P1_3113498	Ca2	3113498	GTT/GT	TACGACGGCAATTGTA GCTG	ACCTGATCAATGTGTT GGCA	59.9	538	INTRON	Ca_10538	--	--
Ca2_P1_31138425	Ca2	31138425	AA/AATA	TGATGAGACGTTGTC AAACA	TTTCCTCCTTGTTAC CTCC	60.1	464	INTRON	Ca_12449	--	--
Ca2_P1_31141727	Ca2	31141727	CTTTTTTT/CTTTTTT	GGGGTTTGACAGAAAGA TGAA	TCCAAATAAAATGATG ACGCA	60.1	747	INTERGENIC	--	--	--
Ca2_P1_31146139	Ca2	31146139	TTACTATTAATA/TTA	GCGGTGAGAGTTGAGA GGAG	ATTGAAAGCAACTTGC CGAT	60.1	579	INTERGENIC	--	--	--
Ca2_P1_31146373	Ca2	31146373	CTTTTT/CTTTTTT	CTAGAAAGTCCGGCGT ATCG	TTGGCCTGAAGAATGA CCTC	59.9	557	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected 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_P1_31146520	Ca2	31146520	CA/CACTAATTTTGA	CTAGAAAGTCCGGCGT ATCG	TTGGCCTGAAGAATGA CCTC	59.9	557	INTERGENIC	--	--	--
Ca2_P1_31146694	Ca2	31146694	CTTTT/CTTTTT	CTAGAAAGTCCGGCGT ATCG	CATCCCATTTGGTTCA CTCC	59.9	866	INTERGENIC	--	--	--
Ca2_P1_31146777	Ca2	31146777	CTC/CTCGTC	ATCGGCAAGTTGCTTT CAAT	CATCCCATTTGGTTCA CTCC	59.7	850	INTERGENIC	--	--	--
Ca2_P1_31151939	Ca2	31151939	A/AT	AGCCAAAGTGAGAAAG GCAA	AAGGATCCAAGCCAC TTCT	60.0	740	INTERGENIC	--	--	--
Ca2_P1_31153085	Ca2	31153085	C/CT	AGCCAATTGCTGTGG AACA	GCCAGACCATAGGTTCTGA	59.1	238	DRR	Ca_12447	L	ERF
Ca2_P1_31153445	Ca2	31153445	GAAAAAAAAAAAAAAAAA/GAAAAAA AAAAA	AGGAACCTATGGTCTG GCCT	AAGTCTGGCCTACGG CCTAT	60.0	421	DRR	Ca_12447	L	ERF
Ca2_P1_31157909	Ca2	31157909	CG/CGG	CGACCTCCCGAAAGTT GATA	CTGGAATCGACATATG CGTG	60.1	581	INTRON	Ca_12447	L	ERF
Ca2_P1_31158685	Ca2	31158685	GAAAA/GAAA	GGGAACCTGGATTACC ACCT	TCCATTCAATGCTCAC CGTA	60.1	179	INTRON	Ca_12447	L	ERF
Ca2_P1_31160151	Ca2	31160151	AATATATATATATATATATATAT/AA TATATATATATATATATATATATATA T	AGCCTTGAAGTTCGTG CAGT	TGCGTGTTTTCCTCTC AAACT	60.1	445	INTERGENIC	--	--	--
Ca2_P1_31160632	Ca2	31160632	ATTTTTTTTTT/ATTTTTT	AGTTTGAGAGGAAAC ACGCA	TTTTGAACGTCACTTT ATGATCG	59.9	426	INTERGENIC	--	--	--
Ca2_P1_31164745	Ca2	31164745	TTTTTG/TTTTTGATTTTG	TGTTATGCACATCCCC TCAA	TTGGGCCTATCTGAAA ATGG	59.9	842	DRR	Ca_12446	--	ERF
Ca2_P1_31165324	Ca2	31165324	ATT/AT	CCATTTTCAGATAGGC CCAA	TGTTGTTGATTTCGAGT TGGC	59.9	349	DRR	Ca_12446	--	ERF

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_31165502	Ca2	31165502	CTTT/CTT	CCATTTTCAGATAGGC CCAA	CTCTGTGGCCACTTTT GTCA	59.9	712	DRR	Ca_12446	--	ERF
Ca2_P1_31168865	Ca2	31168865	CCA/C	AGCGTCCTTCTGGATG CTAA	TGTCGGGAAAGTGAG AGAAGA	60.0	134	INTERGENIC	--	--	--
Ca2_P1_31169306	Ca2	31169306	TAA/TAACAA	TCTTCTCTCACTTTCC GACA	TGCAAAATATGTTCCGT CAAAA	60.0	489	INTERGENIC	--	--	--
Ca2_P1_31170304	Ca2	31170304	TC/T	TCAACGAAGTCCTTTC TTCCA	TAAGTTTCCCTTGCCC AATC	59.8	312	INTERGENIC	--	--	--
Ca2_P1_31170446	Ca2	31170446	CG/C	TCAACGAAGTCCTTTC TTCCA	TAAGTTTCCCTTGCCC AATC	59.8	312	INTERGENIC	--	--	--
Ca2_P1_31170922	Ca2	31170922	ATTTTTTT/ATTTTTTTTT	GATTGGGCAAGGGAAA CTTA	TCGGATATGCGAATGC AATA	59.0	617	INTERGENIC	--	--	--
Ca2_P1_31172482	Ca2	31172482	TATTTAAT/TAT	CCTTGAATAAAAATATG GGGCA	TCAATAACTTTTAAACAG TCCGACAA	60.0	526	INTERGENIC	--	--	--
Ca2_P1_31172734	Ca2	31172734	CA/C	TGGGGCAAGATTTATA GGAA	TAGTGCGCGACATTTT ATGC	57.2	751	INTERGENIC	--	--	--
Ca2_P1_31172925	Ca2	31172925	AATATATATATA/AATATATATATATA	TTGTCCGACTGTAAA AGTTATTGA	TAGTGCGCGACATTTT ATGC	59.2	265	INTERGENIC	--	--	--
Ca2_P1_31176924	Ca2	31176924	CATATAT/CATAT	TCCAATTTGATATCGG TCTCTTG	CATGGGGATAAAATTT GTCAATG	60.3	508	INTERGENIC	--	--	--
Ca2_P1_31177108	Ca2	31177108	ATT/ATTT	TCCAATTTGATATCGG TCTCTTG	AAACATAAAACAACGT GAGACAAA	60.3	970	INTERGENIC	--	--	--
Ca2_P1_31177967	Ca2	31177967	CTTTTTTT/CTTTTTTTTTT	TCTGTGACAAGTAGCT GTCTCGTAT	TGAGACGCATAAGGGT TATTCA	59.6	322	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_31178385	Ca2	31178385	CA/C	TGAATAACCCTTATGC GTCTCA	TCCTCCCTTTTGTGA CATTTTTTC	59.6	581	INTERGENIC	--	--	--
Ca2_P1_31178815	Ca2	31178815	CTTTTTTTTT/CTTTTTTT	TGTAACAAAAAGGGAG GAAAAA	ACGCAGATGCCAAAGT TGTA	57.9	691	INTERGENIC	--	--	--
Ca2_P1_31179014	Ca2	31179014	TAAG/TAAGAAG	TTGAAGCTCAAATTTCA ACAGAA	TAAACACGCAGATGCC AAAG	59.0	423	INTERGENIC	--	--	--
Ca2_P1_31179559	Ca2	31179559	GAAAAAAAA/GAAAAAAAA	TTTGCCATCTGCGTGT TAAA	CAAAGATCAACATGGG TTGG	60.3	474	INTERGENIC	--	--	--
Ca2_P1_31180202	Ca2	31180202	AAT/A	CCAACCCATGTTGATC TTTG	TCCACTTAGCAATTGG CCTT	58.8	797	INTERGENIC	--	--	--
Ca2_P1_31180458	Ca2	31180458	TATAGATA/TATA	TTGATCTGTCTTACGC CTTTTTC	TCCACTTAGCAATTGG CCTT	59.8	572	INTERGENIC	--	--	--
Ca2_P1_31180507	Ca2	31180507	GATATATATA/GATATA	CACACTGTTGTAATTT TCACGG	TCCACTTAGCAATTGG CCTT	59.5	429	INTERGENIC	--	--	--
Ca2_P1_31180716	Ca2	31180716	TAA/TAAA	GGCCAATTGCTAAGTG GATG	GCTTTGATTCTTGCAA TGTC	60.5	364	INTERGENIC	--	--	--
Ca2_P1_31188890	Ca2	31188890	AG/A	CAATAGGGTTTGCATC CCAC	TTCATGGTTGAGAGCC ACTG	60.2	532	INTRON	Ca_12445	Q	--
Ca2_P1_31189040	Ca2	31189040	GATCA/GATCATCA	CAATAGGGTTTGCATC CCAC	TTCATGGTTGAGAGCC ACTG	60.2	532	INTRON	Ca_12445	Q	--
Ca2_P1_3118907	Ca2	3118907	TAAAA/TAAAAAA	TGCACCAGAATGCCTT GTTA	TGGCCTTCACATTTC AACA	60.3	752	INTRON	Ca_10537	--	AP2
Ca2_P1_31189398	Ca2	31189398	ACC/ACCC	CAGCCCATCCTGTCTT GATT	ATGGACAATTCAGG TCCA	60.1	403	INTRON	Ca_12445	Q	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_31189472	Ca2	31189472	T/TTA	CAGCCCATCCTGTTCT GATT	ATGGACAATTTCAGG TCCA	60.1	403	INTRON	Ca_12445	Q	--
Ca2_P1_3118956	Ca2	3118956	ATATTA/ATATTATTA	ATTTCTTTGCGCAT CGTT	GGCCCAATTTATGTGG TGAC	59.7	804	INTRON	Ca_10537	--	AP2
Ca2_P1_31191262	Ca2	31191262	CC/CCATGTATTCAAC	AAAAAGTGCCGCAAT TTGG	TTGTGGGTGAGAGCA CTACG	60.0	577	INTERGENIC	--	--	--
Ca2_P1_31191785	Ca2	31191785	GAA/GA	CGTAGTGCTCTACCC ACAA	AAACCACAAGAGGATA CCACAGA	59.9	614	INTERGENIC	--	--	--
Ca2_P1_31193349	Ca2	31193349	TCTTAC/TC	CGCGTTTGAGAATTTT GATG	TGGATCAAGCCTTCCA TTTT	59.3	136	INTERGENIC	--	--	--
Ca2_P1_31194189	Ca2	31194189	A/ATACACTCAT	GTGGGTGCGAACTTAG GAAA	TTTTCAATGATCCTAG CCCG	60.1	334	INTERGENIC	--	--	--
Ca2_P1_31194356	Ca2	31194356	CAAA/CAAAA	GTGGGTGCGAACTTAG GAAA	TTTTCAATGATCCTAG CCCG	60.1	334	INTERGENIC	--	--	--
Ca2_P1_31196009	Ca2	31196009	GC/GCTC	ACGAGAATCATGAAC GGAA	CCGTAGCTCATTACT CGGG	58.1	313	INTERGENIC	--	--	--
Ca2_P1_31196347	Ca2	31196347	TA/TAA	ATTGAATTTGCACACC ACCA	TTTTCGGCAAAGCTAT GGTT	59.8	685	INTERGENIC	--	--	--
Ca2_P1_31197321	Ca2	31197321	C/CTTG	CACCTCTCCGCTTACC CATA	AAATTGCACTCGCGTC TTTT	60.1	555	INTERGENIC	--	--	--
Ca2_P1_31197911	Ca2	31197911	TTATA/TTA	AAAAGACGCGAGTGCA ATTT	TGCCAATTTTCGAACT GGAT	59.9	841	INTERGENIC	--	--	--
Ca2_P1_31203854	Ca2	31203854	CTTTTT/CTTTT	ATCCAAAGCTTCCCCA AAAT	TTTTATGTTCTTGCT CCCG	59.8	418	DRR	Ca_12443	--	ERF

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_31211587	Ca2	31211587	GAA/GA	AGCCCTATTTCATC ACCC	GGAACAAATTGATGA GTGTGC	60.2	714	INTERGENIC	--	--	--
Ca2_P1_31211740	Ca2	31211740	TAAAA/TAAAA	AATGTGACAACGTAGC CCCT	CGGGAGAGAAGTGAA AAAGAGA	59.5	949	INTERGENIC	--	--	--
Ca2_P1_3122073	Ca2	3122073	TCCC/TCCCC	GCACACAATCCAAATA CCCTTT	TTGAAGTTGGTGCATG GAAA	60.1	238	DRR	Ca_10536	--	--
Ca2_P1_31232642	Ca2	31232642	GTTAATTAATTA/GTTAATTA	TGTCATCAAGATGCGT CAAAG	CCATTGTGATGTTGGT GGAA	59.9	830	INTERGENIC	--	--	--
Ca2_P1_31232923	Ca2	31232923	GTT/GTTT	ACCCGTGATGGAAGA ATGA	CCATTGTGATGTTGGT GGAA	60.3	323	INTERGENIC	--	--	--
Ca2_P1_31233960	Ca2	31233960	AG/A	GGGTGGAATCATGGT GAAC	TTGGTTGGAAGGAATG GAAG	60.0	436	INTRON	Ca_12440	--	--
Ca2_P1_31235021	Ca2	31235021	TAAAAAAAAAAAAAAAA/TAAAAAAAAA	CACGAGATCTTGAGGC ATGA	TTCTGAGGATTTTCCA ACGG	59.9	607	INTRON	Ca_12440	--	--
Ca2_P1_31240228	Ca2	31240228	TCAA/T	CTGCCCCACTATTTC TCAA	GAAACACTTGGCATGT TAAGGA	60.1	479	INTERGENIC	--	--	--
Ca2_P1_3124197	Ca2	3124197	T/TTTG	TGCAGCCATTGGATTA GGAT	TTTTGCTTCCACATTTT CCC	60.4	680	INTRON	Ca_10536	--	--
Ca2_P1_31244339	Ca2	31244339	AGG/AG	CAAGACTCAGGGTGG GTTGT	AAATCCATTGGGAAAT GCAG	60.0	547	INTRON	Ca_12439	--	C3H
Ca2_P1_31245574	Ca2	31245574	TTCTCTCTCTCTCT/TTCTCTCTCT CTCTCTCTCTCT	AACCCCATCATCATCA TCGT	GAAACGAACCAACCTG GAGA	60.0	262	INTRON	Ca_12439	--	C3H
Ca2_P1_31247048	Ca2	31247048	CGGCA/CGGCATATTGGCA	CGTTGGCTATGGAGAC CCTA	TCGTGTTCAAATGCCG ATTA	60.1	251	DRR	Ca_12439	--	C3H

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_3126083	Ca2	3126083	CTATATATAT/CTATATATATAT	AACGATTCCATGACTA ATTTGAA	TTGAACGGTTTAAATG TGGCT	57.7	518	INTERGENIC	--	--	--
Ca2_P1_3126941	Ca2	3126941	TAT/TATAAT	ATGTGCATGCAAAATT TCAA	ATTTAAGGGACACGTG GCAA	57.6	571	INTERGENIC	--	--	--
Ca2_P1_3127696	Ca2	3127696	ATTTTTTT/ATTTTTTTTT	TAGTTAATGAATCGGG GGCA	TTTAAGGAACCTTTTGC GCTTC	60.3	488	INTERGENIC	--	--	--
Ca2_P1_31280508	Ca2	31280508	GC/GCC	CCACTGTCGCACACAA AATC	TGCTTCCTTTTCCATC ATCC	60.2	834	INTERGENIC	--	--	--
Ca2_P1_31286944	Ca2	31286944	A/ATAATG	TGGTATATTGCACGG ACCA	AAATGCGAGTCTAAGA GGATGC	59.8	330	INTERGENIC	--	--	--
Ca2_P1_3128864	Ca2	3128864	CATATATATATA/CATATATATA	TGTGCTTTGGAATGGA GACA	CATCACATTCGGGTAC ACACA	60.2	727	INTERGENIC	--	--	--
Ca2_P1_31294019	Ca2	31294019	AG/AGAGG	AGACCGTCGGTTTCAA TGAC	AAAAATCTTTACAAG CGGGT	60.0	494	INTERGENIC	--	--	--
Ca2_P1_31294501	Ca2	31294501	TAAAAAAAAA/TAAAAAAAAA	TGAGAAGCTCTTCCCA AAATTA	TGATCACAATCATTGG AGCCT	58.1	262	INTERGENIC	--	--	--
Ca2_P1_31299022	Ca2	31299022	ATTTTTTT/ATTTTTTTTT	TGAGCAGAGGTGTCAA CGAT	TTATGCATTCCATTG CAGC	59.4	227	INTERGENIC	--	--	--
Ca2_P1_31299649	Ca2	31299649	TAAAAAAAAA/TAAAAAAAAA	GCTGCAATGGAAATGC ATAA	GCGAATTTACAATCC CACT	59.7	972	INTERGENIC	--	--	--
Ca2_P1_31300005	Ca2	31300005	A/AG	CATTCCAATGTGCAAC CTCT	GCGAATTTACAATCC CACT	58.6	535	INTERGENIC	--	--	--
Ca2_P1_31300563	Ca2	31300563	TAA/TAAA	GGGATTGTGAAATTCG CCTA	CGTCTCCTCCTTCATC TTCG	59.9	510	DRR	Ca_12434	P	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected 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_P1_31300865	Ca2	31300865	CTTTTT/CTTTTT	CGAAGATGAAGGAGGA GACG	CAACCAAGCCAGTCAA CAAA	59.9	294	DRR	Ca_12435	--	--
Ca2_P1_31302964	Ca2	31302964	ATGT/AT	TTCTTCAGTGGTGACG TTGC	CTTGCACTGCCCTTTT CTTC	59.9	524	INTRON	Ca_12434	P	--
Ca2_P1_31312554	Ca2	31312554	A/AGG	AAGAAATATTTTGCTGT GTGTATTCA	CAACCCAACGTACCAC AATG	59.5	132	INTERGENIC	--	--	--
Ca2_P1_31312751	Ca2	31312751	TAGAAA/TA	CATTGTGGTACGTTGG GTTG	GGGAGGAATGAAAGA AAATTGA	59.7	614	INTERGENIC	--	--	--
Ca2_P1_31313203	Ca2	31313203	TA/TAA	CATGCATCAATTTGAC TTTCG	GCGAGAGAAGACATCA AGGG	59.2	558	INTERGENIC	--	--	--
Ca2_P1_31317559	Ca2	31317559	GTT/GTTT	ATGGCAAACCTATGGC CAAG	GAGTGGGTGGTTGTT TGGT	60.0	831	DRR	Ca_12431	U	--
Ca2_P1_31322875	Ca2	31322875	CAAAAAAAAAAAAA/CAAAAAAAAAAA	TGTTCAACCAAACT GGAA	TTTGTTCAACTTGCT ACAACA	60.0	291	INTERGENIC	--	--	--
Ca2_P1_31323113	Ca2	31323113	GATATATATATATATATA/GATATAT ATATATATATATATA	TGTTCAACCAAACT GGAA	TTTATTTTAAAGGCAT CGTGA	60.0	901	INTERGENIC	--	--	--
Ca2_P1_31325223	Ca2	31325223	TAAAAAAAA/TAAAAAAAAA	CTGCCTTGTTAATAT CGGC	CCACCAGTGGATACCA AACC	59.6	815	INTRON	Ca_12430	E	--
Ca2_P1_31336462	Ca2	31336462	GTTTTTTTT/GTTTTTTTTTTT	TGGTCCAACAAAGGA TGAAG	AAAAATGTCCGGTAAT GTTTTTAG	60.0	493	INTERGENIC	--	--	--
Ca2_P1_31341838	Ca2	31341838	CAATACA/C	TTTCTACGGTGAGGAG TGGG	TGTTTGGACTGCAAT TAAAGAAA	60.1	455	INTERGENIC	--	--	--
Ca2_P1_31347826	Ca2	31347826	ATATCTAATCTAT/ATAT	GGAGCCAACAACAAAG AGGA	ACCTCGCTTAGGAAAG CACA	60.2	820	DRR	Ca_12428	E	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_31350663	Ca2	31350663	A/AGGGAT	CAGGGTCCTCTCCGAT CATA	TCTGGGGTGACAGAG GAATC	60.0	440	INTRON	Ca_12427	R	--
Ca2_P1_31352669	Ca2	31352669	CTTTT/CTTT	CCCTTGCTGTGGATGG TAGT	TCCAAAATCTGCAAGA GGCT	60.0	569	INTERGENIC	--	--	--
Ca2_P1_31355084	Ca2	31355084	AT/ATT	GCATGGAAAAATGAAG GCAT	GAATGCATTGCTCATT TGGA	59.9	674	INTERGENIC	--	--	--
Ca2_P1_31363732	Ca2	31363732	AACGTAC/AAC	CATCATCGACATCGTG GAAC	AGAGAGGGATTCTGTG AGGGT	59.9	422	INTERGENIC	--	--	--
Ca2_P1_31363878	Ca2	31363878	TTATATATAT/TTATATATATAT	CATCATCGACATCGTG GAAC	TGTGTAATTCATTGTG AGACGGA	59.9	461	INTERGENIC	--	--	--
Ca2_P1_31365474	Ca2	31365474	CT/C	TTTACGGCAGAAATTG ACCA	TGGCTTTTTCCCTACT TCCA	59.2	361	INTERGENIC	--	--	--
Ca2_P1_31365682	Ca2	31365682	CTTTTTTT/CTTTTTTTTTT	TGGAAGTAGGGAAAA GCCA	AGCATGAGATGATTGA GGCA	59.7	343	INTERGENIC	--	--	--
Ca2_P1_31367430	Ca2	31367430	TA/TAGGCAA	ATTGTAATGCGGTTCC GAAG	CTCCACACGTGCCATC ATAC	60.0	485	INTERGENIC	--	--	--
Ca2_P1_31367840	Ca2	31367840	CTATA/CTA	GTATGATGGCACGTGT GGAG	CCTTCCCTTTCCCTTG AAAA	60.0	399	INTERGENIC	--	--	--
Ca2_P1_31368120	Ca2	31368120	AATATATAT/AATATATATAT	TCTTCGATGCCATTTT TCC	GGCATGCATCTGAGCA AATA	60.0	801	INTERGENIC	--	--	--
Ca2_P1_31368502	Ca2	31368502	TAAAA/TAAAAAA	AATTAATCGAGTGGCG TGGT	CCGTTCCATTATCGGA GAGA	59.5	339	INTERGENIC	--	--	--
Ca2_P1_31370208	Ca2	31370208	ATTT/AT	TGGTTGATGGCAGGTA AACA	TACCTTGGCTGCTTTT TGCT	60.0	452	INTRON	Ca_12425	--	bHLH

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_31370241	Ca2	31370241	ATT/ATTT	TGGTTGATGGCAGTA AACA	TACCTTGGCTGCTTT TGCT	60.0	452	INTRON	Ca_12425	--	bHLH
Ca2_P1_3137278	Ca2	3137278	CCTTAAAGAGAT/C	CGTCTTCTTGCACTTT GCAT	ATGGCTATGTTCCGT TTGC	60.3	276	DRR	Ca_10535	A	C2H2
Ca2_P1_31373746	Ca2	31373746	CA/CACAA	AGAGATCGCAACATAC ATGGG	TTGCCACCAATGACA AGAA	60.0	700	DRR	Ca_12425	--	bHLH
Ca2_P1_31375000	Ca2	31375000	CAAA/CAAAA	TTGCCTTTTCATATGTG TCTGG	TGGTGGTTACACTCTG GTGC	60.0	890	DRR	Ca_12424	--	--
Ca2_P1_31376623	Ca2	31376623	CTTTTTTTTTT/CTTTTTTTT	TGTGGGTGAAGTCGTC AAAG	TCCAGATGGAAGAGTG GGAG	59.7	438	DRR	Ca_12424	--	--
Ca2_P1_31380888	Ca2	31380888	TT/TTCTGT	AACACCCGAGTCTTGG TCAC	AGAGGCTGCCTGAAAT GAAA	60.0	242	INTRON	Ca_12423	--	--
Ca2_P1_31385073	Ca2	31385073	GAAA/GAAAA	TGTTCTTTGGGGTCTT GGAC	CACTTCAACTTGTCGA TCCG	59.9	314	INTERGENIC	--	--	--
Ca2_P1_31385803	Ca2	31385803	ATTT/A	TGCCGATACCGTTAGT CTTTG	AAGGTGATTTGTGTCT CCCG	60.1	774	INTERGENIC	--	--	--
Ca2_P1_31385863	Ca2	31385863	T/TG	TGGTTTTATCATGGTG CAAAA	AAGGTGATTTGTGTCT CCCG	58.9	694	INTERGENIC	--	--	--
Ca2_P1_31386815	Ca2	31386815	TAAA/TAA	CAGTCGAATCCGCCAT ATCT	TTGGGAATCGCATTTT TCTC	60.1	587	INTRON	Ca_12422	--	MYB_related
Ca2_P1_31386870	Ca2	31386870	GCTACATACTACATA/GCTACATA	CAGTCGAATCCGCCAT ATCT	TTGGGAATCGCATTTT TCTC	60.1	587	INTRON	Ca_12422	--	MYB_related
Ca2_P1_31388110	Ca2	31388110	TAAAA/TAAA	TCAGGGGACAATAACT TGCC	TCCATTTACCCACTAG ACCCA	59.9	919	DRR	Ca_12422	--	MYB_related

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_31388227	Ca2	31388227	TAAAA/TAAAAA	CATCAGTCCCCTCACT GGAT	TCCATTTACCCACTAG ACCCA	59.9	707	DRR	Ca_12422	--	MYB_related
Ca2_P1_31388368	Ca2	31388368	TTT/TTTTCTT	CATCAGTCCCCTCACT GGAT	CGAAACAGTTCCCGAA AGAA	59.9	866	DRR	Ca_12422	--	MYB_related
Ca2_P1_31406637	Ca2	31406637	TAAAAAAAAA/TAAAAAAAAA	AAGTCCAAACAAACC TAGGACA	CTTTATACGGCTGGT TCCA	59.1	488	INTRON	Ca_12421	--	ERF
Ca2_P1_31407170	Ca2	31407170	GAAAAAA/GAAAAAA	TGGAACCCAGCCGTAT AAAG	TCTTGCTCAAGGGTCA TTCA	60.0	223	INTRON	Ca_12421	--	ERF
Ca2_P1_31412396	Ca2	31412396	TAAA/TAAAA	TGAAAATCGAGCGCTA ACAA	GTGCACAAGATGCCG TTTT	59.6	463	INTRON	Ca_12420	--	LBD
Ca2_P1_31412866	Ca2	31412866	ATTATTTTTTA/ATTA	GCTGCACAAGGTGTTG TTGT	CATGCCTGAATGTCCA GAGA	59.8	333	INTERGENIC	--	--	--
Ca2_P1_31412999	Ca2	31412999	GGAGAGAGAGAGAGAG/GGAGAG AGAGAGAG	GCTGCACAAGGTGTTG TTGT	CATGCCTGAATGTCCA GAGA	59.8	333	INTERGENIC	--	--	--
Ca2_P1_31415262	Ca2	31415262	GATAT/GATATATAT	GGAAGTTTGACTTTGA CCCG	GCTATCAATACACGCG CTGA	59.6	482	INTERGENIC	--	--	--
Ca2_P1_31415795	Ca2	31415795	AG/A	TCAGCGCGTGATTGA TAGC	TCATCATGAACCTGCA TCTG	60.0	741	INTERGENIC	--	--	--
Ca2_P1_31419525	Ca2	31419525	T/TGG	GGCTTTCCATTTTGGG TTTT	ATTCCAATGTGGAAGG ACAA	60.2	258	INTERGENIC	--	--	--
Ca2_P1_31421303	Ca2	31421303	GGACGAGGACGATGACGAGGACGA/ GGACGAGGACGA	TGTGGATTGCATTTCC CTTT	CCCTTACACCTCCACC TTCA	60.3	582	INTERGENIC	--	--	--
Ca2_P1_31426034	Ca2	31426034	GCTTTCTACTTTCTACTTTCTACTTC/ GCTTTCTACTTTCTACTTTC	CTTTTCCTTCCACCAA CCAA	AAACGGGTAACCGCTT CTTT	59.9	384	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_31430059	Ca2	31430059	TTTTATTATTATTATT/TTTTATT ATTT	ACTGAACCGAACCC TTTG	AAAAAGACGGTAAGGC GACA	60.0	542	DRR	Ca_12419	--	--
Ca2_P1_31439958	Ca2	31439958	GAAAAAA/GAAAAAAA	CAAAATGTCAGGTGAA AATCCA	TGCTCCTTATGCCAAC TCCT	59.8	492	INTERGENIC	--	--	--
Ca2_P1_3144381	Ca2	3144381	TAGGTAGTTAGTTATTGAGGTAGTTA GTT/TAGGTAGTTAGTT	TTATGGTGGTGCCTGC AATA	GACTTTGATCATGTCA AGGGAA	60.0	590	INTRON	Ca_10533	--	AP2
Ca2_P1_31450111	Ca2	31450111	TCC/TC	TTCCCAATCGATCCTA CGAG	ATTGTGGAGAATCTGC AGGG	60.0	313	INTERGENIC	--	--	--
Ca2_P1_31450760	Ca2	31450760	AC/ACC	TACAAATTGGATGCGG TTGA	GTTTTGACTAGCACTC CCGC	59.9	221	INTERGENIC	--	--	--
Ca2_P1_3145519	Ca2	3145519	AGAAG/A	TCGAACCTCGCTTTGT TGTG	TCTTGAAATCCCGTA ATCG	60.0	385	CDS (FRAME SHIFT)	Ca_10533	--	AP2
Ca2_P1_31456735	Ca2	31456735	ATTTTT/ATTTTT	AGCGCGCAATATGTCT ACCT	CCACTCTAGCTCGGTC CTTG	59.9	300	DRR	Ca_12418	--	Trihelix
Ca2_P1_31459870	Ca2	31459870	ATTTT/ATTT	TGTTGGGGTTTGAGG ATAA	CCTATGCCTACGACAT GCCT	60.2	519	INTERGENIC	--	--	--
Ca2_P1_3146989	Ca2	3146989	T/TG	CTGTTTAGAAATCCG GCCA	AATGTATTCATGTTTCG CGGC	60.1	543	DRR	Ca_10532	R	C3H
Ca2_P1_31474139	Ca2	31474139	ATTTTTTTTT/ATTTTTTTT	TGTGACAACCTCCTAGC GGTG	CGTATGGTGGTCCCCT TCTA	59.9	715	INTERGENIC	--	--	--
Ca2_P1_31534378	Ca2	31534378	CG/CGG	AGGAAAGCAACGTGAA CAGC	CCAAGACAGGCAAGA AAGC	60.4	519	INTERGENIC	--	--	--
Ca2_P1_31534854	Ca2	31534854	TT/TTCT	GCTTTCTTTGCCTGTC TTGG	ACTTTGTCCACTGCCA AACC	60.0	331	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected 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_P1_31540387	Ca2	31540387	AATATATATATATATATATATATATA TATATATATAT/AATATATATATATATAT ATATATATATATAT	CATGTCCATAGTCCCC CAAA	ATCGTGCGATTGGATC TTTC	60.6	403	INTERGENIC	--	--	--
Ca2_P1_31540844	Ca2	31540844	TAAAATAATTCAA/TAAAATAATTCAA AAAAATAATTCAAA	ACGATCCAGCAATCTT TCGT	CAATTCCCTGATTAAT TTGTTTGA	59.7	582	INTERGENIC	--	--	--
Ca2_P1_3154111	Ca2	3154111	A/AT	TTCGTCCTGTCATCCA AAAT	TTTGACGGTGAAAAAG TGATATG	58.0	975	INTERGENIC	--	--	--
Ca2_P1_3154882	Ca2	3154882	TAACA/TAACAAC T G C T T T A A A A C A	TGGACTCAACATTCCA ACCA	CCGATGCCTGTTTTAA GGAA	59.9	496	INTERGENIC	--	--	--
Ca2_P1_31550288	Ca2	31550288	CTTTTT/CTTTTTT	ACAAATATCCCATCCC ACGA	TGCACGTAAAAATTGCC TAAAA	60.0	721	INTERGENIC	--	--	--
Ca2_P1_31551913	Ca2	31551913	TTGTG/TTG	TTGAAGTTGAAGTCGG ACCC	CTTGGCACTCAATATC GCAC	60.1	521	INTERGENIC	--	--	--
Ca2_P1_31562756	Ca2	31562756	ACC/ACCC	CACTTAGGAATCCCC ACCA	AGCTTGAAACCCTTGA CCCT	59.8	476	INTERGENIC	--	--	--
Ca2_P1_3156648	Ca2	3156648	GTCT/GTCTCT	GGTCAGAACAAAGG GT TGGA	GTTTGTCCCTTCTAG GCCC	59.9	488	INTERGENIC	--	--	--
Ca2_P1_31577288	Ca2	31577288	CTAATAATAATAATAATAATAATAA TAATAATAATAATAATAATA/CTAA TAATAATAATAATAATAATAATAAT AATAATAATAATA	TTGCATTGCCTCACTT GAA	TGGTGAGAAACGTTGG ATGA	60.4	805	INTERGENIC	--	--	--
Ca2_P1_31581118	Ca2	31581118	GTTTTTTTTTTTTT/GTTTTTTTTTT	GAATTCATACCGAGTC CAACAA	CCATTATGCACATGCA ACCT	59.0	604	DRR	Ca_17856	E	--
Ca2_P1_31581278	Ca2	31581278	ATTTTT/ATTTTTT	GAATTCATACCGAGTC CAACAA	CCATTATGCACATGCA ACCT	59.0	604	DRR	Ca_17856	E	--
Ca2_P1_3158875	Ca2	3158875	GTATTATTATTATTAT/GTATTATT ATTATTATTATTAT	CGCAAAAGTTGCATGA AGAA	TCTAAGAAATTTGCC CAATG	60.0	295	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_31591314	Ca2	31591314	CTATATATATATAT/CTATATATAT TATATATATATATAT	AATTTTtagggatGTG GCCC	TTGGTCTGACTTGGAA GCCT	60.0	825	DRR	Ca_17855	U	bHLH
Ca2_P1_3159298	Ca2	3159298	ATTTTTTT/ATTTTTTTTT	CGCAAAAGTTGCATGA AGAA	TGCAGGACGGTCTAAC AATG	60.0	600	INTERGENIC	--	--	--
Ca2_P1_31595446	Ca2	31595446	ATTTTT/ATTTTTTT	GCCGAATGAACACGT TTCTC	CCGTTTGATGCATATT TGATG	58.9	677	INTERGENIC	--	--	--
Ca2_P1_31595806	Ca2	31595806	TAGATACAATAAGATA/TAGATA	GAGATGTGATGGTTGT ATGTGGA	CCGTTTGATGCATATT TGATG	59.7	252	INTERGENIC	--	--	--
Ca2_P1_31596346	Ca2	31596346	ATTTTT/ATTTTT	GCATCAAATGCATC AAACG	TGACGCTCCACAGTC TTTC	59.0	567	INTERGENIC	--	--	--
Ca2_P1_31601656	Ca2	31601656	ATT/AT	TTGCAATGGTTGCATG ATTT	CTTTGTCAACTGCTT GCCA	59.9	553	INTRON	Ca_17854	--	SAP
Ca2_P1_3162145	Ca2	3162145	CAAAAA/CAAAAA	CTCTTGCTTCTCTC CCCC	GGCCTTCTGTGAGAAG CATT	60.5	788	INTRON	Ca_10531	S	--
Ca2_P1_31622880	Ca2	31622880	CAAT/C	TCCTTCTAAAAGGTTG GTGTTGA	CTATTGTGTTGGGATT GGGG	60.0	677	DRR	Ca_17853	--	--
Ca2_P1_31624259	Ca2	31624259	AATATAT/AATATATATAT	AAAGGGCACCACCTTT GTTG	TTGAGTTAACTGAGGA ACTATAACTGC	60.0	823	INTERGENIC	--	--	--
Ca2_P1_31624499	Ca2	31624499	ATCTTT/A	AATTAAAAAGTACAATC ACATGTCAAA	TGTAATAGTTTCACCG AACACAA	57.5	589	INTERGENIC	--	--	--
Ca2_P1_31634150	Ca2	31634150	GAAAAAAA/GAAAAAAA	GGGTGAAGGTGAAGAA GTGC	TTGGGCTTGATAAAAG TGGG	59.7	524	DRR	Ca_17852	--	--
Ca2_P1_31636405	Ca2	31636405	GTGATGA/GTGA	TCATGAGATGGTCGAG TTGC	TCCTCGTAATCAGGCA AACA	59.8	203	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected 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_P1_3165078	Ca2	3165078	A/AT	CCACATTGTGTGTGTTGG	TGCAACTATGCTTTCA CACCA	59.3	728	DRR	Ca_10531	S	--
Ca2_P1_31657254	Ca2	31657254	CTTTTTTT/CTTTTTTTTT	GAACGTGGAAAATTC CATCA	GTTGGGAGGTTTCAC TTCTG	60.0	570	INTERGENIC	--	--	--
Ca2_P1_3166543	Ca2	3166543	T/TA	CATGTTTTTCAGCCCAA CAAA	TTCCGCACATCAAACA CAAT	59.6	849	INTERGENIC	--	--	--
Ca2_P1_31670124	Ca2	31670124	ATAA/ATAATTAA	CGACATAATTCAGATG CACGA	GAGACTACAATGGTGG CGGT	59.7	824	DRR	Ca_17848	--	--
Ca2_P1_31670858	Ca2	31670858	CGTCGCTGTCGCTGTCGCTGTCGCT G/CGTCGCTGTCGCTG	ACCGCCACCATTTAGT TCTC	CCGAGCCATCAAAAGA TGAT	60.0	434	CDS (large-effect mutations)	Ca_17848	--	--
Ca2_P1_31678680	Ca2	31678680	TC/T	GGAGCGCTTTAAACAC AAGC	TGGAAACCAAGTGCCA AGTC	60.0	517	INTERGENIC	--	--	--
Ca2_P1_31680004	Ca2	31680004	GATATATATATATATATATATATATA TATAT/GATATATATATATATATATA TATATAT	ATCCACGTGGTCTTCA AAGC	GCGTGGGAAAATGAG ACTTT	60.1	601	INTERGENIC	--	--	--
Ca2_P1_31682953	Ca2	31682953	ATTTTTTT/ATTTTTT	ACATGGCATGACCCAA AAAT	TCTAGCAGTTTGTGTG TGCG	60.1	333	INTERGENIC	--	--	--
Ca2_P1_31685454	Ca2	31685454	TAAAAAA/TAAAAAA	AGCTTTCGATCCAACA AATGA	TCTCTTTTCGAGCCAG CATT	59.7	422	INTERGENIC	--	--	--
Ca2_P1_31688320	Ca2	31688320	TC/T	CCAACCTTTCATTGTTA CCGA	GATGCAAAAGAGGCCAA CCTA	59.8	508	INTERGENIC	--	--	--
Ca2_P1_31688716	Ca2	31688716	TAAAAAAA/TAAAAAAA	TCCAACCTTTCATTGTT ACCG	CCGAGCCAAAATCCAA AATA	59.8	843	INTERGENIC	--	--	--
Ca2_P1_31692825	Ca2	31692825	AACTTCATACTTCATA/AACTTCATA	AAAACGGGGTGTCACA CATT	TTGTTTGCGAATGTTT TTGC	60.1	631	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_31693043	Ca2	31693043	TAA/TA	CCAATTAACGGAATTG GTCC	TCGATGTTGTTGCGA ATGT	59.1	539	INTERGENIC	--	--	--
Ca2_P1_31693913	Ca2	31693913	CTT/CTTT	GGGAGTTGGCTAGTAC ACCTTG	AATGGGCTGGTTCAAT TCAA	60.1	312	INTERGENIC	--	--	--
Ca2_P1_31694754	Ca2	31694754	A/AAT	GCTTTTCATAAGAAGC GTTGTAA	AATTGAGCTTGTTGAT GTGGA	57.9	305	INTERGENIC	--	--	--
Ca2_P1_3169610	Ca2	3169610	TAAA/TAA	TTGTCGGTTTAACTT GTGTGC	TGACATCATATGTAT GGACTCG	60.1	536	INTERGENIC	--	--	--
Ca2_P1_3169671	Ca2	3169671	ATTTTTTT/ATTTTTT	TTGTCGGTTTAACTT GTGTGC	TTTTCCAAGGATTTTC AACTCT	60.1	892	INTERGENIC	--	--	--
Ca2_P1_31697056	Ca2	31697056	TTTT/TTTTTATTT	GTGTGCAGGTAAGGCT GACA	ATTTGGCATTGGGTTG GATA	59.9	759	INTERGENIC	--	--	--
Ca2_P1_3169869	Ca2	3169869	ATTTTTTTTT/ATTTTTT	TCGATGTCATTGTAGT CACCAA	TCAAAGCCAGTTTCAA ATGC	59.1	553	INTERGENIC	--	--	--
Ca2_P1_3170030	Ca2	3170030	ATTTTTTTTT/ATTTTTT	TCGATGTCATTGTAGT CACCAA	TCAAAGCCAGTTTCAA ATGC	59.1	553	INTERGENIC	--	--	--
Ca2_P1_3170210	Ca2	3170210	TTAT/TTATAT	GAGTTGAAATCCCTTG GAAAA	AGGCACAATAGCTCAT GCAGT	58.1	555	INTERGENIC	--	--	--
Ca2_P1_3171321	Ca2	3171321	TTCT/TT	ATGGCGAAGAAGGTAT GCAC	CAGTTGAATCGGTCAG TCCA	60.1	381	INTERGENIC	--	--	--
Ca2_P1_31713656	Ca2	31713656	TAAG/TAAGAAG	TCGGTTTCTCCTTCAC CATC	TTGTCAAACACGCAAT CCAT	60.1	595	INTERGENIC	--	--	--
Ca2_P1_31714242	Ca2	31714242	ATTTTTTTTTTT/ATTTTTTTTTT	CAATGGATTGCGTGT TGAC	TTCGGTGAACCATCT TACC	60.0	427	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_31716115	Ca2	31716115	CAT/CATTATAT	AAGGAATTGCAGCAG CTTA	GGAACGTAGAGGGA GAGGG	60.0	451	INTERGENIC	--	--	--
Ca2_P1_31718772	Ca2	31718772	TTTATTAT/TTTATTATTAT	ATCACCGGTTCTCACC AAAG	GGGTGCCATCATAAGC AAGT	60.0	236	INTERGENIC	--	--	--
Ca2_P1_31725700	Ca2	31725700	TGG/TGGG	TTTGAATTATTATTG GCTTTGTT	GGTAATTACGGTCACG GTGG	57.5	883	INTERGENIC	--	--	--
Ca2_P1_31729891	Ca2	31729891	TAAAAA/TAAAAA	ATGTTCCAATTGCCTT GCTT	TTTCATGCCTCATTTG TCCA	59.6	580	INTERGENIC	--	--	--
Ca2_P1_31732328	Ca2	31732328	TCCCC/TCCC	AAATTGCAATTGCGT CAAG	TGACCCATGTGTGAAC CCTA	60.1	415	INTERGENIC	--	--	--
Ca2_P1_3174472	Ca2	3174472	ATTTT/ATTT	TTTTGACTGAGGGTAT TTAAAGGT	AAGCGAATGTGTGACG ACAG	57.5	623	INTERGENIC	--	--	--
Ca2_P1_31744890	Ca2	31744890	ATTTTTTT/ATTTTT	TGTGTTCTCAACCCT GTCA	ATTGGCATTGGGTTG GTTA	60.1	580	DRR	Ca_17844	--	--
Ca2_P1_31745963	Ca2	31745963	AATATATATATATATATAT/AATATA TATATATATATAT	TCCATAGAGCCATGGA AAGG	ATAATGTCAGCATGTA TGCAAAA	60.0	448	INTERGENIC	--	--	--
Ca2_P1_31746177	Ca2	31746177	AATAT/AATATAT	CGAGTTGTAAAATTG GCTTCC	GGGGATGTGTATTAAA GGGGA	60.0	914	INTERGENIC	--	--	--
Ca2_P1_31746486	Ca2	31746486	TTAATAATAATAATAATAATAATAA TAATAATAATAATAATAATAA/TTAATA ATAATAATAATAATAATAATAATAA TAATAATAATAATAATAATAATAA	CGACGTTTAATTAATTC ATCCCA	CTCACCCAAGTCTTTG CTCC	60.1	714	INTERGENIC	--	--	--
Ca2_P1_31753054	Ca2	31753054	GA/GAAAA	TGAACGCATGTGGACA CTTT	CACATTTGGAGCAACG ACAC	60.2	328	INTERGENIC	--	--	--
Ca2_P1_31757753	Ca2	31757753	TCCC/TCC	TCCGTTATCGTGGTTT CCTC	TTGCGAATTGGCCATA GAAT	59.9	424	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_31758644	Ca2	31758644	TAAAAA/TAAAAA	CGACGTTTAATTAATC ATCCCA	CGTGATTTCCAGCGT CTGA	60.1	463	INTERGENIC	--	--	--
Ca2_P1_31781318	Ca2	31781318	TGGGGG/TGGGG	TGGTGTGGTTAGCAT CCTTC	ATGACGGCAAACTC AACA	60.0	134	INTERGENIC	--	--	--
Ca2_P1_31788666	Ca2	31788666	AT/A	ACATCGCATGGTTAG AGGC	GCATGTCTTGTGCCA AATG	60.1	606	INTERGENIC	--	--	--
Ca2_P1_31793722	Ca2	31793722	GATA/GATATATA	TCAGTTGAATTAAGC GTAAGGA	TCCATGCACACGTACA CACA	60.1	702	INTRON	Ca_17840	--	--
Ca2_P1_31794099	Ca2	31794099	TAA/TAA	TGTGTACGTGTCATG GAAG	ATCCTTGGCCTTTGG CTAT	59.2	247	INTRON	Ca_17840	--	--
Ca2_P1_31794610	Ca2	31794610	GAAAAA/GAAAAA	ATAGCCAAAAGGCCAA GGAT	CTGGTCTGTCACTTTC AGCG	59.9	804	INTERGENIC	--	--	--
Ca2_P1_31795559	Ca2	31795559	CATTAATT/CATT	CACCGTCAACAAAA CCAA	CAGCCGTGTAACTCGT CAAA	59.5	885	INTERGENIC	--	--	--
Ca2_P1_31799253	Ca2	31799253	TAAAAA/TAAAA	AAATGTCAACGTGGCG TACA	GCACGAGGATTGCTAT GTGA	60.0	832	INTERGENIC	--	--	--
Ca2_P1_31814032	Ca2	31814032	TAAAAAA/TAAAAA	TGGTCCTGGCTCAAGT CTTT	CTCCTTGTGTTGCCT CCAT	59.8	573	INTRON	Ca_17839	--	--
Ca2_P1_31814308	Ca2	31814308	CAAAAA/CAAAA	ATGGAGGCAACAACAA GGAG	TCTTAGCTGCAACAAT GAGGA	60.1	612	INTRON	Ca_17839	--	--
Ca2_P1_31814386	Ca2	31814386	CAAAAAA/CAAAAA	GGAGGCAACAACAAGG AGAG	CCATCTTTCAAGCCAA CTCC	59.8	685	INTRON	Ca_17839	--	--
Ca2_P1_31814597	Ca2	31814597	CTTTTTT/CTTTTTTTT	GGAGGCAACAACAAGG AGAG	GACGAGTGCCATCCA TCTT	59.8	698	INTRON	Ca_17839	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected 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_P1_31814639	Ca2	31814639	TTATA/TTATATA	GGAGGCAACAACAAGG AGAG	GACGAGTTGCCATCCA TCTT	59.8	698	INTRON	Ca_17839	--	--
Ca2_P1_31814698	Ca2	31814698	A/ATGATG	GGAGGCAACAACAAGG AGAG	GACGAGTTGCCATCCA TCTT	59.8	698	INTRON	Ca_17839	--	--
Ca2_P1_31816754	Ca2	31816754	T/TTA	TGAATCCCAAAGCTCC TTCA	TGTTTAGCGAATAATT GGGATG	60.7	574	DRR	Ca_17839	--	--
Ca2_P1_31818875	Ca2	31818875	A/AG	TTTGTGATTGGTTTGC ATTG	TTCCATGCCTTCAACC TTTC	58.0	511	INTERGENIC	--	--	--
Ca2_P1_31824019	Ca2	31824019	A/ACT	TGTCGACGTGTCAGTG TCAA	GGTTTGCCTCTTCCAC TCAT	59.9	599	CDS (FRAME SHIFT)	Ca_17837	J	--
Ca2_P1_31824240	Ca2	31824240	TATAA/TATAATAA	ATGAGTGGAAGACGCA AACC	GTGATGACTGCTCTGT GGGA	60.1	466	INTRON	Ca_17837	J	--
Ca2_P1_31828278	Ca2	31828278	ATTGTT/ATTGTGTT	AAAAATCGCCATTGTTT TGG	AAAAATAGGGAATCCG GTGC	59.8	510	INTRON	Ca_17836	--	MYB_related
Ca2_P1_31828392	Ca2	31828392	CTTTTTT/CTTTTTT	AAAAATCGCCATTGTTT TGG	AAAAATAGGGAATCCG GTGC	59.8	510	INTRON	Ca_17836	--	MYB_related
Ca2_P1_31828649	Ca2	31828649	ATT/ATTT	CACAATGGATGACCTT TTCC	ACTTGCCCAATTTCT TGTG	60.2	455	INTRON	Ca_17836	--	MYB_related
Ca2_P1_31830758	Ca2	31830758	CTTTTT/CTTTT	CACATGCATGCACTTC CTCT	TTGCTGACAGTTTGGA CTGC	59.9	544	INTRON	Ca_17836	--	MYB_related
Ca2_P1_31833407	Ca2	31833407	GTTT/GTT	TATCACGTGCCAAACC AAGA	TTGAGAAGCTCAGAGC GTGA	60.1	626	INTERGENIC	--	--	--
Ca2_P1_31835632	Ca2	31835632	GTTTTT/GTTTTTTT	GCCATTAGGCGTTTCC ATTA	TATCGCATATGGCATT GTGG	59.9	542	INTRON	Ca_17835	V	bHLH

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected 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_P1_31838256	Ca2	31838256	GTGCGGTG/GTGCGGTGGAATATGCGGTG	ACTTGACGATGGTTTTTGGC	CTAACCGCGAAACCAACAT	60.0	393	DRR	Ca_17834	--	--
Ca2_P1_31839662	Ca2	31839662	GCC/GC	TGATCGAATATTTTTAACCGCA	TGCTTTTGTTCCTCAAGTTGC	59.5	840	DRR	Ca_17835	V	bHLH
Ca2_P1_3184069	Ca2	3184069	GTATA/GTA	TCTGGAGGTAGAGACAGCCA	ACTTGCCAAAGATGCTCCAG	60.0	432	INTRON	Ca_10528	T	HD-ZIP
Ca2_P1_31841304	Ca2	31841304	GATATATATATATATATAT/GATATATATATATATATAT	GGAGAACTCAAGTTCAACCGTG	AGGTCAGTAGTTTGGCGTGT	60.0	534	INTERGENIC	--	--	--
Ca2_P1_31842513	Ca2	31842513	TAAAAAAAA/TAAAAAAAAA	AATCGCAAAGGCCAAATAGA	TTTTTCGGGGTTTGAAACAC	59.7	828	INTERGENIC	--	--	--
Ca2_P1_3184404	Ca2	3184404	AAAA/AAAAATAA	TGCATATCCTTGTTCCCA	CTTCCATGGGCTGTGAAGAT	59.9	486	INTRON	Ca_10528	T	HD-ZIP
Ca2_P1_31844278	Ca2	31844278	T/TA	TAGGTGGGTGCATTTTCT	TGATCATCCATGTATTATTGTGG	59.4	714	INTERGENIC	--	--	--
Ca2_P1_3184768	Ca2	3184768	CAAAAA/CAAAAAA	CTTTTGACGACCAAGCATA	TCTAGGTGCCCTCCAAATC	60.0	314	INTRON	Ca_10528	T	HD-ZIP
Ca2_P1_31849610	Ca2	31849610	TAA/TAAA	GTGGCATCTCCGAGTGTAT	GGTTGGATGCGACCAACTAT	60.1	179	DRR	Ca_17833	--	--
Ca2_P1_31850651	Ca2	31850651	TATGCATG/TATG	TCCATTTCTTTTGAGAAACGCA	GATAGTTGGGGGCCAATTTT	58.9	489	INTERGENIC	--	--	--
Ca2_P1_3185239	Ca2	3185239	AAGA/AA	GATGTTGGAGGGCACCTAGA	GTGAAGGAGGGTTTGAACA	60.1	661	INTRON	Ca_10528	T	HD-ZIP
Ca2_P1_31853745	Ca2	31853745	ATTT/ATTATTTTT	CAACCGTAGCCACCTAAAA	AATGCGCAAAGAAAGTTGG	60.0	610	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_31853792	Ca2	31853792	AA/AAGA	CAACCGTAGCCACCT AAAA	AATGCGCAAAGAAAGT TTGG	60.0	610	INTERGENIC	--	--	--
Ca2_P1_31856792	Ca2	31856792	CTT/CTTT	CCCACAATTGAAAGCC TTGT	GTCTAGGCCAGCCCTA CCTC	60.0	576	INTERGENIC	--	--	--
Ca2_P1_31860805	Ca2	31860805	AC/ACC	TCTCATTACAAATTG GCCTC	TGTGCGACATACGACA TACG	60.1	241	INTERGENIC	--	--	--
Ca2_P1_31861522	Ca2	31861522	ATTTT/ATTT	TTGCAAAATGCTTGAG AGAAAA	ATGGCCTATGCCAATG AAAC	60.0	459	INTERGENIC	--	--	--
Ca2_P1_3186542	Ca2	3186542	GATA/GATAATA	TTTGGGGTGTTTCAA GTCA	TTCAC TTGACACCTCT CTCCC	59.0	397	INTRON	Ca_10528	T	HD-ZIP
Ca2_P1_3187450	Ca2	3187450	AC/A	AAAGGACCAGCCATT TCTT	TCCATGTGGGGCTAAT TCAT	59.9	276	INTERGENIC	--	--	--
Ca2_P1_3187597	Ca2	3187597	TAAA/TAAAA	AAAGGACCAGCCATT TCTT	TCCATGTGGGGCTAAT TCAT	59.9	276	INTERGENIC	--	--	--
Ca2_P1_3187729	Ca2	3187729	CTTTTTTT/CTTTTTTTTTTTTTTT	AAAGGACCAGCCATT TCTT	GCTCAGAAAATGCATC CCTC	59.9	594	INTERGENIC	--	--	--
Ca2_P1_31882952	Ca2	31882952	CTTTATTTATTTAT/CTTTATTTATTTAT TTAT	TTTCTGGTGGGATCAG CTCT	GACATCCTGCGCCAGT TATT	59.8	591	INTRON	Ca_17830	D	LBD
Ca2_P1_31883010	Ca2	31883010	AAGAG/AAG	TTTCTGGTGGGATCAG CTCT	GACATCCTGCGCCAGT TATT	59.8	591	INTRON	Ca_17830	D	LBD
Ca2_P1_3188322	Ca2	3188322	TG/T	GAGGGATGCATTTTCT GAGC	TTTTGGCCATTTTACT GCTG	59.8	727	INTERGENIC	--	--	--
Ca2_P1_31892832	Ca2	31892832	TC/T	CATTTGGTCGGTCAAA AGAAA	TTCTACCCAAGAAAAC ATGCG	60.0	473	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_31896971	Ca2	31896971	TAGAAGAAGAA/TAGAAGAA	TGCAACCAATGTTCCC TACA	CTTAGAAGAGTGCATC CGCC	60.0	326	INTRON	Ca_17828	I	C3H
Ca2_P1_31898002	Ca2	31898002	TAAAAA/TAAAAA	TAAATTGGCCGACCAA AAAG	CCAAGGGGTAGACAT GGAAA	59.9	838	INTRON	Ca_17828	I	C3H
Ca2_P1_31905190	Ca2	31905190	ATTTT/ATTTT	AATAAGTGGTTGGG GGAG	GGTATTCGTTGCGTCA TGTG	60.0	450	INTRON	Ca_17827	--	C3H
Ca2_P1_31905735	Ca2	31905735	CTACTATACT/CTACTATACTATACT ACT	TTCCAACGGTGAAAC AACA	CGATATAGGGTTGGTT TGCG	60.0	207	DRR	Ca_17826	O	--
Ca2_P1_31911927	Ca2	31911927	TGGGGGG/TGGGGG	GGCTCTTGAGTTCGCT TGTC	GGCTCAGTCTCTGGTT GGAG	60.1	627	INTRON	Ca_17826	O	--
Ca2_P1_31912393	Ca2	31912393	TTATCTA/TTATCTATCTA	TGAGAAATCTCCATCC CCAG	CGCATCCTTGACAAC CTGA	60.0	650	INTRON	Ca_17826	O	--
Ca2_P1_3191565	Ca2	3191565	T/TATTTAAATA	TGTGCATCGATGAAT GAGG	TAGGGGCTCTGCCTC TACA	60.6	585	INTERGENIC	--	--	--
Ca2_P1_31920016	Ca2	31920016	AATTATAATCAATTAT/AATTATAATCA ATTATTATAATCAATTAT	TTCAGAAGAAGGAAAC AGCACA	GATCCACAAAATTGGT TTTTCA	60.0	877	INTERGENIC	--	--	--
Ca2_P1_31921391	Ca2	31921391	TAAAAA/TAAAAA	CATCGTTCAAACCTTAA TTGCG	TCTGTATCGCATGGTT GCTT	59.7	827	INTERGENIC	--	--	--
Ca2_P1_31921422	Ca2	31921422	GTTTTT/GTTTTTTT	GGAAAGTCAAACCTT AAATGGGA	TCTGTATCGCATGGTT GCTT	59.9	533	INTERGENIC	--	--	--
Ca2_P1_31921460	Ca2	31921460	TA/TAA	GGAAAGTCAAACCTT AAATGGGA	TCTGTATCGCATGGTT GCTT	59.9	533	INTERGENIC	--	--	--
Ca2_P1_31924339	Ca2	31924339	TTTATT/TTT	TGGATTTTGTGTTTG GTGC	ACATCCAAACCGCAAG GTAA	59.4	438	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_31925279	Ca2	31925279	GTTTTTTTTT/GTTTTTTTTT	GACCAGCCTCCCTAAC CTTC	TGTTGCCGATAGACCA TGAA	60.1	538	INTERGENIC	--	--	--
Ca2_P1_31925325	Ca2	31925325	CT/CTTT	GACCAGCCTCCCTAAC CTTC	TGTTGCCGATAGACCA TGAA	60.1	538	INTERGENIC	--	--	--
Ca2_P1_31925644	Ca2	31925644	TG/T	TTCATGGTCTATCGGC AACA	ACTTGATTGCATCTC CCAC	60.1	503	INTERGENIC	--	--	--
Ca2_P1_31929627	Ca2	31929627	AATA/AA	ACACAGCAACACATCA TCACA	CAGGTCACTTCCCCAA AGAG	58.6	580	INTERGENIC	--	--	--
Ca2_P1_31929726	Ca2	31929726	ACC/ACCC	ACGGTTTGCAGCATTT TTTT	AAAAATCCTTTGGGAG GTCG	60.5	469	INTERGENIC	--	--	--
Ca2_P1_31929759	Ca2	31929759	CAAAAAAAAA/CAAAAAAAAA	ACGGTTTGCAGCATTT TTTT	AAAAATCCTTTGGGAG GTCG	60.5	469	INTERGENIC	--	--	--
Ca2_P1_31929843	Ca2	31929843	ACC/AC	ACGGTTTGCAGCATTT TTTT	AAAAATCCTTTGGGAG GTCG	60.5	469	INTERGENIC	--	--	--
Ca2_P1_31931439	Ca2	31931439	TGAGAGAGA/TGAGAGAGAGA	TCGTAACGCAAAATTT CCAA	TTTTTCACTTCTTCAT CTCTCG	59.2	611	INTERGENIC	--	--	--
Ca2_P1_31933069	Ca2	31933069	ATTTTTTTTT/ATTTTTTTTT	ACGGAGCCAAACAAGA AAAA	ACGAATTGGCATGGCT AAAG	59.7	706	INTERGENIC	--	--	--
Ca2_P1_31933554	Ca2	31933554	CAAAA/CAAAAA	CATGAATTGCACGACC ACTC	CCACTGTGGACCAATT GTAAA	60.1	249	INTERGENIC	--	--	--
Ca2_P1_31934723	Ca2	31934723	TAAAA/TAA	GCAACCGCTTAAGGAA TTTG	TGGTGAGTGTAAAGCCA CTTTTT	59.7	491	INTERGENIC	--	--	--
Ca2_P1_31934777	Ca2	31934777	T/TG	GCAACCGCTTAAGGAA TTTG	TGGTGAGTGTAAAGCCA CTTTTT	59.7	491	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_31939044	Ca2	31939044	ATTTTTTTT/ATTTTTTT	ATCACATTGCAAAGCA ACGA	TGTATTCACGGTTTGG GTTTT	60.3	586	DRR	Ca_17823	R	C3H
Ca2_P1_31943137	Ca2	31943137	CAAAAAAAAA/CAAAAAAAAA	GGCAGTTACTCCGTA ACCA	CATTGATGATGATGGC TTGC	60.0	802	INTRON	Ca_17823	R	C3H
Ca2_P1_31945989	Ca2	31945989	ATTTTTTTTT/ATTTTTTT	CACATGGAAGGCTAAA GGAA	CCACAAGTGTGGATGA CAGG	57.8	838	INTERGENIC	--	--	--
Ca2_P1_31946131	Ca2	31946131	TA/TAA	TGAACGTCATGTCCGG ATT	CCACAAGTGTGGATGA CAGG	59.9	351	INTERGENIC	--	--	--
Ca2_P1_31950824	Ca2	31950824	C/CGAA	CCAATTAATAAGTTAGC GGGTGA	TGTGTGAGGAGGACA ACAAAA	59.4	870	INTERGENIC	--	--	--
Ca2_P1_3195583	Ca2	3195583	CTTTTTTTTTTTTTTT/CTTTTTTTTT TTT	CGGGACATGTAAGGAT TGTTG	TTCTCCGATTGGTCC GTTA	60.2	773	INTERGENIC	--	--	--
Ca2_P1_31977188	Ca2	31977188	TTAGTAG/TTAG	CTCCTTTTCCCTGTCTT CCC	GTCCCATGTTAAATGC TCCG	60.0	826	INTRON	Ca_17820	--	--
Ca2_P1_31981432	Ca2	31981432	ATTTT/ATTT	CCCTCCGACTCAATA AACA	GTGTGCGGCTGGCTA TGTAT	59.9	408	INTERGENIC	--	--	--
Ca2_P1_31981661	Ca2	31981661	TA/TAAA	CCCTCCGACTCAATA AACA	GTGCAGATCGTAGTG TCCA	59.9	663	INTERGENIC	--	--	--
Ca2_P1_31983903	Ca2	31983903	CTA/CTATA	GACACTGTTCGCTAT GGGA	AGCCTTGCAGTGATGT GTGA	59.6	858	INTERGENIC	--	--	--
Ca2_P1_3199849	Ca2	3199849	TT/TTATTATTAGT	GAGCATGTGTTGGTGA ATGG	TCACCGGAGGTTAGAT CTCG	60.0	309	INTERGENIC	--	--	--
Ca2_P1_3200120	Ca2	3200120	CATATATATATA/CATATATATATATA	GAGCATGTGTTGGTGA ATGG	CCTCTGTTTTGGTTGA TACTCCTT	60.0	925	DRR	Ca_10527	K	HD-ZIP

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_3200285	Ca2	3200285	TCA/T	CGAGATCTAACCTCCG GTGA	TTGATGCATGCTGCTA CAAAT	60.2	811	DRR	Ca_10527	K	HD-ZIP
Ca2_P1_3200442	Ca2	3200442	CAT/CATAT	GGAGTTGAATTAGCCT CTTTATCC	TTGATGCATGCTGCTA CAAAT	58.8	503	DRR	Ca_10527	K	HD-ZIP
Ca2_P1_3200504	Ca2	3200504	AAAAAAGATA	CATTCCCGATTTTAGA TTATGC	AATTGAAGGAAACATT TGCCA	58.9	511	DRR	Ca_10527	K	HD-ZIP
Ca2_P1_3200565	Ca2	3200565	AT/ATT	AAGGAGTATCAACCAA AACAGAGG	AATTGAAGGAAACATT TGCCA	59.9	423	DRR	Ca_10527	K	HD-ZIP
Ca2_P1_3200632	Ca2	3200632	CAATT/CAATTAATT	AAGGAGTATCAACCAA AACAGAGG	AATTGAAGGAAACATT TGCCA	59.9	423	DRR	Ca_10527	K	HD-ZIP
Ca2_P1_3201024	Ca2	3201024	AATATA/AATATATATA	TTTGCCAAATGTTTCCT TCA	GAGTGGGGGTTGGAG GTAGT	59.1	405	DRR	Ca_10527	K	HD-ZIP
Ca2_P1_32013591	Ca2	32013591	TCCC/TCC	TCTCCCTCCAACACC AAAC	ATGATTGAACGAAGGC CAAG	59.9	480	INTERGENIC	--	--	--
Ca2_P1_32013861	Ca2	32013861	CATGATGATGATGATGATG/CATG ATGATGATGATG	TCCCCCTTTCCCTTTCT CTA	ATGATTGAACGAAGGC CAAG	60.0	419	CDS (large-effect mutations)	Ca_17819	V	GeBP
Ca2_P1_3203039	Ca2	3203039	AT/A	TGGATTTCTGACACTG CCAC	ATGCTCTTCCCTGTCT CCAA	59.7	348	INTRON	Ca_10527	K	HD-ZIP
Ca2_P1_32032083	Ca2	32032083	ATATTTTATTTTT/ATATTTTATTTTT ATTTTT	TGACAACGCATACGTG GATT	AAATAACACGAAATTC TAGCCCA	60.0	312	INTERGENIC	--	--	--
Ca2_P1_3204807	Ca2	3204807	CAAAGATAAAGATAAAGATAAAGATA/ CAAAGATAAAGATAAAGATA	TGGAAAGGAAGGGAA GGAGT	CACCATGAGAGTGAGA GCCA	60.0	281	INTERGENIC	--	--	--
Ca2_P1_3205162	Ca2	3205162	TTTT/TTTCTTT	TGGCTCTCACTCTCAT GGTG	TGCACATTTTGGTCGG TCTA	60.0	487	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_3205505	Ca2	3205505	TTTAATTAAT/TTTAAT	TTTAGACCGACCAAA TGTGC	GGCGGTTATGTCTCCA CAAT	60.0	364	INTERGENIC	--	--	--
Ca2_P1_3205849	Ca2	3205849	TC/T	ATTGTGGAGACATAAC CGCC	ACATCGAGACGTACG GGAAA	59.8	284	INTERGENIC	--	--	--
Ca2_P1_32079086	Ca2	32079086	AATATATATATATATATATATATAT/ AATATATATATATATATATATATATA TATATAT	CCGGCTCTCATCTCAA AAAG	CAAGGGTGAATCACTC ACATC	59.9	411	INTERGENIC	--	--	--
Ca2_P1_32079368	Ca2	32079368	CAA/CAACAATAATAATAATAA	AGATGTGAGTGATTCA CCCTTG	AACCATGCTGGCTTCT TTTC	59.1	494	INTERGENIC	--	--	--
Ca2_P1_32083677	Ca2	32083677	TAAAAAAAAA/TAAAAAAAAA	CCATTATTTATGGG GCTT	GGGCCTGTAGACCCA CTTTT	60.9	331	INTERGENIC	--	--	--
Ca2_P1_32084077	Ca2	32084077	TTTAATTAATTA/TTTAATTA	GTGGGTCTACAGGCC ATTA	TGAATCAATGACCCC AACA	59.8	309	INTERGENIC	--	--	--
Ca2_P1_32084348	Ca2	32084348	ATTT/ATT	GTGGGTCTACAGGCC ATTA	AAGCAAAGTGGGATCC TGAA	59.8	556	INTERGENIC	--	--	--
Ca2_P1_32088009	Ca2	32088009	TTAATAATAATAATAATAATAATA/ TTAATAATAATAATAATAATAATAA TA	TCAGCAAGCAAGCATT ATGG	ATGGGGAACGTTGACA GAAG	60.0	605	INTERGENIC	--	--	--
Ca2_P1_32102006	Ca2	32102006	A/AC	TTGCGTTTTATGGAGG AACTTT	GCGCACTAGGCTATG GTCTC	60.0	458	INTERGENIC	--	--	--
Ca2_P1_32120308	Ca2	32120308	CTT/C	TGTCCACCACCAGAAT CAAA	CAATGGTGTGCACGAT GAAT	59.9	843	INTRON	Ca_17813	--	ERF
Ca2_P1_32127033	Ca2	32127033	TGC/TGCGC	TGCAAGTTGTGATGGG TTGT	TGCTGTTCTGCACGG AGTC	60.0	650	INTRON	Ca_17812	O	--
Ca2_P1_32146442	Ca2	32146442	AT/ATT	ATTCCACGCCACTTA GATG	CACTGTCACAGAGATA AGATGCAA	60.0	807	INTRON	Ca_17808	--	G2-like

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_32152511	Ca2	32152511	TTAATAATAATAATAA/TTAATAAT AATAATAA	ACAAAAACAATCGGTA GCGG	GTGTTATGGGTTTT CCCC	60.0	736	INTERGENIC	--	--	--
Ca2_P1_32161753	Ca2	32161753	TCCCC/TCCC	AGGCCATTAAGCATGA CACC	TTCTTGGAACCTGCA TACC	60.0	867	INTERGENIC	--	--	--
Ca2_P1_32163428	Ca2	32163428	CATA/CATATATATATA	TCAAAGAGACATGATT TTGTCCA	GGTCAATCAGCTGTGA GCAA	59.6	415	INTERGENIC	--	--	--
Ca2_P1_32167519	Ca2	32167519	TGG/TG	AGAAATGGGAGCTTGT TCCA	GAGGATGGGTGAAA AGCAA	59.7	588	INTERGENIC	--	--	--
Ca2_P1_32170366	Ca2	32170366	TTCAAATCAA/TTCAA	GGGGATCATGTGAAT TTGG	GTCTCTGCTCTTTGC CAAC	60.0	337	INTRON	Ca_17806	--	WRKY
Ca2_P1_32173774	Ca2	32173774	TC/T	ATGTTTTGATTGGGGC TTTG	TAAATCAGCCCTTTTG GTGG	59.8	631	DRR	Ca_17806	--	WRKY
Ca2_P1_32209131	Ca2	32209131	T/TG	GCAAAGATAGACACCA CCCC	AACCATCCCCATGGAA CAAA	59.4	577	INTERGENIC	--	--	--
Ca2_P1_32209334	Ca2	32209334	CTATATATA/CTATA	TCCATGGGAATGGTTT TGAT	TTGAAGAGGAAGTTT GGCA	60.0	342	INTERGENIC	--	--	--
Ca2_P1_32209671	Ca2	32209671	TC/TCC	TCCATGGGAATGGTTT TGAT	TTTTAGTGTGCACCAA TGTCAA	60.0	899	INTERGENIC	--	--	--
Ca2_P1_32210099	Ca2	32210099	CA/CAAATA	TCAGCTTCAATTATCTC CAACAA	TCGGCGACAAAATCA CATA	58.9	644	INTERGENIC	--	--	--
Ca2_P1_32210241	Ca2	32210241	TA/T	TGACATTGGTGACAC TAAAAA	CCACGTCTCTTCCTT TGGT	59.1	505	INTERGENIC	--	--	--
Ca2_P1_32211817	Ca2	32211817	ATATTATTATTATTATTATTAT TATTATTATTATTAT/ATATTATTAT TATTATTATTATTATTATTATTAT	ATGGAATTCTGAATGG TGGG	CATGTGGATCGAAATG AITTTT	59.6	365	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/P1)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_32211970	Ca2	32211970	A/AG	ATGGAATTCTGAATGG TGGG	AAAACCAAAAATGGG GTCA	59.6	763	INTERGENIC	--	--	--
Ca2_P1_32213171	Ca2	32213171	GTGAT/GTGATGAT	CAACATGACAAGGACT TTCCAA	TTACCGGTATCGCAAG GAAC	60.0	529	INTERGENIC	--	--	--
Ca2_P1_32213265	Ca2	32213265	AT/ATGGT	GAAGAGGCCAATTAAG CTTTCA	CTCGTGCCGTTATCTA TCCC	59.9	299	INTERGENIC	--	--	--
Ca2_P1_32213424	Ca2	32213424	CAAA/CAAAA	AGGGATAGATAACGGC ACGA	AAGGCCCTGCTAGAAT GATG	59.6	504	INTERGENIC	--	--	--
Ca2_P1_32214370	Ca2	32214370	GTTTTTTTTTT/GTTTTTTTTTTTTT	GGGTGGGATAGGGGA CTAGA	GCAAATGTTTACATG CTCG	60.1	656	INTERGENIC	--	--	--
Ca2_P1_32233566	Ca2	32233566	TAAAAAAAA/TAAAAAAAAA	AAAGATGGCAAGGCCA GATG	ACGAATACGGATCGCA TGAT	60.2	953	INTERGENIC	--	--	--
Ca2_P1_32240521	Ca2	32240521	TGC/TGCGC	GGCGTCTTAAGCAAG TGTC	CTGAGGGTGACGTCT CACAA	59.9	525	DRR	Ca_10293	--	--
Ca2_P1_32243132	Ca2	32243132	TCAA/TCAACAA	TCTGAGGGGATTCGTT ATGC	TCCATAACTCTTGCCA ACCC	60.0	524	CDS (large-effect mutations)	Ca_10292	--	bHLH
Ca2_P1_32250351	Ca2	32250351	GTCT/GT	AAGGCGCGCAGAATTT AATA	TTGCATCCCAACAAG ACAA	59.8	581	DRR	Ca_10291	E	C3H
Ca2_P1_32259695	Ca2	32259695	TCAC/TCACAC	AAATGCAACTCCTTCC TCCA	TCAGCTTAAGGCTCTT GCTGT	59.7	833	INTRON	Ca_10289	K	TALE
Ca2_P1_32263139	Ca2	32263139	A/AAAAATGG	GAAAACAAAATGTAC CGGC	ATTGCCAACACACAC CAAA	60.4	282	INTERGENIC	--	--	--
Ca2_P1_3226421	Ca2	3226421	TATGATGATGATGATGATGA/TATGAT GATGATGATGATGATGATGATGA	GCCAAAGGTTTTTGT GGAA	GGGCACCTTATTAGCC CATT	60.0	282	CDS (large-effect mutations)	Ca_10526	O	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_32264515	Ca2	32264515	TAAA/TAAAA	CACGAATCATTGACCA TTTGA	TCCCGTTTTTCAAACA CACA	59.4	772	INTERGENIC	--	--	--
Ca2_P1_32282292	Ca2	32282292	CATTAGTGATT/CATTAGTGATTAGT ATT	ACCTCCAGGGTGCTA AGAT	GCCACATTTTCTGGT TGCT	60.0	726	INTRON	Ca_10287	S	--
Ca2_P1_32293632	Ca2	32293632	AAGAAATTCAGAAATTC/AAGAAAT CAGAAATTCAGAAATTC	AAACCTACGAAGTTT GGCA	TTGTACCCGTCCAAA TACA	59.6	237	INTERGENIC	--	--	--
Ca2_P1_32332565	Ca2	32332565	AAAAATAAATAAATA/AAAAATAAT AAATAAATAAATA	CGCCAAAGTCATTGAT TGAA	CATCTTGTGAGCCATA GCCA	59.7	338	INTERGENIC	--	--	--
Ca2_P1_32340350	Ca2	32340350	TGG/TG	TCCATTCAATGCTTTCA AATTC	TTGTGGTCATTTAAGG TGGTTG	59.1	530	INTERGENIC	--	--	--
Ca2_P1_32340944	Ca2	32340944	GTTTTTTT/GTTTTTTT	CAACCACCTTAATGA CCACAA	AAAAACAATGTCATGC AGAGG	59.8	682	INTERGENIC	--	--	--
Ca2_P1_32341023	Ca2	32341023	GAAT/GAATGTAAAAAT	CAACCACCTTAATGA CCACAA	AAAAACAATGTCATGC AGAGG	59.8	682	INTERGENIC	--	--	--
Ca2_P1_32346783	Ca2	32346783	CAAAAAACA/CAAAAAACATAAAAAAC A	TCCACACCAGAAGCAT TCAA	GTTCTGGAGGGAACA GCTTG	60.2	628	INTERGENIC	--	--	--
Ca2_P1_32348784	Ca2	32348784	TTTATT/TTT	TATCTCGCTCGGTGGA GTCT	ATGCAATCCTTTTGCT GCTT	60.0	216	INTRON	Ca_10283	--	--
Ca2_P1_32349770	Ca2	32349770	TTTTTTTT/TTTTTTTTTATTTTTT	AAGTTGGAGGCTCAAA AGCA	AAATTGCAAATGCAC ACCA	60.0	661	INTRON	Ca_10283	--	--
Ca2_P1_32353326	Ca2	32353326	G/GA	GAACGACAACAATTC GCCT	CAATGGATTCTTTGG CCTT	60.1	513	DRR	Ca_10283	--	--
Ca2_P1_32353407	Ca2	32353407	TGAAC/T	GAACGACAACAATTC GCCT	CAATGGATTCTTTGG CCTT	60.1	513	DRR	Ca_10283	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_32355990	Ca2	32355990	ATTTTTTT/ATTTTT	ACCAAAAGCTCCATGA CCAC	TGCCATTACAGCAAC TAGC	60.0	180	INTERGENIC	--	--	--
Ca2_P1_32357617	Ca2	32357617	CTTT/CTTTT	TCCCAACTCTTCGAAA TCGT	TTGGATGATAGACATT GAAATTTTG	59.7	367	INTERGENIC	--	--	--
Ca2_P1_32358261	Ca2	32358261	CAAAAA/CAAAAA	TCAAAATTTCAATGTCT ATCATCCA	GCGAGGATGAGAAGT TGTTGT	59.7	658	INTERGENIC	--	--	--
Ca2_P1_32359679	Ca2	32359679	GACACA/GACACACA	TTGATGAGTTCGGTCA TGGA	AGCCGCTTAATTGATC GTTG	60.0	195	INTERGENIC	--	--	--
Ca2_P1_32359951	Ca2	32359951	TAAAAAA/TAAAAA	TTGATGAGTTCGGTCA TGGA	TGGATTCAATCCAA GTCC	60.0	410	INTERGENIC	--	--	--
Ca2_P1_32361822	Ca2	32361822	ATTT/ATT	ACGTTGTATTCGCAAG AGGG	TCACCTTTTCATCAAT GCTCA	60.1	263	INTERGENIC	--	--	--
Ca2_P1_32362034	Ca2	32362034	ATTT/ATTTTT	ACGTTGTATTCGCAAG AGGG	TTGGATGTTGTCATTG TTCAGA	60.1	737	INTERGENIC	--	--	--
Ca2_P1_32362657	Ca2	32362657	TAAAAAA/TAAAAA	GCAAAAGCACAACCAA ATCA	AATGACCACAATTTGC ATTGA	59.7	260	INTERGENIC	--	--	--
Ca2_P1_32363795	Ca2	32363795	TA/T	TGTGTCAACGAAGAAG GTTGA	TGCACCAATAATGCAA TGAAG	59.3	652	INTERGENIC	--	--	--
Ca2_P1_32365887	Ca2	32365887	ATTTTT/ATTTTTT	TCGTGACTTTGTCCAT CATTTC	TCACGACTTTTGAAT TTTGTT	60.0	380	INTERGENIC	--	--	--
Ca2_P1_32369826	Ca2	32369826	CT/CTCGT	TGGTTTCAAGGCTTC CACA	GAAAAGTTAAATCCA AAATAACATT	59.1	794	INTERGENIC	--	--	--
Ca2_P1_32379585	Ca2	32379585	AATTAATTT/AATTAATTTGATTAAT TTT	TGTGCGAGTTATTGC GGTA	CATTTGGTTCAAATG TCATGG	60.3	624	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_32380306	Ca2	32380306	GTTTGAATTTAATTA/GTTTGAATTTAA TTATTTGAATTTAATTA	AACTAACTTTTCGCAG CCCA	GGCAACTTGGCCAACA CTAT	59.9	587	INTERGENIC	--	--	--
Ca2_P1_32388015	Ca2	32388015	TATAAT/TATAATAAT	CTTGGAGGCCACCATA CCTA	TGACGAATGCTCTCAT TTGC	59.9	663	INTRON	Ca_10280	--	--
Ca2_P1_32393042	Ca2	32393042	ATTTTTTTT/ATTTTTTTTT	TGCCCATCCTTATGCT CTTC	ATCACGTGCAACCACA AGTC	60.2	626	INTERGENIC	--	--	--
Ca2_P1_32393117	Ca2	32393117	T/TC	TGCCCATCCTTATGCT CTTC	ATCACGTGCAACCACA AGTC	60.2	626	INTERGENIC	--	--	--
Ca2_P1_32393187	Ca2	32393187	AATAT/A	TGCCCATCCTTATGCT CTTC	ATCACGTGCAACCACA AGTC	60.2	626	INTERGENIC	--	--	--
Ca2_P1_32393441	Ca2	32393441	TGG/TGTGGG	TGCACTTTTTCGTGT AGGA	GGGCTTGTGACGCA TTAT	59.5	588	INTERGENIC	--	--	--
Ca2_P1_32393633	Ca2	32393633	TAACATAATAA/TA	GACTTGTGGTTGCAGC TGAT	GGGCTTGTGACGCA TTAT	59.6	445	INTERGENIC	--	--	--
Ca2_P1_32394714	Ca2	32394714	TAAAAAAAAA/TAAAAAAAAAAAAA	GAGGGTAATATGGCCA AACG	TGCATTGTGAAACCT GCAT	59.3	614	INTERGENIC	--	--	--
Ca2_P1_32395005	Ca2	32395005	ATTTTTT/ATTTTTTTTT	AATGCAGGTTTTCACA ATGC	GTGGGGTTTGTGGTC CATAG	58.6	418	INTERGENIC	--	--	--
Ca2_P1_32396308	Ca2	32396308	TTTTTT/TTTTTATTTTT	CCCCAACCCATATTCT TCCT	TTTTTGGTGGCAAAT CCAT	60.0	740	INTERGENIC	--	--	--
Ca2_P1_32398798	Ca2	32398798	CTTTT/CTTTTT	TGCGAGAGATCAAGAT CCAA	TGCCCCAAATTATTGT TGAA	59.5	779	INTERGENIC	--	--	--
Ca2_P1_32399194	Ca2	32399194	T/TATTAATGTCTAA	TCTTGCACGGGTGAGA ACTA	CCTATTGAAGAGTGC CCCA	59.4	587	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_32399302	Ca2	32399302	ATTTTTTTTT/ATTTTTTTTT	AATTGGGGCACTCT CAAA	GCCTCTTCAAAAGTCG GTCA	59.5	219	INTERGENIC	--	--	--
Ca2_P1_32400013	Ca2	32400013	CACTGAGATAGAGAC/CAC	TTCCACTCCTCCACCA AATC	GACGCCAAAAGGAG ACATA	59.9	278	INTERGENIC	--	--	--
Ca2_P1_32402263	Ca2	32402263	A/AG	GGCCGCGATCATTAA TCTA	TTCGTTCTTGTTGC CTCT	60.0	789	INTERGENIC	--	--	--
Ca2_P1_32403254	Ca2	32403254	GGAT/GGATCGAT	ATCACATGGTGAGCAA TGGA	ATGTAAAGATCGTGG CGGC	59.9	355	INTERGENIC	--	--	--
Ca2_P1_32406448	Ca2	32406448	TTTG/T	GGTGAAAAGGGAGG AGAAG	GTCAGCTTGAAAGG GTCTG	60.0	832	INTERGENIC	--	--	--
Ca2_P1_32409946	Ca2	32409946	ATTTTT/ATTTT	TGGAGAGTTGAGAAGC CAGG	TACTCGAGGCCTCTCG CTAC	60.5	850	INTRON	Ca_10279	--	bHLH
Ca2_P1_32415535	Ca2	32415535	T/TCC	GGGATTGTGTTCA CAGG	ATCGATATACCAACGG CTGC	60.2	398	INTRON	Ca_10278	--	bHLH
Ca2_P1_32416839	Ca2	32416839	CAG/CAGTCATATTTAAG	GGACAAACATAGGTGC GGTT	TTCAAGGCCTCTTGCT GAAT	59.9	566	INTRON	Ca_10278	--	bHLH
Ca2_P1_32417284	Ca2	32417284	ATTTTTTT/ATTTTTTTTT	AAATTTGCGTGGAAG GTTG	CTCTGGTGGCATGTAT CCAA	60.0	207	INTRON	Ca_10278	--	bHLH
Ca2_P1_32417636	Ca2	32417636	TTT/TTTTGTT	AAATTTGCGTGGAAG GTTG	GCCTAGGATCCACGA GTTTG	60.0	788	INTRON	Ca_10278	--	bHLH
Ca2_P1_32418128	Ca2	32418128	A/AT	GTCCTCGCAAACCTCG GGAT	CTCTCCCAAGTTGAGC CATC	60.3	622	INTRON	Ca_10278	--	bHLH
Ca2_P1_32422496	Ca2	32422496	TT/TTGAT	AGCGAAAATTGTAGTT GCGG	GCATCACAACACTCCA CACC	60.3	649	DRR	Ca_10277	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_32423881	Ca2	32423881	CAAAA/CAAAAA	TGAGGCATGATAATTG AGCG	TGTTGTCATCAATCAC GCAG	59.8	536	DRR	Ca_10277	--	--
Ca2_P1_32427550	Ca2	32427550	TATG/TATGATGCTGATG	CCACATGAGTGTGTTG AGGG	TCTCATCTTCAGGACC ACCC	60.0	232	DRR	Ca_10276	--	SAP
Ca2_P1_3245422	Ca2	3245422	GATATATATATATATATATATA/GAT ATATATATATATATATA	TTTCAACGGAACCAC AACA	CATGTCAGGCAGTTAC CCCT	60.0	541	INTERGENIC	--	--	--
Ca2_P1_32476919	Ca2	32476919	ATGT/AT	CATGGATGGTGCTTCA AATG	CAACTGCAATGTTCCA TATTCG	59.9	885	DRR	Ca_10273	R	C3H
Ca2_P1_32477611	Ca2	32477611	TAAAAA/TAAAAA	TTCGAATATGGAACAT TGCAG	GGCTAGGGGAGAATT CCTTG	58.6	473	DRR	Ca_10273	R	C3H
Ca2_P1_32478862	Ca2	32478862	TAAAAA/TAAAAA	AAATTGGTAATCGGAC GCTG	TGTCCACATGGGAAGT TTGA	60.0	471	INTERGENIC	--	--	--
Ca2_P1_32479419	Ca2	32479419	TAAAAA/TAAAAA	AATTACAATGCGAAGC TGGC	TCCTATACCACATTTAA AGCAAAA	60.2	803	INTERGENIC	--	--	--
Ca2_P1_32479799	Ca2	32479799	CTATATA/CTATA	CCATATTTATACTCATA GCCACA	TGCTAACATCACTAAG ACATAAGACAA	57.3	749	INTERGENIC	--	--	--
Ca2_P1_32480635	Ca2	32480635	GAAAAA/GAAAAA	TCCACATGCTTCCAAT CAAA	ACCACTCCAACCAAGTC GTTT	60.0	584	INTERGENIC	--	--	--
Ca2_P1_32480670	Ca2	32480670	T/TA	TCCACATGCTTCCAAT CAAA	ACCACTCCAACCAAGTC GTTT	60.0	584	INTERGENIC	--	--	--
Ca2_P1_32480992	Ca2	32480992	GTTT/GTT	CATGCTTCCAATCAAA CACG	CAACGCTCAAGTAGG GGTA	60.1	740	INTERGENIC	--	--	--
Ca2_P1_32481790	Ca2	32481790	ATATAT/A	GGGTGGAATGCAGAA GAAA	AAGCTTTCGGTGATTG CTGT	60.1	535	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_32540405	Ca2	32540405	CATAATAATAATAAT/CATAATAAT AAT	CGACATAACTTCCAC CCCT	AGCGCTGTTGTATTCT CCGT	61.1	482	INTERGENIC	--	--	--
Ca2_P1_32615052	Ca2	32615052	AATATATATATATATATATATATA/A ATATATATATATATATATATATA	GCCGCCTCAATCTAGT GTTT	TCTCCAAGAATTTTCG CCAC	59.3	602	INTERGENIC	--	--	--
Ca2_P1_32637444	Ca2	32637444	CTTATTTTATTTTATTT/CTTATTTTATT T	TGGACAAAATCCTATT TGGAGA	TAGGGGATTTCGGGT GAAAT	59.8	395	INTERGENIC	--	--	--
Ca2_P1_32641659	Ca2	32641659	TGGG/TGG	GAAGGAAAGCGCAGAA GAGA	TCGACATCAGTTGGTG CTTC	59.8	849	DRR	Ca_10258	--	--
Ca2_P1_32642955	Ca2	32642955	ATTTTTTTTT/ATTTTTTTTT	CAAAGTTGAGGAAAGG CCAG	GGAATCACCCATCCAC ATTC	59.8	869	DRR	Ca_10258	--	--
Ca2_P1_32644144	Ca2	32644144	ATTTTTTTTT/ATTTTTTTTT	TAGGGCTGGCCCAAT AAGT	GAAGCCTGATAGCATT GTTTCTC	60.8	577	DRR	Ca_10257	O	--
Ca2_P1_32644321	Ca2	32644321	ATTTTT/ATTTTT	AGGGCTGGCCCAATA AGTA	CGCAGCAACGACAAAT AAAA	60.8	932	DRR	Ca_10257	O	--
Ca2_P1_32648770	Ca2	32648770	GC/G	TGCCAAAACACAAAGT CACC	ATGGGTCAAGATTCGT CCAC	59.6	728	INTERGENIC	--	--	--
Ca2_P1_32666924	Ca2	32666924	ACCAATGATCTCATC/AC	CCCCATCACTCTTGGA TCAT	AAGTACCCACAGCTC CCTT	59.7	548	INTERGENIC	--	--	--
Ca2_P1_32713700	Ca2	32713700	TTTTTTTT/TTTTTTTTTT	AACGCATCGGTAAACA CTCC	GAGGTACTACAGCTTG CCCC	60.0	234	INTERGENIC	--	--	--
Ca2_P1_32713895	Ca2	32713895	CAAAAAA/CAAAACAAAAA	AACGCATCGGTAAACA CTCC	TGTTTTGCAGCAAGAT GTCC	60.0	695	INTERGENIC	--	--	--
Ca2_P1_32745343	Ca2	32745343	TTCTCTCTCTCTCTCTCT/TTCTCT CTCTCTCTCTCT	AGCAGGCCAGCAACAG TATT	TTAGAAATGGTGACGG AGCC	59.9	522	INTRON	Ca_10250	O	ERF

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected 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_P1_32757563	Ca2	32757563	TTATATATATATATATATATATATAT/ TTATATATATATATATATATATATAT ATAT	CATGAAGCACACTCCG AAAA	TTTTGGTTGGATATGT GGGTT	59.8	594	INTERGENIC	--	--	--
Ca2_P1_32812104	Ca2	32812104	TTTATTATTATTATTATTAT/TTTAT TATTATTATTATTATTATTATTAT	CAAAAGTCCAAGGCCA GAAA	CATGTCCATAAATGGT TGCG	60.2	375	INTERGENIC	--	--	--
Ca2_P1_32817821	Ca2	32817821	GAGAGAG/GAGAGAGATAGAGAG	CGGGAATGGAGTTAGT GGTG	GGCAATCTGATCCCT CAAA	60.4	593	INTERGENIC	--	--	--
Ca2_P1_3282888	Ca2	3282888	TAA/TAAA	TGTAGCTTTTGGCATG TGGA	TGGGTGAAGGTATTTA ATGTCAA	60.3	593	INTERGENIC	--	--	--
Ca2_P1_32843861	Ca2	32843861	TATAATAATAATAATAATAATAATA ATAATAATAA/TATAATAATAATAATA TAATAATAATAATAATAATAATA	AAAAATGCATTCGGTA ATTGG	GGGGTCTGTTAAAACG TGGA	58.9	769	DRR	Ca_10238	--	--
Ca2_P1_32938114	Ca2	32938114	AATATATATATATATATATAT/AATA TATATATATATATATATAT	ATTTGATGTGGGTGTG CGTA	ATTAAGGGCAACCCC AAAT	59.8	303	INTERGENIC	--	--	--
Ca2_P1_32985262	Ca2	32985262	GTTTT/GTTTTT	GCGCACGTAAGCAACT AACA	GAAATGGTCCCATGA AGGA	60.1	758	INTRON	Ca_10226	R	--
Ca2_P1_33036944	Ca2	33036944	GAAAAAAAA/GAAAAAAAAA	AATTGCAAGCAAGGAA CTGC	CGAACCTAGATATGC ACCAA	60.4	333	INTERGENIC	--	--	--
Ca2_P1_33055348	Ca2	33055348	AATATATATATATATATATATATA TATATATATA/AATATATATATATAT ATATATATATATATATATATATA	TTTCAATACAAAGCCAA AAATCAA	ATCTGTTTGAGAGGTT CGGC	59.9	579	INTERGENIC	--	--	--
Ca2_P1_33058448	Ca2	33058448	CATATTAGTATTAGTA/CATATTAGT A	CCTTACCATGACCCCA AATG	TGCCTGGGTTTCTTTA ATGG	60.0	630	DRR	Ca_10218	R	B3
Ca2_P1_33107336	Ca2	33107336	TTATATATATATATATATATATAT/TT ATATATATATATATATATATATAT	TTTCAGACAAAGGTGC GTTG	TGGGTGTAATTCGAAG GCTC	59.9	684	INTERGENIC	--	--	--
Ca2_P1_33123353	Ca2	33123353	AATATATATATATATATATATATATA TATATATATAT/AATATATATATATAT ATATATATATATATATATATATAT	GCAACCGTTGTCCAGA TTTT	TGGGTTTCCTTCGTAA CAGG	60.0	931	INTRON	Ca_10209	--	S1Fa-like

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_33152090	Ca2	33152090	TAAAAAAAA/TAAAAAAAAA	AAAGACCAAGTCGGCA AAAA	TCGTTGAGGAAAAACA AACAAA	59.7	638	INTERGENIC	--	--	--
Ca2_P1_3321638	Ca2	3321638	CTTTTTTTT/CTTTTTTTTTTTT	AGGTACTTGTGAGGTC CGCA	ACCACAACGGACAAAA GAGG	60.7	689	INTRON	Ca_10520	O	--
Ca2_P1_33233654	Ca2	33233654	TTATTATCAAAAATATT/TTATT	CGAACATTGTTTGGC CACT	GTTGAATCCGGGTTT GATT	60.9	388	INTERGENIC	--	--	--
Ca2_P1_33257195	Ca2	33257195	ATTTTTTTT/ATTTTTTTTTT	ATCGCATTTTGCCTT GTTT	GCTGTCGTTTGCAGCA TAAA	59.6	801	INTERGENIC	--	--	--
Ca2_P1_33289844	Ca2	33289844	T/TGAACCTTCTCTAC	CGGTCGATTAGGCAAG ATGT	TGCCGCAATTCAAATA ACAA	60.1	417	DRR	Ca_10198	A	--
Ca2_P1_3329816	Ca2	3329816	AATATATATATATATATATATATA TATA/AATATATATATATATATATA	CTTGCCGTGACCACT CTAT	TTGCTCCAAATTTGTG TAATGC	60.1	565	INTERGENIC	--	--	--
Ca2_P1_33306373	Ca2	33306373	TTATATATATATATATA/TTATATATA TATATA	GAATCCGTTTCCGAGT TTGA	TCAATGGAATCAAG TTGAAGG	60.1	644	INTERGENIC	--	--	--
Ca2_P1_33345639	Ca2	33345639	GTT/GT	CTCCATTTTGGGCAGG TTTA	GGATGATCTGTTTTTC GCGT	59.9	573	INTRON	Ca_10191	T	FAR1
Ca2_P1_33346809	Ca2	33346809	C/CA	ATGCACATGAACCGAT TGAA	AAACAAGTTGAATCA CGCC	59.9	718	INTRON	Ca_10191	T	FAR1
Ca2_P1_33398441	Ca2	33398441	TACACAC/TACAC	AGAGCCTACAGCAAGC CAAA	AAATGCAGGGTCACAA CACA	60.2	205	DRR	Ca_10186	T	M-type
Ca2_P1_33405227	Ca2	33405227	AATATATATATA/AATATATATA	AAAGAGACATGACTTT GTCCATCA	TTTCGCTACCCATCAT ACCC	60.0	586	INTERGENIC	--	--	--
Ca2_P1_33523362	Ca2	33523362	GTTTTTTTTT/GTTTTTTTTT	TCAGCTGGAGTGGATG AGTG	TGCAAGCATTGGTTGA AATG	60.0	447	DRR	Ca_10181	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_33579121	Ca2	33579121	GAA/GAAA	ATCCAAATTCATTGCG CTTG	TAACTTTGGCTGGCA TGTC	59.9	608	INTERGENIC	--	--	--
Ca2_P1_33614018	Ca2	33614018	ATTTTTTTTT/ATTTTTTTTTT	TGCACTGACACACAAA AGCA	AATCAGATTGCATGGA AGGG	60.1	698	INTERGENIC	--	--	--
Ca2_P1_33615244	Ca2	33615244	ATATTTATTTATTTATTTATTTAT TTATTTAT/ATATTTATTTATTTATTA TTTATTTATTTATTTATTTAT	CCATTTTGTTTAATTG GCTGC	TTGAGATCACATACCC CGCT	60.7	552	INTERGENIC	--	--	--
Ca2_P1_33639211	Ca2	33639211	GAA/GAAA	TGGCAAACATGTTGTC CTAA	AGAGAGCAAACATTC CGTCG	59.1	230	INTERGENIC	--	--	--
Ca2_P1_33639777	Ca2	33639777	TAAAAAAA/TAAAAAAA	CGACGGAATAGTTGTC TCTCT	CGGAAAACCGTAGCTT AATACG	58.6	892	INTERGENIC	--	--	--
Ca2_P1_33666707	Ca2	33666707	GTTTTTTTTT/GTTTTTTTTT	GCACAATGCCAGGAA CTAT	AATTCTCGTGGAGGA TCTG	60.0	617	INTERGENIC	--	--	--
Ca2_P1_33715359	Ca2	33715359	ANNNNNNNNN/ANNNNNNNN	CAAAAGGCGTGCATGA ATTA	CTTGCCATTATTTTCCT GCG	59.7	271	DRR	Ca_10165	K	G2-like
Ca2_P1_33809112	Ca2	33809112	GATATACATATACATATACATACAT ATACATAT/GATATACATATACATAC ATATACATAT	TTAATCAAATGCACCG ACCA	GCGATCGTGAGTGAG TTCAA	59.9	462	DRR	Ca_10155	--	--
Ca2_P1_33922831	Ca2	33922831	GAAAAAAAAA/GAAAAAAAAA	CACACGTGCCTCTCCC TATT	TCCTTCAAATCCAGAA GTTTCA	60.1	173	INTERGENIC	--	--	--
Ca2_P1_33939646	Ca2	33939646	CTTTTTTTTT/CTTTTTTTTTT	GAGTTTGACGATGGGC CTAA	CCCCTAAAATCTCAAT TGGAAG	60.1	552	INTERGENIC	--	--	--
Ca2_P1_33947237	Ca2	33947237	TTATATATATATATATATATATA/TTA TATATATATATATATATATATA	TCCTTCGCCAATATTT GTTTT	TTTGAGTCGGAGTTGT CGGT	59.9	426	INTERGENIC	--	--	--
Ca2_P1_33955298	Ca2	33955298	AAAAATAAATAAATAAATAAATAA A/AAAAATAAATAAATAAATAA	AATTTGACTATTCTCT AATGATGG	TCGTTTTGGTGTTGGT TTCA	57.1	520	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_33959397	Ca2	33959397	ATATTTATTTATTT/ATATTTATTT	GGCTAATTTTCGTTATA TGGATGC	ACTAGTGATGGCCGAA ATGG	60.1	764	INTERGENIC	--	--	--
Ca2_P1_33984310	Ca2	33984310	CTATATATATATATATATATATATA/ CCATATATATATATATATATATATAT ATA	TGGCTATGATCACAA TGGC	CCCTTTCGAAGAGACT CCAA	59.5	869	INTERGENIC	--	--	--
Ca2_P1_33986085	Ca2	33986085	TAC/TTTTTCCCAAAATTGAC	CGAGACAAGTTTTC AGCA	ACTCCAAGATCATCAT CGGC	59.0	818	INTERGENIC	--	--	--
Ca2_P1_3400163	Ca2	3400163	TTATATATATATATATAT/TTATATATAT ATATATATAT	TCATCCACCATGAAAG CAAA	TGTCTCGTCTCAATCA CTTTCAG	60.0	490	INTERGENIC	--	--	--
Ca2_P1_34028835	Ca2	34028835	AC/A	AAAGGGGTTTTGGCTA TGCT	CATGATCATAATTGCA TGGAAAA	60.0	229	INTERGENIC	--	--	--
Ca2_P1_3406322	Ca2	3406322	TAAAAAAAAA/TAAAAAAAAA	CCAACAGAATTCACAC CCAA	TTTTCTTCTTCTCCC GTCA	59.4	578	INTERGENIC	--	--	--
Ca2_P1_34089719	Ca2	34089719	CAAAAAAAAA/CAAAAAAAAA	CATGAAATGGTGAGGC AAGTT	TGGGATGTAGTTGGTC TCCTTT	60.0	643	INTERGENIC	--	--	--
Ca2_P1_3415074	Ca2	3415074	TTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTAT/TT ATTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTATT	TGCTCAATTCTGGCAG ATCA	AGTTTCATCACGGCAA AACC	60.5	447	INTERGENIC	--	--	--
Ca2_P1_34213186	Ca2	34213186	T/TAAG	GACACCATTATCGAAG GCGT	AGTATCGGACACCAAA AGCG	60.0	249	INTERGENIC	--	--	--
Ca2_P1_34353539	Ca2	34353539	CATATATATATATATATATATATATA TAT/CATATATATATATATATATATA TATAT	CATGAGCTTGAGTCGC AAAA	TAGGAGGCATATGTGA GGGG	60.1	760	INTERGENIC	--	--	--
Ca2_P1_34353805	Ca2	34353805	GTTTTTTTT/GTTTTTTTTT	AGTTGAAGGAGTGCAT GAGGA	TAGGAGGCATATGTGA GGGG	59.9	633	INTERGENIC	--	--	--
Ca2_P1_34355206	Ca2	34355206	CTTGGGCT/CTTGGGCTTTGTTGGGC T	TCTTGATGCAATGCC AGAG	ATCATTGAGGTGCCA TCAT	59.9	975	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_34355457	Ca2	34355457	TAAAAA/TAAAAA	ATTCTTGGGCTGTGT TTGG	GGGTGATGAGGACTG GTTGT	60.0	725	INTERGENIC	--	--	--
Ca2_P1_34392003	Ca2	34392003	CTATATATATATATATATAT/CTA TATATATATATATATATATAT	TTTGGTGGATGTGAAT CAAAA	CACGCACATACCATT CAACA	58.9	576	INTERGENIC	--	--	--
Ca2_P1_3448246	Ca2	3448246	CAAAAAAAAA/CAAAAAAAAA	TTGTGAATCTAAACCA AACAAACA	AAATCGCACAAATTTT GTGTTAAA	59.8	308	INTERGENIC	--	--	--
Ca2_P1_34515091	Ca2	34515091	TTTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTAT TA/TTTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTATT ATTATTATTATTATTATTA	TGCCAATGTAATGATT CAGGA	AGCGTAAGTTTCGAGG ACCA	59.0	766	INTERGENIC	--	--	--
Ca2_P1_34562775	Ca2	34562775	TCTTTA/TCTTTACTTTA	ATAGCGTGCAACGATC CTCT	CATAGCGCCCAATAAA GGAA	59.9	515	INTERGENIC	--	--	--
Ca2_P1_34576817	Ca2	34576817	TTATATATATATATATATATA/TTATA TATATATATATATATA	CCTCTGCTGCATGAAT TCTC	TGAGTGAAGATTGAAT GATGACG	58.5	242	INTERGENIC	--	--	--
Ca2_P1_34654101	Ca2	34654101	GTATATATATATATATATATATAT GTATATATATATATATATATATAT	AGGACGAGACAAAATG AGCC	TGGAAACCAAGGTCCA AGTC	59.3	219	INTERGENIC	--	--	--
Ca2_P1_34683764	Ca2	34683764	TC/TCC	GTTTTTCGCAACCACC TTTC	CGCTTTTGCCTAAC CTCC	59.6	682	INTERGENIC	--	--	--
Ca2_P1_34684386	Ca2	34684386	CAACGTTAAC/CAAC	ACAATACTGCGGCCTG TTTC	GATTCCGATCGTTTTT CACG	60.1	830	INTERGENIC	--	--	--
Ca2_P1_34684591	Ca2	34684591	TTATATATATATATATATATATAT A/TTATATATATATATATATATATA	TGGAGTTTTGTGTGAT GGACA	GATTCCGATCGTTTTT CACG	60.0	758	INTERGENIC	--	--	--
Ca2_P1_34684688	Ca2	34684688	CATCTT/C	CGTACGTAGCAAATGC AACAA	ATTCCGATCGTTTTTC ACGA	59.8	229	INTERGENIC	--	--	--
Ca2_P1_34684923	Ca2	34684923	ATTTTTTT/ATTTTTTT	TCGTGAAAAACGATCG GAAT	TGCTTGATTTTAATGG ATGCC	60.4	550	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_34684966	Ca2	34684966	TAAAAA/TAAAA	CGTGAAAAACGATCGG AATC	TTGCCCTTAAATGAC ATGC	60.4	593	INTERGENIC	--	--	--
Ca2_P1_34685252	Ca2	34685252	CATAAATAAATAAATAA/CATAAATAA A	TCGTGAAAAACGATCG GAAT	TGGAGAGAAACAAAAT GGGG	60.4	816	INTERGENIC	--	--	--
Ca2_P1_34685695	Ca2	34685695	ATTTTT/ATTTTTTT	CCCCATTTTGTTTCTCT CCA	TTGTTCTCCCGAGTT TTGG	59.9	234	INTERGENIC	--	--	--
Ca2_P1_34685921	Ca2	34685921	TAAAAAA/TAAAA	CCAAACTGGGGAGAA ACAA	TACGATAGGGGGATCT CACG	59.9	503	INTERGENIC	--	--	--
Ca2_P1_34854539	Ca2	34854539	NNNNNNNNNN/ANNNNNNNNN	GTTCTTTTGCCCGTCA TCAT	TCAAATTGAATGCGGG TTTT	59.9	387	INTERGENIC	--	--	--
Ca2_P1_34864878	Ca2	34864878	GTATA/GTA	CTTCAGTCTGACGCTC TCCC	TTGCTGCCAAATAAA CAACA	60.1	651	DRR	Ca_16882	--	FAR1
Ca2_P1_34983521	Ca2	34983521	AATATATATATATATATATATATATA TATATATATATAAATATATATATATAT ATATATATATATATATATATATATA	CAATGCATGCTCCCC TAAT	CTAAAGCCCAAGCT GCAC	59.9	450	INTERGENIC	--	--	--
Ca2_P1_35043159	Ca2	35043159	GATATATATATATAT/GATATATATA TATATATAT	CGATGGATCTGGAGGT TGTT	TGTTTGAAAGAGCGTG AGGA	59.9	927	INTRON	Ca_16869	A	--
Ca2_P1_35125170	Ca2	35125170	ATCTCTCTCTCTCTCTCTCTCTCTC TC/ATCTCTCTCTCTCTCTCTCTCTC CTCTCTC	GATGGCTTTGAGGCAG AGAG	TTGAAGAAGCAAGCAG TGGA	60.1	141	INTERGENIC	--	--	--
Ca2_P1_35218069	Ca2	35218069	TTAATAATAATAATAATAATAATAA TAA/TTAATAATAATAATAATAATAA ATAATAATAA	GTTTGGACACGGTTTG GTCT	GAATCGCTCCGTTTTG TTTT	59.9	548	INTERGENIC	--	--	--
Ca2_P1_35258590	Ca2	35258590	A/ATT	AAAAAGTTTTAACACG GAGGTTTTT	TGTTGTTGGATTGGAC ATGG	59.8	487	INTERGENIC	--	--	--
Ca2_P1_35259201	Ca2	35259201	ATTTTTTT/ATTTTTTTTTT	CCATGTCCAATCCAAC AACA	GTTGCGAAAAAGTTCA TCCG	60.2	744	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_35273988	Ca2	35273988	CTAGATATTT/CTAGATATTTAGATATT	GATTAAGCGATGGAGG ACCA	CCTTTCCTTTCCCTC CAAA	60.0	555	INTERGENIC	--	--	--
Ca2_P1_35288109	Ca2	35288109	ATTTTT/ATTTTTTT	TGCTTTATAGTGCTATT ATGTGCCA	CGTCATTAAGGGAA ACCAA	60.1	757	INTERGENIC	--	--	--
Ca2_P1_35288455	Ca2	35288455	TT/TTAT	TTCGATGGTATGCAGT AATTGG	TTCCCATGAAAGAGAG GTGG	59.9	433	INTERGENIC	--	--	--
Ca2_P1_3528916	Ca2	3528916	AATATATATATATATATATA/AATATAT ATATATATATATATA	CAGCATCGGGATCCAG TTAT	TTTGTAAACAAACCAC TCATCC	59.9	284	INTRON	Ca_10506	--	--
Ca2_P1_35289402	Ca2	35289402	ACCCCC/ACCCC	ACCCACCTCTTTTCTT GGG	TGGTCCTCGAAATTTG TAATGA	60.3	609	INTERGENIC	--	--	--
Ca2_P1_35291896	Ca2	35291896	GTTTT/GTTTTT	AAAAAGTCCGAAGCG TATTC	TTCATTAAATTGCACA AACCAG	57.6	579	INTERGENIC	--	--	--
Ca2_P1_35297777	Ca2	35297777	C/CTGAAGTGTAT	ACCAGGAAAAGAAGAA GGGC	TTTTGGTTGGGATGA CATT	59.7	535	INTERGENIC	--	--	--
Ca2_P1_35298057	Ca2	35298057	AT/AATAGCGCTT	AATGTCATCCCAACCC AAAA	TCGCAATAAAACATA TAAACCA	60.0	190	INTERGENIC	--	--	--
Ca2_P1_35298866	Ca2	35298866	AA/AACA	TGGGGGCTTAGAGCTT TGTA	CGATGTTGTTGATCTG ATATCGT	59.8	527	INTERGENIC	--	--	--
Ca2_P1_35303488	Ca2	35303488	ATTTTT/ATTTTTTT	TTCCGAATAAGGATTT CTTGG	ATGGTTTGGGAAAAG AACC	58.2	137	INTERGENIC	--	--	--
Ca2_P1_35304698	Ca2	35304698	C/CG	GCTTGGAACAGCCTC AGAC	CAGGGTGGTACTGCA ATGTG	60.0	536	INTERGENIC	--	--	--
Ca2_P1_35329169	Ca2	35329169	AATATATATATATATATATATATAT/ AATATATATATATATATATATAT	CAATTTTGAAGACGA TTTTGA	TGTCCCGAAAAGTTC ATCC	59.1	330	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected 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_P1_35388862	Ca2	35388862	GTTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTA/GT ATTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTA	TTCTCACATTGAGCCA GCAG	TGACTTGGTATACGCC CACA	60.1	458	INTERGENIC	--	--	--
Ca2_P1_35510651	Ca2	35510651	CATATATATATATATATATATATA T/CATATATATATATATATATATA TATATATAT	TTATCTGGCAAAACCG TTGA	TGTGCGCATTGCAAA TAAA	59.2	535	DRR	Ca_09714	--	--
Ca2_P1_35559233	Ca2	35559233	CAA/CAAA	CCAAAATATCCACCGT GTTT	TTCTCTGGACGAAATG AACC	57.3	582	DRR	Ca_09721	K	NF-YB
Ca2_P1_35628453	Ca2	35628453	TTAATAATAATAATAATAATAATA TAATAATAATAATAATAATAATAAT AATAATAATAA/TTAATAATAATAATA TAATAATAATAATAATAATAATAAT AATAATAATAATAATAATAATAATA	TTGGGGTAGGAGGGA TTTTT	CGTGAAATGAAC TGAG TAACACC	59.6	844	INTERGENIC	--	--	--
Ca2_P1_3563291	Ca2	3563291	CTTTTTTTTT/CTTTTTTTTT	GAACGTTCCATTTTTG CGAT	TTCGGTGGTAGTTCTA GGCTTT	59.9	584	INTERGENIC	--	--	--
Ca2_P1_35656426	Ca2	35656426	AATATATATATATATATATATA/A ATATATATATATATATATATA	TGGTGTGGAGTCATA TTTTTCA	AAC TAGTGGTAACCCG TGCG	59.4	231	INTERGENIC	--	--	--
Ca2_P1_35657396	Ca2	35657396	AAGAGAGAGA/AAGAGAGAGAGA	GCCGTGATTTGGTGGT AAAT	CCTCCAACAAAAGGA ACCA	59.7	295	INTERGENIC	--	--	--
Ca2_P1_3568270	Ca2	3568270	TC/T	TGATAGGCCGTAGTCT AGGT	AAACAACCGTCTTTGT TTGC	59.6	591	INTERGENIC	--	--	--
Ca2_P1_35822980	Ca2	35822980	AATATATATATATATATA/AATATAT ATATATATATATATA	TTAATCGACGCGTGCA ATAG	GAAAAATTAGATGCCG GAAGAA	60.0	261	INTERGENIC	--	--	--
Ca2_P1_35856415	Ca2	35856415	TGAGAGAGAGAGAGAGAGAGA/TGAG AGAGAGAGAGAGAGAGAGAGAGA	GTGCTGGTGACATGT TGAG	ATTGGGTTGGTCTCCA TTTC	60.2	578	INTERGENIC	--	--	--
Ca2_P1_35856739	Ca2	35856739	AATATATATATATATAT/AATATATATA TATATATAT	TCCTGGAAATGGAGAC CAAC	GATGGAGGAAGGCAA TCAAA	59.9	400	INTERGENIC	--	--	--
Ca2_P1_35857180	Ca2	35857180	GTATATATATATATATATATAT/GTATA TATATATATATATAT	TTTGATTGCCTTCCTC CATC	TTCGGGATTAAACAT TCGG	60.0	509	DRR	Ca_09762	R	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected 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_P1_35859193	Ca2	35859193	GAAAAAAAA/GAAAAAAAAA	AACAATGCCAACATT CGCA	TACTGGAGGCTGTTG GAAGG	60.0	720	INTRON	Ca_09762	R	--
Ca2_P1_35864202	Ca2	35864202	GGA/G	GCAAATTCGCCACGC TATT	AATCCTCCACCGTCTT TCCT	60.2	675	INTRON	Ca_09762	R	--
Ca2_P1_35866711	Ca2	35866711	CATATAT/CATAT	AAGGGCATGCATGAAA GTCT	TCGAGATGTCCCCTTA ATGC	59.7	578	INTERGENIC	--	--	--
Ca2_P1_35871808	Ca2	35871808	AACTC/A	GATGAAATCCAATCCA TGCC	TTTCCATTCCATGGGA AAAA	60.1	871	INTERGENIC	--	--	--
Ca2_P1_35872708	Ca2	35872708	T/TC	CCCTGACCTTGAAATA TGCC	TTTGTTTGCAAAATCATT CACG	59.4	645	INTERGENIC	--	--	--
Ca2_P1_35899592	Ca2	35899592	TAA/TAAA	GGTGGAACATCTCCAA GGAA	CTCAGACTACAACCTC GCCC	59.9	768	DRR	Ca_09764	T	--
Ca2_P1_35900083	Ca2	35900083	ATTAATTTAA/ATTAA	GGCGAGGTTGTAGTCT GAGG	TCCTCTTTCCACTGC GATT	59.9	407	DRR	Ca_09764	T	--
Ca2_P1_35915881	Ca2	35915881	ATGATGTTGATGTTGATGTTGA/ATGA TGTTGATGTTGA	CTTTCAGGTGCAGGAA GAGG	CCAGCACCACTCCAA GTAT	60.0	425	INTRON	Ca_09767	M	--
Ca2_P1_35924859	Ca2	35924859	C/CGTAT	TTTGGACATGGCTGAT GTTG	GCTTGCAGGTCACTGA ACAA	60.5	537	INTERGENIC	--	--	--
Ca2_P1_35925409	Ca2	35925409	CCTGT/CCTGTGGCTGT	TTGTTCAGTGACCTGC AAGC	TGGTGGGTTATCCCAA TAAA	60.0	750	INTERGENIC	--	--	--
Ca2_P1_35925583	Ca2	35925583	TAAAAA/TAAAAA	TTGTTCAGTGACCTGC AAGC	TCACGTGTTGGTGGGT TATC	60.0	758	INTERGENIC	--	--	--
Ca2_P1_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/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_35926372	Ca2	35926372	T/TA	ATTGGGATAACCCACC AACA	ATGCGCAAAGAGCCTT GTAT	59.9	691	INTERGENIC	--	--	--
Ca2_P1_35939640	Ca2	35939640	CTTTT/CTTT	TCTCCGGTTTCTAAGG CAAA	GGGCTCCACAAAAATC TCAA	59.8	413	INTERGENIC	--	--	--
Ca2_P1_3593968	Ca2	3593968	AATTATTATTCTTATTATTATT/AATTAT TATT	GTTCCAACCCATACCA AACG	GGAGATGCGACTTGG TGAAT	60.1	621	INTERGENIC	--	--	--
Ca2_P1_35939936	Ca2	35939936	TG/T	TTGAGATTTTTGTGGA GCCC	CAATTTTAATCTTTGG CGGC	60.1	461	INTERGENIC	--	--	--
Ca2_P1_35942518	Ca2	35942518	ATT/ATTT	GAAATCTTGGATGGC GAAA	TTTTTGCCGTTATGCG TGTA	60.0	264	DRR	Ca_09769	--	--
Ca2_P1_35942715	Ca2	35942715	GCCCC/GCCC	GAAATCTTGGATGGC GAAA	AAATGCGCAGTTGTGT CTTG	60.0	870	DRR	Ca_09769	--	--
Ca2_P1_35944964	Ca2	35944964	CAAAA/CA	TCCAACCATACCTGAA AGGC	CTCGTGCGAACTTGTG TGTT	59.9	313	CDS (large-effect mutations)	Ca_09769	--	--
Ca2_P1_35945318	Ca2	35945318	CCAA/C	AACATCATACTTTTGC GGGC	GCCTGAAATATGCCGA GGTA	60.0	417	INTRON	Ca_09769	--	--
Ca2_P1_35945786	Ca2	35945786	CTATA/CTATATATA	TACCTCGGCATATTC AGGC	ATGCAGGTTTTGGATT TTGC	60.1	776	INTRON	Ca_09769	--	--
Ca2_P1_35955086	Ca2	35955086	CTATATATATATATA/CTATATATAT ATATA	GGATGGAAGGGATATA CGAGG	TACCCACACTGCAAA TTCA	59.6	407	INTERGENIC	--	--	--
Ca2_P1_35958458	Ca2	35958458	GAAAAA/GAAAAA	CATGCATAGAGACATG CCCA	GTGGGGTGGGGTTTT AAGTT	60.7	785	INTERGENIC	--	--	--
Ca2_P1_35960202	Ca2	35960202	CAAAAA/CAAAAAA	AGAGGACTTGTGTTGC ATCC	TCCATTATAAGAGAAT GTCCCA	57.7	707	DRR	Ca_09770	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_35960498	Ca2	35960498	TAA/TA	TGTGGCAAGTTTAA CAAATGA	TGAGTGGAGTGAAT GAAATG	59.6	663	DRR	Ca_09770	--	--
Ca2_P1_35960819	Ca2	35960819	CTAT/CTATAT	AAACTTCCTCTCTCCA CAAAGAA	TGAAAGCTTCAGTTGC AAAAA	59.8	537	DRR	Ca_09770	--	--
Ca2_P1_35961921	Ca2	35961921	TAAA/TAAA	AGACGCTCATCACTCA ATTTCA	TTCGACAATATGGCCA ATGA	59.9	251	INTERGENIC	--	--	--
Ca2_P1_35962118	Ca2	35962118	ATAATT/ATAATTAATT	GGCCATATTGTCGAAA AGGA	TCGTCGATCTCATGAC TCAATC	59.9	550	INTERGENIC	--	--	--
Ca2_P1_35965637	Ca2	35965637	CTT/CT	TGGAAGATGCTTTCA AGGG	ACATTCATGGGCTGC TTAG	60.2	636	DRR	Ca_09771	J	NAC
Ca2_P1_35967436	Ca2	35967436	AATTATA/AA	TTGAGGGGAGGTAAGC CTTT	TGATAGGAGGAAGCG TGACC	60.1	583	INTRON	Ca_09771	J	NAC
Ca2_P1_35970659	Ca2	35970659	GAA/GAAA	GATGGTCTCCATGCGT ACCT	ATCCAGTCATATCCCC TCCC	60.0	447	INTERGENIC	--	--	--
Ca2_P1_35972465	Ca2	35972465	GGCTTG/GGCTTGCTTG	ATGGCGCTTACGTCAA AGAC	AGCTCTTGTTGCAGCC AAAT	60.3	477	INTERGENIC	--	--	--
Ca2_P1_35982827	Ca2	35982827	CT/CTTT	ACAGAGACTCCCAGC TGAG	TATCCTCCAAAGTGCA TCCC	59.7	349	INTRON	Ca_09772	T	LBD
Ca2_P1_35989118	Ca2	35989118	TGG/TG	TGTTGTGCAACATGT CCCT	CCTTCTTTTCAAGCCA ATGC	60.0	547	INTRON	Ca_09773	T	LBD
Ca2_P1_35996189	Ca2	35996189	AATATATATATATAT/ATATATATA TATATATATATATAT	GCAAAAATTGAAGCAA ACCC	AAAATCAACGACGATG AATAAGAA	59.6	602	INTERGENIC	--	--	--
Ca2_P1_35996261	Ca2	35996261	TTCTCT/TTCT	CCATTCGTCAACGGCA TAAT	AAAATCAACGACGATG AATAAGAA	60.7	330	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_36001001	Ca2	36001001	AAA/AAATAAATAA	CGCGTTGGTACTTTCA TGTG	TCCCAAGTTAGGGGTA AGGC	60.2	386	INTERGENIC	--	--	--
Ca2_P1_36001500	Ca2	36001500	T/TC	GCCTTACCCCTAACTT GGGA	AAAAAGTCGTCGGGTC AATG	60.3	333	INTERGENIC	--	--	--
Ca2_P1_36004750	Ca2	36004750	TAAAAAAAAA/TAAAAAAAAA	TCTTTCCCGTTGATAG GTATCTT	CACACACAAATCAAT GAGACAA	58.2	473	INTERGENIC	--	--	--
Ca2_P1_36005038	Ca2	36005038	TAAA/TAA	TCTTTCCCGTTGATAG GTATCTTA	TGATTCCAAAATCC ATCATCT	58.3	567	INTERGENIC	--	--	--
Ca2_P1_36005345	Ca2	36005345	TTTTAAATTTAAAT/TTTTAAATTTA AAATTTAAAT	TTGTCTCATTTGATTTG TGTGTG	TTAGTTGACATAGCGG TTGAAA	58.6	641	INTERGENIC	--	--	--
Ca2_P1_36005478	Ca2	36005478	AT/ATATT	TTGTCTCATTTGATTTG TGTGTG	TTAGTTGACATAGCGG TTGAAA	58.6	641	INTERGENIC	--	--	--
Ca2_P1_36006597	Ca2	36006597	GGGATGGATG/GGGATGGATGGATG	TCATAATCCGATCAAA CCGA	ATCCAACCTCCACGTGA CACA	58.9	473	INTERGENIC	--	--	--
Ca2_P1_36114502	Ca2	36114502	CATATATATATAT/CATATATATATATA T	GCCACAACATATGCATT TTTCA	TGTGAGAGAAAGACAG CCGA	58.7	772	INTERGENIC	--	--	--
Ca2_P1_36146623	Ca2	36146623	GAAAAA/GAAAAA	AAACAGCAACAAAAAT CCCAA	TTTGGAATCAAGAGG TGGG	59.5	201	INTERGENIC	--	--	--
Ca2_P1_36146917	Ca2	36146917	TCCCCC/TCCCCC	AGGGAAACCCACCTCT TGAT	AAATCCAAAGTGCTTG CGTT	59.8	623	INTERGENIC	--	--	--
Ca2_P1_36146995	Ca2	36146995	ACAACCCCA/ACA	AGGGAAACCCACCTCT TGAT	AAATCCAAAGTGCTTG CGTT	59.8	623	INTERGENIC	--	--	--
Ca2_P1_36147608	Ca2	36147608	T/TCATTTGTA	AACGCAAGCACTTTGG ATTT	GGTCTATGGACTTTTCG GTGAA	59.8	429	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/P1)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected 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_P1_36177227	Ca2	36177227	TGGGTTTAGGGTTTAGGGTTTAGGT TAGG/TGGGTTTAGGGTTTAGGGTT TAGGGTTTAGGGTTTAGGGTTTAGG	TTGATGTTTGCATGAT GGGT	TCTTGCATGGCCTTCA ACTA	59.8	427	INTERGENIC	--	--	--
Ca2_P1_36224008	Ca2	36224008	CTTTTTTTTT/CTTTTTTTTTTT	TTTTACCACGACACA CAAA	TGCACGTTTATAAGGA ATCGG	58.6	354	INTERGENIC	--	--	--
Ca2_P1_36242074	Ca2	36242074	AAAGAAGAAGAAGAAGAAGA/AA AGAAGAAGAAGAAGAAGAAGAAGA	CCCTCAAATCAAAGCC AAAA	AAGTGTGCGTGTAGCT CGTG	60.0	398	INTERGENIC	--	--	--
Ca2_P1_36297095	Ca2	36297095	TTATATATATATATATATATATATAT ATATATATAT/TTATATATATATATAT ATATATATATATATATATATATAT	TGTTGACTCCTTGAGT AACTTTGTG	TGTTGCTTTTTGTTATT GTTTTTCA	59.8	534	DRR	Ca_09815	--	MYB_related
Ca2_P1_3630204	Ca2	3630204	CATATATATATATATATATATATAT/ CATATATATATATATATATATATAT	TGAAACAAGCATATGC GTCAA	TTTGCCTTCAATAATT GCACA	60.3	158	INTRON	Ca_10502	P	ERF
Ca2_P1_36304630	Ca2	36304630	AATATATATATATATATATATATATA TATATAT/AATATATATATATATATAT ATATATATATATATAT	TGAACCGCATGAATCT TGTC	TCACAAGCTTTAGCAT GACACA	59.7	542	INTERGENIC	--	--	--
Ca2_P1_36372982	Ca2	36372982	GATTATTATTATTATTAATTATTATT A/GATTATTATTATTATTATTATTA ATATTATTATTA	TGAGCTGAAATTGTTC GTCC	CCAATCCTCGTTGTCA AGGT	60.0	274	CDS (large-effect mutations)	Ca_09826	--	HD-ZIP
Ca2_P1_36390282	Ca2	36390282	GAGAAG/GAG	TACGGGAACGTTAAAG ACCG	GGTTTTGCAGCTTGCT TTTC	60.0	599	CDS (large-effect mutations)	Ca_09828	--	MIKC
Ca2_P1_36631768	Ca2	36631768	TTATATATATATAT/TTATATATAT ATATAT	TCTCCTACCTCTGGCC AACA	CTCCAACATATGCATG GCAC	60.8	100	INTERGENIC	--	--	--
Ca2_P1_366324	Ca2	366324	ATTTTTTTTT/ATTTTTTTTTTT	CAAGGGGCATTACCTT ACCA	CTCCTCTCTTGCTTTT GGCA	59.8	727	INTERGENIC	--	--	--
Ca2_P1_3704285	Ca2	3704285	CAAAAAA/CAAAAAA	TTTTACATTCCTCCACG CAAT	GGGCGACCTTTGTTGT ACTTC	60.2	512	DRR	Ca_10491	D	WRKY
Ca2_P1_371546	Ca2	371546	TTATATATATATATATATATA/TTATA TATATATATATATA	TGCACTCAGCTGCTTC ACAT	CTTTGTTCATTGTCC GCAA	60.8	552	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_3723233	Ca2	3723233	TATTATCAATTATCAATTA/TATTATCA ATTA	ATTCGTTGCGTTTTG GACT	TGGTCAATTTTGT GCCA	59.6	234	INTERGENIC	--	--	--
Ca2_P1_3723573	Ca2	3723573	G/GCA	TGGCAACAAAAATTG ACCA	TTCCTCAAATTGCAAC ACCA	59.9	752	INTERGENIC	--	--	--
Ca2_P1_3723695	Ca2	3723695	TAAAAA/TAAAAA	TGGCAACAAAAATTG ACCA	TTCCTCAAATTGCAAC ACCA	59.9	752	INTERGENIC	--	--	--
Ca2_P1_3724652	Ca2	3724652	TA/TAAGCAA	ATTGGGATTGTGATGG AGGA	TGCCTGTAAGCAAAA GTTTATAGAC	60.1	693	INTERGENIC	--	--	--
Ca2_P1_3732620	Ca2	3732620	ATT/AT	CTGTGCCATGTCCATA ATGC	CCTGCCAAAGGAACT TCTG	60.0	581	INTRON	Ca_10490	G	C3H
Ca2_P1_3733191	Ca2	3733191	TTAGAGACTAA/T	ACCTGCAACATGTGCG ATAA	TGCATGAGATTGAAA TGGA	60.1	349	DRR	Ca_10489	G	C3H
Ca2_P1_3740423	Ca2	3740423	CATAT/CAT	CGGTGATGGTGAGAAA ACCT	AACCTACGCCGCTTCT TCAA	60.0	792	INTRON	Ca_10488	--	WRKY
Ca2_P1_3740721	Ca2	3740721	CAAAAATAAAAA/CAAAAATAAAATAA AAA	TCACTCGTTGCAACAG CTTC	TCTCATCATCCCTCTC CACC	60.2	267	DRR	Ca_10487	--	--
Ca2_P1_3741294	Ca2	3741294	CT/CTTT	GGTGAGAGGGGATGA TGAGA	GCAGAGCACCAACAC AAGA	60.0	605	DRR	Ca_10487	--	--
Ca2_P1_3742318	Ca2	3742318	TAAAAA/TAAAA	TCATTCTCCATTGGT CCAT	AACGGCTAAATCCAGT GGTG	60.1	433	DRR	Ca_10487	--	--
Ca2_P1_3743015	Ca2	3743015	A/AATACAAATGGTG	CACCACTGGATTAGC CGTT	TCCTTTTCGCTGATGA AACA	60.0	722	INTRON	Ca_10487	--	--
Ca2_P1_3743740	Ca2	3743740	TAAAAAAAAA/TAAAAAAAAAAAAA	TGATGAATGGCATACT TGCC	CAGCAAGTCCACGAA AGAT	59.5	326	INTRON	Ca_10487	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_3743829	Ca2	3743829	CTTTTT/CTTTTT	TTGGCCAATACTCCAA CCAT	CAGCAAGTCCCACGAA AGAT	60.2	311	INTRON	Ca_10487	--	--
Ca2_P1_3745143	Ca2	3745143	TAAAA/TAAA	GAAGCACTGGACCTCC CATA	TGACTTGAATAGATT GGACCAT	60.1	630	INTERGENIC	--	--	--
Ca2_P1_3746503	Ca2	3746503	TTA/TTAAACATA	TCCACATTGCACCAAC ACTT	TTGCTCCTCTGGTCCT CACT	60.0	925	INTERGENIC	--	--	--
Ca2_P1_3746722	Ca2	3746722	ATTTTT/ATTTTTTT	CCGGAAAAGTGAATGT TGGT	TTGCTCCTCTGGTCCT CACT	59.8	252	INTERGENIC	--	--	--
Ca2_P1_3751543	Ca2	3751543	TTCT/TT	GGTGTTCCTCCCAAC TTGA	AGGCACGCACTGGA AGAAT	59.9	798	INTERGENIC	--	--	--
Ca2_P1_3754940	Ca2	3754940	GA/GATA	TCCTTCAACTGTGGAA CCAA	GCTTCTTGTGTGGCT TAGG	59.1	751	DRR	Ca_10486	DL	--
Ca2_P1_3761698	Ca2	3761698	TAA/TAAA	ACCCTCCATTGCTGTT TTTG	CTCGGAACATGCATAG AATGA	60.0	262	INTERGENIC	--	--	--
Ca2_P1_3766617	Ca2	3766617	A/AT	GCCGCACGAAGTGAAT TAG	ATACCAGGACCACCT ACCC	59.4	762	INTERGENIC	--	--	--
Ca2_P1_3766913	Ca2	3766913	ATTTTT/ATTTTTTT	AGAACCATGTGCTTCA TCCC	CAACACAATTGAATGG CAGG	59.9	478	INTERGENIC	--	--	--
Ca2_P1_3767986	Ca2	3767986	TAT/TATGAT	TGAATGCTAGTTCCAC CGTT	AAAAATTGGAATAAAAC GCGG	58.2	488	INTERGENIC	--	--	--
Ca2_P1_3768123	Ca2	3768123	GAT/GATAT	CCGCGTTTTATTCCAA TTTT	TCGACAGTTTTGTTC TTCAG	59.0	126	INTERGENIC	--	--	--
Ca2_P1_3769682	Ca2	3769682	CA/CAAA	CCCTTAGGGGTAGCTC CATC	AGCTGAGGTCCTGTTG GCTA	59.9	537	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_3771310	Ca2	3771310	TTATATATATATATA/TTATATATATA	GCTCGACGGAATAGCA TTTT	TGGCCAAGCATGATCT AACA	59.3	612	DRR	Ca_10483	E	--
Ca2_P1_3771400	Ca2	3771400	ATTTTTTT/ATTTTTTTT	GCTCGACGGAATAGCA TTTT	TGGCCAAGCATGATCT AACA	59.3	612	DRR	Ca_10483	E	--
Ca2_P1_3771545	Ca2	3771545	AT/A	GCTCGACGGAATAGCA TTTT	TGGCCAAGCATGATCT AACA	59.3	612	DRR	Ca_10483	E	--
Ca2_P1_3777372	Ca2	3777372	AATATA/AATATATA	AATTTTGGGGGAAAA ATGC	CTCTGATAGACCTCC CACCT	60.0	646	INTERGENIC	--	--	--
Ca2_P1_3782950	Ca2	3782950	TAAAAAA/TAAAAAAA	TGCCATGGGAGCTCTA TGAT	CGCACTTGGAGTTGAT GTGT	60.6	554	INTERGENIC	--	--	--
Ca2_P1_3787678	Ca2	3787678	TC/T	AATGGGCTATGTAACG ACGC	CGCAGTTATTTGTGT CGATG	60.0	483	DRR	Ca_10481	O	--
Ca2_P1_3787811	Ca2	3787811	AATATA/AATA	CTCCTGGCATTGTTTT TGGT	CCCTTTAACAATCCAC CTCTTTC	60.0	834	DRR	Ca_10481	O	--
Ca2_P1_3799399	Ca2	3799399	A/AGTC	ATTTCCACACCTCATT TGG	TAGCTCCGACACAACG AGAA	59.6	275	INTERGENIC	--	--	--
Ca2_P1_3800163	Ca2	3800163	TA/TAA	TTCTCATTTTCTCTT GGTTTG	CCACACTGCGCTTCAG ATAA	59.6	377	INTERGENIC	--	--	--
Ca2_P1_3804034	Ca2	3804034	TA/TAA	TGGAAGAAAATGTGGC TGTG	TCACTTGTGTTGAGGT CCAAG	59.7	529	DRR	Ca_10480	--	--
Ca2_P1_3804111	Ca2	3804111	A/AC	AACCATGGCCTTGCAA TTTA	CATTCAAGAAGCATAA TCCACG	60.3	390	DRR	Ca_10480	--	--
Ca2_P1_3805996	Ca2	3805996	TAAAAA/TAAAAA	GAACAAGAGCAGCGT TAGG	CCACCCCTTGAATCAA AAGA	60.0	567	INTRON	Ca_10479	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_3810502	Ca2	3810502	GTTT/GTT	TGAGATGAGGAATCC AAGG	TCTCTATTGTTGGT GCCTG	60.0	431	DRR	Ca_10479	--	--
Ca2_P1_3810880	Ca2	3810880	ATT/A	CCCCACTTGATGATTT TCCA	CGCGTTTTCTTAGTTT CCAA	60.7	733	INTERGENIC	--	--	--
Ca2_P1_3812277	Ca2	3812277	TATTAATTAATTAATTA/TATTAATTAAT TA	TGTTCTGCAAAATCGC AAAG	TGGTGACATGACTAAT TTTGGA	60.0	414	INTERGENIC	--	--	--
Ca2_P1_3813617	Ca2	3813617	CAA/CAAA	TTGAAGCATACCTTGA GTGGTG	TTAATCTGGTTTTGGT GGGC	60.2	570	INTERGENIC	--	--	--
Ca2_P1_3813973	Ca2	3813973	TAAA/TAAAA	TCCAAAATTCATGGC CCAC	GGTCACACCTCTTAA CCCA	59.8	720	INTERGENIC	--	--	--
Ca2_P1_3901844	Ca2	3901844	AC/ACTTCACGAGC	GTCGCTATCTCCCGAG TGAA	CATTCTGTGCCGCTAT CTGA	60.2	248	DRR	Ca_10466	GT	--
Ca2_P1_3937629	Ca2	3937629	GATAAATAAATAAATAAATAAAT AAATAA/GATAAATAAATAAATAA ATAAATAAATAAATAA	AAGTGTTTTGGTGCTG TCCC	GACTTCTATTGCCCC ACAA	60.0	154	INTERGENIC	--	--	--
Ca2_P1_3949908	Ca2	3949908	TAAAAAAAAAAAA/TAAAAAAAAAAAA	TCAAAGAATAGAGGTA TTGTCTCCG	CTAAAGCCTGCCATT TCTG	60.0	795	INTERGENIC	--	--	--
Ca2_P1_3955516	Ca2	3955516	TATAATAATAATAATAATAATA/TATA ATAATAATAATAATAATAATAA	TTTCCGATTTCGAGGT GTTT	TGAATAGTGAAAACA CAACAATG	60.1	385	INTERGENIC	--	--	--
Ca2_P1_4010671	Ca2	4010671	AAAG/AAAGAAG	CCATCAATAGCTGCAT GGTG	TTTGGGTAAGACTTCC ACCG	60.1	400	INTERGENIC	--	--	--
Ca2_P1_4013903	Ca2	4013903	ATTTTTTT/ATTTTTTTT	CGGTCAACAAGCATCTC ATGT	TGATGCTTAAAACTA TGGGACAA	59.7	669	INTERGENIC	--	--	--
Ca2_P1_4014195	Ca2	4014195	AATATATATATATATATATAT/AATATA TATATATATATATATATATAT	TGGAAATTATGAGTCC CTTGA	TGAATACCAACGACAC ACCG	57.1	642	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_4023004	Ca2	4023004	TTATATATATATATATATATATATAT AT/TTATATATATATATATATATATAT ATATATATAT	GCATCCAAGTGGACAA CTGA	GTCTCATTTTCACACC CGCT	59.7	547	INTERGENIC	--	--	--
Ca2_P1_4028180	Ca2	4028180	TAATTATTAAATTATTAA/TAATTATTA AA	GGAGCAACCGTCTTC TTGA	AAATCCAACCACACCA CCAT	60.4	431	INTERGENIC	--	--	--
Ca2_P1_404702	Ca2	404702	TTTTTAATATTTTAAATTTTTAAT/TTTT TAATATTTTAAATATTTTAAATTTTTAAT	ATGGATCAGCTCAACC CAAT	AACCTAAACGCAAGGT CTCG	59.4	225	INTERGENIC	--	--	--
Ca2_P1_405077	Ca2	405077	CTTTTTTTTT/CTTTTTTTTTTT	GACCAGGTGGCTCTCA CTGT	GGTTTGTCTCCTTAC CCCC	60.3	528	INTERGENIC	--	--	--
Ca2_P1_4057856	Ca2	4057856	AATATATATATATATA/AATATATAT ATATATA	TGCAAAATGGAGATT GTGG	TGATGGGAGCATGTGA CACT	59.5	712	INTERGENIC	--	--	--
Ca2_P1_4060085	Ca2	4060085	AATATATATATATATATATATATATA TA/AATATATATATATATATATATAT A	GACCTTGCATGGAGTG TTGA	GGCATAGCCATGAAGA ACTTG	59.7	690	INTERGENIC	--	--	--
Ca2_P1_408895	Ca2	408895	TTATATATATATATATATA/TTATATA TATATATATATA	AATGGTGGCAATTGTT GTGA	AACATGCCATGCATCA AAAA	59.8	586	INTERGENIC	--	--	--
Ca2_P1_4098274	Ca2	4098274	AGAGTGGAAATGAGTGGA/AGAGTG GA	CCATGGGTTTATTGTG GCTT	TTGAAAGTCGATCCAC CACA	59.7	404	INTERGENIC	--	--	--
Ca2_P1_4116151	Ca2	4116151	GTTTTTTTTT/GTTTTTTTTTTT	TTTTTATGACGCAGAT GCCC	TGGATCCTTACATGGT CGGT	61.0	665	INTERGENIC	--	--	--
Ca2_P1_4123258	Ca2	4123258	AATATATATATATA/AATATATATAT ATA	GCCCAATCATTTTCAA GGAA	CGTTCAACTCCCACAG GATT	59.9	667	INTERGENIC	--	--	--
Ca2_P1_416248	Ca2	416248	TTATATATATATATATATATATATAT AT/TTATATATATATATATATATAT	ATAAATGAAGGGGTGG GAGG	GTTTCCCATAAACAGC ACCC	60.0	882	INTERGENIC	--	--	--
Ca2_P1_4184153	Ca2	4184153	TTATATATATATATATATATA/TTATA TATATATATATATATATA	ACGTTGATCTCTTCGC CATC	TCTGAGGAATTTTC CACG	60.2	661	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_4192077	Ca2	4192077	ATTTT/ATTTT	GAGGAAGGGGAGAA GAGAA	TCTGGTCCAGCTTGTA ACCC	59.7	645	INTERGENIC	--	--	--
Ca2_P1_4204531	Ca2	4204531	GTATATATATATATATATATATA/ GTATATATATATATATATATA	GGGTTTGAACCGTCCC TACT	CTTTCTCCATCTCCTT CCCC	60.2	633	INTRON	Ca_21114	--	--
Ca2_P1_42172	Ca2	42172	TTATATATATATATATATATATA/TTA TATATATATATATATA	TGGCAGTCTGTTTCAC GTTT	CAAGGGACCAGATTCT GCAT	59.3	553	INTERGENIC	--	--	--
Ca2_P1_422540	Ca2	422540	G/GTCTTCCT	AGAGTTGGAGGGTGCA GCTA	CTTCGAATCCAACCTT GGTG	60.0	829	INTERGENIC	--	--	--
Ca2_P1_4254708	Ca2	4254708	CAATAATAATAATAATAATAATAAT AATAATAACAACAATAACAATAAAT AATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATAA TAATA/CAATAATAATAATAATAAT ATAATAATAATAATAATAATAATAA	AGCATCTCGAGACGAA CTCA	TGAAGGCCCAAAAAA ATTC	58.7	562	DRR	Ca_21112	--	--
Ca2_P1_4266265	Ca2	4266265	A/ATTAATCCGAAAG	TGGACGTTTAACGGTT GACA	CCCAGTAGAAAAGAAG GGGC	60.0	705	INTERGENIC	--	--	--
Ca2_P1_4267670	Ca2	4267670	TTATATATATATATATATAT/TTATAT ATATATATATATATATAT	GTGTGCGAATGTGGTT TTTG	GGACGGACAACAGCT ATTTATG	60.0	505	INTERGENIC	--	--	--
Ca2_P1_4285697	Ca2	4285697	TAAAA/TAAA	CCAGTCCCGAAATTAA ACGA	ACTTGCATAATCGAT TGGG	59.9	613	INTERGENIC	--	--	--
Ca2_P1_4364666	Ca2	4364666	TC/T	GGACGAACGATCCAAA GAAA	TCCATTGGAAGTGTC GTGC	60.1	806	INTRON	Ca_21108	GC	HSF
Ca2_P1_4451851	Ca2	4451851	GTGCAATG/GTG	TCGTCCACTTGTGGTC CTATC	ATTGCAACTCGGAATT GTCC	60.0	169	INTERGENIC	--	--	--
Ca2_P1_4527479	Ca2	4527479	GAAGACAAAAAACATAAGACAAAA AAAAACAT/GAAGACAAAAAACATAA GACAAAAAACATAAGACAAAAAAA CAT	GCAATTTACCTCTTCT GCC	TGACGAAGCCCACAAT AACA	59.8	523	INTERGENIC	--	--	--
Ca2_P1_453297	Ca2	453297	TTATATATATATATATAT/TTATATAT ATATATATATATAT	TTCAAACCAATGATC CAATGA	ATAAATGTTGGGTGCG CAAA	60.2	685	DRR	Ca_16985	L	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_4539194	Ca2	4539194	AATATATATATATATATATAT/AA TATATATATATATATATATAT	TTTGCCTTCCACTTTG TCC	ACCAACCTGCATACCC TGTC	60.1	890	INTERGENIC	--	--	--
Ca2_P1_4595333	Ca2	4595333	CAATAATAATAATAATAATAATAAT AATAATAATAATAATA/CAATAATAATA ATAATAATAATAATAATAATAATAA TA	GTGGACCAAGCCATT AAAA	TCACTCCTCAAGTGGA ACCC	59.8	124	INTERGENIC	--	--	--
Ca2_P1_4625527	Ca2	4625527	TT/TTATTATTAT	TTTCAAATTTGTTTTG CACCTT	CGTTTGGGTCTTCAGT TGGT	59.9	416	INTERGENIC	--	--	--
Ca2_P1_4655023	Ca2	4655023	AATATATATATATATATATATATATA /AATATATATATATATATATATATATA	AATATGCGGAATTTGG TCCT	TTGTGTTCCGTAGCA CGAG	58.4	891	INTERGENIC	--	--	--
Ca2_P1_469349	Ca2	469349	TA/TAA	CCCAAGACAACCTTGC AGAT	ATGAAGTGCAAACCAT GCTG	60.1	674	DRR	Ca_16986	--	--
Ca2_P1_4700407	Ca2	4700407	ATTATTTATTTATTTATTTATTT/AT TATTTATTTATTTATTTATTT	TCTCACGGTTGTGAGG ACTG	CCTACCTCTGGAGTGT CCGT	59.9	926	INTERGENIC	--	--	--
Ca2_P1_4749260	Ca2	4749260	TTTTATTTATTTATTTATTTATTT ATTTATTT/TTTTATTTATTTATTTATTT ATTTATTTATTTATTTATTTATTTATTT	TCCTAGAACATGCATC ACGC	TATCCCTTCGGAACCT GCAC	59.8	633	INTERGENIC	--	--	--
Ca2_P1_4812881	Ca2	4812881	ATTTTTTT/ATTTTTTTTT	AACCAAGTCCGTTCCA AGTG	TCCCCCAAACAGAATT TGAG	60.0	731	DRR	Ca_21090	--	MYB
Ca2_P1_4876489	Ca2	4876489	CCATTTACGCCTAAAATCATTTAC GCCT/CCATTTACGCCTAAAATCATT TCACGCCTAAAATCATTTACGCCT	CCAACAAGGATGAAAT GTGC	AAGCCGTGAAATGGTT TTTG	59.0	419	INTERGENIC	--	--	--
Ca2_P1_4891335	Ca2	4891335	AAATTGAAG/A	AACGGTGTGAAAGGGA AATG	TGAATTGAATTTGGAA GGGG	59.8	515	INTERGENIC	--	--	--
Ca2_P1_4892794	Ca2	4892794	CATATATATATATATATATATATATA TATATAT/CATATATATATATATATATA TATATATATATATATATATATATAT	GCGGACATAAGGAAGA TGTGA	AGGTCTGCGAAGATG GAAAA	60.1	606	INTERGENIC	--	--	--
Ca2_P1_4894086	Ca2	4894086	TA/TAGACAACCTCAA	TTGAACTACAACACGC GCAC	TTTGTTCGAATTTCTTG CTCCA	59.9	493	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_4894836	Ca2	4894836	ATGATT/AT	AAAGGGAAGAAATTC GGGA	AACCGGACGATCATT GAAG	59.9	498	INTERGENIC	--	--	--
Ca2_P1_4895677	Ca2	4895677	AA/AATATGA	CCAGGATAAACAGCC CAGA	TGGATGCTTTCCCAAC TTTC	60.1	467	INTERGENIC	--	--	--
Ca2_P1_4915954	Ca2	4915954	AAATAATAATAATAATAATAAT AATAATAATAATAATAATAA/AAAT CATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATA TAA	TTATCGGACATTTTC CGAG	CTAGGTCGCCCTTCA GGTT	59.9	504	INTERGENIC	--	--	--
Ca2_P1_4921648	Ca2	4921648	AAAAATAATAATAATAATA/AAAT AAATAATAATAATAATAATA	TCCTGGATCACTGCAC CATA	CATTATTGTTGTGCG TCCG	60.1	696	INTERGENIC	--	--	--
Ca2_P1_4966099	Ca2	4966099	A/ATGTTTTGCGCGGC	GGATGACATGGCTTTC AACA	GATGTTCTTCTTAGC GGCG	59.5	455	INTERGENIC	--	--	--
Ca2_P1_5026096	Ca2	5026096	TAAATAAATAAATAA/TAAATAAAAT AA	TTGAGACAAATTAAG AAACATAAGCA	TCGTGCTCCGTAAACG GTAT	59.7	532	INTERGENIC	--	--	--
Ca2_P1_5096452	Ca2	5096452	AATATATATATATATATATAT/AA TATATATATATATATATATATAT	GTTTTGTGGTGCAATT TGGA	TTTGAAGAGTCCGAA TTCAAATA	59.6	570	INTERGENIC	--	--	--
Ca2_P1_5112695	Ca2	5112695	CGAATGAAT/CGAAT	TTGCTGTTTTCTGTT GCTG	GGACAAAGCCAGATT TTCA	60.0	381	INTERGENIC	--	--	--
Ca2_P1_5135372	Ca2	5135372	AATATATATATATATATATATATA TATATATATATATAT/AAATATATAT ATATATATATATATATATATATAT ATAT	TGATTTATTTCCAGC CTACG	TTGTTTCTCCCAAGT TTGG	60.0	952	INTERGENIC	--	--	--
Ca2_P1_5154866	Ca2	5154866	AAAATTG/A	TGTGTCGTGTTTCTG TCTTG	TGAATTCATGGCTAAG AAGCCT	59.8	516	INTERGENIC	--	--	--
Ca2_P1_5163788	Ca2	5163788	CAAAAAAAAA/CAAAAAAAAA	TGCGAGAAAGTGAATT CCAG	GGAATGATGATGGGG TTTTG	59.0	658	DRR	Ca_14696	--	--
Ca2_P1_5286155	Ca2	5286155	AATATATATATATATATATATATA TATA/AAATATATATATATATATAT ATATATATATA	TTTCATGCCTCCCATTT CTTC	CGCTCTGTCAACATGT CAGC	60.0	752	INTRON	Ca_14679	T	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected 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_P1_5410265	Ca2	5410265	TGA/TGAAGA	CGAAACCCAGATTGG AAAG	CAATTTTGTTCAC ACCC	59.5	212	INTERGENIC	--	--	--
Ca2_P1_55390	Ca2	55390	GACACACACACACACA/GACACAC ACACACACACACA	GCACCGGGAGATACGT AAGA	TCACGGCTTCACAAA CAAG	60.1	798	INTERGENIC	--	--	--
Ca2_P1_5566169	Ca2	5566169	GAAAAAAAAA/GAAAAAAAAA	TGGGAGTATCCTTCAC TGCC	TTCGGATTTCTTCC CTTT	60.1	836	INTERGENIC	--	--	--
Ca2_P1_5620818	Ca2	5620818	ATTTTT/ATTTTT	TTCGATTGACATAAAA GACACAAA	TGTTTTAATTGAAGC ATGAGAAGTTG	59.9	526	INTERGENIC	--	--	--
Ca2_P1_5626731	Ca2	5626731	ATTTTTTTTT/ATTTTTTTTT	GAACCCAATATAGCCG CAAA	TTTGCTGCACAACCT CAAG	59.9	782	INTRON	Ca_14650	I	C3H
Ca2_P1_5656182	Ca2	5656182	AAA/AAATAA	CGCAAAACATTTCCAA ACCT	CAATCCCACAGGTAC GCTT	60.0	464	INTERGENIC	--	--	--
Ca2_P1_5674299	Ca2	5674299	TCTTTACTTTACTT/TCTTTACTTTACT TTACTT	ATTAGTCCACTGTGCT GGGG	GCTTCCAAATTGCTTG TTCC	60.0	815	INTRON	Ca_14646	O	FAR1
Ca2_P1_5753062	Ca2	5753062	ATCTCTCTCT/ATCTCTCT	TCATCTCGCAAGTCTA CCCA	AAAATTGGAATGTCAC ACACGTT	59.4	539	INTERGENIC	--	--	--
Ca2_P1_5818662	Ca2	5818662	TTCAT/TT	CGGTTGGAACGAAGA ATGT	CTGGTAGGCACGTT GATT	60.0	524	INTRON	Ca_19687	--	--
Ca2_P1_5860585	Ca2	5860585	TTATATATATATATATATATATATAT ATATAT/TTATATATATATATATATATAT ATATATATATATATATAT	TGGGTAGTTTTGGATA CCCC	CCCAAAAGGAAAAAG AAACAA	58.6	833	INTERGENIC	--	--	--
Ca2_P1_5969703	Ca2	5969703	CTATATATATATATATATATAT/CTA TATATATATATATATAT	TGTCGTCCGTCAATGG TCTA	AAAGTCGTCATTCCAA ACGG	60.1	446	INTERGENIC	--	--	--
Ca2_P1_5999646	Ca2	5999646	ATTTTTTTTT/ATTTTTTTTT	GGAGTGACATGCCACA TTTT	AAAAATAAATAGGGG CCAGAA	58.4	672	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected 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_P1_6026121	Ca2	6026121	AATATATATATATAT/AATATATATATA T	TACAAACATGGGCCAA GTGA	TGTGTGTTTGTCTGTT CGCA	60.0	325	INTERGENIC	--	--	--
Ca2_P1_6179167	Ca2	6179167	AATATATATATATATATATAT/AATATA TATATATATATATATATATATAT	TACACCTGGACAGAGA GGGC	GGAAATGTTGGCGAGT TGTT	60.3	928	INTERGENIC	--	--	--
Ca2_P1_6306996	Ca2	6306996	GTT/GT	CTGTTTCAGCTTTTTCG TCCC	CTCCCCACCCTTAAC TGGT	59.9	922	INTERGENIC	--	--	--
Ca2_P1_6317566	Ca2	6317566	GTATATATATATATATATATATATAT ATAT/GTATATATATATATATATATA TATATAT	CACCAAAATGATGACGA CGAC	ATTCACGTCGTTCTCG TTCC	60.0	324	INTERGENIC	--	--	--
Ca2_P1_6357510	Ca2	6357510	ATTTTTTTTT/ATTTTTTTTT	CGTAAATGTCCTCCAA TTCCA	GCAACAGTTTTTTCAAA TTTTCTG	59.8	529	INTERGENIC	--	--	--
Ca2_P1_6436294	Ca2	6436294	TTTATTATTATTATTATTATTATTATTA TTATTATTAT/TTTATTATTATTATTATT ATTATTATTATTATTATTATTAT	CCCCATCTCCCATTCC TTAT	TTTATGGGCATGAAAC CACTT	60.0	863	INTERGENIC	--	--	--
Ca2_P1_6489870	Ca2	6489870	AAATAATAATAATAATAATAAT/AA ATAATAATAATAATAATAAT	ATGGTCCAAGGAAATT GTGC	GTCTGAATGGGAAACT TGGC	59.8	369	INTERGENIC	--	--	--
Ca2_P1_6505178	Ca2	6505178	T/TAA	CGTAATAACGGCGAGG AAAA	TGAGCAGGGGAAGA GTAGA	60.1	548	INTERGENIC	--	--	--
Ca2_P1_6513260	Ca2	6513260	AAATAATAATAATAATAATAATAAT AATAAT/AAATAATAATAATAATAATAA TAATAATAAT	ATGGTCCAAGGAAATT GTGC	AGTCGTCGAGGCCAA ATCTA	59.8	265	INTERGENIC	--	--	--
Ca2_P1_6522206	Ca2	6522206	AT/ATT	GGAAGTGAAGGTCACG GTGT	TGAGCACGAATAATTG CAGC	60.0	593	DRR	Ca_20947	--	--
Ca2_P1_6638407	Ca2	6638407	GAATAACTGCATGTCTAATAACT/GAA TAAC	GGGACCGCAAGTGCTA TTTA	TAGGGCAAAAATTCAG GTGG	60.1	344	INTERGENIC	--	--	--
Ca2_P1_6640316	Ca2	6640316	TAAAAA/TAAAAA	ATGGCCACGAATCTGA AGAG	ACGGTTGTTTTGGCAT TGAT	60.2	890	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_6640452	Ca2	6640452	GAAAA/GAAAAA	AAAAAGTCTAGGT GGGA	ACGGTTGTTTGGCAT TGAT	59.8	473	INTERGENIC	--	--	--
Ca2_P1_6641737	Ca2	6641737	CATATAT/CATATATATAT	GTATTCAGGGCGAAG GAAT	AATGCAACGACAAAG GAGG	60.3	500	INTERGENIC	--	--	--
Ca2_P1_6641916	Ca2	6641916	TG/T	GTTCTATGGGACAGG GTCA	TATCAACTACCAGAGC GGGG	59.8	476	INTERGENIC	--	--	--
Ca2_P1_6642515	Ca2	6642515	TTATATATATATATATA/TTATATATATA TATATATA	CCCCGCTCTGGTAGTT GATA	ACCCACTTTGAGAAAC GTGC	60.1	479	INTERGENIC	--	--	--
Ca2_P1_6643765	Ca2	6643765	AT/ATT	ATGGAACAAGCAGCGA AGTT	GTTGATACGAGGGGG TTGAA	59.9	537	INTERGENIC	--	--	--
Ca2_P1_6643843	Ca2	6643843	CTTTTTTTTT/CTTTTTTTTT	ATGGAACAAGCAGCGA AGTT	GTTGATACGAGGGGG TTGAA	59.9	537	INTERGENIC	--	--	--
Ca2_P1_6647662	Ca2	6647662	GTTT/GTTT	GGCTACTGCTGTACGT AGCGA	AGTGAAACCAACGCCA AAAC	60.6	356	INTERGENIC	--	--	--
Ca2_P1_6648530	Ca2	6648530	TAAAAA/TAAAAAAA	TTATCGATCGTCGGTG TCAA	TTCCATATGCACCTCC CATT	60.1	612	INTERGENIC	--	--	--
Ca2_P1_6648980	Ca2	6648980	ATTTTTTTTT/ATTTTTTTTTT	AGCCTAATGGGAGGTG CATA	TATGAGGGGGTTGAAT TGGA	59.6	563	INTERGENIC	--	--	--
Ca2_P1_6656104	Ca2	6656104	CG/CGGG	GAGGACAAGGCCAATT TGAA	CCACCCACTTCGAGAA ACAT	60.1	955	INTERGENIC	--	--	--
Ca2_P1_6659290	Ca2	6659290	GTTT/GTTTT	TGTTTGACAAATGTTAA GTGCG	GGTGTGACTGGCCGT ATTTT	58.8	621	INTERGENIC	--	--	--
Ca2_P1_6680911	Ca2	6680911	AAATAATAATAAT/AAATAATAATAA AT	GAACGAAATGTGTTT TATGGC	GGCGTTGCCTACACTC AAAT	58.5	381	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_6714211	Ca2	6714211	AT/ATATATATATATATTT	CTCCATTGTTGGCATC CTTT	ACCGCAAGATGTGG TTTAC	59.9	860	INTERGENIC	--	--	--
Ca2_P1_6753713	Ca2	6753713	TTATATATATATATATATATATATAT/ TTATATATATATATATATATATATAT ATATATATAT	TGATGCCATGATATGA ATGCT	GGCCAAGAGAAGTTC GAGTG	59.0	415	INTERGENIC	--	--	--
Ca2_P1_6769002	Ca2	6769002	ACCCC/ACCC	TGACCCGTCGTGACTA CAAA	AGCGGTGATGCTTTCT CAAT	60.2	265	INTERGENIC	--	--	--
Ca2_P1_6772415	Ca2	6772415	TAAAAAAAAAAAAA/TAAAAAAAAAAAA AA	GGCTTTTCACTACAAG CCCA	TCGGCAATTATTGTT TCCA	60.2	153	INTERGENIC	--	--	--
Ca2_P1_6815005	Ca2	6815005	ATTATTTATTTATTTATTTATTTA/ATTA TTTATTTATTTATTTA	GAAATTTTAGGCGCAA CAGC	TCCAATCCCATTGTCC ACTT	59.9	703	INTERGENIC	--	--	--
Ca2_P1_6831436	Ca2	6831436	AC/A	CCTGTGACATGTTGCC TTTG	AAATGGGCTGAGTTTG AACA	60.2	360	INTERGENIC	--	--	--
Ca2_P1_6867609	Ca2	6867609	CAAAAAAAAA/CAAAAAAAAA	TAACCACATTGCAAGC CAAA	CAATCAAAATGCAACA GACACA	60.1	451	INTERGENIC	--	--	--
Ca2_P1_699070	Ca2	699070	ATTATTATT/ATTATTATCTTATTATT	CCGATTGTGCTTGAC TTTTGA	CTAATCCGCCCGACAA ATAA	60.1	412	INTERGENIC	--	--	--
Ca2_P1_700339	Ca2	700339	ATTTTTTTTT/ATTTTTTTTT	AAACTAGGTCAGAAAC CGATAGAA	CCAACACAAACCTAAA CCGA	57.7	896	INTERGENIC	--	--	--
Ca2_P1_7109849	Ca2	7109849	AATATATATATATAT/AAATATATA TATATATAT	CATCTTCGCAGGATGC ATTA	TTACCACTAAGGCGCG AACT	59.8	273	INTERGENIC	--	--	--
Ca2_P1_7144237	Ca2	7144237	A/AG	GGACCGGAATCATAAT GCAA	TTTTTCCGTAAAAGTC CCCC	60.7	743	INTERGENIC	--	--	--
Ca2_P1_7171869	Ca2	7171869	TTAT/TT	CGGCCATTAAATTTCT GACA	TTGCATTATGTTTCTG GCAAA	58.6	320	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_7171912	Ca2	7171912	TATTTAATTTAATTTAATT/TATTTAATT TAATT	CGGCCATTAAATTTCT GACA	TCATTTCATAACGAGT GACCCA	58.6	584	INTERGENIC	--	--	--
Ca2_P1_7172121	Ca2	7172121	CTATATATATATAT/CTATATATATAT	TTTGCCAGAAACATAAT GCAA	TCATTTCATAACGAGT GACCCA	59.2	285	INTERGENIC	--	--	--
Ca2_P1_7172172	Ca2	7172172	ATTTTTTTTT/ATTTTTTTTTT	TTTGCCAGAAACATAAT GCAA	TTTTGGAAAAATGAAG GACCA	59.2	774	INTERGENIC	--	--	--
Ca2_P1_7173102	Ca2	7173102	GAAAAA/GAAAAA	CTCAATCCAAACACAC GCTT	AATGACCACCTCTTGT TGCC	58.8	787	INTERGENIC	--	--	--
Ca2_P1_7276294	Ca2	7276294	CAAAA/CAAAA	TCCACCACAATCGTTA AGCA	AGCGGAGATTTTACCG GATT	60.1	676	INTERGENIC	--	--	--
Ca2_P1_7302005	Ca2	7302005	TTATATATATATATATATA/TTATATA TATATATATATATATA	TGTAGCAAAACGTGCA GACC	GGATATTTTGTCTCT CGCAA	59.9	159	INTERGENIC	--	--	--
Ca2_P1_7380468	Ca2	7380468	AATATATATATATATATATA/AATAT ATATATATATATATATA	ATGGTGTTGCTTGGA GGAC	ATGTGGAAGCAAATG GGAA	60.0	305	INTERGENIC	--	--	--
Ca2_P1_7464860	Ca2	7464860	GACTTAGT/G	GCTGATGCATGAGGAA ATACC	AAAAGCCACGTCATCC AAAG	59.5	448	INTERGENIC	--	--	--
Ca2_P1_7531659	Ca2	7531659	ATTTTTTT/ATTTTTTTT	TCCATAACCGGATCCA AATC	CGTATGGAACAACTCC CGAT	59.6	730	INTERGENIC	--	--	--
Ca2_P1_7535934	Ca2	7535934	TAAAAAAAAA/TAAAAAAAAA	AACCGGACATTTTGT GGAG	TGCACAAATGGTGGA AAAA	59.8	626	INTERGENIC	--	--	--
Ca2_P1_753916	Ca2	753916	CTTTTTTTTT/CTTTTTTTTT	TTGCCCATTAACTTTAC CCG	ACTTGTGCATTTGCAT TAGTTC	59.8	555	DRR	Ca_17000	--	ARF
Ca2_P1_7540916	Ca2	7540916	TATAGTAATAAATAGTAATAAT/TATA GTAATAAAT	AATATTCGAACCTCCC ACCC	TTAATCGTCCAACCTCC CACC	60.0	890	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_7555681	Ca2	7555681	GTTTTTTTTTTT/GTTTTTTTTT	AATTTTCGTTTCATCG GAGA	AATCACACAGACACC GAGA	60.6	178	INTERGENIC	--	--	--
Ca2_P1_7572211	Ca2	7572211	TTATATATATATATATATATATATAT ATATATATATATAT/TTATATATATATAT ATATATATATATATATATATAT	ATCTATCATGCAAAGGCCCA	TCGAACCTAAGAATGCCCTT	60.4	347	DRR	Ca_18115	D	LBD
Ca2_P1_7592333	Ca2	7592333	AATATATATATATATATATATATATA TA/AATATATATATATATATATATATAT ATATATATATA	CCAATTGTTCCTTTGCTCT	CCAAAGAAAGACAATCCAAATG	60.1	778	INTERGENIC	--	--	--
Ca2_P1_7610276	Ca2	7610276	T/TTGTA CTGTG	CGCTTCGTGATTGTAA GCAA	TTCTCTCTCTCGCAT TTCC	60.0	386	INTERGENIC	--	--	--
Ca2_P1_7617731	Ca2	7617731	CTAAAAATAAAA/CTAAAAATAAAA TAAAAATAAAAATAAAA	CCAAGATCTCGTAGTG CAACA	TGGGTTTAGTCCGTTT TTCTTC	58.9	468	INTERGENIC	--	--	--
Ca2_P1_7620237	Ca2	7620237	ATT/ATTGTT GTTGTGTTGTT	CCTTGC GTGAGTTTGA CGTA	TGGTGAATTTATGCCG ATGA	59.9	463	INTERGENIC	--	--	--
Ca2_P1_7654401	Ca2	7654401	ATTA AACTT AAA/ATTA AACTT AA ACTT AAA	CATGGGATGCAGTTT AGCA	GGTATGTCAGGAAGG AACGG	59.7	590	INTERGENIC	--	--	--
Ca2_P1_7655014	Ca2	7655014	AA/AAATA	CCGTT CCTT CCGT GACA TACC	GCAAAATTGGCTTCTT ACGG	59.4	516	INTERGENIC	--	--	--
Ca2_P1_7655513	Ca2	7655513	GTTTTTTTTTTT/GTTTTTTTTT	CCCACA TAGC ACCAC TC TTG	TCAAGTT GAAG CATCA TG GTC	60.6	596	INTERGENIC	--	--	--
Ca2_P1_7657147	Ca2	7657147	CTTTTT/CTTTTTT	TTATGTGGGG ATT TGGATG	TTCCACGTCTTTTCA TTCC	60.4	705	INTERGENIC	--	--	--
Ca2_P1_7658403	Ca2	7658403	CAAAA/CAA	TTGACTCTGCCACGTC ACAT	AAAACCACTTGTCCT CCCT	60.3	434	DRR	Ca_18120	--	--
Ca2_P1_7658826	Ca2	7658826	ATTTT/ATTTT	TTCGT CATGCACCAA TCAT	CAGCTTGTCGTCGTT AAAT	59.9	360	DRR	Ca_18120	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected 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_P1_7667610	Ca2	7667610	TAAAAAAAA/TAAAAAAAA	CCTTACCTAAAGGGCG GTTC	CTCTGGCCGGTGTAA TTGT	60.0	512	INTERGENIC	--	--	--
Ca2_P1_7668820	Ca2	7668820	GTTATTATTATTATTAT/GTTATTA TTATTAT	CCAACACAAGCACCA CATC	CACTGATGAAGAGGC GAACA	60.0	725	INTERGENIC	--	--	--
Ca2_P1_7671677	Ca2	7671677	ATGATT/A	TACACCCACCATGGGA ATCT	ACCCCATACCTCC ATTA	60.1	227	INTERGENIC	--	--	--
Ca2_P1_7672516	Ca2	7672516	CGG/CG	TGCAAAAGTTTTTGTG GCA	CCATTGCAATTCTTGA AGTCAG	60.3	437	INTERGENIC	--	--	--
Ca2_P1_7675590	Ca2	7675590	TAAAAAAAA/TAAAAAAAA	ACTCCGGATTGGAGA AAGG	AAAATGAGTTTACATT CACGGTACA	60.4	882	INTERGENIC	--	--	--
Ca2_P1_7676116	Ca2	7676116	TTTTTTATTTTATTTTAT/TTTTTAT TTTTATTTTATTTTAT	TGTACCGTGAATGTAA ACTCATT	TGGCATTGACACCTTC ATTA	57.7	263	INTERGENIC	--	--	--
Ca2_P1_7676173	Ca2	7676173	TAAAAAAAA/TAAAAAAAA	TGTACCGTGAATGTAA ACTCATT	TGGCATTGACACCTTC ATTA	57.7	263	INTERGENIC	--	--	--
Ca2_P1_7679286	Ca2	7679286	AA/AAGACCAATTCA	TCACGATGGAATCGA ATGA	ATAAATCCTCGGGTTG TCCC	60.0	628	INTRON	Ca_18121	R	ERF
Ca2_P1_7680326	Ca2	7680326	AG/A	TCCGCTGCTTCTGGAG TTAT	AGCAAAGAAAGCCAAT GGAA	60.0	732	INTRON	Ca_18121	R	ERF
Ca2_P1_7680341	Ca2	7680341	ATTTTTTT/ATTTTTTT	TCCGCTGCTTCTGGAG TTAT	AGCAAAGAAAGCCAAT GGAA	60.0	732	INTRON	Ca_18121	R	ERF
Ca2_P1_7681881	Ca2	7681881	TAAAA/TAAAA	GAAAAAGAGCCACGGT GGTA	GCGAGAAAAGATTGT TGAGAA	60.1	383	INTRON	Ca_18121	R	ERF
Ca2_P1_7682063	Ca2	7682063	CTTTTTT/CTTTTTT	GAAAAAGAGCCACGGT GGTA	TTTCCAGCTCCAAGCT CATT	60.1	643	INTRON	Ca_18121	R	ERF

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected 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_P1_7684165	Ca2	7684165	CAAAAAAAAA/CAAAAAAAAA	TGTGAAGAGCACTGGG AAGA	GGTGCGCCTTTTACAA TGTT	59.5	755	DRR	Ca_18121	R	ERF
Ca2_P1_7684658	Ca2	7684658	CAA/CAAA	GCGCTTTTGGGTGTAC ATTT	GGGAAATAGCATGTTG TGGG	60.0	553	DRR	Ca_18122	--	--
Ca2_P1_7684720	Ca2	7684720	ATTTTTTTT/ATTTTTTTT	GCGCTTTTGGGTGTAC ATTT	GGGAAATAGCATGTTG TGGG	60.0	553	DRR	Ca_18122	--	--
Ca2_P1_7695766	Ca2	7695766	TG/T	GGCGGGACAATTATTT TGAA	CCATATAGGAAGTACG AGTACGTGA	59.8	401	INTERGENIC	--	--	--
Ca2_P1_7697412	Ca2	7697412	CAAAAAAAAA/CAAAAAAAAA	GGTTAAACGTCATGTT TCGAATTT	TCACTGCAACAACCAC AACA	60.5	590	INTERGENIC	--	--	--
Ca2_P1_7699107	Ca2	7699107	TAAAAAAAA/TAAAAAAAA	CCAAAAATTGTGGAGA TTTGG	GCTGATGATGCCTCCA TTTT	59.3	846	INTERGENIC	--	--	--
Ca2_P1_7699126	Ca2	7699126	TAAAAAAAA/TAAAAAAAA	CCAAAAATTGTGGAGA TTTGG	GCTGATGATGCCTCCA TTTT	59.3	846	INTERGENIC	--	--	--
Ca2_P1_7703622	Ca2	7703622	GATAA/GA	ATTCGTTGTGACTGGG AAGG	CTTGCCCGACTTTGGA AGTA	60.0	546	DRR	Ca_18123	R	ERF
Ca2_P1_7703919	Ca2	7703919	AAATAAAATAAAATA/AAATAAAAT A	TCTCTTTTATTGGGCG ATGG	AGATGTAAGGGGTGT GGAAAA	59.9	910	DRR	Ca_18123	R	ERF
Ca2_P1_7705481	Ca2	7705481	AATTGTGA/AA	ATTCCTGCGGTACAAC CATC	GGTGTGTTGTGAAATG GGTC	59.8	897	INTERGENIC	--	--	--
Ca2_P1_7706169	Ca2	7706169	CTTTTTTTTTT/CTTTTTTTTTT	GACCCATTTCACAAA CACC	GCAGGAAAAGCAAAT AGGC	60.1	288	INTERGENIC	--	--	--
Ca2_P1_7706488	Ca2	7706488	AAAAATAATTAAATAAT/AAAAATA ATTAAATAATTAAATAAT	GCCTATTTTGCTTTTCC TGC	TCATCCACTTCTTGC CTGT	59.0	689	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_7707861	Ca2	7707861	AT/ATT	TTTAAATCGGTTATGC GGG	CTTTTAGGAGGTCCCA AGGC	59.8	469	INTERGENIC	--	--	--
Ca2_P1_7707926	Ca2	7707926	T/TA	GCCTTGGGACCTCCTA AAAG	GTTCTTGAGAAGCTCC GCC	60.1	454	INTERGENIC	--	--	--
Ca2_P1_7708059	Ca2	7708059	ATTTTTTT/ATTTTTTT	GCCTTGGGACCTCCTA AAAG	AGAGGGAGAGAGGAA GGCTG	60.1	638	INTERGENIC	--	--	--
Ca2_P1_7709881	Ca2	7709881	TAAAAAAA/TAAAAAAA	TGACACATGCAAAACA CCCT	AGAAGCACGAAGATAT GCACTT	60.0	619	INTERGENIC	--	--	--
Ca2_P1_7714111	Ca2	7714111	CT/CTT	CTCACTCGATCGATGG TTCA	TGACAATGCTGGCTGT TAGC	59.8	588	INTERGENIC	--	--	--
Ca2_P1_7716515	Ca2	7716515	TA/TACCTGA	ATGGGCTTTAAATGTG GCAG	ACCCCGTTTGGCTTCT ATTT	60.0	105	DRR	Ca_18124	--	--
Ca2_P1_7718496	Ca2	7718496	C/CT	CCTGCCCACTCTTA GCTT	TGGGATGCTACCTCCT ATGG	59.5	511	INTERGENIC	--	--	--
Ca2_P1_7718955	Ca2	7718955	TGAAA/T	GAGCTTCATTGAAATC GGGA	TCATATAGGAGGTCGC ACCC	60.2	821	INTERGENIC	--	--	--
Ca2_P1_7720508	Ca2	7720508	TAAA/TAA	TAATCCGCCTAAATGG ATGC	CTCCCATAGGATGAAG GGGT	59.9	530	INTERGENIC	--	--	--
Ca2_P1_7720908	Ca2	7720908	AAT/A	TTCACCCCTTCATCCT ATGG	TCCAAATGTTTGTGAT TGTGC	59.7	490	INTERGENIC	--	--	--
Ca2_P1_7721082	Ca2	7721082	TAAAAAAA/TAAAAAAA	TTCACCCCTTCATCCT ATGG	CATACCATTTGGTGGG TTTG	59.7	671	INTERGENIC	--	--	--
Ca2_P1_7722723	Ca2	7722723	ATTTTTTT/ATTTTTTT	AAAGCAGTGCCTTCG GAGA	TCCTACCTTTTGGCT TAAAAA	60.0	408	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_7723559	Ca2	7723559	TAAAAAAAA/TAAAAAAAA	CGTGTCTTATAAAAT GCGGTT	TTTGCAAGCCAAGCAC ATAC	59.5	558	INTERGENIC	--	--	--
Ca2_P1_7724864	Ca2	7724864	TA/TAAAGAGATTGAGA	ACCAGAGACACTGCAG CAAA	AACAAGATTCTCGAAT GCTCC	59.6	464	INTERGENIC	--	--	--
Ca2_P1_7725038	Ca2	7725038	ATTTT/ATTT	ACCAGAGACACTGCAG CAAA	AGCCATTTGAGACTGT GCAA	59.6	789	INTERGENIC	--	--	--
Ca2_P1_7727178	Ca2	7727178	TAAAAAAAA/TAAAAAAAA	ATTGCACTGTCTCCTC GCTT	CAATGCACCCCTTACT GCTT	60.0	527	INTERGENIC	--	--	--
Ca2_P1_7727585	Ca2	7727585	GAAAAA/GAAAAA	CTTGCAAAAGCAGTAA GGGG	CCTGCAATCCCTGAA TGAAG	59.9	831	INTERGENIC	--	--	--
Ca2_P1_7728939	Ca2	7728939	ATTTTT/ATTTTT	TCTCATGCTGCAACAG GTTC	AATGCACCCCTTCTTC CTTT	60.0	385	INTERGENIC	--	--	--
Ca2_P1_7731377	Ca2	7731377	GAAAA/GAA	GTGGTTGTGATGTTGA ACGC	CTCCCGCTAACTCCTC TTCC	60.0	697	INTERGENIC	--	--	--
Ca2_P1_7737212	Ca2	7737212	ATTATATAATTTATATAATT/ATTATAT AATT	CTTCCAGTTTTGGTCT CCCA	GTTTGCAAAAGGGATG AGGA	60.1	542	INTERGENIC	--	--	--
Ca2_P1_7737860	Ca2	7737860	TTCT/TT	TTGCCCTTTTACCCATT GTC	AAAAATCTCATTCCAC CACTCA	59.8	319	INTERGENIC	--	--	--
Ca2_P1_7738853	Ca2	7738853	TTGT/TT	GGTCTACGGCAACGT CAAT	GAGACAAAAGTGAAC ACATTGC	60.0	183	INTERGENIC	--	--	--
Ca2_P1_7739214	Ca2	7739214	AACTACTTA/AACTTA	GGTCTACGGCAACGT CAAT	TTACGCGTGTCATTTT CTCG	60.0	790	INTERGENIC	--	--	--
Ca2_P1_7743405	Ca2	7743405	CG/C	ATCCATCATGTTTCATG CCCT	ATCTCCACCCGTTCTC TTGA	60.2	579	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_7743611	Ca2	7743611	G/GTT	TCTTTGAACCCAAGAC ACGA	TTTGGTTTGATTGAT TGGA	59.3	393	INTERGENIC	--	--	--
Ca2_P1_7743661	Ca2	7743661	AATC/AATCGATC	TCAAGAGAACGGGTGG AGAT	GATTCAAAATGTGAGC GCAA	59.7	530	INTERGENIC	--	--	--
Ca2_P1_7745257	Ca2	7745257	CAAAA/CAAAAAA	TGGCATGACATGAATG AAGAA	GAGCAATTTGTGTGGA CCCT	60.1	760	INTERGENIC	--	--	--
Ca2_P1_7747929	Ca2	7747929	TAAAAAAA/TAAAAAA	TGGTGAAATGCTGCAG AAAA	CTCAACTTGTGCGATGC CTCA	60.4	147	INTERGENIC	--	--	--
Ca2_P1_7749962	Ca2	7749962	TT/TTAT	GGAGCTGCAACCATCT TCTC	TGGATTGGGCTGAAT TAGG	60.0	321	INTERGENIC	--	--	--
Ca2_P1_7751325	Ca2	7751325	GTTTTTTTTT/GTTTTTTTTTTTTT T	TGTCCACTTGAGCTTG CAAAT	ACCTCAATGCTTCCA CACC	60.8	698	INTRON	Ca_18125	--	MYB_related
Ca2_P1_7753009	Ca2	7753009	A/AC	AAGTGGCGAAGCTTGT TGAT	AGCTTGCCATTGCAGC TACT	59.9	797	INTRON	Ca_18125	--	MYB_related
Ca2_P1_7753358	Ca2	7753358	C/CAAT	CGGAGGTTTGGTGTA ACTGA	AGCTTGCCATTGCAGC TACT	60.0	447	INTRON	Ca_18125	--	MYB_related
Ca2_P1_7756359	Ca2	7756359	CAAA/CAAAA	AACCAGCATGTGTTGT TGGA	TGTGGTGGGGGAATT AAAAA	60.0	399	INTERGENIC	--	--	--
Ca2_P1_7771490	Ca2	7771490	ATTTTTTTTT/ATTTTTTTTTTT	ACCATTATTATTTTCG TGTTAATGA	GGTACCATGGATGATA TTTAGCC	57.3	188	INTERGENIC	--	--	--
Ca2_P1_7772671	Ca2	7772671	AAAAAATAAAAA/AAAAA	CAATTGGTGCCGTTA TTTT	TGCCCTAAGGGGAATA AGCTA	59.7	750	INTERGENIC	--	--	--
Ca2_P1_7772892	Ca2	7772892	ATTTT/ATTT	CAATTGGTGCCGTTA TTTT	TTGGGGGAAGAAAATT GAGA	59.7	958	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_7773243	Ca2	7773243	T/TC	GCTGAGCCCAACAAG CTAA	TTGGGGGAAGAAAATT GAGA	60.5	198	INTERGENIC	--	--	--
Ca2_P1_7773617	Ca2	7773617	TTAAATAAAAT/TTAAATAAAATAATA AAAT	GCTGAGCCCAACAAG CTAA	CCACTGTGGAAGGTA AATGC	60.5	845	INTERGENIC	--	--	--
Ca2_P1_7778320	Ca2	7778320	ATT/ATTT	AGACCTCTTACTGTGC GCGT	TGCACTTTTGGTCCCT CAAT	60.1	321	INTERGENIC	--	--	--
Ca2_P1_7780730	Ca2	7780730	ATTTTTTTTTT/ATTTTTTTTTT	TTGTCTCCATCTCCAG CCTT	TGTTGTTGAGTTGGG ACACA	59.8	995	INTERGENIC	--	--	--
Ca2_P1_7782164	Ca2	7782164	AG/A	TCATTTCAATCCCCCAT CAT	TTTGATGCTATGCGAA GGAG	60.0	388	INTERGENIC	--	--	--
Ca2_P1_7786133	Ca2	7786133	AC/A	GCTCCTTTGGTGTATC GCTC	CATTCCATTCCATGTT GCAC	59.8	369	INTERGENIC	--	--	--
Ca2_P1_7788989	Ca2	7788989	TC/T	GCTCTTTACGTTTGC CAGC	TGTTTTAGATTGTCTT CTATTTTACGG	60.0	566	INTERGENIC	--	--	--
Ca2_P1_7789494	Ca2	7789494	TAAAAA/TAAAAA	ACATGAACATGTTAAT TTTCTGAAC	ACCAATTGGCCAATC TCAC	57.7	580	INTERGENIC	--	--	--
Ca2_P1_7790064	Ca2	7790064	CA/CATGTTA	AGAGTTGGCCAATTGG TTTG	GAATGTCAAGCATTGT GAAGGA	60.0	467	INTERGENIC	--	--	--
Ca2_P1_7792884	Ca2	7792884	TTC/T	ATGAGCAACTTCGGGT TGAC	CTAGTTCCTCGTTGGA GGGG	60.1	478	INTERGENIC	--	--	--
Ca2_P1_7793040	Ca2	7793040	A/AT	CAGTGCCCTGAACCA TTGA	GGGCCCATATATAAG TGATAAAC	59.9	465	INTERGENIC	--	--	--
Ca2_P1_7793102	Ca2	7793102	TAAAAA/TAAAAA	CAGTGCCCTGAACCA TTGA	AAACTTTACGTTAGA ATGGATTGC	59.9	944	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_7793328	Ca2	7793328	GAAAAA/GAAAA	ATATCCCCTCCAACGA GGAA	TTTATTGCGGTTTCCC TTCA	60.7	877	INTERGENIC	--	--	--
Ca2_P1_7795001	Ca2	7795001	ATA/ATAAATTTTAAAAATTA	TATATGCATGGCTTGC CAAA	TTGTTCTGCGGTTTC TTTT	60.1	440	INTERGENIC	--	--	--
Ca2_P1_7796926	Ca2	7796926	T/TC	GGGGACTCCAAGACTT CACA	GCCCGTACTCAGTTCT TGCT	60.1	699	INTERGENIC	--	--	--
Ca2_P1_7798797	Ca2	7798797	TTTTCTTT/TTTT	GGAACAACGGATTCTG TCCA	TGGTCTCGGTCACTAT TTAAGTTTT	60.9	603	INTERGENIC	--	--	--
Ca2_P1_7799040	Ca2	7799040	CTAGT/CT	CGAACCAACGATTATC ACTAACA	TGTTGTGTTTGTGTAG CCACC	59.1	848	INTERGENIC	--	--	--
Ca2_P1_7800945	Ca2	7800945	TT/TGTTATTAT	GGGTAAAAAGGGATT TCCA	CCCTTTTCATTCTTCA CAGGA	60.0	611	DRR	Ca_18127	--	ERF
Ca2_P1_7806065	Ca2	7806065	TAAAAAAAA/TAAAAAAAA	TGCTCTTCATGTGAGA TGGTG	TCACCGGAGTTTAATG CAAA	59.8	805	INTERGENIC	--	--	--
Ca2_P1_7806316	Ca2	7806316	CTATTTATTTATTTATTT/CTATTTATTT ATTT	TCACAGGCACTTTATTT TAGTGG	TCACCGGAGTTTAATG CAAA	58.4	206	INTERGENIC	--	--	--
Ca2_P1_7811963	Ca2	7811963	CAAAAAAAAA/CAAAAAAAAA	ACTAACTCGGTGGGGA ACAA	TCCCTTGTTCTTGCTG TGAA	59.4	330	INTERGENIC	--	--	--
Ca2_P1_7815016	Ca2	7815016	TAATAACAAATAACAAA/TAATAACAAA TAACAAATAACAAA	TTTTACCAACACCGT CAAA	AAATAATCGTGGCCTT GCAC	60.0	901	INTERGENIC	--	--	--
Ca2_P1_7816834	Ca2	7816834	TAAAAAAAA/TAAAAAAAA	TCAATTGAAAACCAAA AGTTGA	TCAACGGGAAAGATT TCTATTTT	59.5	657	INTERGENIC	--	--	--
Ca2_P1_7817769	Ca2	7817769	TTATGATATATAT/TTAT	TGGACATAGAAAAACC AAATGGA	ATGTGGAAGTTGAACC CCAA	60.6	598	DRR	Ca_18128	QR	B3

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected 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_P1_7822688	Ca2	7822688	AC/A	CGAAACATCAAGCTCC ACAA	AGGATTCTTCCTGAGG CGTT	59.8	445	INTRON	Ca_18129	R	CPP
Ca2_P1_7823811	Ca2	7823811	AT/A	GAAAGTTTTGCCACCA ATTCA	TGCTTTTGAAAACGAC ACCA	60.0	309	INTERGENIC	--	--	--
Ca2_P1_7824116	Ca2	7824116	T/TG	TGTCTCGTGGATCTGG TTTG	TGACTTTGTGTCGGAA TTTG	59.7	258	INTERGENIC	--	--	--
Ca2_P1_7836957	Ca2	7836957	T/TC	TGGGCCCTAAACTTTC TCAA	CGGATGAACGTGGCTT TATT	59.7	156	INTERGENIC	--	--	--
Ca2_P1_7855224	Ca2	7855224	TGCGGTGGTGTGAATAGCGGTGGTG TGAATAGCGGTG/TGCGGTGGTGTGA ATAGCGGTG	AGCATGTGGATTGTTG TGGA	TTACTACTCCCACCTC CCCC	60.0	192	CDS (large-effect mutations)	Ca_18131	U	--
Ca2_P1_7881274	Ca2	7881274	GTAT/GTATCGTTAT	GCCACTCCAACACCAA TTTC	TGGAGACCACATGGA GATGA	60.4	423	INTERGENIC	--	--	--
Ca2_P1_7881305	Ca2	7881305	TTAT/TT	GCCACTCCAACACCAA TTTC	TGGAGACCACATGGA GATGA	60.4	423	DRR	Ca_18136	--	--
Ca2_P1_7881740	Ca2	7881740	ATATTCC/ATATTCCTATTCC	TCATCTCCATGTGGTC TCCA	TGCAAATGACCACCCA CTTA	60.0	642	DRR	Ca_18136	--	--
Ca2_P1_7887346	Ca2	7887346	AATAT/AATATAT	GTGCAGAGGAGCAAAA GGAC	TGGAATTTGAGACATG TCAACC	60.0	889	DRR	Ca_18137	E	--
Ca2_P1_7887518	Ca2	7887518	ATTTTTTT/ATTTTTTTT	AAGCAAAATACATCTC GAAGTTCT	TCCCAAGAAAAGCTTC AACC	57.8	550	DRR	Ca_18137	E	--
Ca2_P1_7887647	Ca2	7887647	CAACATA/C	AAGCAAAATACATCTC GAAGTTCT	TCCCAAGAAAAGCTTC AACC	57.8	550	DRR	Ca_18137	E	--
Ca2_P1_7893168	Ca2	7893168	CTATA/CTA	AAACAAATTCGCGGTG CTAC	CGAACGGTGTCATGAT TTGA	60.1	525	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_7894741	Ca2	7894741	TA/TAA	GTCATGGTTGTAGCAT CCCC	GATGGGGATGGAAGA TGAAA	60.2	639	INTERGENIC	--	--	--
Ca2_P1_7894801	Ca2	7894801	TTTGCAATTGCA/TTTGCA	GTCATGGTTGTAGCAT CCCC	GATGGGGATGGAAGA TGAAA	60.2	639	INTERGENIC	--	--	--
Ca2_P1_7899504	Ca2	7899504	TTTCGAAGGTTTCAAATGTTCAAGG TTT/TTTCGAAGGTTTCAAATGTTTCA AGGTTTCAAATGTTTCAAGGTTT	AAGGCCAAACTTCCAA ACCT	TGGATTGTGGGTTTGA CTCC	60.0	604	INTERGENIC	--	--	--
Ca2_P1_7916006	Ca2	7916006	A/AC	CTCATTTGCATCCGAT TGGT	TATCGAAAGTTTCCGC GTTT	60.9	525	INTERGENIC	--	--	--
Ca2_P1_7917956	Ca2	7917956	ATT/ATTGAATTT	GTCGGAGATCCACAA AAGA	TGGAACCAATCTTCG TTGA	60.1	884	INTERGENIC	--	--	--
Ca2_P1_7919145	Ca2	7919145	CAA/CAAA	CGTGACCGTACCAACA ATGA	ATTGTGAGACGGATGA AGCA	60.4	460	INTRON	Ca_18141	--	bHLH
Ca2_P1_7922625	Ca2	7922625	TAA/TA	GAAGCATCACTAGGTG GGGA	CAACCAAAACCATTC AAAAC	60.1	369	DRR	Ca_18141	--	bHLH
Ca2_P1_7923182	Ca2	7923182	TGAGAG/TGAG	AAAAGAAATCTCCCTAT GATGCC	CGTAATTGCTCAATGG TGGA	59.8	103	DRR	Ca_18141	--	bHLH
Ca2_P1_7924174	Ca2	7924174	AT/A	ATGCACCCACCAATGA AAAT	TGTTGAGTTTTGCCG CTAT	60.1	401	DRR	Ca_18141	--	bHLH
Ca2_P1_7925944	Ca2	7925944	TATGAATGAAT/TATGAATGAATGAAT	TCATGCTCCACACGAT GTTT	CTTATCCCTTCACTTC GCCA	60.1	628	INTRON	Ca_18142	U	--
Ca2_P1_7927251	Ca2	7927251	C/CT	GTATTCGTTCCCAAG CTTA	CAATGACCCATCAGG AGGT	60.0	563	INTRON	Ca_18142	U	--
Ca2_P1_7932313	Ca2	7932313	ATTTTTTTT/ATTTTTTT	ATTTTCTTTGACGGAC GGAA	GGAGAAATTTGCCAAA GGAA	59.5	596	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_7933550	Ca2	7933550	TAAAAAAAA/TAAAAAAAA	TTCCTTAAGCGTGCTT GTCA	CCAAAATAACCCACAA TCGG	59.6	539	INTERGENIC	--	--	--
Ca2_P1_7933926	Ca2	7933926	ATT/AT	TTCCTTAAGCGTGCTT GTCA	CCAAAATAACCCACAA TCGG	59.6	539	INTERGENIC	--	--	--
Ca2_P1_7934318	Ca2	7934318	T/TG	CCGATTGTGGGTATT TTGG	TCAGCTTTTGCCTTC AAAT	60.0	401	INTERGENIC	--	--	--
Ca2_P1_7935850	Ca2	7935850	TAATTA/TAATTAAATTA	GTTGGTAGATTGGGA GGCA	TCGAACCTGCATTGCC ATAA	59.9	511	DRR	Ca_18144	--	--
Ca2_P1_7938788	Ca2	7938788	AA/AACA	TGATCAAATAATTGAAA CAAGCG	GCCGTATTGGGAGAA GATGA	59.2	589	INTRON	Ca_18144	--	--
Ca2_P1_7940136	Ca2	7940136	ATTTTTTT/ATTTTTTT	TCTTGACCGTTAGATT GAACCA	CAAAATGGACAAATT GGAGC	59.6	714	INTERGENIC	--	--	--
Ca2_P1_7948944	Ca2	7948944	TTA/T	TTCCTTAGTGCCCATG GTTT	CGTGCTTGCAACAAA TGCT	59.4	916	INTERGENIC	--	--	--
Ca2_P1_8001528	Ca2	8001528	ATTTTTTTTT/ATTTTTTT	TGTTATTGCTTTGCAA GCGT	AGAGTGAGAAGCCACT CCGA	59.5	635	INTERGENIC	--	--	--
Ca2_P1_8166930	Ca2	8166930	AAATAATAATAATAATAATAAT /AAATAATAATAATAATAATAAT TAATAAT	CCTAGGGATGCGACCA TCTA	TCCTCCTCTTTGGCA CATT	60.1	385	INTERGENIC	--	--	--
Ca2_P1_8180532	Ca2	8180532	CATAATAATAATAATAATAATA ATAATAATAATAATAATAATAAT AATAATAATAATAATAATAATA ATAATAATAATAATAATA	GCCATGACTCTGAACC ACCT	CATTTTTTCATTTGCCAA CCC	60.1	805	INTERGENIC	--	--	--
Ca2_P1_8299859	Ca2	8299859	TTATATATATATATAT/TTATATAT ATATATATAT	CCTCCCTCCCTCTCTT CATC	TAAGCAGACGTCCCAC ACAC	60.1	757	INTERGENIC	--	--	--
Ca2_P1_8332435	Ca2	8332435	GTTATTATTATTATTATTATTATTA TTATTATTATTATT/GTTATTATTATT TATTATTATTATTATTATTATT ATT	CTACGGAGGATGGAAC TGGA	TTTGGTGATCTGGGGA GAAG	60.1	734	INTRON	Ca_21468	TU	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_833993	Ca2	833993	TAATAAAATAAAATAAAATA/TA ATAAAATAAAATA	TTGCATCATGGTTATG CGAC	CATAGCCTCGTACATG CAACA	60.5	490	INTERGENIC	--	--	--
Ca2_P1_8343398	Ca2	8343398	AATATATATATATAT/AATATATATATA TATAT	CCAGTGTTTGACCTCC AAGC	TTTGCAACAACGCGAA ATAG	60.7	743	INTERGENIC	--	--	--
Ca2_P1_8344698	Ca2	8344698	AC/A	AGTGAAGGAGAAATGG GGCT	TCAGACCTTGTCTTGA CCCC	60.1	874	INTRON	Ca_21467	U	C2H2
Ca2_P1_8374636	Ca2	8374636	AATATATATATATATATATATAT/AATA TATATATATATATATATATAT	AAAGGGACAATGAAGG CAAG	TTGAAATGTGATGTT TCTTCCA	59.2	636	INTERGENIC	--	--	--
Ca2_P1_8401872	Ca2	8401872	CTTTT/CTTTTT	AAGATCCCCTTTCCAT GTCA	GAACTTCCACCAGACC ATCC	59.3	470	DRR	Ca_21459	--	WRKY
Ca2_P1_8420270	Ca2	8420270	AACA/AACACA	CCAAGTTTGAAATGCC GATT	GCTGCATGATCTTATG CTCG	59.9	451	INTERGENIC	--	--	--
Ca2_P1_8425795	Ca2	8425795	TTATATATATATATATATATATATATAT ATATAT/TTATATATATATATATATATAT ATATATATATATATATATAT	CGTGTGAGAAAACCTC GACA	AATCCAAGTTCCAAT GGGC	59.9	472	INTERGENIC	--	--	--
Ca2_P1_8462463	Ca2	8462463	AATATATA/AATATA	CCTACGTACGGGAATG GAGA	CTATTAGCGTTGGCTC TCGG	59.9	666	INTERGENIC	--	--	--
Ca2_P1_8478800	Ca2	8478800	AATTT/ATT	CCCGTATGAATGAACG GAAC	CTACCCCCACATTTC ATCG	60.2	519	INTERGENIC	--	--	--
Ca2_P1_8478910	Ca2	8478910	ACT/A	CCCGTATGAATGAACG GAAC	CTACCCCCACATTTC ATCG	60.2	519	INTERGENIC	--	--	--
Ca2_P1_8480032	Ca2	8480032	TTAT/TT	AAGAAAGCACTCAAAG CCCA	TGCGCATTGTATTTT CAGG	60.0	716	INTERGENIC	--	--	--
Ca2_P1_8597078	Ca2	8597078	CCT/C	TCACGTTTTGAATTTG CGA	GACCCATCCATGTGGA GTTT	60.2	514	DRR	Ca_22316	A	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_8708914	Ca2	8708914	ATTTTTTTT/ATTTTTTTT	GCCACACCGAAGAA TAAA	TTCATTTTGTCCATC ACTTTC	59.9	714	INTERGENIC	--	--	--
Ca2_P1_8777880	Ca2	8777880	ATTTTTTTT/ATTTTTTTT	CATGTCCTCAGGTGGT TGTG	TTTGTCTGGGATGAA CTGA	60.0	807	INTERGENIC	--	--	--
Ca2_P1_8801338	Ca2	8801338	TC/T	CCCTTGCTCTCCAC CTAT	AATGAAATGTGGTGGG GGTA	60.2	573	INTERGENIC	--	--	--
Ca2_P1_8820736	Ca2	8820736	ATTTTTTTT/ATTTTTTTT	TTACCATGATGTCGGT GGTG	GTGAGCAAATGTTTCG GGAT	60.2	690	INTERGENIC	--	--	--
Ca2_P1_904938	Ca2	904938	GGTGT/GGTGTGT	TGAGCAGTTGTTGCA ATTG	CAGGGTTCTGTGGCAT TTCT	59.8	575	INTERGENIC	--	--	--
Ca2_P1_9259474	Ca2	9259474	GAAAAAAAAA/GAAAAAAAAA	TCTTTTGGTCGAGCT TTGC	AAGGCTCCGTTGCTGT TAAA	60.7	637	INTERGENIC	--	--	--
Ca2_P1_9276851	Ca2	9276851	TAAAAAAAAA/TAAAAAAAAA	GCTTCGATTTCTTTG CGTC	TGACAGGTTGATTGCA CGAT	60.0	381	DRR	Ca_20035	--	--
Ca2_P1_9277232	Ca2	9277232	AGG/AG	ATCGTGCAATCAACCT GTCA	GTTTCATGCAAATTGG GTCC	60.1	439	DRR	Ca_20035	--	--
Ca2_P1_9277595	Ca2	9277595	CATATA/CATA	CCCAATTGCATGAAA CAAG	CGGGCCTATTGATACT TGGA	59.0	728	DRR	Ca_20035	--	--
Ca2_P1_9287043	Ca2	9287043	ATTTTTTTT/ATTTTTTTT	CTCTTCTCCTCCCGA AACA	AAGGGTTTTGTTGAAA GGGG	59.4	706	INTERGENIC	--	--	--
Ca2_P1_9305222	Ca2	9305222	GTTTTTTT/GTTTTTTT	GTTTGCTGCATTGTGA TTGC	CCCCAAGCAACATCA ATTT	60.3	320	INTERGENIC	--	--	--
Ca2_P1_9379100	Ca2	9379100	ATTTTTTTT/ATTTTTTTT	GTGCAACCACTGAAG CAAA	GCCCTCAGATGAGAG ACAGG	59.9	620	DRR	Ca_20030	F	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_9408358	Ca2	9408358	CTT/CTTTCTATTATT	CATCAAAAACAGCAGC GAAA	TCGTGTCTTCTTTCCA TCCA	60.0	934	INTERGENIC	--	--	--
Ca2_P1_9427423	Ca2	9427423	TAAAAAAAA/TAAAAAAAAA	AATATTGCGACAACGC ATGT	TGAAATGTTTAATTGTA GGTTCGG	59.1	598	INTERGENIC	--	--	--
Ca2_P1_9485330	Ca2	9485330	TTTTTATTTTATTTTATTTT/TTTTTATT TTATTTT	TTATGCGCCACATCAC ATTT	CGCCGAAAAGGTTACA CAAT	60.0	604	INTRON	Ca_20024	T	M-type
Ca2_P1_9494071	Ca2	9494071	T/TA	GAACTGCAACAACAAC GACAA	GGTCTCGAAATCCCTG ATGA	59.8	609	INTERGENIC	--	--	--
Ca2_P1_9498553	Ca2	9498553	AT/A	CAGGGATTGGAGACC GTTA	TCGGTTGATCAAACCT TCAA	59.9	423	INTERGENIC	--	--	--
Ca2_P1_9500229	Ca2	9500229	CGTATGCTAGACCTGG/CGTATGCTA GACCTGGGTATGCTAGACCTGG	AGAGGTTGGGGGAGA AGAAA	GCAACAACAGCAGAGA CAATG	60.0	213	INTERGENIC	--	--	--
Ca2_P1_961092	Ca2	961092	TAAAAAAAAA/TAAAAAAAAA	TGCATGCATGTAGCCA TTCT	TTGGATACTGGTGGA GGTC	60.3	525	INTERGENIC	--	--	--
Ca2_P1_9641060	Ca2	9641060	TTAATAGT/TTAATAGTTATGATTAAAT AATAGT	ATGGGGATGTAATGCG TGAT	ATGGATTGGCTTTTCG TGAC	60.0	827	INTERGENIC	--	--	--
Ca2_P1_9650270	Ca2	9650270	CATATATATATATATATA/CATATATAT ATATATA	GAAGGGGTATGAACGA AGCA	TGAGTAGGGATGGAG GACCA	60.1	590	INTERGENIC	--	--	--
Ca2_P1_9689510	Ca2	9689510	TTATATATATATATATATATATA/TTA TATATATATATATATATATATA	GTGAGTTGAGCATCGC AAAA	GATTTGCGGTAGATAT TTGCATC	60.0	928	INTERGENIC	--	--	--
Ca2_P1_976095	Ca2	976095	ATTTTTTTT/ATTTTTTTTT	TTTGATGAGCAAACGA AAAA	TGATGATTGGAAGGGA TGAA	57.0	575	INTERGENIC	--	--	--
Ca2_P1_9877069	Ca2	9877069	TTATATATATATATATATATATATAT ATATA/TTATATATATATATATATATA TATATATATATATATA	CCGACTTTCCTTCATTA ACCA	GAAGCAATTTGGGATG CAAT	59.1	724	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_9884034	Ca2	9884034	AATATATATAT/AATATATAT	TAAGTTGTTGTGGCAT CGGA	CCGACCTAATCACTCA TAAATATCG	60.1	322	INTERGENIC	--	--	--
Ca2_P1_9923359	Ca2	9923359	GTTTTTTT/GTTTTTTT	CAAGTTGCGAATGCAA AACA	TTTGCAAGAAACGTGT GACAT	60.8	648	INTERGENIC	--	--	--
Ca2_P1_9938789	Ca2	9938789	ATTTTTTTTT/ATTTTTTTTT	TTGTGGCAGAACCAT TTCA	ATATTTTGGACGGTC GCAG	60.1	148	INTERGENIC	--	--	--
Ca3_P1_10030728	Ca3	10030728	AATATATATATATAT/AATATATATA TATATATAT	TCGTTTGAGCAAAAGA TGTC	TGATTGTATGTGGCCT ATGGT	60.2	838	INTERGENIC	--	--	--
Ca3_P1_10068347	Ca3	10068347	CATATATATATATATAT/CATATATA TATATATATATAT	CAATTGAAAGCTCAAT GCCA	TGTGTCTTCTGGTCAA TGCC	59.8	539	INTERGENIC	--	--	--
Ca3_P1_10159468	Ca3	10159468	T/TA	TGGGGCAACAAAGCT ATTC	CTAAGGGCGCTACAAC AAGC	60.1	107	INTERGENIC	--	--	--
Ca3_P1_10170287	Ca3	10170287	GTTT/GTTT	CTATTAGCGTTGGCTC TCGG	ATGTGTTGCTGTGGTT GGAA	60.0	127	INTERGENIC	--	--	--
Ca3_P1_10188650	Ca3	10188650	ATTT/ATT	AGCGAAAAAGCGCTGT AAAA	GGAATCGAGCGCTGT AAAAG	60.2	236	DRR	Ca_18812	--	Trihelix
Ca3_P1_10194898	Ca3	10194898	ATTTTTTTTT/ATTTTTTTTT	TGGAGAAGAGAGGAG CCAAA	CCGTTTTCTGTTTCA CAATCA	60.1	759	INTERGENIC	--	--	--
Ca3_P1_10230251	Ca3	10230251	TTAATAATAATAATAATAAT/TAATAATAATAATAATAATAATAAT	AGGAGCAAATTCAGTG AGAACA	TCTCCTTCGCGTTCCT CTAA	59.0	806	INTERGENIC	--	--	--
Ca3_P1_10312456	Ca3	10312456	TAAAA/TAAAAA	TGACACGCAATATAGA ACCG	CATCTTGGTGTGTGAA AGCG	57.3	598	INTERGENIC	--	--	--
Ca3_P1_10350276	Ca3	10350276	CAAGAAG/CAAGAAGAAG	ATTGGCAAATCGGTT AGTC	GCCAAACCTTACGAG ATCA	59.9	459	DRR	Ca_18818	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_1038019	Ca3	1038019	AAT/AATAAATCAT	GGAGCAAAATGTGTT TATGGA	GGAACGGTCTTCCT TTTT	59.0	173	INTERGENIC	--	--	--
Ca3_P1_10398321	Ca3	10398321	G/GATTGATCTTTCCC	CGGATTGCCAAGTACA AGGT	CAAAACCACAACCAGCA CAAC	60.0	770	DRR	Ca_18819	J	--
Ca3_P1_10449599	Ca3	10449599	ATTTTTTTTT/ATTTTTTTTTT	ACCAACATCCACCACC TCAT	GATAAAGCCGCCGTA TGAA	60.1	430	INTERGENIC	--	--	--
Ca3_P1_10684192	Ca3	10684192	CTATTATTATTATTATTATTATT TATTATTA/CTATTATTATTATTATT ATTATTATTATTA	TTTCATCCAATGCTTCA GGA	TTGTGGTGCATCCCT AACA	59.2	822	DRR	Ca_18828	O	--
Ca3_P1_10774426	Ca3	10774426	TTATATATATATATATATATATAT ATATAT/TTATATATATATATATAT ATATATATATATATAT	ATCAGCTTTGGCTCAC CACT	CCGTGGCAGGGTACT ATTCT	59.9	845	DRR	Ca_18834	O	--
Ca3_P1_10846962	Ca3	10846962	AATATATATATATATATATATATA TA/AATATATATATATATATATAT ATATATATATA	CCAATGACGACTTCC CACT	CAAGCGTCGTCAAAA TCCC	60.0	683	INTERGENIC	--	--	--
Ca3_P1_10860554	Ca3	10860554	TG/T	GCACACTGGTGTGGA TTTG	TCAATGGTAACCTCCC CAGC	60.0	851	INTRON	Ca_19358	G	--
Ca3_P1_10911530	Ca3	10911530	TTT/TTTATT	CCTGACATGGCCTGAC CTAT	AAGCCTGGCCTACGG TCTAT	60.0	528	INTERGENIC	--	--	--
Ca3_P1_10923237	Ca3	10923237	T/TC	GCTGATTGAAATCGAG CACA	TTAAACAAGCACCAA GGGC	60.0	347	INTERGENIC	--	--	--
Ca3_P1_10970095	Ca3	10970095	TAAAAAAAA/TAAAAAAAA	CTCGTGTCTCAAACT CAAGGA	ACACAACAAACCTCT CGGC	59.5	756	INTERGENIC	--	--	--
Ca3_P1_11044475	Ca3	11044475	CAAAAAAAAA/CAAAAAAAAA	GCATCCATCCAACGA CTTT	CATTACATCTTATTGA GGGAGAGC	59.9	286	INTERGENIC	--	--	--
Ca3_P1_11095476	Ca3	11095476	TAAAAAAAAAAAA/TAAAAAAAAAAAA	GCCCTCAGATGAGAGT CAGG	CATCGTGCCACATTT ATTG	59.9	789	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/P1)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_11182328	Ca3	11182328	GAAAAAAAAA/GAAAAAAAAA	AGGTGCCCTTCTTTT GGTT	CCATCGTCGACCTTGA GAAT	60.0	527	INTERGENIC	--	--	--
Ca3_P1_11273271	Ca3	11273271	ATTTTTTTTT/ATTTTTTTTT	GCGCGCGGATAAAATA AATA	TCATGACGCAGCACTT TTTC	60.0	738	INTERGENIC	--	--	--
Ca3_P1_11307658	Ca3	11307658	CATATATATATATATATATATAT/CA TATATATATATATATATATAT	AATAAAGGGGGCATT TTGG	GCAATCTTCCTCCTCC CTTT	60.0	713	INTERGENIC	--	--	--
Ca3_P1_11442472	Ca3	11442472	AAAAATAAATAAATAAATAAATAA A/AAAAATAAATAAATAAATAAATA AATAAATAA	AATGTTTGGATGATTC CCCA	ATACGCATAATCGACT CCCG	60.0	543	INTERGENIC	--	--	--
Ca3_P1_11462251	Ca3	11462251	ATTTTTTTTT/ATTTTTTTTT	ATGATTCCCAACATC CAAA	CACGAGTCCGATAAG GGTGT	60.0	149	INTERGENIC	--	--	--
Ca3_P1_1149110	Ca3	1149110	TAAAAAAAAAAAA/TAAAAAAAAA	TGTGCAATCGTTTTAA CCCA	TGAGGGGTAATTTGAA CCGA	60.0	272	INTERGENIC	--	--	--
Ca3_P1_1149320	Ca3	1149320	ATTTTTTTTT/ATTTTTTTTT	TGTGCAATCGTTTTAA CCCA	CCCTTACCACAAAATC AACTCA	60.0	719	INTERGENIC	--	--	--
Ca3_P1_11497481	Ca3	11497481	ATTATTTATTTATTTATTTATTTA TGTATTTATGTATTTATGTATTTA TTCATTATTTATTTAT/ATTATTTAT TATTTATTTATTTATTTATGTATT TATGTATTTATGTATTTATTCATT	GGGTTTGCACTTGAAG GTGT	CCTCCGAGCCAAAATA CAAA	60.0	617	INTERGENIC	--	--	--
Ca3_P1_11498015	Ca3	11498015	AATATATATAT/AAATATATAT	TTTGTATTTGGCTCG GAGG	AGGAAGAGTGGAGTT GCGAA	60.1	438	INTERGENIC	--	--	--
Ca3_P1_11531936	Ca3	11531936	TAAAA/TAAAAA	CGACTGCATCGGAAAG GTAT	GGTGCGATGGAGAAA TCAAA	60.1	890	INTERGENIC	--	--	--
Ca3_P1_11558186	Ca3	11558186	CTCTGTTTGTT/CT	TGAGACCTATGCCATT TTTGG	TGAAAGCGCTACTTAT GCCT	59.9	510	INTERGENIC	--	--	--
Ca3_P1_11587128	Ca3	11587128	CAAAA/CAAAAA	TTTGGGCTTACTTTCC ATGC	GGTGTCAATTTCTTTG CGGT	60.1	543	DRR	Ca_19379	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_11590201	Ca3	11590201	CAAG/C	TTGCTCCTACGTATCT CCCG	CCTTTTGTCAATTTGG GCTC	60.2	800	DRR	Ca_19380	--	--
Ca3_P1_11615635	Ca3	11615635	TTATATATATATATATATATAT/TT ATATATATATATATATATATAT	TTGAAAGAAAATCTTG CCGC	GTAACACCACACGCCT CCTT	60.3	764	INTERGENIC	--	--	--
Ca3_P1_11649200	Ca3	11649200	TAAAAA/TAAAAA	ATTCATCGCTGTCTTC CACC	GGTCCCTTAGCTTAAT TTCCG	60.1	656	INTERGENIC	--	--	--
Ca3_P1_11765228	Ca3	11765228	CTTT/CTTTT	GATCAGATCTGGCAGC AACA	TGGCATACTCTAGGG GGAG	60.0	574	DRR	Ca_19390	--	--
Ca3_P1_11765428	Ca3	11765428	ATTT/ATTTT	GATCAGATCTGGCAGC AACA	TGGCATACTCTAGGG GGAG	60.0	574	DRR	Ca_19390	--	--
Ca3_P1_11773772	Ca3	11773772	CAAA/CAAAA	GGTTCACCCAAAGATG GCTA	TTGTCCACACCACTC AAAA	59.9	558	INTERGENIC	--	--	--
Ca3_P1_11877050	Ca3	11877050	TAAAAAAAA/TAAAAAAAAA	TTCAAACCTTTCAATT TGCTC	GCGATTTTGGTGAAT CCAT	58.4	594	INTERGENIC	--	--	--
Ca3_P1_11903699	Ca3	11903699	TA/TAA	CAACCGGTTCAATCAA AACA	AGGAATTTGCAATCCT CAATG	59.4	221	DRR	Ca_22253	GE	--
Ca3_P1_11919605	Ca3	11919605	GAA/GA	CGGAAATTGAAATCGG AAAA	ATCGCGAAAGTAGTCT CCCA	59.9	633	INTERGENIC	--	--	--
Ca3_P1_11919676	Ca3	11919676	CNNNNNNNNNNNNNNNNNN/CNN NNNNNNN	CGGAAATTGAAATCGG AAAA	ATCGCGAAAGTAGTCT CCCA	59.9	633	INTERGENIC	--	--	--
Ca3_P1_11991484	Ca3	11991484	GAAAAAAAAA/GAAAAAAAAA	TTTCCCGACTTGGTCC TTTA	TCATCAAATTCGTAAC GCAAA	59.5	503	INTERGENIC	--	--	--
Ca3_P1_11991649	Ca3	11991649	CTTTTTTTTT/CTTTTTTTTT	TTTCCCGACTTGGTCC TTTA	TCATCAAATTCGTAAC GCAAA	59.5	503	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_11996299	Ca3	11996299	GAAAAAAAAA/GAAAAAAAAA	TGACAATTCGTCTCC GTACC	TGCCATTGAAGAGTTC TGGA	60.0	351	INTERGENIC	--	--	--
Ca3_P1_12014385	Ca3	12014385	TATATATATATATA/TATATATATA TATATATA	AAACATTTAAGGGGTG TGCC	TGGGAAGAGGATTGAA ATGG	58.8	411	INTERGENIC	--	--	--
Ca3_P1_1206045	Ca3	1206045	C/CTTT	GGCCGCCACAAATAT TAAC	TTTGAATTGGGAGAG ATGG	59.3	683	INTERGENIC	--	--	--
Ca3_P1_12083114	Ca3	12083114	TTATATATATATATATA/TTATATATA TATATATATATA	GCTCACCCCTGTGG TATT	GGCCAAGGTTTCAAAA TCAA	59.9	604	INTERGENIC	--	--	--
Ca3_P1_12140676	Ca3	12140676	A/AT	TTCTATTGCTCACCC CTTG	GAAAAACAAGACCCGC GATA	60.1	525	INTERGENIC	--	--	--
Ca3_P1_12288956	Ca3	12288956	TAAAAAAAAA/TAAAAAAAAA	TAGCAGGTGCATTGG TGTA	GTCGCACAAGGCTACA GTCA	60.1	605	INTERGENIC	--	--	--
Ca3_P1_12600811	Ca3	12600811	GAAAAAAAAA/GAAAAAAAAA	AGAGAGAAGAGCCCTA GCC	TGTGACACTCCACCG AAGA	59.2	419	INTERGENIC	--	--	--
Ca3_P1_12661298	Ca3	12661298	CGTGTG/CGTGTGTG	TGTTGGCGTGAAACC ATTA	TGCTGAGTTTCTGTGT TGCC	60.0	844	INTERGENIC	--	--	--
Ca3_P1_12697436	Ca3	12697436	GTTTTATTTTTATTTTTATTTTTATT TTATTTT/GTTTTATTTTTATTTTTATT TTTATTTTTATTTTTATTTT	AGCTTGCCAACTTCTG GGTA	TGCAAAACGTGTCATC CATT	59.9	670	INTERGENIC	--	--	--
Ca3_P1_12715466	Ca3	12715466	T/TACACATTAAAG	TATCCCGATTAATGC AGCC	GTCCCGAATGCAATGT CTCT	59.9	667	INTERGENIC	--	--	--
Ca3_P1_12734144	Ca3	12734144	CAAG/CAAGAAAG	GATGGGATCCGAACAA GAAA	TCCCATCATGCTCATT TCAA	59.9	740	INTERGENIC	--	--	--
Ca3_P1_12747032	Ca3	12747032	TGGG/TGG	CCTACGGACGGGAATG TAGA	CGTTTTCTAAGCGAG GGTG	59.9	398	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_12747377	Ca3	12747377	ATAAGT/ATAAGTAAGT	CACCCTCGCTTAGAAA AACG	AGTCTCCGGATCTTGC TGAA	59.9	548	INTERGENIC	--	--	--
Ca3_P1_12819743	Ca3	12819743	GAAAAAAAA/GAAAAAAAAA	TTGGAAGAAGATTGGA CAAAGA	CTCCGCATCAATTAT CCCT	58.8	509	INTERGENIC	--	--	--
Ca3_P1_1288242	Ca3	1288242	GTTTTTTTTT/GTTTTTTTTT	TGGTGAGATCAACGAT ACGC	TGGTAACAAATCTCCG AAGGA	59.7	371	INTRON	Ca_19421	R	--
Ca3_P1_12911294	Ca3	12911294	C/CCT	TATCGAGTGTTCGG TTCC	CAGGTTACGTGAGCA AGAA	59.9	337	INTERGENIC	--	--	--
Ca3_P1_12951849	Ca3	12951849	ATTTTTTTTT/ATTTTTTTTT	GCCACCTCTATCTTG TCGC	GCTGCTTTGTCCTTCA AATCG	59.8	608	INTERGENIC	--	--	--
Ca3_P1_12969818	Ca3	12969818	TAAAAAAA/TAAAAAAA	TTACACCAATCCCC AAGA	CATGCAAGGTTGGGCT AGAT	60.2	400	INTERGENIC	--	--	--
Ca3_P1_13000551	Ca3	13000551	G/GAA	TCATCTTTCTACCAA GGGG	TATGGGGTGGTGAA GATGT	60.0	544	INTERGENIC	--	--	--
Ca3_P1_13072537	Ca3	13072537	C/CTGTGATAG	TCAGATCGTCCCTGT TTCC	TGAAGCATATTCTGAG GGGG	60.1	376	INTERGENIC	--	--	--
Ca3_P1_13097015	Ca3	13097015	ATTTTTTT/ATTTTTTT	CCTTCTTTACGGGACC CAAT	TCATCAGTATCGTGGG TGGA	60.2	364	INTERGENIC	--	--	--
Ca3_P1_13097036	Ca3	13097036	A/AT	CCTTCTTTACGGGACC CAAT	TCATCAGTATCGTGGG TGGA	60.2	364	INTERGENIC	--	--	--
Ca3_P1_13105438	Ca3	13105438	CAC/CACTCTTTACCCCTTAC	ATCCAACATCCCGATA ACGA	AAAGGCTATTGCTCG TGGA	60.2	288	INTERGENIC	--	--	--
Ca3_P1_13185454	Ca3	13185454	AT/ATTT	GCACACGACCTTCTCG TACA	AATCTGGATCGGGAA AATC	59.9	302	CDS (FRAME SHIFT)	Ca_22687	--	Trihelix

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_13201289	Ca3	13201289	GTTTTTTTTT/GTTTTTTTTT	AATGCCACCCATAAT TTCA	CTGGGCAAGGATCT GAATA	60.0	600	DRR	Ca_22688	--	Trihelix
Ca3_P1_1320883	Ca3	1320883	CAAAAAAAAA/CAAAAAAAAA	CATGAATTGATTGGAT TGCG	AAAAATGAAAGTTGG CACG	59.9	750	INTERGENIC	--	--	--
Ca3_P1_13236644	Ca3	13236644	AATATATATATATATATATAT/AATA TATATATATATATATATAT	AAGACCTGTGGGATCA TTGC	TTTTGTGATAGGTTCC TGATGC	59.9	928	INTERGENIC	--	--	--
Ca3_P1_13313491	Ca3	13313491	CATTATTATTATTATTATTATTATT ATTATTAATATTATTATTAT/CATTATTA TTATTATTATTATTATTATTAATAT TATTATTAT	AACCCACCTCTTGATT TCCA	CGACAATTTGTGGT GACG	59.4	637	INTERGENIC	--	--	--
Ca3_P1_13450095	Ca3	13450095	GAAAAAAAA/GAAAAAAAA	TCGTGTCCCAAAATTC AAGG	CGGTGAAGCTGAGGA TCATT	60.9	823	INTERGENIC	--	--	--
Ca3_P1_13507407	Ca3	13507407	ATTTTTTTTT/ATTTTTTTTT	CCAACAATGTCCCTAT CGCT	TGCTCAAATCCCAAT TTCC	60.0	194	INTERGENIC	--	--	--
Ca3_P1_135372	Ca3	135372	CA/C	GTTGTAATGGGGCTTA GGCA	TTGGTCGTTTGAGCCT TTCT	60.0	478	INTERGENIC	--	--	--
Ca3_P1_13647076	Ca3	13647076	AATATATATATATATATAT/AATATA TATATATATATATATAT	TTGCACCTTATTTGATG CGT	TCTCTCTCATGCCA CCCT	59.2	183	INTERGENIC	--	--	--
Ca3_P1_13647375	Ca3	13647375	AAGAGAGAGAGAGAGAGAGAGA/A AGAGAGAGAGAGAGAGAGAGAGA	AGGGTGGCATGAGAG AGAGA	TCATAATGGTGTGTTT GATTTGC	59.9	518	INTERGENIC	--	--	--
Ca3_P1_13698505	Ca3	13698505	CAAA/CA	ATGGTCCCCAATATCG AACA	AAAGGGGAGAGATTGT TGGGA	60.0	742	INTERGENIC	--	--	--
Ca3_P1_1371048	Ca3	1371048	CAAAAAAAAA/CAAAAAAAAA	CGGATCTCAGTTCTGTG GGTA	CAGAGAGAGCGAGAG GGAGA	61.1	567	INTERGENIC	--	--	--
Ca3_P1_13796912	Ca3	13796912	CAAAAAAAAA/CAAAAAAAAA	TATCATGCATTTCGG TTGT	CCTGAGAGAGAAAGG GGCTT	60.0	650	INTERGENIC	--	--	--

[illegible]

[illegible]

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_14801451	Ca3	14801451	GATATATATATATATATATAT/GATA TATATATATATATATATATAT	ATGAGCCACAAGCTCC AAGT	TGCCATTTGGTGAACG ATTA	59.9	357	INTERGENIC	--	--	--
Ca3_P1_14843003	Ca3	14843003	AATATATATATATATATATATATA TA/AATATATATATATATATATATAT ATATATA	GAGAAAGAAGATATCG GATTCTCAA	AAAAATCAACGCAGTG GGAG	59.3	356	INTERGENIC	--	--	--
Ca3_P1_14874833	Ca3	14874833	GCC/GCCC	AGGTCATTTTCGTCTC CCCT	CAACACACCTGTTGG ATGC	59.9	679	INTERGENIC	--	--	--
Ca3_P1_14880871	Ca3	14880871	TG/TGTCG	TTTCGGTCATTTTCGT CCTC	ACACACCTATCGGATG CACA	60.1	616	INTERGENIC	--	--	--
Ca3_P1_14902851	Ca3	14902851	GAA/GAAA	CGGTGGGGAGAACTCT GATA	TTACATGACATCATC CCGT	60.1	474	INTERGENIC	--	--	--
Ca3_P1_14906453	Ca3	14906453	TGGGGG/TGGGGGG	TTGTGCTTGGGAAGTC AAGC	AACTCTGTTGATTGGC GACC	60.2	449	INTERGENIC	--	--	--
Ca3_P1_14919264	Ca3	14919264	GTTT/GTTTT	CGATTGTGTTTGTCAC AGGG	GAAGCAAATCGATTGG GAAA	60.0	303	INTERGENIC	--	--	--
Ca3_P1_1499066	Ca3	1499066	G/GTAAGGA	CCTGAAACAGGTTGGC ATTT	ATCTGGAGGTCATTTG TGGC	60.0	180	DRR	Ca_19414	--	--
Ca3_P1_15039160	Ca3	15039160	GTTTTT/GTTTTT	CAACACGATCATGACA AGCA	GCATTTTGCATTTGTC AACG	59.2	677	INTERGENIC	--	--	--
Ca3_P1_15039270	Ca3	15039270	TC/T	CAACACGATCATGACA AGCA	GCATTTTGCATTTGTC AACG	59.2	677	INTERGENIC	--	--	--
Ca3_P1_15047295	Ca3	15047295	TA/T	TACTTTGTGCCATGCT CTGC	ACACAAGCCAACACAT CCAA	60.0	117	INTERGENIC	--	--	--
Ca3_P1_15072147	Ca3	15072147	AATATATATATATATATATATATA /AATATATATATATATATATATA	GAGTGGTGTTGGAGTC ATGTTT	AGACATGTGTTCCCT TCCG	59.0	424	DRR	Ca_17011	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_15193812	Ca3	15193812	TTATATATATATATATATATATATAT AT/TTATATATATATATATATATATAT ATATATAT	TTGTAGGTGGTAGGGT TCGG	TGCCCATCAATTGTGG TTAAT	59.8	609	INTERGENIC	--	--	--
Ca3_P1_1521871	Ca3	1521871	GTTTTTTTTTTTTT/GTTTTTTTTTTTT	TGACCGAGCAAACCTC ACTG	GGACACGTCTCCCAAT GTCT	60.0	452	INTERGENIC	--	--	--
Ca3_P1_15232531	Ca3	15232531	TAAAAA/TAAAA	CTTTTACAGCGCTTTT GGG	TTCGTAATGGACGGGA TGAT	59.9	245	INTERGENIC	--	--	--
Ca3_P1_15318264	Ca3	15318264	TAAAAAA/TAAAAA	CGAAGGAGCTTTTCTT GTGG	CGCATTTTGCATTGT CAAC	60.0	651	INTERGENIC	--	--	--
Ca3_P1_15320734	Ca3	15320734	GGAGAGAGAGAGAGAGAGAG/GG AGAGAGAGAGAGAGAGAG	TGTGCCTTCCTTACTG TGATG	GCATTGTGCATTTCAT TTGC	58.8	675	INTERGENIC	--	--	--
Ca3_P1_1533357	Ca3	1533357	TCAAAA/TCAAACCTCAAAA	ACCCAAAAGCTAACTT GCCA	GCATCAACAAGCAGC AGAA	59.7	533	INTERGENIC	--	--	--
Ca3_P1_1534003	Ca3	1534003	AAACTGCAACTAACT/AAACTGCAACT AACTGCAACTAACT	TTCTGCTGCTTTGTG ATGC	GTGGATGGGTGTTTT CATC	60.1	774	INTERGENIC	--	--	--
Ca3_P1_15342204	Ca3	15342204	T/TA	ATGATAATGCGGCGGT TAAG	CATGCTCCCATTTTG GATT	60.0	637	INTERGENIC	--	--	--
Ca3_P1_15388201	Ca3	15388201	CATATATATAT/CATATATAT	AAACACATGCGCTTTC ATTG	AATCGATTGGTGAAA TCCA	59.7	479	INTERGENIC	--	--	--
Ca3_P1_15396881	Ca3	15396881	TATAA/TATATATATAAATAA	TCAATGCGGTCTCTGA AGTG	CACATGCTAATCGACA CCGT	60.0	412	DRR	Ca_17029	--	Trihelix
Ca3_P1_15463471	Ca3	15463471	CATATATATATATATATATA/CATAT ATATATATATATATA	TTTGTGGATTTCATT GATGA	TGAATTCACCGTAAAC GGAA	59.9	783	INTERGENIC	--	--	--
Ca3_P1_15463577	Ca3	15463577	TTTTATTTATTTATTTATTTATTT ATTTATTTATTT/TTTTATTTATTTATTT ATTTATTTATTTATTTATTT	GGGACTAGACTTTTGT TGGTGG	TGAATTCACCGTAAAC GGAA	59.9	449	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_15503247	Ca3	15503247	C/CTAAATATTAGGGAA	ATTGGGAAGTGGGGAA ACTC	CGGGGTACATTGATAG CGTT	60.2	800	INTERGENIC	--	--	--
Ca3_P1_15519811	Ca3	15519811	TAT/TATGCAAT	CCAATCCCATGACCAA TTTC	TAACGCACCGTGCCTA ATTT	60.0	502	INTERGENIC	--	--	--
Ca3_P1_15524418	Ca3	15524418	GTTTTTT/GTTTTTTTT	GACGTGTGTGTGGAA GAGC	CGGCCAAAGTAATGGA TTGT	59.3	720	INTERGENIC	--	--	--
Ca3_P1_15579523	Ca3	15579523	ATTATAT/A	TCATATCACCAACATCA AAATTCA	TGATCCAACACTCGTC CAAA	59.2	572	INTERGENIC	--	--	--
Ca3_P1_15658487	Ca3	15658487	TTCCA/TTCCACTCCA	AAAGCATTCCCACTAC GGTG	TTGTCCAGCCTAAAA CCCC	60.0	343	DRR	Ca_17043	--	--
Ca3_P1_15659729	Ca3	15659729	CA/CCTTCCAAGA	AATTAAAGGGTCTCG CGTT	GGTCTCAACAAAGAGC TCCG	60.0	748	DRR	Ca_17043	--	--
Ca3_P1_15660475	Ca3	15660475	TA/TAA	AAGTGAGCTAACGGGG GTTT	TGGACAGAGCAAGTG AGGTG	60.0	140	INTERGENIC	--	--	--
Ca3_P1_15694473	Ca3	15694473	TAAAAAAAA/TAAAAAAAAA	TTATCACCAACGAATG TGCC	GCATCCAACCTTGCTCA CTCA	59.4	340	INTERGENIC	--	--	--
Ca3_P1_1573297	Ca3	1573297	TAAAAAAAAA/TAAAAAAAAA	ATAAGACCAAGAAGC GGCA	GCATGCAATTGTTTG ACAC	59.8	607	INTERGENIC	--	--	--
Ca3_P1_15844609	Ca3	15844609	C/CTAGG	ATGGGTAGTAAGCCCC GTCT	TCTTTCCAAAGGATGG ATGG	59.8	831	INTERGENIC	--	--	--
Ca3_P1_15868847	Ca3	15868847	TATTATTATTATTATTATTATT ATTATTAT/TATTATTATTATAATTATTA TTATTATTATTATTATTATTATTAT	AATCGTGCCTTTTTCG TTTT	AAATTCGATGATCCA ACGG	59.8	833	INTERGENIC	--	--	--
Ca3_P1_16094863	Ca3	16094863	CTTTTT/CTTTTTTT	TCTCCGCATAAGCTTT CGAT	TGATTGCAAATAGCAC CCAA	59.9	248	DRR	Ca_17065	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/P1)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_16107009	Ca3	16107009	TAAAA/TAAAAA	CCAAATCTTGATGTG GCAA	CAGATGGAAATCCTCC TCCA	59.5	654	INTERGENIC	--	--	--
Ca3_P1_16133157	Ca3	16133157	GTTTTATTTATTTTATTT/GTTTTATTT TATTTTATTTTATTT	CGTCTCTTGAAGCGAT GAAA	CATTGTTGGTCACTAG CAAATCA	59.1	698	INTERGENIC	--	--	--
Ca3_P1_16133384	Ca3	16133384	CAATAATAATAATAATAATAATAAT AATAATAATA/CAATAATAATAATAATA ATAATAATAATAATAATAATAATA	CGTCTCTTGAAGCGAT GAAA	ATAAGCCGTCAATCTG CCAC	59.1	807	INTERGENIC	--	--	--
Ca3_P1_16133499	Ca3	16133499	TA/TACACAAAGAA	TTTGCCCCATTATAAAC AAAA	ATAAGCCGTCAATCTG CCAC	57.2	625	INTERGENIC	--	--	--
Ca3_P1_16137267	Ca3	16137267	CATATATATATATATATATATATATAT ATATATATATATATA	TGGCACATCTAAAAAT AGGAGGA	AGAAAGTCGCATCCCA GAGA	60.0	544	INTERGENIC	--	--	--
Ca3_P1_16138352	Ca3	16138352	TTATATATATATATATATATATATAT A/TTATATATATATATATATATATATA TATATATATA	GCCACAATCTGTCCCC AATA	TAGTGAAGGCATTGGC AGAA	60.7	855	INTERGENIC	--	--	--
Ca3_P1_16151347	Ca3	16151347	AT/ATT	GGGCATGAAGGTAGTT TGGA	TAAACCATCAATCTGC CACG	59.9	842	INTERGENIC	--	--	--
Ca3_P1_16154986	Ca3	16154986	ATTTTTTT/ATTTTTTTT	TTGAAGTGGCAAAATC TTCG	AAGGGACAATATTTT TTGGCA	58.9	585	INTERGENIC	--	--	--
Ca3_P1_16160970	Ca3	16160970	ATTTT/ATTT	TTATTTTGGGACGGAT GGAG	TCTCCCGATTGCTCC TTTA	59.8	263	INTERGENIC	--	--	--
Ca3_P1_16166714	Ca3	16166714	TTTTG/TTTTGCTTTG	TCAACCATCTGGGTTG GAAT	CCCCTAGCAAAGGAAA CAAA	60.2	674	INTERGENIC	--	--	--
Ca3_P1_16168531	Ca3	16168531	AG/A	TGGAGGAGGATTTCCA TCTG	TGCTTTCTTGCCCTGT TTTT	60.0	547	INTERGENIC	--	--	--
Ca3_P1_16171083	Ca3	16171083	T/TG	TACAGCGCTTCATTCC ACAG	CGTGCATGAGCAAAAG AAAA	60.0	468	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_16182804	Ca3	16182804	ATTTTTTT/ATTTTTTTTT	CCGGCATCACCTATCA GAGT	TCCGACCTCCTTTGAG AAGA	60.1	583	INTERGENIC	--	--	--
Ca3_P1_16182832	Ca3	16182832	AAATAATAATAATAATAATAAT AATAATAATAATAATAATAATA ATAATAATAATAA/AAATAATAATA ATAATAATAATAATAATAATAA TAATAATAATAATAATAA	CCGGCATCACCTATCA GAGT	TCCGACCTCCTTTGAG AAGA	60.1	583	INTERGENIC	--	--	--
Ca3_P1_16190775	Ca3	16190775	CA/C	TCGCGTTCTTGATGA TGTA	AGCTCGACTTATCCTT CGCA	60.2	423	INTERGENIC	--	--	--
Ca3_P1_16195131	Ca3	16195131	AT/ATT	TGATAAAAGACTAACG ATGCAACA	TAAACCATCAATCTGC CACG	60.1	655	INTERGENIC	--	--	--
Ca3_P1_16195368	Ca3	16195368	CATATAT/CATATATAT	ACGTGGCAGATTGATG GTTT	TTTGATGTTGGCGTAG AGGA	60.4	350	INTERGENIC	--	--	--
Ca3_P1_16195709	Ca3	16195709	AC/A	ACGTGGCAGATTGATG GTTT	GAACGTACGGAAGAG AAGCG	60.4	754	INTERGENIC	--	--	--
Ca3_P1_16195934	Ca3	16195934	AAATTAAT/AAAT	TCCTCTACGCCAACAT CAAA	GAACGTACGGAAGAG AAGCG	59.3	424	INTERGENIC	--	--	--
Ca3_P1_16197261	Ca3	16197261	TCTTAA/T	CTGCATCGAATTAATG CAACA	AAGGGGATCATGGA AAACT	59.7	316	DRR	Ca_18251	--	--
Ca3_P1_16212096	Ca3	16212096	TAA/TAAA	AATGCACTTTGCCACT GTTG	CCAAGATTTTGCCAGA TCAA	59.8	550	INTERGENIC	--	--	--
Ca3_P1_16212378	Ca3	16212378	A/AACATTC	ATGCACTTTGCCACTG TTGT	GAGGGGATGATGCTT CAAAA	59.2	879	INTERGENIC	--	--	--
Ca3_P1_16230171	Ca3	16230171	ATTTTTTTTT/ATTTTTTTTT	TAGAGTTCTCCCACC GCTA	TCTAAGACACGGAGGA GGGA	59.8	568	INTERGENIC	--	--	--
Ca3_P1_16236332	Ca3	16236332	CACATAATACATA/CACATA	TATCACCTATCAGAGC GGGG	CCACGCAACACAGTT TATC	60.1	533	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_16267741	Ca3	16267741	AATATATATATAT/AAATATATATAT	CAATCCCTTCATGCA GACC	TGTGTACAATGGCAAA GGGA	60.5	624	INTERGENIC	--	--	--
Ca3_P1_16328087	Ca3	16328087	TTATATATATATATATATATATATAT ATATAT/TTATATATATATATATATAT ATATATATATATATATATATAT	GTGAATCATGCATTG GTGC	GATGAACGCGATGAAC CTTT	59.9	607	INTERGENIC	--	--	--
Ca3_P1_16331942	Ca3	16331942	TAA/TA	AAACGCAATCCTTGAG TTCG	TCAAGATTTGCCCTC AATC	60.2	373	INTERGENIC	--	--	--
Ca3_P1_16347875	Ca3	16347875	CAAAAA/CAAAAAA	GCGTTTTTATGGTTGC TGGT	TATGGAAGGTGAGACA GGGG	60.0	690	INTERGENIC	--	--	--
Ca3_P1_16423935	Ca3	16423935	AATATATATATATATATATAT/AA TATATATATATATATATATAT	TCCAGAAAATAAATCTT CTTCACG	CAAGGATGGGTTGATC GTCT	58.9	702	INTERGENIC	--	--	--
Ca3_P1_16441391	Ca3	16441391	A/AAGACATG	CGCTCGATAACCCAA AATA	ATGTCTCGTCATTCGG GAAG	59.9	441	INTERGENIC	--	--	--
Ca3_P1_16448740	Ca3	16448740	TATT/TATTATTATTATTATCATT	GAGGACATTGACGGGA GAGA	CTTCTTTGTGCGTCCA CTGA	60.2	568	INTERGENIC	--	--	--
Ca3_P1_16471674	Ca3	16471674	CA/CAA	GTGAGGACTGGACGTA ACCC	TCCTTGCGAGTTGTT CTTT	59.4	505	INTERGENIC	--	--	--
Ca3_P1_16495502	Ca3	16495502	AATATATATATATATATATATATATA TATATATATATATATATAT/AAATAT ATATATATATATATATATATATATAT ATATATATATAT	CATCAATGCCACCTCT GAAA	TGCACAACAACATCA TGTC	59.6	806	INTERGENIC	--	--	--
Ca3_P1_16518599	Ca3	16518599	A/AACC	CTTTGGAGCAAGCTGG GTAG	TTTTGCGATGTTTGAT CGTT	60.0	544	INTERGENIC	--	--	--
Ca3_P1_16544552	Ca3	16544552	GTTATTATTATTATTATTATTATTA TTATTATTATTATTA/GTTATTATTATTA TTATTATTATTATTATTATTA	TGCTCGACATGTTTCT CCTT	CCACACAACTGACAA CTCCA	58.4	605	INTERGENIC	--	--	--
Ca3_P1_16645497	Ca3	16645497	AATATATATATATATATATATATATA TATATATATATATATATA/AAATAT ATATATATATATATATATATATATAT ATA	CCACTATCAGGCCCAT GAAT	TGGTTGGATGGAGAAA CCTC	59.8	590	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected 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_P1_16688486	Ca3	16688486	GGAGAGAGAGAGAGAGAGA/GGA GAGAGAGAGAGAGAGAGAGA	TTGCAACAAGGGGAT CAAT	TTCCATCGACACAAT TCCA	60.3	142	INTERGENIC	--	--	--
Ca3_P1_16730062	Ca3	16730062	TTTATTATTATTATTATTATTATTA TTATTATTACTATTATTATTATTAT TA/TTTATTATTATTATTATTATTAT TATTATTATTATTATTACTATTATT ATTATTATTA	TTGCAACATTGTAGG CATTTTC	TAGGTTTTGCTCCTT CCGA	60.0	706	INTRON	Ca_18280	F	MYB_related
Ca3_P1_16763989	Ca3	16763989	ATTTTTTTTT/ATTTTTTTTTTT	GGCCATGTAAGCCTTT GGTA	ACTGGCATCAACAGCA TCAA	60.0	571	INTRON	Ca_18282	O	--
Ca3_P1_16778238	Ca3	16778238	GAAAAAA/GAAAAAA	TCCTATGGTGGCTCAT CTCC	TTTTGCCTCAACAATC TCCC	60.0	359	INTERGENIC	--	--	--
Ca3_P1_16820332	Ca3	16820332	AATATATATATATATATA/AATATATAT ATATATATATA	AGAGGACATCGGTTAG CTGC	AAGAAAGAAGGGGTC CCAAA	59.5	633	INTERGENIC	--	--	--
Ca3_P1_16875543	Ca3	16875543	GTATATATATATATATATATATA/AT ATATATATATATATATATATATA	TTGATGCTAATGCATG GTGTC	CCATCGCTTACCATT GTTT	59.6	204	INTERGENIC	--	--	--
Ca3_P1_16879725	Ca3	16879725	T/TCCCACTGGTCA	AAGCGTACCTGTGGGA ATTG	GCGGATCCACTCACTA AAGG	60.0	818	DRR	Ca_18286	R	MYB
Ca3_P1_16885390	Ca3	16885390	CTATATATATATATATATA/CTATAT ATATATATATATA	CATTTCATCAAAGGT CGCA	CAAAATTTGCCACTGTC TTGC	59.7	244	INTERGENIC	--	--	--
Ca3_P1_16942182	Ca3	16942182	AAATAATAATAATAATAATAATAAT AATAATAA/AAATAATAATAATAAT AATAATAATAATAATAATAA	TCCTCCGTTTTGCCAA ATTA	CTCCATCACTTTACGC GGTC	60.4	278	DRR	Ca_18292	--	ERF
Ca3_P1_16954725	Ca3	16954725	CATATATATATATATATATATA/C ATATATATATATATATATATATA	TAAATGACCAAGCCGG AAAA	CGTTTGATCGATTGCA GTTC	60.4	573	INTERGENIC	--	--	--
Ca3_P1_17033658	Ca3	17033658	ATT/AT	ATGCGATCATGTGGAT GAGA	TGGCTAATGCAGTTCA CACA	60.0	648	INTERGENIC	--	--	--
Ca3_P1_17033772	Ca3	17033772	AAATAATAATAATAATAATAATAAT AATAATAATAATAAT/AAATAATAATA AATAATAATAATAATAATAATAAT AATAATAATAAT	ATGCGATCATGTGGAT GAGA	TACCCCTTGTTGGTCC TGAG	60.0	840	INTERGENIC	--	--	--

[illegible]

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_17356427	Ca3	17356427	CAAAAAAAAA/CAAAAAAAAA	CACAGTCATTTAAATTA GCAAGCC	ACGCCATGTGTTTCAT TCAA	59.3	428	INTERGENIC	--	--	--
Ca3_P1_17413597	Ca3	17413597	TTTAATTAATTA/TTTAATTA	AAGTTGGTTCGTCCAC CAAG	GAAATCGGAGAGAGG AAATCG	60.0	830	INTERGENIC	--	--	--
Ca3_P1_17491839	Ca3	17491839	AATATATATATATATA/AATATATATAT ATA	TGAATTCATGGCTAAA AAGCCT	GCAAAGATGATAATTC GGCAA	60.1	654	INTERGENIC	--	--	--
Ca3_P1_1749212	Ca3	1749212	AATAGATATATA/AATATATA	AGGGATTGAACGAGG GAAC	GCATGATGTATCCATC GCAA	59.9	599	INTERGENIC	--	--	--
Ca3_P1_17516292	Ca3	17516292	TA/TATATAAAAA	GGTGTGGAGTCATGT CTTTGA	CACGATCCATCTCTGC TTCA	60.0	287	INTERGENIC	--	--	--
Ca3_P1_17522127	Ca3	17522127	ATTTTT/ATTTT	TTCATTGGCACTTGGT TTGA	GCTTGGGGACAAGCA ATAGA	60.1	330	INTERGENIC	--	--	--
Ca3_P1_17579559	Ca3	17579559	TAAAA/TAAATAAAAA	TGCATTTTCACCAACAT CGT	AATCACCGAGCTGAAA TCAAA	60.0	912	INTERGENIC	--	--	--
Ca3_P1_17692049	Ca3	17692049	GATATATATATATATA/GATATATATAT ATATATA	AAATCTCTCACCTCT CATCG	GGGATTACTTTTCGCGA TTCA	58.3	407	INTERGENIC	--	--	--
Ca3_P1_17712986	Ca3	17712986	T/TA	TGCAACAACCTTAGATT CGGA	ATGGAGATAATCGACG TGCC	58.4	505	INTERGENIC	--	--	--
Ca3_P1_17714411	Ca3	17714411	G/GGAAATC	CATGCTCTCATGGTTG GTTG	TGCACATGCTTTTCCG TTAG	60.1	287	INTERGENIC	--	--	--
Ca3_P1_17739152	Ca3	17739152	GATATATATATATATATATAT/GATA TATATATATATATATATAT	TGTATGAATTTCAAT GGCG	ACTTGCCATTTTGCCA ACTC	59.5	166	INTERGENIC	--	--	--
Ca3_P1_17739793	Ca3	17739793	TTGGATATATAT/TTAT	GCGTGGGGCACTACTA TGAT	GTGGAAGAATGTCGG CTGAT	60.0	350	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_17760054	Ca3	17760054	CTTTTTTTTTTT/CTTTTTTTTTTT	GGCTAAATTACATTGT GGTCCC	TTTGTGTACGAAATT GATGAAA	60.8	247	INTERGENIC	--	--	--
Ca3_P1_17819480	Ca3	17819480	AATATATATATATATATATATATATATATATATA TATATA/AATATATATATATATATATATATATATATA ATATATA	AACGATCTGATTGTAA TGTGTTTCTT	GTCGTGAACGGTGCTA CATC	59.4	884	INTERGENIC	--	--	--
Ca3_P1_17940619	Ca3	17940619	ATTTTTTTTTT/ATTTTTTTTTTT	GGCTAAATTACATTGT GGTCCC	TTTTTCCGACTTGGTC CTTT	60.8	317	INTERGENIC	--	--	--
Ca3_P1_17940721	Ca3	17940721	GAAAAAAAAA/GAAAAAAAAA	GGCTAAATTACATTGT GGTCCC	GGCTAAATTATATTCG TGGTCCC	60.8	382	INTERGENIC	--	--	--
Ca3_P1_18015978	Ca3	18015978	TTATATATATATATATATATATATATATATATAT ATAT/TTATATATATATATATATATATATATATATAT ATATAT	TCAGCAATAGAAGCCA AATGC	CGAACTTTGCCGTACG TCTT	60.4	470	INTERGENIC	--	--	--
Ca3_P1_18019115	Ca3	18019115	TAAAAAA/TAGAAAAA	AACGCTGTAAAAAGCT TGCG	GCCACAGAAATACGAA CGGT	60.6	724	INTERGENIC	--	--	--
Ca3_P1_18027762	Ca3	18027762	TTATATATATATATATATATATAT/TTAT ATATATATATATATATATATAT	TTGTTTATGCACCAT GCAC	CTTTTCCAGTTGGAT TGGA	60.4	299	INTERGENIC	--	--	--
Ca3_P1_18089824	Ca3	18089824	AATATATATATATATATATATATATATATATATA TATA/AATATATATATATATATATATATATATATAT ATATATA	TGCGTGATTATCTGTT TAACGAA	CCGACAGCGGATGATT TTAT	59.7	791	DRR	Ca_21136	--	MYB_related
Ca3_P1_18128285	Ca3	18128285	CT/CTT	ACACAAGCCAACACAT CCAA	GGAGAGATTTTGGGG CAGTT	60.0	456	INTERGENIC	--	--	--
Ca3_P1_18241779	Ca3	18241779	CTATATATATATA/CTATATATATAT ATATA	CTCTACCACGCGATTA CGGT	GGAAGTGATGGGTGA AATGG	60.2	390	INTERGENIC	--	--	--
Ca3_P1_18268210	Ca3	18268210	GAAAAAAAAA/GAAAAAAAAA	AACGAAGAAGTTGAGG TGGC	CCGAATTGCTCTTCAT TGGT	59.3	940	DRR	Ca_19613	O	--
Ca3_P1_18345308	Ca3	18345308	TAAAAAA/TAAAAAA	GGTTTCCTCCTAAGT TAAGGGT	GCGGTGCAATCAGTAA ACCT	60.1	271	DRR	Ca_19619	O	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_18360628	Ca3	18360628	GAAAAAAAAA/GAAAAAAAAA	GGCCTATGGCTGACC TACT	GCCAAACCATAGACCC TTGA	60.5	679	INTERGENIC	--	--	--
Ca3_P1_18527193	Ca3	18527193	ATACTTACTTA/ATACTTA	TGAAAGGGATTGGTGG TCTC	ATAGGGGAGACGGGT GTTTT	59.9	392	INTERGENIC	--	--	--
Ca3_P1_18568373	Ca3	18568373	ATTTTTTTTT/ATTTTTTTTT	AGGAATGGACTCCCTC CAAT	TGGTGAATCTCAACC ACAA	59.8	146	INTERGENIC	--	--	--
Ca3_P1_18647131	Ca3	18647131	ATTTTTTTTT/ATTTTTTTTT	AATTGATTTAAGCCCAA AAATAGA	AGAAAGTGGCAAGATG GATGG	57.5	576	DRR	Ca_19638	Q	--
Ca3_P1_18864031	Ca3	18864031	T/TC	AGCTTCTGAATCGCCA AGAG	GGACTCCCAACCCTTT TAGG	59.7	634	INTERGENIC	--	--	--
Ca3_P1_18943181	Ca3	18943181	AAT/A	TGGAGTGTGATGTCG TTGTC	AAATCGAAGATCGCAA CAGT	59.6	428	INTERGENIC	--	--	--
Ca3_P1_1901381	Ca3	1901381	GAAAAAAAAA/GAAAAAAAAA	GGCCGAATTTTGTGT ATGG	AGAAAACCAAATTGCA ACGG	60.2	637	INTERGENIC	--	--	--
Ca3_P1_19056367	Ca3	19056367	ATATTATTATTATTATTATTATT TATTATTATTGTTATTATTATTATT ATTATTAT/ATATTATTATTATTATT ATTATTATTATTATTATTATTGTTA TTATTATTATTATTATTATTAT	CAACACAACGATAATG GGCA	GACATTGGTTGGGGTT TGAC	60.4	717	INTERGENIC	--	--	--
Ca3_P1_19062819	Ca3	19062819	AATATATATATATATATATATATA TATATATATATATA/AATATATATATAT ATATATATATATATATATATATATA	CATGCTAAATAACATG AAGAATGC	GCAGGTTTGACAGTGA GCAA	57.9	637	INTERGENIC	--	--	--
Ca3_P1_19062976	Ca3	19062976	TAA/TAAA	TTGTTTCATCAATTTAC AATGCG	GCAGGTTTGACAGTGA GCAA	59.9	185	INTERGENIC	--	--	--
Ca3_P1_19096971	Ca3	19096971	CTTTATTTATTTATTTATTTATTT ATTTATTTATTTATTT/CTTTATTTATTT ATTTATTTATTTATTTATTTATTT ATTTATTTATTT	AGCTGTCAAACCTCAGC CCAT	TCGTGTCCCAAAACTC AAGA	59.9	652	INTERGENIC	--	--	--
Ca3_P1_19124579	Ca3	19124579	TAAAAAAAAA/TAAAAAAAAA	CACCTGTGTGGGGTG GTGA	GGGCAAAACAGCAAG ACAAT	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/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_19142417	Ca3	19142417	TTCCTGNNNNNNNNNTCTG/TTCTG	GACCCAACCAATGTAC ACCC	TTACGAATAAGCCAC CACA	60.0	698	INTERGENIC	--	--	--
Ca3_P1_19148213	Ca3	19148213	CATATATATATATATA/CATATATATATATATA	GCACAAGACTTTACGT CCATCTC	TATTTGTGTCGTGCG CAIT	60.2	691	INTERGENIC	--	--	--
Ca3_P1_19163962	Ca3	19163962	GGTGTGTGTGTGT/GGTGTGTGTGT	AGTTAACCGACGAAAC CCCT	TTAGCAATCAAACCA CGCA	59.9	321	INTERGENIC	--	--	--
Ca3_P1_19170970	Ca3	19170970	GAAAAAAAAA/GAAAAAAAAA	TGCAGTTCTGAATTGG TTTGA	TTTTGGAAATTTGTTTT TCTCG	59.3	391	INTERGENIC	--	--	--
Ca3_P1_19196479	Ca3	19196479	CTATATAT/CTATATATATAT	GGTTCATTGCCATGTT GTGA	AAATGTGAATCCACC AGGA	60.4	633	INTERGENIC	--	--	--
Ca3_P1_19250997	Ca3	19250997	AATATATATATATATATAT/AATATATATATATATATATAT	AAATCGATCGTGGAAT CTGC	CCAACTTCTTGATGTC CCGT	60.0	423	INTERGENIC	--	--	--
Ca3_P1_19269186	Ca3	19269186	CAAAAAAAAA/CAAAAAAAAA	CAATTGCAATGTTGTT GCC	CCGTCGTTTTGCAGTA TTTG	60.0	592	INTERGENIC	--	--	--
Ca3_P1_19299532	Ca3	19299532	ATTTTTTTTT/ATTTTTTTTT	CGCATTACAACTAAAAT GGACG	TGTGCTTCCACCTTTC ATCA	59.6	936	INTERGENIC	--	--	--
Ca3_P1_19320997	Ca3	19320997	ATTTTTTTTT/ATTTTTTTTT	TGAATTTGGTTTGCC ATCA	GGAATCGGATCAAGG AGACA	59.9	771	INTERGENIC	--	--	--
Ca3_P1_19358466	Ca3	19358466	ATTTTTTTTT/ATTTTTTTTT	AAGATTTGGTCCGTTA TGCG	GTGGGAATGAACAAAG GACG	60.0	517	INTERGENIC	--	--	--
Ca3_P1_19358625	Ca3	19358625	GTTTTTTTTTTTT/GTTTTTTTTT	AAGATTTGGTCCGTTA TGCG	GTGGGAATGAACAAAG GACG	60.0	517	INTERGENIC	--	--	--
Ca3_P1_19359038	Ca3	19359038	TAAAA/TAAA	CGTCCTTTGTTTCATTC CCAC	TGAGGGCCTTTAGAAT CGTG	60.4	670	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_19359334	Ca3	19359334	CCAA/CA	AGGGAAATCAACGACA GAGC	TGAGGCCTTTAGAAT CGTG	59.3	365	INTERGENIC	--	--	--
Ca3_P1_19361284	Ca3	19361284	TAAAAAAAAA/TAAAAAAAAA	GATTGCAACTTGCCTT GGTT	ACAATGCATCCCAACC ATCT	60.1	539	INTERGENIC	--	--	--
Ca3_P1_19367869	Ca3	19367869	TGCTAGCT/TGCT	ATTGATTCAAGGATGA GCGG	GCTGCAACATTTTCAA AGCA	60.0	665	DRR	Ca_19336	--	--
Ca3_P1_19368426	Ca3	19368426	GTTTTTTT/GTTTTTTT	GGCACTCAAAGTGTG GGTT	TGGGTTAGCTTTTGGG ATTG	60.0	920	DRR	Ca_19336	--	--
Ca3_P1_19368565	Ca3	19368565	GTTTTT/GTTTTT	GGTGATGCATGATGAT TTGC	TGGGTTAGCTTTTGGG ATTG	59.9	630	DRR	Ca_19336	--	--
Ca3_P1_19369038	Ca3	19369038	CCAACAAC/CCAAC	CAATCCCAAAAGCTAA CCCA	AAGAATCTGCGCCAAC ATCT	59.9	173	INTERGENIC	--	--	--
Ca3_P1_19371062	Ca3	19371062	TAAAAAAAAA/TAAAAAAAAA	TTCATTGGATTGTTTGT GGG	GAATTCTGCGTTTTTC CTGC	59.2	845	INTERGENIC	--	--	--
Ca3_P1_19373696	Ca3	19373696	TAA/TA	GCTGAATGCGTGAAGA ACAA	GGGTAGAAAACACGC GGAAT	60.0	339	INTERGENIC	--	--	--
Ca3_P1_19375145	Ca3	19375145	AGAGAAAGGAGAAA/AGAGAAAGGAG AAAGGAGAAA	TCTCCGTTCCATTTACA CGA	AACTCCAAATCCCTGC TCAA	59.1	365	INTERGENIC	--	--	--
Ca3_P1_19376077	Ca3	19376077	A/ATTT	TGACCTTGTGCATTGT TTTGA	GCAAACCTCAACCTTGC CAAT	60.1	333	INTERGENIC	--	--	--
Ca3_P1_19376858	Ca3	19376858	GAAAAAAAAA/GAAAAAAAAA	TGGGGAGGCATCTTAG TTTG	AATGTCAATCGAATGG GAGG	60.1	128	INTERGENIC	--	--	--
Ca3_P1_19376958	Ca3	19376958	T/TTAAA	TGGGGAGGCATCTTAG TTTG	GCGTGGGAGAAATGAA ACCT	60.1	616	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_19381557	Ca3	19381557	GTTATTATTAT/GTTATTATTATTAT	GGAGAAAAGCATCGAA AAGC	ACCTAACCCCTCCAAGC CAGT	59.0	338	INTERGENIC	--	--	--
Ca3_P1_19383239	Ca3	19383239	AATATATATATATATATATATATATA TATAT/AATATATATATATATATATAT ATAT	TTTGTCGTTTTGTTCAGGA	ACCACATGATGCTCTC CACA	60.3	179	INTERGENIC	--	--	--
Ca3_P1_19383912	Ca3	19383912	CAAA/CAA	GTCAGGTCAGGCTGGA AAAA	TCGTCTTAATCCACTT GGTGC	60.2	436	DRR	Ca_19337	--	--
Ca3_P1_19388471	Ca3	19388471	AATGATGATGATGAT/AATGATGATGA TGATGAT	GACAAC TTGGTTGACG TGGGA	TGTCAGGAGGAAGGG AAGTG	59.6	723	DRR	Ca_19338	--	--
Ca3_P1_19402891	Ca3	19402891	AGA/AGATGA	ACCCAATCCAAGTTTG TCCA	GAAGGCGACCTCAAA GACTG	60.2	632	INTERGENIC	--	--	--
Ca3_P1_19496219	Ca3	19496219	CTTTTTTTTT/CTTTTTTTTTT	GCTCAACTCCCTCCAT CATT	TGGTCCCTTAACTTAT TTCCG	59.1	742	INTERGENIC	--	--	--
Ca3_P1_19560633	Ca3	19560633	TAAAAAAAA/TAAAAAAAAA	TCAGTGCATGGAGAA ATCA	TGACATTTTAAACCTT GAGTTGC	60.4	453	INTERGENIC	--	--	--
Ca3_P1_19639547	Ca3	19639547	CT/CTTATAT	TGCAATCAAGAGAGGA CACAA	CGAGAAATAGCTCACG AGGC	59.4	521	INTERGENIC	--	--	--
Ca3_P1_19643393	Ca3	19643393	AG/A	TTGGTGCCACTTTGA ATTT	TTTTTCGAGTTGGTCC TTCA	60.3	783	INTERGENIC	--	--	--
Ca3_P1_19883302	Ca3	19883302	AATGATGATGATGATGATGATGATGA TGATGATGAT/AATGATGATGATGATG ATGATGATGATGATGAT	CATTGAGCCCCAAAACTAA	AAACCCCTCAACAAG CTCA	59.9	512	DRR	Ca_09392	YU	--
Ca3_P1_19969942	Ca3	19969942	GATCAACGCATC/GATCAACGCATCAA CGCATC	CATAAGGATCGGGGAA CAAA	AGGATCATCCATCGTC TTCG	59.8	541	INTERGENIC	--	--	--
Ca3_P1_19989742	Ca3	19989742	CAAAAAAAAA/CAAAAAAAAA	TGGGCAATGCATGAAA AGTA	CCCATGCATGCAATAC AAAG	60.1	582	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected 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_P1_20000721	Ca3	20000721	AGG/AGGG	TGCTTTCCTTGGTGGA TTTC	TCCAATTCACATTCT GCCA	60.1	835	INTRON	Ca_09402	--	--
Ca3_P1_20005707	Ca3	20005707	AATATATATATATATATA/AATATATAT ATATATA	CCACAACAGAACGATG TTGG	TTCCCAAAACTATTTAT GCATGG	60.0	312	INTERGENIC	--	--	--
Ca3_P1_20011560	Ca3	20011560	GTTGACACTT/GTTGACACTTGACACT T	GCAATTGCAAGAGCGT GATA	TTTGGCATGCAATCAA ACAT	60.0	277	DRR	Ca_09404	--	--
Ca3_P1_20012287	Ca3	20012287	CAT/CATAT	GATGGATCTCGAATGC TGGT	GAACGATGGTGCAAA GGAAT	60.0	424	DRR	Ca_09404	--	--
Ca3_P1_20052639	Ca3	20052639	AATTATTATTATTATTATTATTATT ATTATTATTATTAT/AATTATTATTATTA TTATTATTATTATTATTAT	ATCGTGTGCAAAGGAA GGAT	TGTGCTCAAATAAATA ACGTGTCTC	59.6	856	INTERGENIC	--	--	--
Ca3_P1_20074437	Ca3	20074437	CTTTTTTTTT/CTTTTTTTTT	CAAATACATGTGCCAC ACAAA	TTTAACCAAAATTGTGC AAGGAA	58.0	525	INTERGENIC	--	--	--
Ca3_P1_20118748	Ca3	20118748	TCCNNNNNNNNNNNCCC/TCCC	AAGGGACGAATAACAG CCAT	GCTGGTACATGGGAG CAAAAT	58.5	487	INTERGENIC	--	--	--
Ca3_P1_20258210	Ca3	20258210	GATATATATATATATATATAT/GATA TATATATATATATATATATATAT	AGCAGAGTGTGAAGC AGAGC	AACATCCAAAAGATGA GCGG	60.0	637	INTERGENIC	--	--	--
Ca3_P1_20295616	Ca3	20295616	CTNNNNNNNNNNNNNNNT/CT	TTTTCGAGTGATTGGG AAGC	GGGGCTGTCACTCAAT TGTT	60.2	604	INTRON	Ca_09429	R	--
Ca3_P1_20315844	Ca3	20315844	ATTTTTT/ATTTTTTT	CGCAACACACTTGAA CTGC	AAAGCATGTCACCAA TAAGCA	60.5	184	INTERGENIC	--	--	--
Ca3_P1_20322285	Ca3	20322285	CTTTTTT/CTTTTTTTTT	AGAGCTCTCGGTGGTT TTCA	AAGTTTTCTTTTGCTG CGGA	60.0	532	INTERGENIC	--	--	--
Ca3_P1_20435798	Ca3	20435798	ATATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTA/AT ATTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTAT TATTATTATTA	TAAATAAAATGGCGG CGAC	GCCACAAGTCATGTG ATGC	59.9	512	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_20445164	Ca3	20445164	TTATATATATATATATATATAT/TT ATATATATATATATATATATAT	AGTGCCACATGTAACA CCCC	GTTTTGGCGTTGGTTT CACT	60.7	815	INTERGENIC	--	--	--
Ca3_P1_20468595	Ca3	20468595	ATTTTTTTTTTT/ATTTTTTTTTTT	ATTCTACCCCAACCAT TTTT	TGCATTTCTGCCCTGT GTTA	57.3	500	INTERGENIC	--	--	--
Ca3_P1_20526351	Ca3	20526351	TTATATATATATATATATATATAT ATAT/TTATATATATATATATATATAT	TGCATGTTCTTACGCT CGTC	AATTCACAAGACGCCA TTCC	60.0	504	INTERGENIC	--	--	--
Ca3_P1_20604662	Ca3	20604662	AATATATATATATATATATAT/AATA TATATATATATATATAT	TTCATGAAGACCGACT CAACA	TGGTTTATGAAGGTAA TACGGAAAA	59.3	863	INTERGENIC	--	--	--
Ca3_P1_20617847	Ca3	20617847	AATATATATATATATATATATA/AAT ATATATATATATATATATATATA	AATCGATTGCGTGAAA TCCA	TCGAGTTTGAGCATGT GAGG	60.4	809	INTERGENIC	--	--	--
Ca3_P1_2065051	Ca3	2065051	AATTATTATTATTATTATTATTATT ATTA/AATTATTATTATTATTATTAT TATTA	CGACCATGTAGTGAGG CAAA	AATAATTGCCCTACAC CAACAA	59.7	685	INTERGENIC	--	--	--
Ca3_P1_20696013	Ca3	20696013	TTATATATATATATAT/TTATATATAT ATATAT	CACTCTTTTCTCACCC CCAC	TTTTTGCCATTCAA CACA	59.5	687	INTERGENIC	--	--	--
Ca3_P1_20709467	Ca3	20709467	CATATATATATATATATATATATA /CATATATATATATATATATATATA	ATGGGCTTGGTAGGGA CTTT	CAATCCAAGCATGCAA TCC	59.8	638	INTERGENIC	--	--	--
Ca3_P1_20750487	Ca3	20750487	CTTTATTTATTTATTTATTTATTTAT TTTATTTATTTATTTATTTATTT/CTT TATTTATTTATTTATTTATTTATTTT ATTTATTTATTTATTTATTTATTTTA TTT	TGTTATGTTGGGTTTG GGCT	TGCAGATGGGTTGAGT GTGT	60.2	875	INTERGENIC	--	--	--
Ca3_P1_20868628	Ca3	20868628	GTTTTTTTTT/GTTTTTTTTT	TTTTACCGTTGCTGCA TGTC	GCAATAGAAACCGGAA GTGTG	59.7	964	INTRON	Ca_09461	--	--
Ca3_P1_20947306	Ca3	20947306	TTATATATATATATATATA/TTATATA TATATATATATATATA	GCATAAATGATGCAAA AGGTGA	ACGACCTGGTTGATAG GTGC	60.0	577	INTERGENIC	--	--	--
Ca3_P1_20969920	Ca3	20969920	AATATATATATATATATATAT/AATA TATATATATATATATATATAT	TCATTGCTTCAATAAAT TTCATCAT	TAGAAGGCATCCCTTT GGAA	59.0	813	INTRON	Ca_09468	--	M-type

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected 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_P1_20970314	Ca3	20970314	ATTTTTTTTT/ATTTTTTTTTTT	TCTTCCCGATCAAATT GAGA	CCCAAAATCAACCAA GCTC	59.6	553	INTRON	Ca_09468	--	M-type
Ca3_P1_20988305	Ca3	20988305	TAAAAAA/TAAAAA	CATTGCGGTCCCTTA ATTT	TGTGGAAGTCCTTCAG CTTG	58.9	569	INTERGENIC	--	--	--
Ca3_P1_20988635	Ca3	20988635	AATATATATATATATATATATATATA TATATATATATATAT/AATATATATAT ATATATATATATATATATATATATAT ATATATAT	CAAGCTGAAGGACTTC CACA	ATTATGTGGCGAGTGA CGGT	59.0	477	INTERGENIC	--	--	--
Ca3_P1_21034670	Ca3	21034670	AATATATATATATATATATATATATA TAT/AATATATATATATATATATATAT ATATATATATAT	TCCATCAAAACAAAGTT GATGTAAAA	AAGACATTGGACGGAA CCAG	59.8	387	DRR	Ca_09471	IG	--
Ca3_P1_21097843	Ca3	21097843	ATTTTTTTTT/ATTTTTTTTTT	GGCATTTTGATTGATT CGC	CAAATTTTGTGTTTCAA AAACCATT	60.4	653	INTERGENIC	--	--	--
Ca3_P1_21114306	Ca3	21114306	CTAGTA/CTAGTAGTA	TCATGCGATCATCCAT TCTAA	ATTTGCAACGATGTGA ACCA	59.1	594	INTERGENIC	--	--	--
Ca3_P1_21186305	Ca3	21186305	A/ACTACG	CTTTGGGATTGTTTTG TGCG	TTGGCGAAGAAAAGCA AACT	60.2	709	INTRON	Ca_09480	T	NAC
Ca3_P1_21207756	Ca3	21207756	TAAAAAAAAA/TAAAAAAAAA	TAACCATTGAACCGGC TTTT	GAGACTTCCTCCCAT CTCC	59.5	501	INTERGENIC	--	--	--
Ca3_P1_21208119	Ca3	21208119	CTATATATATATATATATATATAT/C TATATATATATATATATATATATAT	GGAGATGGGGAGGAA GTCTC	TCTTGAAGCTAACGGA TTTCG	60.0	300	INTERGENIC	--	--	--
Ca3_P1_21243884	Ca3	21243884	CTTTTTTTTT/CTTTTTTTTTT	GGAAGGAACGGTGCTT CATA	CTCCAACGGTGAACTC AACA	60.1	522	INTERGENIC	--	--	--
Ca3_P1_21276082	Ca3	21276082	AT/ATTATTTT	TTGATCTTTTGTTGCGT TGC	TCTTGGACATCATCAA AGCG	58.7	530	DRR	Ca_09490	--	S1Fa-like
Ca3_P1_21311568	Ca3	21311568	GAAAAAAAA/GAAAAAAAAA	CACGTCACATCGCAAT TTTT	CATGTCATTTCAACCC ACGA	59.6	542	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected 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_P1_21319728	Ca3	21319728	AACTTACTTA/AACTTA	TGCTGTTCTAGTGTC TAATTGCTC	GCCTGCCAGACGTTT ACAT	59.2	562	INTERGENIC	--	--	--
Ca3_P1_21328627	Ca3	21328627	CTTTTTTTTTTT/CTTTTTTTTTTT	TGTCGGGACTTCACAT GCTA	CTTGCCTGTGTGAAG ATGA	60.3	499	INTERGENIC	--	--	--
Ca3_P1_21355992	Ca3	21355992	TAAAAAA/TAAAAAA	GTTGGTCCTTTTGGAC CTCA	ACAATTTTCAGCAACC CGAG	59.9	545	INTERGENIC	--	--	--
Ca3_P1_213670	Ca3	213670	AATATATATATATATATAT/AATATA TATATATATATATATAT	TTCCTTTTCCAATTGTC AGG	TCACGTAGAATGCTAT CACTTTGA	60.0	544	DRR	Ca_22935	M	MYB_related
Ca3_P1_21424576	Ca3	21424576	CTTTTT/CTTTTT	ACGTAGTTGGGCTTG GCAC	CAAATTCTGTCCCGTC TGGT	60.0	385	INTERGENIC	--	--	--
Ca3_P1_21481670	Ca3	21481670	CTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTAT/CTAT TATTATTATTATTATTATTATTAT ATTATTATTATTATTATTAT	GCGTAGTAAATCCTTC TTCCACA	TGAGACAAGAATAAC ACCCGA	59.7	568	INTERGENIC	--	--	--
Ca3_P1_21491510	Ca3	21491510	ATTTTTTTTT/ATTTTTTTTTTT	CAAAGAACGGCATTTG GAAT	TGATGGACTGCCTCT ACTTGA	59.9	860	INTERGENIC	--	--	--
Ca3_P1_21545808	Ca3	21545808	AATATATATATATATATATATATA TA/AATATATATATATATATATATA	AAATATTTTTAAGCAAC CCCAAAA	TGGCACCTCAACCAAT GTTA	59.3	542	INTERGENIC	--	--	--
Ca3_P1_21546918	Ca3	21546918	GTATATATATATATA/GTATATATAT ATATATATA	GTCCAAAATCATCCCC CTTT	TGGCACTGTCATGGTT TGTT	60.0	403	INTERGENIC	--	--	--
Ca3_P1_21599415	Ca3	21599415	CAAAAA/CAAAAAA	GCAGCAGTTGTTTGCA GAAG	TCTCTTGCATGCCTAA CACG	59.8	941	INTERGENIC	--	--	--
Ca3_P1_21635589	Ca3	21635589	GCATCATCA/GCATCA	AAGCATGCCAAACCAA AAAC	TGAACATCAAAGATCT GCGG	60.0	521	INTRON	Ca_09516	--	--
Ca3_P1_21757473	Ca3	21757473	CTTTTTTTTTTT/CTTTTTTTTTTT	AAAATCTCAATTTTCGA GCCAA	AGGGCTAGGCAGCCA TAAAT	60.1	393	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/P1)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_2176981	Ca3	2176981	GATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATT TTA/GATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATT TTA	ACGGATTGTGTTTTC TTCT	CCTCTTCTCGGTGAT CTTTTG	57.3	906	INTERGENIC	--	--	--
Ca3_P1_21782272	Ca3	21782272	AATATATATATATATATATATATATA TATATAT/AATATATATATATATATAT ATATATAT	TTGGTGAAAAATATTG AGAGGC	CTTGACATCGATCCCA CAAA	59.5	597	INTERGENIC	--	--	--
Ca3_P1_21870840	Ca3	21870840	TTTATTATTATTATTATTATTATTATA TTATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATT TTATTATTATTATTATTATTATTATT	ATGTTAGACCGTCCGT CAGG	GGTCTAAATCTGGCTT ACGGC	60.0	655	INTRON	Ca_20433	I	--
Ca3_P1_21884477	Ca3	21884477	CATATATATATATATATAT/CATATATA TATATATAT	CCGCGAGTAATTCCGA TAAA	AGGGGCAACTCCTTTC TCAT	60.1	948	INTERGENIC	--	--	--
Ca3_P1_21897869	Ca3	21897869	ATATTATTATTATTATTATTATTATA TATTATTATTATTATTATTATTATA	GAGTTGAGTGTTGCCA GGGT	AGCTACCAAGCTGATG GTGAA	60.2	296	INTERGENIC	--	--	--
Ca3_P1_21910992	Ca3	21910992	AAATAATAATAATAATAATAATAAT AATAA/AAATAATAATAATAATAAT AATAATAA	AATGAGGCGATTGTG GTTT	CTCACAATTGCAAGGA GCAA	60.1	934	INTERGENIC	--	--	--
Ca3_P1_2194698	Ca3	2194698	TG/TGG	ATTTTAGGGGGTCATC GTCC	ATGGAGACAGAACCA TGCC	60.0	351	INTERGENIC	--	--	--
Ca3_P1_2194841	Ca3	2194841	TT/TTAT	GTTGTTGCTTCTGCTC CTCC	TACAAGATGTTTGGTG GCGA	60.0	930	INTERGENIC	--	--	--
Ca3_P1_21959890	Ca3	21959890	GTTTTTTTTTTTT/GTTTTTTTTTTT	CATGATTCAATTCTTTT CGTGA	AATTGTTGGCAAAGAC GACC	57.8	267	INTERGENIC	--	--	--
Ca3_P1_21989057	Ca3	21989057	CTATATATATATATATATATATA/CT ATATATATATATATATATATATATA ATA	GGGACAACGTATGTAA TTTAGCC	ACAAAGATTGCGGGAT TGAC	58.9	515	INTERGENIC	--	--	--
Ca3_P1_21989858	Ca3	21989858	TTATATATATATATATATATATATAT ATATAT/TTATATATATATATATATAT ATATAT	TGAAGCAAACCAATA AATCCA	GACCGGTGGTAGACC TTTGA	59.5	592	INTERGENIC	--	--	--
Ca3_P1_22042563	Ca3	22042563	CTTTTT/CTTTTTTT	AGGAAAGTGCCATGTG AAAAA	TCGTAGGTCAAGTTCA GACCG	59.6	764	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_22057836	Ca3	22057836	GTTTTTTTTT/GTTTTTTTTT	TGCATTCAATCAAGG ATCA	AAACAGGGGTAGCAA ATCG	60.0	631	INTERGENIC	--	--	--
Ca3_P1_22125691	Ca3	22125691	GAAAA/GAAAAA	TAACCCCTTGATCCT GCAG	AGGGTTCAGCTAAGT CCAA	60.1	647	DRR	Ca_20414	--	--
Ca3_P1_22249668	Ca3	22249668	GTTTTTTTTT/GTTTTTTTTT T	GTAAATAGTGCCACCG GCAT	TGAATTTCTCCAAGG GCAC	59.9	561	DRR	Ca_20405	--	--
Ca3_P1_2225131	Ca3	2225131	GAAAAAAAA/GAAAAAAAAA	CACACAATACATGTAG AGTCGCC	GGGAGAATTGTAACAC CCCA	59.6	296	INTERGENIC	--	--	--
Ca3_P1_22259485	Ca3	22259485	CTTTTTTTTT/CTTTTTTTTT	AGAACCGCAAGGGAG GTATT	AGATGACTTTGCAACC ACCA	60.0	493	INTERGENIC	--	--	--
Ca3_P1_22294368	Ca3	22294368	GACAACAACAACAA/GACAACAACAAC AACAA	TTCACCATAACTTCG TCCA	TCCCTAGCAGCCTCTT TTGA	59.0	722	DRR	Ca_06280	K	MIKC
Ca3_P1_22377503	Ca3	22377503	TGTT/TGTTAGTT	TTCATTAACGCTTATTC CCTCA	TGCAACTCTAACAGCG ACAA	58.8	694	INTERGENIC	--	--	--
Ca3_P1_22378443	Ca3	22378443	AAATAATAATAATAATAATAATAAT AATAATAATAA/AATAATAATAATAAT AATAATAATAATAATAA	TTCGAGATAGCCTTGC GAAT	TTGTTTGATGAGGCAT GACA	59.9	721	INTERGENIC	--	--	--
Ca3_P1_22473112	Ca3	22473112	TTATATATATATATAT/TTATATATATAT AT	TTACAAACAAGCTGGC AACG	CACTCGACACAATCTT AACCCA	59.9	820	INTERGENIC	--	--	--
Ca3_P1_22487747	Ca3	22487747	TACAGTGA/TA	GTAATGCCCGTGAGT AGGA	CCCAATTGATTCCAA AGAAA	60.0	778	INTERGENIC	--	--	--
Ca3_P1_22548422	Ca3	22548422	CATAAATAAATAAATAAATAAT/CATA AATAAATAAATAAT	CATGGACAAACCGAGT GATG	GCTGTGGCGTATCTGT TGAA	60.0	527	INTERGENIC	--	--	--
Ca3_P1_22553987	Ca3	22553987	CGACTTATT/CGACTTATTCAGACTTA TT	CCACATGAGTGTGTG AGGG	GGCTATCGCTTATGCA GGAC	60.0	588	DRR	Ca_06259	--	SAP

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_22661182	Ca3	22661182	AATTATTATTATTATTATTATTATT ATTATTATTATTATTAT/AATTATTATTA TTATTATTATTATTATTATTATTAT TAT	AGAGAAGGTGAGGG GTGTT	AGCCTGATAGTGGT GGAAA	60.0	763	INTRON	Ca_06245	R	--
Ca3_P1_22720292	Ca3	22720292	TAAAAAACAAAAACAA/TAAAAACA A	AGATCCAGCAGGGA TCCT	TGACAAATTCGCGAG AAAA	60.0	661	DRR	Ca_06239	--	--
Ca3_P1_2273008	Ca3	2273008	CAAAAAAAAA/CAAAAAAAAAA	TAAAGGATCGGACCA CTTG	GGCGATCCAAGAGTC AATC	59.9	822	INTERGENIC	--	--	--
Ca3_P1_22744769	Ca3	22744769	AATATATATATATATATATAT/AA TATATATATATATATAT	TATAAGGCCTAACAG CCGA	ACAATTAACCAAGAA CGCG	59.7	776	INTERGENIC	--	--	--
Ca3_P1_22798410	Ca3	22798410	ATA/ATATTA	CAATAGAAAGGCGAC GAAG	GAGCTTCGGAATATCC CCTC	59.8	335	INTERGENIC	--	--	--
Ca3_P1_22819995	Ca3	22819995	TTTATTATTATTATTATTATTATTA TTATTATT/TTTATTATTATTATTAT TATTATTATT	GCATGCACAAGTCTC GGAA	TTCTCCCAGTTGCTT ATCG	60.0	642	DRR	Ca_06229	TD	--
Ca3_P1_2285204	Ca3	2285204	TCCCC/TCCCCC	TTGCAACATTCAGTC TTCG	TCCCTCCTAGAGGCA ACAA	59.8	761	INTERGENIC	--	--	--
Ca3_P1_22934054	Ca3	22934054	G/GCCGATACATTTGT	CCACATTATGCCTTC GTTT	GGTTTTCGCGATATT TCCA	59.8	210	INTERGENIC	--	--	--
Ca3_P1_22936637	Ca3	22936637	TTAATAATAATAATAATAATAATA TAATAAAAAATAATAATAATAATA AATAATATTAAATTAATAATAATA ATAATAATAATAATAATAATAATA TAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATA	ACCACAAATTCGAGG ACGA	TGAAAGATGTGGTAG CAATAA	60.5	778	INTERGENIC	--	--	--
Ca3_P1_22949188	Ca3	22949188	TAAAAAAAAA/TAAAAAAAAA	ATTGAGTTCGACGCTC GGTA	TCCAACCACTTGAGTC ATGC	60.8	416	INTERGENIC	--	--	--
Ca3_P1_22951325	Ca3	22951325	GCC/GCCC	CAAAGTGTGCAATTAC GGATT	AGTGGGAGACGAGGT GTCTG	57.7	795	INTERGENIC	--	--	--
Ca3_P1_22976984	Ca3	22976984	AGGTTGGTTGGTTGGTTG/AGGTTG GTTGGTTGGTTGGTTGG	TCCAATCGATGGGTCT AAGC	ATCCATCTAAGGCAG GGGT	60.0	203	INTRON	Ca_06211	I	BES1

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_23016776	Ca3	23016776	TCCTACCT/TCCT	GCACACCTATGTGGTC TTGC	CCATTTTGTGCAAGTT TGGTT	59.2	615	DRR	Ca_06208	QR	B3
Ca3_P1_23019440	Ca3	23019440	T/TCACATC	TGACCCATCCAAACAT TTCA	AAACGTGCAAGGTCCA ACTC	59.8	153	INTERGENIC	--	--	--
Ca3_P1_23063614	Ca3	23063614	TTATATATATATATATATATATA/TTA TATATATATATATATATATATATA	GTAACCTGCACCGACC CAAT	ATGACGGTGTGGAG ACAA	59.9	599	INTERGENIC	--	--	--
Ca3_P1_23102761	Ca3	23102761	CTATATATAT/CTATATATATAT	CACCTTGTACATTCA CAGACA	CCTTGAAGGTTAACAA TTTCGT	59.6	543	INTERGENIC	--	--	--
Ca3_P1_23112762	Ca3	23112762	TT/TTTCCTTGATAC TTCGT	TGATGCCAATTTGGTT CTGA	TTCGAATCCGTCACAA ATGA	60.0	628	INTERGENIC	--	--	--
Ca3_P1_23201611	Ca3	23201611	TAGGTCGATCAG/TAG	AAAAAGGAGAGTTCTC CGGC	ATCGAGCGAACACATT GTCA	59.8	677	INTERGENIC	--	--	--
Ca3_P1_23213458	Ca3	23213458	TAAAAAAAAA/TAAAAAAAAA	TGTTCTCGATCGATG ATTTTATCA	TGACGGTGTAACCTG TCGG	59.9	150	DRR	Ca_06196	R	--
Ca3_P1_2327052	Ca3	2327052	CAAAAAAAAAAAAA/CAAAAAAAAAAA AA	GATACGGAACCATCGC ACTT	TTGGTTTCGTTCTCCA TTCA	60.0	343	DRR	Ca_19393	K	MYB
Ca3_P1_23284742	Ca3	23284742	TTATATATATATATATATATA/TTATA TATATATATATATATATA	GTAGCACATGCTTCAG TGCC	TCTCATGGAAGGAGCA AACA	59.5	445	INTERGENIC	--	--	--
Ca3_P1_23308159	Ca3	23308159	CTTTTTTTTT/CTTTTTTTTTT	TTGCCTTCATGCTTCT CAA	CATGTTCCGATATGCC ACTG	59.5	461	INTERGENIC	--	--	--
Ca3_P1_23325506	Ca3	23325506	A/AAAT	ATCAACACAACATCCA CCCA	TTTGCAGGGTCTTAAT GGACTT	59.7	809	DRR	Ca_06187	R	ERF
Ca3_P1_23329861	Ca3	23329861	A/AGGGTTG	GGGCTTGCAATAGACC AAAG	GCTGCAGGAATCTTGG TGTT	59.7	678	INTRON	Ca_06187	R	ERF

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected 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_P1_23424382	Ca3	23424382	TATTAAAAAT/TATTAAAAATTAA AAT	CATTGTCTGGACTACA TTGTGTGA	GAAGGGATCAATTCT ACCCA	60.0	674	INTERGENIC	--	--	--
Ca3_P1_23434692	Ca3	23434692	ATTTTTTTTT/ATTTTTTTTTTT	GAGGGGACTCAGGGG ACTTA	TAATTATTGGTCCCAG CCCA	60.4	381	INTERGENIC	--	--	--
Ca3_P1_23475694	Ca3	23475694	AAGAGAGAGAGAGAGAGAGAGAG AGAGAGAGAGAGAGAGAGAGAG GA/AAGAGAGAGAGAGAGAGAGAG AGAGAGAGAGAGAGAGAGAGAG GAGAGA	CCATAACGGAGACCG AAGA	CAGCACTTCTTGCTGG CTTA	60.1	495	INTERGENIC	--	--	--
Ca3_P1_23530917	Ca3	23530917	AATATATATATATATATATATAT/AA TATATATATATATATATATATAT	ACCCATTAGCGTAGGA GTGC	AACGTAAATGCACTTG AACCG	59.2	786	INTERGENIC	--	--	--
Ca3_P1_23541848	Ca3	23541848	TTATATATATATATATATATATATAT AT/TTATATATATATATATATATATAT ATATATATATATATAT	ATAAGTTGGCGTTGCC TCTG	CGTCATATGGCGAAAT AGATTG	60.3	518	INTERGENIC	--	--	--
Ca3_P1_23551096	Ca3	23551096	AACAATTTACAATTTACGATTTACAAT TT/AACAATTTACAATTTACAATTTACG ATTTACAATTT	TCCCATTTTGATTCCGT TCA	TCCCTAAATCGCTGAA TCTGA	60.2	363	INTERGENIC	--	--	--
Ca3_P1_23595652	Ca3	23595652	GAAAAAAAAA/GAAAAAAAAA	CCACCTACACAAAAAC ACGG	CGTGGCTTTATTCGTT CCAC	58.9	646	DRR	Ca_06168	T	--
Ca3_P1_23602746	Ca3	23602746	AA/AAAATA	AAGTTGCAATTGTGC AGGA	CCTCCCTCCAAATCAA GTCA	59.3	474	INTERGENIC	--	--	--
Ca3_P1_23619757	Ca3	23619757	AAATAATAATAATAATAATAATAAT AATAA/AAATAATAATAATAATAATAA	TCTCCATCAATCCAG AGCC	ACTGCCTTGTTGTT GTGC	60.2	902	INTERGENIC	--	--	--
Ca3_P1_23623793	Ca3	23623793	CA/C	AGCTGCTGGTGGTAGC TGAT	GATGAAGTCAGCGAAA AGGTT	60.0	683	DRR	Ca_06167	--	WRKY
Ca3_P1_23651722	Ca3	23651722	AAT/AATAATTTAT	GGTACGTTTGGTCTTG CAGC	TGAGCGCTTATGATCC ATTTT	60.7	529	DRR	Ca_06162	--	NAC
Ca3_P1_23656005	Ca3	23656005	CTTTTTTTTT/CTTTTTTTTTTT	CGAAGAGCAATGATAT TTGAACA	CATTGTGGGAAGAA GGAAA	59.3	285	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_23691313	Ca3	23691313	CTTTTTTT/CTTTTTTTT	TGTCAGCAACCTGT CTTG	TTGACGTACCAATTC AACC	59.9	590	INTERGENIC	--	--	--
Ca3_P1_23759284	Ca3	23759284	GA/GAA	CCATCTCAAACGTGCT CTCA	TTTTGGGTGATGTGGG AAAT	60.0	181	DRR	Ca_06153	GC	--
Ca3_P1_23830553	Ca3	23830553	ACTCTCTCTCTCTCTCTCTCTCT C/ACTCTCTCTCTCTCTCTCTCTCT CTCTCTC	TCACGAAATTGGTCCC CTTA	GGGACCAAACTGGA GAGAA	60.3	878	INTERGENIC	--	--	--
Ca3_P1_23881356	Ca3	23881356	TTATATATATATATATAT/TTATATATAT ATATATATATATAT	ACAGCCAACAACCACA TCAA	CGTAAGTGTGACCGAC GCTA	60.0	864	INTERGENIC	--	--	--
Ca3_P1_23881409	Ca3	23881409	ATTTTTTT/ATTTTTTTT	TGGTACTGGAGGCCAC CTAC	CGTAAGTGTGACCGAC GCTA	60.0	522	INTERGENIC	--	--	--
Ca3_P1_23905533	Ca3	23905533	CTTTTTTTTT/CTTTTTTTTTT	CCTTGAGGAATGGAAT CGAA	GATGGGCTAGACCGA TACACA	60.0	738	INTERGENIC	--	--	--
Ca3_P1_23972065	Ca3	23972065	CAAAAAAAAA/CAAAAAAAAAA	TTTCTATGAAATTAAG CAAGCAA	GAAATGGGAATAAAT GATGGA	57.5	298	INTERGENIC	--	--	--
Ca3_P1_24011215	Ca3	24011215	ATT/ATTT	TCATGAAGATTTGGAA GAGAAAGA	TGTTGCTACGCTGAAA CTGG	59.4	272	INTERGENIC	--	--	--
Ca3_P1_24015049	Ca3	24015049	CTTTTTTTTT/CTTTTTTTTTT	CTGACCTGACATGGAA GCCT	TATGGTCTGGTTTGGC CTGT	60.3	600	INTERGENIC	--	--	--
Ca3_P1_24033300	Ca3	24033300	TTAATAATAATAATAATAATAATA/ TTAATAATAATAATAATAATAATA	TCCAAGAAAAGTGTG GAAATG	CCTTCCTACGCCTCAA ATCA	59.1	376	INTERGENIC	--	--	--
Ca3_P1_24071503	Ca3	24071503	CATATATATATATATATATATATATA TATATA/CATATATATATATATATAT ATATATATATATATATA	CAGTTATCACTTGATA CGCCCA	ACGAAATGAATAGCAA CCCG	60.0	395	INTERGENIC	--	--	--
Ca3_P1_24117383	Ca3	24117383	TTACATACATACATAC/TTACATACATA C	GAAGAGGTGCTTGGTG GAGA	TACACCAGAATTGCT CCCC	60.4	342	DRR	Ca_06107	O	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_2414966	Ca3	2414966	A/AC	TTAATGAGGGGCTGAA TTGG	AAGCGTACCTGTGG AATTG	59.9	259	INTERGENIC	--	--	--
Ca3_P1_24156923	Ca3	24156923	TTATATATATATATATATATAT/TTAT ATATATATATATATATATATAT	CAATAGCCCAATTTG AAAGAA	TGCTGGGTGAGTGA GAGTG	58.3	397	INTERGENIC	--	--	--
Ca3_P1_24187708	Ca3	24187708	A/ACAG	ATTGCATGGAACGACA ATGA	CCATGAGTGTTTCGTG GATG	59.9	607	DRR	Ca_06101	J	--
Ca3_P1_24193117	Ca3	24193117	ATTT/ATT	TAAGGTTCAAGTTATG GCCG	CGCCACTATGTCGGCT ATTT	60.0	695	INTRON	Ca_06100	J	--
Ca3_P1_24232615	Ca3	24232615	CAAAAAAAAA/CAAAAAAAAA	AGCAATTTTTCGGCTA AGCA	TCTACGGCAGCAATGA TGAA	60.0	706	INTERGENIC	--	--	--
Ca3_P1_24272959	Ca3	24272959	GAATAATAA/GAATAATAATAA	GCATGTCCGTTACCTC CACT	GCGATTTATTATTCAG AGTTATTAGCG	60.0	646	INTERGENIC	--	--	--
Ca3_P1_24305831	Ca3	24305831	ATTTTTTTTT/ATTTTTTTTTT	TTGCATATCGAGTTT CCC	AGGTGGAGGAAGGAC CTGAT	60.0	771	INTRON	Ca_06090	--	--
Ca3_P1_24359168	Ca3	24359168	GAAAAAAAAAAAAA/GAAAAAAAAAAAAA	GGCTAAATTACATCGC GGTC	TCTCCAAATTGCGATC AACA	59.6	617	INTERGENIC	--	--	--
Ca3_P1_24399333	Ca3	24399333	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA	TCTTAGCAACAATGGG AGGG	TGCAACATCATGTAAT CGGA	60.1	750	DRR	Ca_06077	R	--
Ca3_P1_24410514	Ca3	24410514	GAAAAAAAAAAAAA/GAAAAAAAAAAAAA	CAAAAGCACTGGGAGG AGAG	TCCCTGCCTTAACCTT GACA	60.0	519	INTERGENIC	--	--	--
Ca3_P1_24414589	Ca3	24414589	AATATATATATATATATATATA/AAT ATATATATATATATATA	TGGAGGCCAAATACACT CCCT	TGCATCAAAATGAAC TCGAA	59.6	588	INTERGENIC	--	--	--
Ca3_P1_24511988	Ca3	24511988	TTATATATATATATATATAT/TTATAT ATATATATATATAT	CACGGACATGGTTGGT GTAA	AGCTGCCCTTCCAATT ACCT	60.3	849	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_24576379	Ca3	24576379	ATTCT/AT	AGGTGTTGAGCAAAAT TGGG	TTTAAAAACAGGATC AAAAGGG	60.0	463	DRR	Ca_06059	--	ERF
Ca3_P1_24584302	Ca3	24584302	TAAAAA/TAAAAAA	TGAATTTGGAATTTAGT CACGG	TAGGTGAGACCATATG CCCC	59.1	892	DRR	Ca_06058	--	ERF
Ca3_P1_24594655	Ca3	24594655	AATATATATATATATAT/AAATATATA TATATATATATAT	TCAAAACTACTATGGT GTCGC	TGGACGTGTTGAGGTT GGTA	60.0	560	INTERGENIC	--	--	--
Ca3_P1_24618388	Ca3	24618388	TC/T	AAATCTTCACAAGCCA CCGA	TCCTCTTAGGTCAGTC ATCGTG	60.6	280	DRR	Ca_06055	--	ERF
Ca3_P1_24619541	Ca3	24619541	CTCTATAT/CT	GCCTATGGTCTGACCT GCTT	TTTTGAGAAATGGACA CTCAACT	59.3	574	DRR	Ca_06055	--	ERF
Ca3_P1_24701158	Ca3	24701158	ATTTTTTTTT/ATTTTTTTTT	TTTGGCACATCTATTCA ACTGC	CGCATTCTTGGGATGC TTAT	60.1	136	INTERGENIC	--	--	--
Ca3_P1_24791040	Ca3	24791040	GAAAAA/GAAAAA	GGGACCACGAATGTAA TTTAGC	TGCGAGCATAAGAAGT TGTTG	59.7	740	INTERGENIC	--	--	--
Ca3_P1_24870328	Ca3	24870328	C/CGT	TGTGTCACAAATGGC GTCT	TGCAACATGTTGGGA TAGC	60.2	315	INTERGENIC	--	--	--
Ca3_P1_24984768	Ca3	24984768	CTTTTTTTTT/CTTTTTTTTT	TATATGGGCTGCTCTC CCTG	TTTTGCTTTTGAAGCC AACC	60.2	663	INTRON	Ca_06031	--	SAP
Ca3_P1_25030440	Ca3	25030440	ATTTTTTTTT/ATTTTTTTTT	TTGATTCCACGTCAT GTCA	TACACACACCTTGCTC GCTC	58.5	514	INTERGENIC	--	--	--
Ca3_P1_251021	Ca3	251021	CTTTTTTTTT/CTTTTTTTTT	TTATAACGTGTTGGAC CCGC	TGAAGATGATAGTGGC GTCG	60.8	845	INTERGENIC	--	--	--
Ca3_P1_25341015	Ca3	25341015	GAAAAAAAAA/GAAAAAAAAA	ATCAACCCACACAAAC CACA	GACATCGCAGCTTTT CACA	59.7	372	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_25344299	Ca3	25344299	ATTT/ATT	ACTTCAGCTCTAGGCA ACCG	TGCAAATGGTGTGGTC TGTT	59.6	304	INTRON	Ca_05995	--	LSD
Ca3_P1_25345900	Ca3	25345900	AATATATATATATATATATATATATA TATA/AATATATATATATATATATAT A	AGGTTTCATGTGAATTG GGTTG	GCGAGATTGAAGTTGG AAGG	59.7	343	INTERGENIC	--	--	--
Ca3_P1_25444677	Ca3	25444677	ATTTTTTTTT/ATTTTTTTTTT	TCCAACACCTTCATTT CAA	CAATTGCGGGTTGTTG TTC	58.9	658	INTERGENIC	--	--	--
Ca3_P1_25483288	Ca3	25483288	AATATATATATATATATATATATATA TATATATAT/AATATATATATATATAT ATATATATATAT	AAAAATCGAGAGCCCA TAAAA	CCCATTCTTCTGGTTG TCGT	57.9	564	DRR	Ca_05987	R	--
Ca3_P1_25521658	Ca3	25521658	ACTCTCTCTCTCTCTCTCTCTC/AC TCTCTCTCTCTCTCTCTCTCTC	TACGCAACGCACGAAT TAAC	ATCAGCATCCGAATT CCAG	59.8	819	INTERGENIC	--	--	--
Ca3_P1_25585812	Ca3	25585812	TAAAAAAAA/TAAAAAAAA	TGTTTCGTTTTGTTC CTCT	TCCATTGCAATCGTAC TTAATGA	58.7	735	DRR	Ca_05976	--	B3
Ca3_P1_25758872	Ca3	25758872	TAAAAAAAA/TAAAAAAAA	GGATCCGGTGCTACT CATA	ATTTGAGTTGTGATT ATGCAA	59.9	713	INTERGENIC	--	--	--
Ca3_P1_25776431	Ca3	25776431	CATATATATATATATATAT/CATATA TATATATATATATAT	GGGGAAATTCCTACT GACCA	TTGCAGCAGAATTGGA TCTG	60.2	754	INTERGENIC	--	--	--
Ca3_P1_25866798	Ca3	25866798	AATATATATATATATATATATATATA TATATATATA/AATATATATATATAT ATATATATATATATATATATATATA	AGCCAATTAGGCAACC ACAA	TTCCCCATTGAGATT AGGC	60.5	871	INTERGENIC	--	--	--
Ca3_P1_25885756	Ca3	25885756	TTCTTTTACCAT/TTCTTTTACCATCT TTACCAT	TTGAGGGAAACAAAGCG AGTT	CAATTGAGTTTGGGC ACGA	59.9	411	INTERGENIC	--	--	--
Ca3_P1_25888060	Ca3	25888060	AT/ATT	TGTGGAAGACATCCTT TACTGC	ACCTGACCTATTTCCA CCCC	59.2	551	INTERGENIC	--	--	--
Ca3_P1_25888907	Ca3	25888907	GTTTTTTT/GTTTTTTT	CAGGTCATGCCAGACT TTGA	TCTGACCCGACCTGGT CTAC	59.8	578	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_25889145	Ca3	25889145	ATTTTTTT/ATTTTTTTT	GTAGACCAGTCTGGT CAGA	TGATATGTCACATTG CGCAC	60.1	403	INTERGENIC	--	--	--
Ca3_P1_25891751	Ca3	25891751	TAAA/TAAAA	CGGTTCTAATTGAAA AGGC	CAACGCTTTGTTCTCT CAACA	58.7	341	INTERGENIC	--	--	--
Ca3_P1_25916961	Ca3	25916961	AATATATATATATATATATATA/A ATATATATATATATATATATATA	CAAAAATCCGCACTCA CCTT	TCGTCTTAATTATGC GGGG	60.1	427	INTERGENIC	--	--	--
Ca3_P1_26020458	Ca3	26020458	CATATATATATATATATAT/CATATA TATATATATATATATATAT	CCCACTAAAGGCCCAT ATCA	TTCAAATTCACGCCCC TAAC	59.8	789	INTERGENIC	--	--	--
Ca3_P1_26071275	Ca3	26071275	ATTTTT/ATTTTTTT	TGTGTTTGTGTTGTTT CATCTTG	TGTCAACGTGATTGGA GCAT	59.9	563	INTRON	Ca_08292	--	MYB_related
Ca3_P1_26071877	Ca3	26071877	TAAA/TAAAA	TGCTCCAATCACGTTG ACAT	AGACGCTGCAACATCA AAGC	60.1	397	INTRON	Ca_08292	--	MYB_related
Ca3_P1_26102027	Ca3	26102027	AATATATATATATATATA/AATATAT ATATATATATATATA	AATTCAAGTTCGAAAT GCCG	AGCCCAAGTTTCAAA GACG	60.1	578	INTRON	Ca_08292	--	MYB_related
Ca3_P1_26102453	Ca3	26102453	TAAAAAAAAAAAAA/TAAAAAAAAAAAA A	AATTCAAGTTCGAAAT GCCG	AGCCCAAGTTTCAAA GACG	60.1	418	INTRON	Ca_08292	--	MYB_related
Ca3_P1_26103278	Ca3	26103278	ATTTTT/ATTTTTTT	TGTGTTTGTGTTGTTT CATCTTG	CAATGTCCACGTGATT GGAG	59.9	519	INTRON	Ca_08292	--	MYB_related
Ca3_P1_26114065	Ca3	26114065	AG/A	TTTATCCTGGGGACTT CGTG	AGGAAAATACACGGGC AAGA	59.9	364	INTRON	Ca_08292	--	MYB_related
Ca3_P1_26114282	Ca3	26114282	ATTATAGTTTTATT/AT	TTTATCCTGGGGACTT CGTG	ATACACCGATGGAGG GCTTT	59.9	838	INTRON	Ca_08292	--	MYB_related
Ca3_P1_26115029	Ca3	26115029	AACG/A	TGGCATGGTACTCAAC CAGA	TTACATGAATGATTG TTGGGT	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/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_26155781	Ca3	26155781	AATATATATATATATATATATATATATATATAT/AATATATATATATATATATATATATATATATATATAT	TTTATGCATCCCAAC CACA	CCTTCTATACAAATATT CAACGGTTTTG	59.8	389	INTERGENIC	--	--	--
Ca3_P1_26179982	Ca3	26179982	TATATATCTTAAAA	TCCAAATGCATATTCT GGCA	TAATGGTGGAAGTGG GTGGT	60.0	701	INTERGENIC	--	--	--
Ca3_P1_26245714	Ca3	26245714	C/CA	CGCCTGTACCGGTTGA TACT	ACCATTCCCAGTGTT TTCA	60.0	678	INTRON	Ca_08279	QI	B3
Ca3_P1_26349764	Ca3	26349764	GTTAACA/G	TCTGCATTGTCCAAA CCAA	TTATCCATGATTGGG AGGG	60.1	737	INTERGENIC	--	--	--
Ca3_P1_263872	Ca3	263872	TAAAAA/TAAA	GGGGTGGTTAAGGATA AGGC	TGGTGCgTTTTATTCC ACAA	59.7	605	INTERGENIC	--	--	--
Ca3_P1_264555	Ca3	264555	TGG/TGGG	TTGTGGAATAAACGC ACCA	GTCCTAAAAGCGTTGC CTTC	60.0	574	INTERGENIC	--	--	--
Ca3_P1_26664368	Ca3	26664368	AATATATATATATATAT/AATATATATA TATATATAT	TCACACCTTATGAGTT CGTTTGA	ATTGGAATCAAAGGCA TGGA	59.7	893	INTERGENIC	--	--	--
Ca3_P1_26777304	Ca3	26777304	GTATATATATATATATAT/GTATATATA TATATATATAT	CACTCATCACACGGG ACAC	CAATGAATCGATGAAA TGAATTG	60.0	754	DRR	Ca_08228	P	--
Ca3_P1_26866686	Ca3	26866686	AATATATATATATATATATATATATA /AATATATATATATATATATATATA	CTTAAGGAACCTCGCG TTTG	TTTTTGgTTGACGGA GAAG	59.9	295	INTERGENIC	--	--	--
Ca3_P1_26872317	Ca3	26872317	CAGAGAGAGAGAGAGAGAGAGAGAGAG /CAGAGAGAGAGAGAGAGAGAGAGA GAG	CAATGTGCTCGATTTC TCCA	TTACATTCCTTGCCTC GTCA	59.8	389	INTERGENIC	--	--	--
Ca3_P1_2691552	Ca3	2691552	TTATATATATATATATATATATATATAT ATATA/TTATATATATATATATATAT ATATATATATATATAT	TGCGAAATCGCAATTG TTAC	TTGTTAGGATTTTGGG GTGG	59.7	838	INTERGENIC	--	--	--
Ca3_P1_2692030	Ca3	2692030	ATTTTTTTTT/ATTTTTTTTTT	TTTATTGCCACCCCAA AATC	GCTTCATTcATATACC GgTTGTT	59.6	303	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected 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_P1_26922565	Ca3	26922565	TAAAAAAAAA/TAAAAAAAAA	GGCCATTTTCCCCT AATA	ATTGAGGGATCTGGAG GCTT	60.0	494	INTERGENIC	--	--	--
Ca3_P1_26961684	Ca3	26961684	ATTTTTTTTTT/ATTTTTTTTTT	CACGGTTGTGATGACT CGAC	GTCGCGTCAACGTTTG TTTA	60.2	538	INTERGENIC	--	--	--
Ca3_P1_26998517	Ca3	26998517	AATATATATATATATATATATATAT TAT/AATATATATATATATATATATAT ATATATATATATATAT	TGGGATGTTTCAAATTT CTGC	AAATGGCATTGGTGT GGTT	59.9	576	INTERGENIC	--	--	--
Ca3_P1_27080809	Ca3	27080809	AATATATATATATATATATATATAT TATATATATATATATATA/AATATATAT ATATATATATATATATATATATATAT ATATATATATATATATATATA	ACCATTTTGCTCTGGG TACG	TTTCGATAATCTCAT CGGC	60.0	765	INTERGENIC	--	--	--
Ca3_P1_27111407	Ca3	27111407	AATATATATATATATATATATATATA T/AATATATATATATATATATATATAT ATAT	GTACGCCGTTTGAAA GGTA	TGATTTGCGTGCAACT TCTA	60.0	304	INTERGENIC	--	--	--
Ca3_P1_27157195	Ca3	27157195	TAAAAAAAAA/TAAAAAAAAA	AAGAGTTTCAAATGGC GATGA	CTATTCGTGGGAGTGC CAAT	59.7	337	INTERGENIC	--	--	--
Ca3_P1_27188795	Ca3	27188795	AATATATATATATATATATAT/AATATA TATATATATATATATAT	CCAAATGACGACTTCC CACT	TTACTACATTCTGGC CCCG	60.0	865	INTERGENIC	--	--	--
Ca3_P1_27273898	Ca3	27273898	GCTCTCTCTCTCTCTCTCT/GCTCT CTCTCTCTCTCTCTCTCTCT	TCCTTCATCCACCAGA CTCC	TGCCACATCCAACACT TTGT	60.0	500	INTERGENIC	--	--	--
Ca3_P1_27277791	Ca3	27277791	CATATATATATATATATATATA/CAT ATATATATATATATATATATATATAT ATATA	GCGAAGCGCCATACTA ACTC	AAGCCCAAACCTCCTT TTTC	60.0	858	INTERGENIC	--	--	--
Ca3_P1_27299542	Ca3	27299542	ATTTTTTTTTT/ATTTTTTTTTT	TGCTTTTTCAAAGGGA ATGG	TGTCGAGTTCGGTCAT TTTG	60.0	531	INTERGENIC	--	--	--
Ca3_P1_27300846	Ca3	27300846	CTTTTTTTTTT/CTTTTTTTTTT	TGATCCCTTTCCTCATT TCAA	AAATTTAGTTTATGCG CTTTGTCA	59.5	359	INTERGENIC	--	--	--
Ca3_P1_27305744	Ca3	27305744	TTATATATATATATATATATATAT/TT ATATATATATATATATATATAT	TTGCCAAAAATTAAT GTCACG	ACTCCTTGGGAACGCA ATTA	59.0	543	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_27382854	Ca3	27382854	GTGTTTTTTTTT/GTTTTTTTTT	GCGGTAAAAGAAGGCA AGTG	TGTGGGTACCTTAAAC CCTAAAAA	59.9	591	INTERGENIC	--	--	--
Ca3_P1_27428592	Ca3	27428592	TA/TAACA	GAGACATATGAAAGGT GCCACA	ATAAGCTCAGACGCCT CGTT	60.0	562	INTERGENIC	--	--	--
Ca3_P1_27490383	Ca3	27490383	CATATAT/CATAT	TTCCCTTGCACTCAAG AACA	GGGCAATCATTGTTT CGTT	59.4	390	DRR	Ca_08157	Q	B3
Ca3_P1_27551834	Ca3	27551834	TTATATATATATATATATATA/TTATATA TATATATATATATATA	TCTTTGGATGGGTTCC ATGT	TTGTTGACACCGAATT AGCG	60.2	672	INTERGENIC	--	--	--
Ca3_P1_27572338	Ca3	27572338	TAAAAAAAAA/TAAAAAAAAA	ACATGCCTACTCGTG CGTG	GGTGAGTCTTTAGTTG TTGTTGTTG	59.8	704	INTERGENIC	--	--	--
Ca3_P1_27582382	Ca3	27582382	AT/ATTACT	GGACTGACGATGGACT TGGT	CAAATGGATCAGGATG TCCC	60.0	553	INTRON	Ca_08151	--	--
Ca3_P1_27601862	Ca3	27601862	ATT/AT	CGTCCGAAAAAGAAAT GGAA	CAACCTTTTCATCGC CACT	60.0	570	INTERGENIC	--	--	--
Ca3_P1_27602646	Ca3	27602646	TAAAAAAAAA/TAAAAAAAAA	AGTGGCGATGAAAAAG GTTG	TGGAGTGAGTGCAATG GAAA	60.1	791	DRR	Ca_08148	DO	Trihelix
Ca3_P1_27629559	Ca3	27629559	TAAAAAAAAA/TAAAAAAAAA	CAAAATGCATTATTTTG GAGAGAA	AGCACCAAGATCCAA CACC	59.5	556	INTERGENIC	--	--	--
Ca3_P1_27648871	Ca3	27648871	AATATATATATATATATATAT/AA TATATATATATATATATATAT	AATCCCATGGCACTGA GAAC	AGCGTGATCACATTCA CAGC	59.9	670	INTERGENIC	--	--	--
Ca3_P1_27761788	Ca3	27761788	GAAAAAAAAA/GAAAAAAAAA	ACGCAAGCTCTACTTC GCTC	ACAAGTTCTGCCACA ATCC	59.9	606	DRR	Ca_08131	--	--
Ca3_P1_27792784	Ca3	27792784	TGAGAGAGAGAGAGAGAGAGAGA G/TGAGAGAGAGAGAGAGAGAGAGA G	GCACAGGCTGAATAC CAAT	TCATCATCGTCGAAGA ATCG	60.0	357	INTRON	Ca_08126	R	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_27824179	Ca3	27824179	CAAAAAAAAAAAAA/CAAAAAAAAAAA AA	ACAACTTTGACGCT GCAC	GTTTTGGTTCTGCCG TTTA	60.0	695	DRR	Ca_08124	--	--
Ca3_P1_27854154	Ca3	27854154	TGG/TG	TCGATAATGAGTGATT AGGTGGG	ACCTCACCTCGAATG TCAC	60.2	459	INTERGENIC	--	--	--
Ca3_P1_27854804	Ca3	27854804	T/TA	GGATTGAGAGGGGAG AAAGG	TTTGAAAGCAAGAGCG TCAA	60.0	516	INTERGENIC	--	--	--
Ca3_P1_27854997	Ca3	27854997	ATTTTTTTTT/ATTTTTTTTT	GGATTGAGAGGGGAG AAAGG	TTTGAAAGCAAGAGCG TCAA	60.0	516	INTERGENIC	--	--	--
Ca3_P1_27856755	Ca3	27856755	TAAAAAAAA/TAAAAAAAA	CGAAGATGAAGAGGCT TGAA	CACAACTTCTGATGC TCGC	59.6	593	INTERGENIC	--	--	--
Ca3_P1_27863472	Ca3	27863472	AT/A	TGCTTGGTTCTTTCA CCC	TGGGACCCATACCTT TTGT	60.1	681	INTERGENIC	--	--	--
Ca3_P1_27866552	Ca3	27866552	TTAATAATAATAATAATAATAA TAATAATAATAATAGTAATAAT AATA/TTAATAATAATAATAATAAT AATAATAATAAGTAATAATAAT A	TCAGAATTTGGTGAG TTGGC	GGGATTCGCTGGTTAT CTCA	60.1	552	INTERGENIC	--	--	--
Ca3_P1_27871493	Ca3	27871493	GAATAATAATAATAATAATAA TAATAATAATAATAATAATAAT AA/GAATAATAATAATAATAAT AATAATAATAATAATAATAATA ATAATAATAATAA	CACCTTTCCTTCACAT TCACA	ATTTCTTGACTCTGCC TGCC	60.0	561	INTERGENIC	--	--	--
Ca3_P1_2788384	Ca3	2788384	CATATATATATATATATATAT/CATA TATATATATATATATATATATAT	AGTCAGTGGCAAAAC AGCA	TGCGTTACGGTGAAAT GGTA	59.5	451	INTERGENIC	--	--	--
Ca3_P1_27949908	Ca3	27949908	AAATAATAATAATAATAATAA/A AATAATAATAATAATAATAATA ATA	ATAGATGGTCGCATTC CGAG	CCAAAGAGGAGCAA GTTGT	60.1	925	INTERGENIC	--	--	--
Ca3_P1_27959892	Ca3	27959892	CTTATTATTATTATTATTATTTA TTT/CTTATTATTATTATTATTAT TT	TGAATTGTTGGATCAG CAAAA	GCGAAACAAATCACAA CATCC	59.1	779	INTERGENIC	--	--	--
Ca3_P1_27975195	Ca3	27975195	TAAAAAAAA/TAAAAAAAA	CTCCTTCTCTCTCC GAGT	TTGGCAAAATTACATC CAAAA	59.9	745	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_27993552	Ca3	27993552	ATTTTTTTTT/ATTTTTTTTT	TTCAATGGATGCAAAA AGGTT	CGAATTGGGCCAAATA AATG	59.4	561	INTERGENIC	--	--	--
Ca3_P1_28052364	Ca3	28052364	TCA/T	ACTTCCGTTCAACGT TTCC	CGATGCAGGTGAAGAT CAAA	60.0	481	INTERGENIC	--	--	--
Ca3_P1_28113252	Ca3	28113252	ATTTTTTTTT/ATTTTTTTTT	TCCTTCTCCTCTTCTT CCA	TGTTTGTCGAATTGAA TTATAGTTATG	58.9	849	INTERGENIC	--	--	--
Ca3_P1_28138567	Ca3	28138567	TG/TGG	TGGTGATGGCAATAAT CGAA	ACAATGTTACACGATG GGCA	59.9	561	INTERGENIC	--	--	--
Ca3_P1_28188438	Ca3	28188438	CAAAA/CAAAAA	ACCCATAACGCACTCG TTTC	TCCTCCATTTTTCGTTT TCG	60.0	434	INTERGENIC	--	--	--
Ca3_P1_28191077	Ca3	28191077	CTTTTTTTTT/CTTTTTTTTT	TAAGATGCGTGGGTTT AGGG	GCTTGTGTTTAAAGCG CTCC	60.0	659	INTERGENIC	--	--	--
Ca3_P1_28211047	Ca3	28211047	ATTT/ATTTT	AGCAATGCATTTTTGA AGGG	TGCGAACTCTTTGAA ACCC	60.1	304	INTERGENIC	--	--	--
Ca3_P1_2825319	Ca3	2825319	T/TCCAG	GGGGTTTCAATTCCAG AACA	AAAGACGGGAAAACC GAACT	59.8	140	DRR	Ca_22150	--	B3
Ca3_P1_28293830	Ca3	28293830	TAAAAAAAAA/TAAAAAAAAA	GATTACTGCTAGGGCC CAAAT	ATCCCACTGCAACAC TTCC	59.5	147	INTERGENIC	--	--	--
Ca3_P1_28294648	Ca3	28294648	AATATATATATATATATAT/AATATA TATATATATATATATAT	TACCAGTACCAGGAGG CAGG	TGGTGGGTAAATCCGAT GAAT	60.1	670	INTERGENIC	--	--	--
Ca3_P1_28340520	Ca3	28340520	CTATATATATATATATATATATA/CT ATATATATATATATATATA	CAGAGGTGATAGGGG CGATA	ACCAACGTCAATCATC GTCA	60.1	586	INTERGENIC	--	--	--
Ca3_P1_28354473	Ca3	28354473	CTATATATATATATATATATATATAT ATAT/CTATATATATATATATATATA TATATATATATATAT	ACCACATGACGATCTC CACA	GGTCGTTAGGGATGA GATGG	60.0	445	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/P1)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_28357344	Ca3	28357344	TTTATTATTATTATTATTATTATT TTATTATTAT/TTTATTATTATTATT ATTATTATTATTATTAT	CGTGTCTCCAATTTT GCCT	TCCTCATTGAAATTC CCCA	59.1	440	INTERGENIC	--	--	--
Ca3_P1_28428889	Ca3	28428889	TTATATATATATATATATATA/TTATATA TATATATATATATATA	AGGCAACTCGATTCAA GCAT	AAACAAACAAGCCAC CAAC	59.8	923	INTERGENIC	--	--	--
Ca3_P1_28479426	Ca3	28479426	CTTTTTTTTTTT/CTTTTTTTTTTT	GCATTTGGTTGTCATG TGGA	CATTGCAATGGCGAC TTCT	60.4	331	DRR	Ca_07159	K	bHLH
Ca3_P1_28509480	Ca3	28509480	CATAATAATAATAATAAT/CATAAT AATAATAATAAT	TTGACATGTGGGCATA GGAA	TTTTGGAACAACAAGT CAACAA	59.9	716	INTERGENIC	--	--	--
Ca3_P1_28514570	Ca3	28514570	ATATTATTATTATTATTATTATTAT TATT/ATATTATTATTATTATTATTA TTATT	CAAAGAAAATGGTGGG GATG	AAATTGGACTATGCCA CCGA	60.2	841	INTERGENIC	--	--	--
Ca3_P1_28535226	Ca3	28535226	CATATATATATATATATATATATA TA/CATATATATATATATATATATA	AAGCGCCAATCTAGTT TCATTT	AAATGAGTCGTTGGA TTCAAAA	59.3	411	INTERGENIC	--	--	--
Ca3_P1_2855780	Ca3	2855780	G/GA	TGGGAAACAAAATGAT GTCAA	CACATGCAATTCCAAC CAAG	58.9	591	INTERGENIC	--	--	--
Ca3_P1_2855993	Ca3	2855993	TAAA/TAA	CTTGGTTGGAATTGCA GTGT	CGTTTTGGAAGGTAGG GTGT	60.0	514	INTERGENIC	--	--	--
Ca3_P1_2859847	Ca3	2859847	AACTA/AA	CGCAAGGACATTGAAA GGAT	ATTGGGCTCTGTGGTT CTTG	60.1	652	DRR	Ca_22151	R	NAC
Ca3_P1_28672365	Ca3	28672365	ATATTATTATTATTATTATTATTAT TA/ATATTATTATTATTATTATTATT A	CGAGAGAGGGGACAA AACTG	ATCGTCAAAATGATGG GACC	59.8	255	INTRON	Ca_07175	E	C3H
Ca3_P1_28684295	Ca3	28684295	TTTTATTT/TTTTATTTTATTTATTT	GCCCCTACTTGTAGCA CTGG	CAAACAATAGATGGCA CCGA	59.8	253	INTERGENIC	--	--	--
Ca3_P1_2879647	Ca3	2879647	CAAACATCTG/CAAACATCTGACCACA TTAAACATCTG	GGTGCAGCTGAATTTG AACA	GGTGGTGCTGTTGTG TATCG	59.8	361	DRR	Ca_22154	T	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_28797139	Ca3	28797139	CAA/CAATTCGATAA	CAAGGAGCTGTTTGC TTCA	GTAAGATGGCACGCG GTAGT	59.2	609	INTERGENIC	--	--	--
Ca3_P1_28797825	Ca3	28797825	A/AG	CATAGTCTGCGAAACC AGCA	GGTGAATTGATCGGA GAGA	60.0	454	INTERGENIC	--	--	--
Ca3_P1_28799476	Ca3	28799476	G/GTC	TCTTGGACCTCACTGG GTTT	TGTCCTTGATCTTGT TCCG	59.5	836	INTERGENIC	--	--	--
Ca3_P1_28799571	Ca3	28799571	AG/A	TCTTGGACCTCACTGG GTTT	TGTCCTTGATCTTGT TCCG	59.5	836	INTERGENIC	--	--	--
Ca3_P1_2884020	Ca3	2884020	AA/AATAATAATAATTA	TCGAGAAAATTGAACG GACA	AACAAAATAAAGCGGA CAGTCA	59.2	565	INTERGENIC	--	--	--
Ca3_P1_28859122	Ca3	28859122	CAAAAAAAAA/CAAAAAAAAAA	TTTCCCGACTTGGTCC TTTA	ATGACATTTGCGCAAA CACA	59.5	432	INTERGENIC	--	--	--
Ca3_P1_2886351	Ca3	2886351	AATATATATATATATATAT/AATATA TATATATATATAT	TGTTTTGTAAAGTAA AGCCCC	CATGTGTTTGACGATG TGAATTT	58.7	548	INTERGENIC	--	--	--
Ca3_P1_28966806	Ca3	28966806	TTATATATATATATATATATAT/TTAT ATATATATATATATATATATAT	TCGATATTTAGAATTTA CGAACGAGA	ATTCAAGAAAGTTCGC CGTG	59.6	850	INTERGENIC	--	--	--
Ca3_P1_28984656	Ca3	28984656	GTCTCTCT/GTCTCT	GAGAACGCAAGCTAAC GGAC	GGATCAGAGAAAACGT GGGA	60.0	326	INTERGENIC	--	--	--
Ca3_P1_28994933	Ca3	28994933	AC/A	CAAAATTAAGCAGAGCC CGTC	TTTTGGACAATGTCAA CCCA	59.8	165	INTRON	Ca_07207	KTDL	--
Ca3_P1_28995118	Ca3	28995118	CAA/CAAA	CAAAATTAAGCAGAGCC CGTC	CGGAATTTGAACAAA CGCT	59.8	769	INTRON	Ca_07207	KTDL	--
Ca3_P1_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/P1)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_28999636	Ca3	28999636	CT/CTT	TCTGAATTTCTGTACC GCCC	GGGATAGGGCATGTG TGAGT	60.1	536	INTRON	Ca_07207	KTDL	--
Ca3_P1_2901635	Ca3	2901635	TG/T	GCGGTGTTGTAAACGGA GTTT	TCACGCTCCTTCACC TTCT	60.0	473	INTERGENIC	--	--	--
Ca3_P1_29053872	Ca3	29053872	TTATATATATATATATATA/TTATATA TATATATATATATATA	TCCTCCGCTCTTTTCATT TGG	GTTTGGGGAGTGT AGCTT	60.0	456	INTERGENIC	--	--	--
Ca3_P1_29087546	Ca3	29087546	AATATATATATATATATATATATA TATATATATATA/AATATATATATAT ATATATATATATATATATATA	GCTGGAAGCTTCTAAT GGCA	AAACGCCTTTTCAGA ACAT	60.5	471	INTERGENIC	--	--	--
Ca3_P1_29091788	Ca3	29091788	TAAAAA/TAAAAA	TTTTGAAAAGCGCTG TAAA	CTTCGACACTGTAGCA CCCA	59.9	852	INTERGENIC	--	--	--
Ca3_P1_29123888	Ca3	29123888	AATATATATATATATATATATATA T/AATATATATATATATATATATAT	AGGCCAACACAGAATC TTGG	GTGCTGCTTTGTGCT GCAT	60.1	548	DRR	Ca_07216	R	--
Ca3_P1_29147395	Ca3	29147395	TTTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTAT TA/TTTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTATT ATTATTATTATTATTATTA	TGTTGAGGGAAAATAA AAGGGA	TGTGGATCCAAACCTT GTTTA	59.8	704	DRR	Ca_07218	L	bHLH
Ca3_P1_29162412	Ca3	29162412	GACAACAAC/GACAACAACGAAATTAC AACAAC	TCAAATTCACGACTCA CGGA	GGTTGGTTGGTTCAA GCAT	60.2	668	INTERGENIC	--	--	--
Ca3_P1_29224433	Ca3	29224433	ATTTTTTTTT/ATTTTTTTTTTT	TGCAATTTGTTGGAGC GTTA	TTGCTCCAAATTTCAA AGGC	60.3	394	INTERGENIC	--	--	--
Ca3_P1_29228366	Ca3	29228366	TTATATATATATATATATAT/TTATAT ATATATATATATAT	TCGGAGGCAGAGACAA GTTT	TTAATTGGGGGAAATC CACA	60.0	364	INTERGENIC	--	--	--
Ca3_P1_2930472	Ca3	2930472	ATCTC/ATCTCTC	AGGCGATGGAGGATAA AACC	CGGAAACGAGTGAAAC CAAT	60.3	502	INTRON	Ca_22158	D	--
Ca3_P1_293228	Ca3	293228	AGG/A	GCTGAAAACACCCCG ATCA	AACGAGCACTTATGTG CCAA	60.1	803	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_29334875	Ca3	29334875	TTATATATATATATATATAT/TTATAT ATATATATATATATATATAT	GGGTGGCTCATGAAGC T TAG	TCTCAACCGTTTGGT GACA	59.8	576	INTERGENIC	--	--	--
Ca3_P1_29446926	Ca3	29446926	GCA/GCACA	CAGCAGGGGCATACGT TAAT	GATTCCCCTCCCTGAT TCTC	60.0	306	INTERGENIC	--	--	--
Ca3_P1_29506460	Ca3	29506460	CGTT/C	TGCCCTGTCAATCAAT GTTA	TCAATCCCCTCAATC ATCA	59.9	598	DRR	Ca_07256	T	FAR1
Ca3_P1_29511325	Ca3	29511325	AAAGAAGAAGAAGAAGAAGAAGA A/AAAGAAGAAGAAGAAGAAGAA GAAGAAGAAGAAGAAGA	TCCACTGAAACAACCC CTCC	GTGAAGTAGGTCGAG GCGAG	59.9	798	INTRON	Ca_07256	T	FAR1
Ca3_P1_29563741	Ca3	29563741	TATTCAAATAAATT/TATTCAAATAAAT TCAAATAAATT	GCACATGCGGTCCTTT AACT	TTCCCCTCTCTCCCTC TCTC	60.1	648	INTERGENIC	--	--	--
Ca3_P1_29572508	Ca3	29572508	TTTA/TTTAGCCTAAAAAGTATTA	GGACCAATTCGGAAAA AGAA	TTGGCACCCCAATTT TAAG	59.0	359	DRR	Ca_07262	R	bHLH
Ca3_P1_2962592	Ca3	2962592	TTTATTATTATTATTATTATTATTA TT/TTTATTATTATTATTATTATTAT T	AGAGGCAACAAGAAC CGAA	AACTCGGTGCCAACAG TCTT	59.9	596	INTERGENIC	--	--	--
Ca3_P1_29657495	Ca3	29657495	AAT/A	CGTTTGTGAATATCT GCTCA	TCTCTCCCTCGAATGT ACGG	58.9	385	INTERGENIC	--	--	--
Ca3_P1_29658789	Ca3	29658789	ATTTTTTT/ATTTTTTTT	TGGCCTACTTATGGCC TGAC	AAGTCTGGCCTACGG CCTAT	60.1	619	INTERGENIC	--	--	--
Ca3_P1_29686720	Ca3	29686720	TAAAAAAAA/TAAAAAAAAA	TTAGCAGAGCTGCATT GGTG	TGACAATGGTTAAAAA TGAGGAGA	60.2	792	INTERGENIC	--	--	--
Ca3_P1_29693307	Ca3	29693307	GTTTTTTTTT/GTTTTTTTTT	TGGAATCGCTACCGAA TATG	TGCTCAAGAATCAAGA TGCG	58.6	572	INTERGENIC	--	--	--
Ca3_P1_29740808	Ca3	29740808	A/ATATATAT	TTTGCCCGTTGTAT TCTC	GAAGCACCAGTCCTTA CCACA	59.9	906	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_29748543	Ca3	29748543	CATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTA TTATTATTATTAT/CATTATTATTATTAT TATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTA	TGCACCAAGTCACTAA CAAAAA	GGTGGCCCTCAACTTT CTTT	58.4	404	INTERGENIC	--	--	--
Ca3_P1_29749714	Ca3	29749714	TTATATATATATATATATATATATAT AT/TTATATATATATATATATATATAT AT	TCAAATTCATGTGGTT GAGTGA	ACCCATCGAGGAACAA ACAG	60.4	946	INTERGENIC	--	--	--
Ca3_P1_29752847	Ca3	29752847	TAAAAAAAAA/TAAAAAAAAA	AATCGAGATGCCTTAG TGCG	CCTATCCCACCCCT TTTA	60.4	868	INTERGENIC	--	--	--
Ca3_P1_29771272	Ca3	29771272	CTTTTTTTTT/CTTTTTTTTT	GGATTGCATTATTGCC AAGTT	GCGAGACATTTTGGGT GAAT	59.0	264	INTERGENIC	--	--	--
Ca3_P1_29772076	Ca3	29772076	ATTTTTTTTT/ATTTTTTTTT	CCAGTCCACAACCAT CTTT	GCAAATGTTCTGGTCG CATA	60.1	391	INTERGENIC	--	--	--
Ca3_P1_29779379	Ca3	29779379	TTATATATATATATATAT/TTATATAT ATATATATATATAT	GAGGAAAGCTTGTGC TTGG	CCGAATATAAATCATTT GTGGAAA	60.0	323	DRR	Ca_07285	--	--
Ca3_P1_29809142	Ca3	29809142	ATAT/ATATAATTAT	GCTCATGCCTCCTTCA AAAA	AAGCAGCCATAATGAC AGGG	60.3	856	INTERGENIC	--	--	--
Ca3_P1_29834248	Ca3	29834248	CAAAA/CAA	TCCAATAATTTGGCC CATC	CCAAATTGTAAATCG GTCG	59.6	335	DRR	Ca_07291	--	NF-YB
Ca3_P1_29845748	Ca3	29845748	CATAAAATAAAATAAAATAAA/TA CATAAAATAAAATAAAATAAA	CCAAAAGTGAAACCA AGGA	CTCTGTCCCAGAACT TACA	59.9	345	INTRON	Ca_07292	--	bZIP
Ca3_P1_29927483	Ca3	29927483	ATTTTTTTTT/ATTTTTTTTT	CGGTGATCGAATTGAT GTTG	GGCTGGATCAAAATTG GTGT	59.9	373	INTERGENIC	--	--	--
Ca3_P1_29949453	Ca3	29949453	TAAAAAA/TAAAAA	TGTGGAGGTATTTTT GGGC	AAGCCGGCAGTGTAG TGCT	59.8	692	INTERGENIC	--	--	--
Ca3_P1_29970428	Ca3	29970428	CATATAATATAATATAAT/CATATA TATAATAT	GCAAATAACATCGAGG TTCAGG	AACGACTCAGATGAAA TGCAA	60.8	454	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_30032330	Ca3	30032330	CTTTTTTTTT/CTTTTTTTTTTT	CGTGACAATAAAACG GGCT	TTTGCCTTACGAATTT GATGA	60.0	574	INTERGENIC	--	--	--
Ca3_P1_30054625	Ca3	30054625	GAAAAAAAAA/GAAAAAAAAA	AGCTGCTCAGATTGG AATCA	GAGGCTTGCATGGACT TAGG	60.0	498	INTERGENIC	--	--	--
Ca3_P1_30061370	Ca3	30061370	CTTT/CT	CCAAAAATGACATTAAT CTTGCC	ATCACAAATTTGGTGCA GTTTT	59.7	194	INTERGENIC	--	--	--
Ca3_P1_30071057	Ca3	30071057	TAAAAAAAAA/TAAAAAAAAA	TAAAGCCAATGGAAC TGGG	ATCGCTCTCCTCTCA AACA	59.9	247	INTERGENIC	--	--	--
Ca3_P1_30100381	Ca3	30100381	ATATTATTATTATTATTATT/ATATT ATTATTATTATTATT	TTGCACATTACTCAAC CGC	ATTCCAGAAATGCGAC CTTG	59.7	319	INTERGENIC	--	--	--
Ca3_P1_30152540	Ca3	30152540	TTTATTATTATTATTATTATTATTA TTATTAT/TTTATTATTATTATTATT ATTATTATTATTATTATTAT	CCCTATTGGTGAGTGC TCCA	CAACACTCAAACATGC CAAAA	61.1	877	INTERGENIC	--	--	--
Ca3_P1_30159874	Ca3	30159874	ATTTTTTT/ATTTTTTT	TGGATCAAACCTTAAC CCCTCC	TTGCAATCAATGCCCT CATA	59.5	490	INTERGENIC	--	--	--
Ca3_P1_30177912	Ca3	30177912	CTATATATATATAT/CTATATATATATA TAT	GAAATTGCAAAATTAA TGCAACA	TTGTTGATCTTTGTGG GCAA	60.2	868	INTERGENIC	--	--	--
Ca3_P1_3022233	Ca3	3022233	A/ATTTTCC	AGTTTTGGTAATTGTT GGTTTTATTT	CTCTAAGCCCCACAGA GTCG	57.8	328	INTERGENIC	--	--	--
Ca3_P1_30331116	Ca3	30331116	ATTTTTTTTT/ATTTTTTTTT	CGTGTTCAAAGCCACC ACTA	TGAAGGTTGGGTTGGT GAAT	59.8	847	INTERGENIC	--	--	--
Ca3_P1_30339041	Ca3	30339041	AAA/AAATAA	CCTCTCCAACCATGA AATG	CCTGTGTGGTCAGAAA GGGT	60.3	496	INTERGENIC	--	--	--
Ca3_P1_30404235	Ca3	30404235	AAATAATAATAATAATAATAATAA/ AAATAATAATAATAATAATAATAAT AA	CAAGTGCCTTAGCAT TTCCC	CGGAGTAGCAAGCCA GAATC	58.7	469	DRR	Ca_07361	R	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_30415056	Ca3	30415056	AG/AGAAAGAGTG	TGGATACAAATGTCAA CAAACATCA	CGCATATTGTTTATG CACCA	59.7	505	INTERGENIC	--	--	--
Ca3_P1_30415596	Ca3	30415596	TG/TGCGGG	TGGTGCATAAAACAAT ATGCG	CCCAACTAGGCGACT ATCA	59.5	704	INTERGENIC	--	--	--
Ca3_P1_30421988	Ca3	30421988	CTTTTT/CTTTTTTT	TTCAATGCCTTCCAAT CCTC	CAAGCAGGAATCCTT TGAC	60.0	255	INTERGENIC	--	--	--
Ca3_P1_30450479	Ca3	30450479	ATCTTCTTCTTCTTCTTCT/ATCTT CTTCTTCTTCTCT	TCATGGGCCACAGCAT ATAA	GTCGTGCCAGCACAA GAGTA	59.9	366	INTERGENIC	--	--	--
Ca3_P1_3050180	Ca3	3050180	TGG/TG	GCTCATGATGATCCAC CAAA	AAAGGGAGAAGCTTAG GCCA	59.5	958	INTERGENIC	--	--	--
Ca3_P1_3051012	Ca3	3051012	A/ATATATATATC	TGGCCTAAGCTTCTCC CTTT	TGTGCTCCAATTACTT CTTTAGCA	60.3	598	INTERGENIC	--	--	--
Ca3_P1_3054800	Ca3	3054800	TAAAAAAAAA/TAAAAAAAAA	TCTACGTATCTCTCGG TGCG	TGTCTTCTCGTTGTT GCCA	59.1	639	INTERGENIC	--	--	--
Ca3_P1_30586754	Ca3	30586754	CTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTAT/CTAT TATTATTATTATTATTATTATTAT ATTATTATTATTATTATTAT	CGTTCTCTCCTCCCTT CCTC	TTTTCTTTGATTCCGAA CCG	60.3	530	INTERGENIC	--	--	--
Ca3_P1_30602335	Ca3	30602335	TTGA/TA	GCCCTCAGATGAGAGT CAGG	AAATTAACCTCATC CCCG	59.9	842	INTERGENIC	--	--	--
Ca3_P1_3063406	Ca3	3063406	AG/AGAGGATGG	GGAAGGGGTTTGATT GGTT	GAACCACCATCCCAA AATG	60.0	705	INTERGENIC	--	--	--
Ca3_P1_3066200	Ca3	3066200	AAATAATAATAATAATAATAATAAT AATAATAATAATAATAATAATAATA AT/AATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATA TAATAATAAT	CACGGTCCCTAGAGCC AATA	TAAATTTTGGTGGCGA TTCC	60.1	596	INTERGENIC	--	--	--
Ca3_P1_30708614	Ca3	30708614	ATTTTTTTT/ATTTTTTTTT	CGTCAGTCAACATGTA TGTGC	GCACACAAAATTATG CAAGGA	57.6	655	INTERGENIC	--	--	--

[illegible]

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_31083415	Ca3	31083415	CAATAATTATAAATTAT/CAATAATT ATAATAATTATAATAATTAT	CTTAGATTCAAAGGAC GGCG	AGTTAGTATCACCGTG GCGG	59.8	655	INTERGENIC	--	--	--
Ca3_P1_31101603	Ca3	31101603	ATTTTTTTTT/ATTTTTTTTTTT	ATGGTCCCAATGAAAT CCAA	TGTGTTGTCTCTGGCC TTTG	60.0	843	INTRON	Ca_12207	--	--
Ca3_P1_31126519	Ca3	31126519	ATTTTTTTTT/ATTTTTTTTT	TATCGCTTTAAGGTCTG CGTT	AAAATTCATCACCCCA TTCG	59.9	406	DRR	Ca_12210	R	HD-ZIP
Ca3_P1_31138102	Ca3	31138102	GAAAAAAAA/GAAAAAAAA	TTTTTGCAACGGTACA TTTT	GAATATGGGCTTCTT GGCA	57.3	745	INTERGENIC	--	--	--
Ca3_P1_31201179	Ca3	31201179	TTAATAATAATAATAATAATAATAA TAATA/TTAATAATAATAATAATAA TAATAATAATAATAATA	AAGCTATTTTTAGTGG GAGAACTTTT	TTGGTGACACTCTAGC AAAGGA	58.6	371	INTERGENIC	--	--	--
Ca3_P1_31262764	Ca3	31262764	ATTTTTTT/ATTTTTTT	AAGCACCGTACGCTTG AACT	AAGGGTCAACATTTTG CGTC	59.9	855	INTERGENIC	--	--	--
Ca3_P1_31266098	Ca3	31266098	TC/T	TGCGTGCCTTTGAT TAAC	TAGCCCAAGTCAACCG AATC	59.9	446	INTERGENIC	--	--	--
Ca3_P1_31272282	Ca3	31272282	TA/T	CTGCAATCATTCTCAG GCAA	TTACGCGTTTTCTGG ATTT	59.9	785	INTRON	Ca_12223	Z	bHLH
Ca3_P1_31278038	Ca3	31278038	C/CGACTG	AAAAACAGCGTGGA GTTATGA	GTAAGGATATCCGGAG GGGA	60.1	494	INTERGENIC	--	--	--
Ca3_P1_31290021	Ca3	31290021	T/TTGA	GGTTCAAACGTGTTC CTTG	ACGCTCTCAAATCGAC CATC	60.4	929	DRR	Ca_12225	P	ERF
Ca3_P1_31290969	Ca3	31290969	CAAAAAAAAA/CAAAAAAAAA	GATGTCGATTTGAGA GCGT	TTCATAGGGTCACGGC AAAT	60.2	812	DRR	Ca_12225	P	ERF
Ca3_P1_31291433	Ca3	31291433	GAAAAAAAA/GAAAAAAAA	ATTTGCCGTGACCCTA TGAA	AAATGTTAAGCTAATTA AAGTGTGG	60.3	625	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_31292004	Ca3	31292004	TTCT/TT	CCAAACACTTTAATTAG CTTAACATTT	AATTGGCTTGATGTCC CAAC	57.8	419	INTERGENIC	--	--	--
Ca3_P1_31293455	Ca3	31293455	TG/TGG	TGGGATGTTTGAGAAA AGCA	ATCCCATCCCACCAAC AATA	59.2	522	INTERGENIC	--	--	--
Ca3_P1_31293569	Ca3	31293569	AT/ATT	TGGGATGTTTGAGAAA AGCA	CCCACATCGTTTATCC CATC	59.2	534	INTERGENIC	--	--	--
Ca3_P1_31295638	Ca3	31295638	AT/A	GGACCATGGACTCCAG AAGA	TGTTTCCCAACATTTG ATGC	60.0	361	INTRON	Ca_12226	K	MYB
Ca3_P1_31295880	Ca3	31295880	AT/ATT	GGACCATGGACTCCAG AAGA	TCGTCCTCCATCAGTT CGAT	60.0	688	INTRON	Ca_12226	K	MYB
Ca3_P1_31295937	Ca3	31295937	AAAAAA/AAAAAACAAAA	GGACCATGGACTCCAG AAGA	TCGTCCTCCATCAGTT CGAT	60.0	688	INTRON	Ca_12226	K	MYB
Ca3_P1_31296714	Ca3	31296714	ATTTTTTT/ATTTTTT	TCGGTTTTAAGGGAAG CAAA	ACACACGCGTCAAACT CAAA	59.7	365	INTRON	Ca_12226	K	MYB
Ca3_P1_31296813	Ca3	31296813	CGTGTGT/CGTGT	TCGGTTTTAAGGGAAG CAAA	TGCTGCAATAGCTGAC CATC	59.7	806	INTRON	Ca_12226	K	MYB
Ca3_P1_31298126	Ca3	31298126	GTTATTATTATTAT/GTTATTATTATTA TTAT	GGACTTTTGGCACGAT GTTT	TTTGCAACTTTTGACG GACA	60.0	716	DRR	Ca_12226	K	MYB
Ca3_P1_31298291	Ca3	31298291	CT/CTTTT	TGAGAGGTCGATTTTG GAGG	TTTGCAACTTTTGACG GACA	60.2	506	DRR	Ca_12226	K	MYB
Ca3_P1_31299543	Ca3	31299543	AGG/AG	CATGGCAACAGCTTCA GGTA	GGGGATTAATTTCCCTT CCCA	59.9	717	DRR	Ca_12226	K	MYB
Ca3_P1_31303733	Ca3	31303733	TTTTATTATTATT/TTTTATTATTATTT ATTTATTT	TCCCTCAATTGCATCA AACA	ACAACAGATGGCTGCA CAAG	60.0	482	DRR	Ca_12228	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_31307955	Ca3	31307955	CTT/CTTT	TCGTTTCCAAATCCAA CACA	AATGCCCTGTAAATT GGTCC	59.9	893	INTRON	Ca_12229	--	Dof
Ca3_P1_31311879	Ca3	31311879	TTATA/TTATATA	TTTCACGTTCTTCAAA CCA	TTATTCATTGCTCGT GCAG	59.1	352	DRR	Ca_12230	--	Dof
Ca3_P1_31317909	Ca3	31317909	TA/T	CCATCAACACACTGT TGCC	GCCACAGCAGACAAG ATGAA	60.0	607	INTRON	Ca_12231	--	Dof
Ca3_P1_31319681	Ca3	31319681	GAAAA/GAAAAA	CGTGGCTCCTCAAAG TCTC	ATGCACAAGGCTTCCA TACC	60.0	599	DRR	Ca_12232	U	bHLH
Ca3_P1_31323955	Ca3	31323955	CTTTT/CTTT	AATCCATGTAAACCGA CCCA	GTGGTCACACTAAGG GGGAA	60.0	510	INTRON	Ca_12232	U	bHLH
Ca3_P1_31326387	Ca3	31326387	GTTTT/GTTT	CGGGTACAGCCGGTAA GTAA	GGGTGCCTTTAAAGTG TGGA	60.0	639	INTERGENIC	--	--	--
Ca3_P1_31327857	Ca3	31327857	TAAAAA/TAAAAA	ATTATGGTCGCGAATG ATCC	AATTGCGGTTAGTTGG ATGC	59.8	528	INTERGENIC	--	--	--
Ca3_P1_31327991	Ca3	31327991	AAT/AATATAT	ATGGAGGCATCCAAC AACC	CATGGCAAATTTAGGA TGTTGA	58.9	455	INTERGENIC	--	--	--
Ca3_P1_31328317	Ca3	31328317	ATTTTT/ATTTTTTT	TCCAACATAACCGCAAT TCAA	TCATGGCAAATTTAGG ATGTTG	59.2	447	INTERGENIC	--	--	--
Ca3_P1_31333366	Ca3	31333366	ATTTT/ATTT	TTCTCCGTGAAGGAGC TGTT	GACAACCAATGTTTCT GCCC	60.0	703	INTRON	Ca_12233	S	bZIP
Ca3_P1_31333717	Ca3	31333717	CAAAAA/CAAA	AAATTTTGTGCGTTTG CAT	TCATGATTTCCCTTC CCTG	57.2	560	INTRON	Ca_12233	S	bZIP
Ca3_P1_31334400	Ca3	31334400	CTTTTTTT/CTTTTTTT	AAACCATTGGTGTTTA GGCG	CAAATTATGGGGGTCT CGTG	59.9	738	DRR	Ca_12233	S	bZIP

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_31336604	Ca3	31336604	T/TC	AGCAGGCCTGGACCT TACT	GGAATGCCAACGAATG AAAA	60.3	555	INTERGENIC	--	--	--
Ca3_P1_31338630	Ca3	31338630	ATTT/ATT	TATCGTTCTGTGCTCT CGTG	GGCCGAAAGTTATTAC GTGG	60.0	870	INTERGENIC	--	--	--
Ca3_P1_31339236	Ca3	31339236	T/TC	CCAACCCATGTACCGA CATT	AGAGACCGTTTCATGA GATTTG	60.5	525	INTERGENIC	--	--	--
Ca3_P1_31342385	Ca3	31342385	CATTATTATTATT/CATTATTATTATTA TTATT	AAAGAAAGCGTCCACC ATTG	GGAAGTGAAAACCTTGC CACAA	60.1	646	DRR	Ca_12234	--	--
Ca3_P1_31342738	Ca3	31342738	CAAAAAA/CAAAA	CGCAGTGGACTGGAAA AGTT	TGCATTGCACACAAGA ATGA	60.3	640	DRR	Ca_12234	--	--
Ca3_P1_31343075	Ca3	31343075	CAATAAAAAATAAAAAATAAAAT/CAATA AAAAATAAAAT	TGGCAAGTTTTCACTT CCATT	GATCACGGGAGGATC GACTA	59.6	792	DRR	Ca_12234	--	--
Ca3_P1_31343767	Ca3	31343767	G/GT	AATAGTCGATCCTCCC GTGAT	CCATGCTCAAGTCTAG GTTCTG	59.8	510	DRR	Ca_12234	--	--
Ca3_P1_31344725	Ca3	31344725	CATGATTTAGCTCTATGATT/CATGAT T	TTGTCAACAAGCAAAAC CCAA	TTCTTCAGCTGGCTTT CCAT	60.1	633	INTERGENIC	--	--	--
Ca3_P1_31344900	Ca3	31344900	GTAATAA/GTAA	TGCTTGCCATTGATCG TCTA	TTCTTCAGCTGGCTTT CCAT	60.4	280	INTERGENIC	--	--	--
Ca3_P1_31347476	Ca3	31347476	CAAAAAAAAA/CAAAAAAAAA	TCTTACGAAATTGCAC ACGC	CGCAATTGATGTTGTT GACC	59.9	173	INTERGENIC	--	--	--
Ca3_P1_31349079	Ca3	31349079	CAT/CATGAT	TAAAGGCATTTCGCTG TTGA	TTTTGGTGAAAGCCAA TAACG	60.3	512	INTERGENIC	--	--	--
Ca3_P1_31353167	Ca3	31353167	TAAAA/TAAAAA	GGCACTATTTTGAAA TTTTAAGG	GAATGACATATTGTGG CAGCA	59.4	517	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_31353219	Ca3	31353219	CAAAAA/CAAAAAA	TCCCTAAAGTTTCTTC ATCCAA	GAATGACATATTGTGG CAGCA	59.2	225	INTERGENIC	--	--	--
Ca3_P1_31364505	Ca3	31364505	CTTTTTTT/CTTTTTTTTT	ACCAATGTCTCGCAAG CTCT	GGTAACATTGTCATC GTTGG	60.0	458	INTERGENIC	--	--	--
Ca3_P1_31366021	Ca3	31366021	A/ATT	CCCTCTGTGCCTGTC TTTC	CAACGGGAATCTCCG TCTA	59.8	469	INTERGENIC	--	--	--
Ca3_P1_31371532	Ca3	31371532	TATCAT/TATCATCAT	GGATCAGCCCAATTGG TAAA	TAGACCATAAGCCCT GACG	59.8	322	INTERGENIC	--	--	--
Ca3_P1_31375853	Ca3	31375853	TAATAAATAAATAA/TAATAAATAAATA AATAA	TGGTTGTGAGAGCAGG TTCA	CATATGTGAACCATGG CAGC	60.4	334	INTERGENIC	--	--	--
Ca3_P1_31376681	Ca3	31376681	GTAT/GTATTTTTCATTAATAT	AGGGGCATGCTTGTGT AAAT	GACCAACTTTATGCGT GCAA	59.5	581	INTERGENIC	--	--	--
Ca3_P1_31379455	Ca3	31379455	TTT/TTTATT	AGTGTTAGATTGGGT GGCG	CAATTCATAAAATCAA AGACGATG	60.0	770	INTERGENIC	--	--	--
Ca3_P1_31381469	Ca3	31381469	TC/T	TAAACCTTGGCTGGGT CAAC	TTGTTTATTTTGTTCGT CGTGTT	60.0	403	INTERGENIC	--	--	--
Ca3_P1_31381485	Ca3	31381485	AATAT/AAT	TAAACCTTGGCTGGGT CAAC	TTGTTTATTTTGTTCGT CGTGTT	60.0	403	INTERGENIC	--	--	--
Ca3_P1_31381715	Ca3	31381715	GATATA/GATA	TAAACCTTGGCTGGGT CAAC	TTGTTTATTTTGTTCGT CGTGTT	60.0	403	INTERGENIC	--	--	--
Ca3_P1_31381813	Ca3	31381813	AT/A	TAAACCTTGGCTGGGT CAAC	TTGCTACCATTGTAA GCTTGTTT	60.0	611	INTERGENIC	--	--	--
Ca3_P1_31383053	Ca3	31383053	CTTTTT/CTTTT	CCCTAAATCAACGGGA GTCA	AGCCGTCACTCTTTCT CCAA	59.9	285	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_31383299	Ca3	31383299	GATAAAAA/GATAAAATAAAAA	TTGGAGAAAGAGTGAC GGCT	GAGGTGTTTGTTCGC GTCT	60.0	671	INTERGENIC	--	--	--
Ca3_P1_31383550	Ca3	31383550	TAAAAAAA/TAAAAAAA	TTGGAGAAAGAGTGAC GGCT	AATGCTGACTTGGCTC GAAT	60.0	783	INTERGENIC	--	--	--
Ca3_P1_31384078	Ca3	31384078	CAAAAA/CAAAAA	TTGACTCGGGTCCAT AAAC	TGTCTACCCGTCAAC AGCC	59.9	564	INTERGENIC	--	--	--
Ca3_P1_31385280	Ca3	31385280	ATTTTTTTTT/ATTTTTTTTT	TTTCGATTGATTTGCA TTTTG	TTGACATGACATGCAT TAACGA	59.9	381	INTERGENIC	--	--	--
Ca3_P1_31387066	Ca3	31387066	ATTTTTTTTT/ATTTTTTT	CCACACACAAACACT GGCT	AGAGACGGTAGCGTC GAGAG	59.6	511	INTERGENIC	--	--	--
Ca3_P1_31391982	Ca3	31391982	ATTTT/ATTT	CGTGCCACATTATCA ACAA	TCTTGCTCATGGTGCT TCTG	60.4	793	INTERGENIC	--	--	--
Ca3_P1_31392563	Ca3	31392563	TAC/T	CAGAAGCACCATGAGC AAGA	TGTCGGCAGTTAAGTT GGTG	60.1	439	INTERGENIC	--	--	--
Ca3_P1_31393335	Ca3	31393335	CTATA/CTA	CAACCACGTTGGTGTC AAAA	GAAAGCGAGAGGAC TTCAA	60.4	521	INTERGENIC	--	--	--
Ca3_P1_31401163	Ca3	31401163	TAAAAA/TAAAAA	ATTTGCTTCTGGACCC TTCA	ATAGACACGGGTGCAT TGTG	59.7	235	INTERGENIC	--	--	--
Ca3_P1_31402077	Ca3	31402077	TAAAA/TAAAAA	TGTACACGTCGGTGAA CAACT	TGTGGCGACAACCTAAC TTTGA	59.1	634	INTERGENIC	--	--	--
Ca3_P1_31413249	Ca3	31413249	AA/AATA	TGTTGCACGTTGGACA AGTT	GACTGCTACCAACCCA GCAT	60.2	374	DRR	Ca_12238	A	--
Ca3_P1_31416689	Ca3	31416689	C/CT	TGTTGGTTTGGGTCTC TTGA	CGTCGTCTGTTGAGGT GCTA	59.1	352	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_31426177	Ca3	31426177	C/CCCAACAAGTGT	TGAGTCCTCATCGGT ACAA	TCATCAATGACTAAAA TTTGTTTTGA	60.2	573	DRR	Ca_12239	R	YABBY
Ca3_P1_31434070	Ca3	31434070	ATTTTTTT/ATTTTTTT	GTTGGCTGTGTACATT TGCG	ACATAAAATGCGTCTG CGTG	60.2	607	DRR	Ca_12240	T	E2F/DP
Ca3_P1_31441706	Ca3	31441706	AT/ATGAAATT	AACAATTTTGAAC CCTAA	TTTGCAAGTGCAACTT CTGC	57.5	669	DRR	Ca_12242	--	--
Ca3_P1_31443800	Ca3	31443800	ATCAAGT/AT	GGACCATCCCATCCAA TATG	TTGATTGCTACATTC GTCCC	59.8	720	INTERGENIC	--	--	--
Ca3_P1_31444145	Ca3	31444145	G/GC	GGCCTTTAAGGAGACC CTTC	CCGTGTGATGCTTGGA GTTA	59.2	744	INTERGENIC	--	--	--
Ca3_P1_31444395	Ca3	31444395	AC/A	TGGTCGAAATTCAGG TGTG	CCGTGTGATGCTTGGA GTTA	59.5	121	DRR	Ca_12243	G	--
Ca3_P1_31444569	Ca3	31444569	TTAATA/TTAATAATA	TAACCTCAAGCATCAC ACGG	AACTCAACTAATCCGG CCAA	59.7	443	DRR	Ca_12243	G	--
Ca3_P1_31446074	Ca3	31446074	CTTTTT/CTTTT	CATCCCAATTTGCATT GGTT	TGGAGGCTATTGGTAC AGGG	60.6	531	DRR	Ca_12243	G	--
Ca3_P1_31448365	Ca3	31448365	TTTATT/TTTATTATT	GACCTTACATGCTCCA ACGC	TGGCCACACAAAAGT ACCA	60.7	440	INTERGENIC	--	--	--
Ca3_P1_31449194	Ca3	31449194	TGGGGG/TGGGGGG	GAGTTTTCTACCACGC ACCC	TTGGCCATATGAACCG AAAT	59.6	803	INTERGENIC	--	--	--
Ca3_P1_31450308	Ca3	31450308	CAAA/CAAAA	CCAAACACTTAACAAC GTCAGC	TCAATCACGTCCTTGC CATA	58.9	571	INTERGENIC	--	--	--
Ca3_P1_31450328	Ca3	31450328	AATAT/AATATAT	CCAAACACTTAACAAC GTCAGC	TCAATCACGTCCTTGC CATA	58.9	571	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_31451366	Ca3	31451366	CTTTT/CTTT	TGGATTTTACAAACGC CCTC	TCTGGCCTGACCTGAG CTAT	59.9	947	INTERGENIC	--	--	--
Ca3_P1_31452285	Ca3	31452285	AGCCTG/A	GGTGGGAATAGCTCAG GTCA	TTGAATGGTGATGCAA TGCT	60.1	877	INTERGENIC	--	--	--
Ca3_P1_31453640	Ca3	31453640	AAATTCGAAATCGAAT/AAAT	GACGCGGGTTTATGTT TGTT	GGATCAATGGCAAGA GCATT	59.9	539	INTERGENIC	--	--	--
Ca3_P1_31458789	Ca3	31458789	C/CACTAA	ATTGCGTGGTGCAAA GTAA	CAGCATGAAGTGCAAA GGAA	60.0	525	DRR	Ca_12244	P	--
Ca3_P1_31466998	Ca3	31466998	CTTTTTTTT/CTTTTTTTTT	GAAACCACGAGCAAGA AAGC	GCTCTCGCAAGAACAA AACC	60.0	759	INTERGENIC	--	--	--
Ca3_P1_31471223	Ca3	31471223	TAAAAA/TAAAAA	CTCTTCTCCCCCTTCT GCTT	CGATTGAGCTTTGGG TTTT	60.0	505	INTERGENIC	--	--	--
Ca3_P1_31471455	Ca3	31471455	CTTATTTATTTATTT/CTTATTTATTTAT TTATTT	AAAACCCAAAAGCTGA ATCG	CCCAAAGTTGGCATGA AGTT	59.2	624	INTERGENIC	--	--	--
Ca3_P1_31472024	Ca3	31472024	TAAAAAAAAAAAAAAAAA/TAAAAA AAAA	TGCCAACTTTGGGAGG AATA	AACTCTGTTGACGTT GTTGG	60.4	250	INTERGENIC	--	--	--
Ca3_P1_31472070	Ca3	31472070	GAAAAAATTCAGTA/GA	TGCCAACTTTGGGAGG AATA	AACTCTGTTGACGTT GTTGG	60.4	250	INTERGENIC	--	--	--
Ca3_P1_31473018	Ca3	31473018	ATTTTTT/ATTTTTTT	GCATATAGCGACGGGT AGGA	TGACTGCAATCAATAC AAATCTCA	60.1	182	INTERGENIC	--	--	--
Ca3_P1_31475626	Ca3	31475626	TAT/TATTCATATAGAT	ATCTTGTGCGTGCCGTC ATTT	TCACCAACAAATCTG AACCA	60.5	540	INTERGENIC	--	--	--
Ca3_P1_31475946	Ca3	31475946	CT/CTGGTATTT	CGTGCCGTCATTTTCA AGTT	TCACCAACAAATCTG AACCA	61.1	533	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_31476091	Ca3	31476091	TAAT/TAATCATTAGTTTCAAAT	TGGTTCAGATTTGTTT GGTGA	CAAACGTGAGTAAAC AACCA	59.0	568	INTERGENIC	--	--	--
Ca3_P1_31476304	Ca3	31476304	ATTTTT/ATTTT	TGGTTCAGATTTGTTT GGTGA	CAAACGTGAGTAAAC AACCA	59.0	568	INTERGENIC	--	--	--
Ca3_P1_31478334	Ca3	31478334	TCC/TCCC	TGGTGTGTGTAGCCA TAAAGG	GGGGCCTCTTCTTTG TTTC	59.9	614	INTRON	Ca_12246	--	--
Ca3_P1_31480271	Ca3	31480271	ATTAAT/A	AAGTTGGGAAGCAAAA GGGT	AATGATTGGATCTCAT GGGC	60.0	669	DRR	Ca_12246	--	--
Ca3_P1_31480294	Ca3	31480294	GATAATAATAATAATAACAATAAT AATAAT/GATAATAATAATAATAAT AACAATAATAATAAT	AAGTTGGGAAGCAAAA GGGT	AATGATTGGATCTCAT GGGC	60.0	669	DRR	Ca_12246	--	--
Ca3_P1_31495232	Ca3	31495232	CTTT/CTT	CCAAAATGGTGAGAGA CTTCG	TTCGGTGCTTTGTCTC TTCC	59.7	809	INTERGENIC	--	--	--
Ca3_P1_31498007	Ca3	31498007	GT/G	GGACACCACTCCCTCT GGTA	AAACCATGCGTCAGAA AACC	60.0	455	INTRON	Ca_12248	T	--
Ca3_P1_31498407	Ca3	31498407	ATTT/ATTTT	CTAGCTCGGGTTTCT GACG	TTGGCCACAGTTTAAC CACA	60.0	531	DRR	Ca_12248	T	--
Ca3_P1_31498522	Ca3	31498522	GC/G	CTAGCTCGGGTTTCT GACG	TTGGCCACAGTTTAAC CACA	60.0	531	DRR	Ca_12248	T	--
Ca3_P1_31498938	Ca3	31498938	ATTTTTTTT/ATTTTTTTTTT	GGCCAAGTTTTTGAT TGGC	GTCCTTCCTGCCTCGA AAAT	59.5	348	DRR	Ca_12249	I	--
Ca3_P1_31499028	Ca3	31499028	ATTTTTTTT/ATTTTTTTTTT	GGCCAAGTTTTTGAT TGGC	GTCCTTCCTGCCTCGA AAAT	59.5	348	DRR	Ca_12249	I	--
Ca3_P1_31502467	Ca3	31502467	TTAATA/TTA	GCAATACTCCCCTACC CTCC	TCCATCCTGATGCAAA ATCA	59.8	441	INTRON	Ca_12249	I	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_31513337	Ca3	31513337	CTT/CT	TCACCATGATTATGCC GAAA	GCTAGGTCGCTGTGA CATGA	59.9	687	DRR	Ca_12250	E	TALE
Ca3_P1_31514573	Ca3	31514573	CTTA/C	GATGTTGGTTCAGCAT CGTG	TTACTTGGGGGTTATG GGGT	60.1	540	DRR	Ca_12250	E	TALE
Ca3_P1_31519164	Ca3	31519164	C/CT	TACACGTGGCCTCAAA CAAA	TCAAGCATGGTTCCAA TCAG	60.1	364	INTERGENIC	--	--	--
Ca3_P1_31519218	Ca3	31519218	AA/AACAGGA	TACACGTGGCCTCAAA CAAA	AAGCCTGCAATGGATG AAAG	60.1	800	INTERGENIC	--	--	--
Ca3_P1_31520896	Ca3	31520896	ATTTTTTTTT/ATTTTTTTTTTT	GGCAACACACTTGCA GCTA	GCAGCAGTCAGCACTT GTTT	60.1	428	INTRON	Ca_12251	--	--
Ca3_P1_31530376	Ca3	31530376	AAT/AATGCAT	CCAATCGTAGGAAGGC CATA	TGGGAAATAGATCGGT CTCG	59.9	730	INTRON	Ca_12252	E	TALE
Ca3_P1_31530560	Ca3	31530560	TTGGGT/TTGGGTGGGT	AACCTCTTCTGCACAT TGGG	TGGGAAATAGATCGGT CTCG	60.1	449	INTRON	Ca_12252	E	TALE
Ca3_P1_31531107	Ca3	31531107	T/TC	CGAGACCGATCTATTT CCCA	GCCGTTATCGGACCTT TGTA	60.0	893	INTRON	Ca_12252	E	TALE
Ca3_P1_31531338	Ca3	31531338	CATGTAATGTAAT/CATGTAAT	CCGTACCAATCATCCC AATC	GCCGTTATCGGACCTT TGTA	60.0	427	INTRON	Ca_12252	E	TALE
Ca3_P1_31540731	Ca3	31540731	CTATATATATATATATATATA/CTAT ATATATATATATATATATA	CTGTTCCATTGTCCAA CACG	CACATGGGTGACATCT GAGG	60.0	566	INTRON	Ca_12253	LK	--
Ca3_P1_31542450	Ca3	31542450	GC/GCC	CATTGGTCACACGTGG ATTG	CGCCCTCACCCAATAG TTTA	59.8	495	DRR	Ca_12253	LK	--
Ca3_P1_31560705	Ca3	31560705	A/AAG	TGTTCACTGCCAACT CTGC	GCAGTGCACAACTGAT GGTT	60.0	585	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_31560796	Ca3	31560796	GAAAAAAAA/GAAAAAAAA	TGTTCACTGCCAACT CTGC	GCAGTGCACAACTGAT GGTT	60.0	585	INTERGENIC	--	--	--
Ca3_P1_31563003	Ca3	31563003	CATA/CATATA	GAATGGTGTTCCTTTG TCCC	AATTTCACCCAAAGAC ACGG	59.2	274	INTERGENIC	--	--	--
Ca3_P1_31563843	Ca3	31563843	CTTTTTTTTT/CTTTTTTTTT	TGCTTCCAACCTCTTAT CCAA	GATGATGGCTTACTTC GGGA	59.7	357	INTERGENIC	--	--	--
Ca3_P1_31564129	Ca3	31564129	ATTACACATAAAT/A	AAGTTTGACGCTATCC CGAA	AATGAAGCATTTTGGG GACTT	59.7	542	INTERGENIC	--	--	--
Ca3_P1_31565430	Ca3	31565430	GACGCCA/GA	GATTAACATGGTTGGG GTGG	TGCAAGCATGTGGTTC ATTT	59.9	258	DRR	Ca_12255	--	G2-like
Ca3_P1_31565687	Ca3	31565687	TA/TAA	GATTAACATGGTTGGG GTGG	CTATTTTCCCCATGCC CTTT	59.9	695	DRR	Ca_12255	--	G2-like
Ca3_P1_31566099	Ca3	31566099	CG/C	AAAGGGCATGGGGAAA ATAG	TTTTCATGCATTGAG ACGC	60.1	338	DRR	Ca_12255	--	G2-like
Ca3_P1_31566507	Ca3	31566507	CTTTTT/CTTTT	GCGTCTCAAATGCATG AAAA	CAGGATACCTCCAAA GCCA	59.8	790	DRR	Ca_12255	--	G2-like
Ca3_P1_31567532	Ca3	31567532	TC/TCTCTGC	TGGAGGTACCTGCCTT GTTT	ATCCCTTCGCTAGTA CGGT	60.1	754	INTRON	Ca_12255	--	G2-like
Ca3_P1_31574859	Ca3	31574859	CTTTTTTTTT/CTTTTTTTTT	TATCTACGTCGCTGCG ATTG	TGTGGGGGTCACATG TATTT	60.0	689	INTERGENIC	--	--	--
Ca3_P1_31575384	Ca3	31575384	CTTTTTTTTT/CTTTTTTTTT	CACAAATACATGTGAC CCCC	AGGAAAGATGACGGT GTGATG	58.5	457	INTERGENIC	--	--	--
Ca3_P1_31576727	Ca3	31576727	AATATATATATATATATATATATA /AATATATATATATATATA	GGGGTTGTGTTGGAT GAAG	AACCTCCATGGACATA GTTGAAA	60.2	946	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_31578353	Ca3	31578353	CTTTTTTT/CTTTTTTTTT	TGTGGGGTGCATGT ATTT	CCCAAATCTTCATGC CTGC	58.5	681	INTERGENIC	--	--	--
Ca3_P1_31578868	Ca3	31578868	TAAAAA/TAAAAA	GCAGGACATGAAGATT TGGG	GCCCGTTAGGATGTG GAGTA	60.5	273	DRR	Ca_12256	--	--
Ca3_P1_31583466	Ca3	31583466	ACCCCC/ACCC	GAAACCAAAATCCAGG CAAA	TTGCAAGTGCTGCTAA TGCT	59.9	512	DRR	Ca_12257	J	WRKY
Ca3_P1_31594774	Ca3	31594774	GATTT/GATTTTTTTTATTT	TTGTGAGAAAAGAGGG GTGG	TTTTTGACCAATAAAT AACATCAA	60.1	567	INTERGENIC	--	--	--
Ca3_P1_31595214	Ca3	31595214	CATTATAAACAT/C	TTGATGTTATTTATTGG TGCAAAA	AGTAACGACAACCTCC GTGG	58.5	623	INTERGENIC	--	--	--
Ca3_P1_31601843	Ca3	31601843	ATTT/ATT	TACTGGGCCTTGATT TCTG	TTGAAGTTGTGCTCGT GCTT	60.1	583	INTERGENIC	--	--	--
Ca3_P1_31602428	Ca3	31602428	GAGTGCTAGTGCTA/GAGTGCTAGTG CTAGTGCTA	GCACGAGCACAACTTC AAAA	AAAGAACCATCATCGC AGGT	60.0	618	INTERGENIC	--	--	--
Ca3_P1_31602911	Ca3	31602911	ATGTT/ATGTTGTT	ACCGAATATTCATGC TCCA	CCAAGTGATGTGCAT GGCT	60.3	565	INTERGENIC	--	--	--
Ca3_P1_31607270	Ca3	31607270	ATTTTTTT/ATTTTTTT	TACCCTAACGGTGCTC CATC	AAGATCATTCCCCAA ACCC	60.0	567	INTRON	Ca_12260	--	--
Ca3_P1_31609545	Ca3	31609545	T/TTA	GACAAAGCCAGAACCT TTGC	ACCCAAGCAGGCATAC AAAC	59.9	538	DRR	Ca_12260	--	--
Ca3_P1_31610075	Ca3	31610075	GAGAAGAAGAAGAAGAA/GAGAA GAAGAAGAAGAA	GTTTGATGCCTGCTT GGGT	CCCATCAAAATCCTTT CCTTC	60.0	557	INTERGENIC	--	--	--
Ca3_P1_31611126	Ca3	31611126	GAAAAGTAAAAGTAAA/GAAAAGTAA AA	TTTGGATTAGCCATAA CATCCA	CTTCACCTTCGTGGA AAGA	59.3	617	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_31624803	Ca3	31624803	AC/ACC	TCTGCCATTTTATTTT GGG	AATAATGCACCACTGC CACA	59.9	608	INTRON	Ca_12261	A	--
Ca3_P1_31629115	Ca3	31629115	ATTTTT/ATTTTT	GTTTGTTCGCAGTT GGTT	ATTTTGGAGGGATTG GAGG	60.0	498	INTRON	Ca_12262	T	--
Ca3_P1_31631967	Ca3	31631967	AATAT/AAT	ATTCAGCAGTCAACC CCAG	TGCAATTCACAAATG CGTA	60.1	738	INTRON	Ca_12262	T	--
Ca3_P1_31633229	Ca3	31633229	ATTT/ATT	TGGACCCAAGAACAGT GTCA	GCAATTCAGAAATGC AAGA	60.1	496	INTRON	Ca_12262	T	--
Ca3_P1_31633512	Ca3	31633512	GTT/GTTT	AAATGCCTGGTTTTG TTGC	CCTCCAGTTTCTTGGC ATGT	60.0	288	INTRON	Ca_12262	T	--
Ca3_P1_31690391	Ca3	31690391	CAAAAAAAAA/CAAAAAAAAA	TGGTCGCAACTGTCAA ATGT	CAAGAGACGTCGAAT CCGT	60.2	756	INTERGENIC	--	--	--
Ca3_P1_31705223	Ca3	31705223	TAAAAAAAA/TAAAAAAAA	TCTGTCGAACATGTGG CTGT	CATGCAATGGTCCAC GTTA	60.3	496	INTERGENIC	--	--	--
Ca3_P1_31754642	Ca3	31754642	TTATATATATATATAT/TTATATATAT ATATATATAT	TCTGAATTCGCTGAT GCTG	GGCCAATCTCTTTAG CTGC	60.1	854	INTERGENIC	--	--	--
Ca3_P1_31755384	Ca3	31755384	CTATATATATATATATATAT/CTA TATATATATATATATATATAT	GCAGCTAAAGAAGATT GGCCT	TTTGCATATGAACCA AATCA	60.0	467	INTERGENIC	--	--	--
Ca3_P1_31778793	Ca3	31778793	ATTTTTTTTTTT/ATTTTTTTTTTT	TGCAAAATTCACATAG GCCA	ATTTGGGGATTAGGG TTCG	60.1	541	INTERGENIC	--	--	--
Ca3_P1_31810634	Ca3	31810634	AAC/AACCTTTGAC	TGTGTGATTGCACAGG AACA	TTAGCGTGGGCAATA GTCA	59.7	253	INTERGENIC	--	--	--
Ca3_P1_31852962	Ca3	31852962	TTTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTAT T/TTTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTA TTATTATT	TTTAGGGAAATGGGTC ATGG	TCAATCTGTCTCGTTT TGATTGA	59.6	576	DRR	Ca_12289	G	STAT

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_3185857	Ca3	3185857	TAAAAAAAAA/TAAAAAAAAA	CGCCTCTCTTTTCTAT GCG	TGTTGCTGTTGTGCC TCTC	60.1	468	INTERGENIC	--	--	--
Ca3_P1_31895120	Ca3	31895120	CTAATATCTTAA/CTAATATCTTAATAT CTTAA	GCCCATCAAACCTCTGT GGAT	ATCGGGTGTCATTGT CGAT	59.9	771	INTERGENIC	--	--	--
Ca3_P1_31908295	Ca3	31908295	TAAAAAAAAA/TAAAAAAAAA	GAGGTGAAATGGTGT AGATTAGAG	TCGTTCAACACCAAT GGAA	57.5	863	INTERGENIC	--	--	--
Ca3_P1_31912229	Ca3	31912229	GAAA/GAAA	CTCGGATACTGCCGAT TGAT	TGCCTGTTCTCTGTGA TTGC	60.1	958	INTRON	Ca_12292	--	--
Ca3_P1_31982546	Ca3	31982546	AATATATATATATATATATATAT/AATA TATATATATATATATAT	TGATTCCCTTGCTGGC TTCT	TGATGACAAACAACG CACA	60.0	592	DRR	Ca_12299	O	FAR1
Ca3_P1_3235341	Ca3	3235341	AGCTTCAGTCGCT/AGCT	TGGAGTGAGCTGTGGT TGAG	TGGTCACCACTTGGTG TTTG	60.0	840	INTERGENIC	--	--	--
Ca3_P1_3235471	Ca3	3235471	TAAA/TAA	ATAGGCCAAGCAACCA AAGA	GACGATGGTGAAGAT GACGA	59.7	663	INTERGENIC	--	--	--
Ca3_P1_3235549	Ca3	3235549	GCACACA/GCACACACA	ATAGGCCAAGCAACCA AAGA	GACGATGGTGAAGAT GACGA	59.7	663	INTERGENIC	--	--	--
Ca3_P1_32399895	Ca3	32399895	CATATATATATATATATATATATATA TATATATAT/CATATATATATATATATA TATATATATATATATATATATATAT	TTTCTTTCCGAAATG GAGA	TGTGAATCCCCTTTA ACAA	57.4	523	INTERGENIC	--	--	--
Ca3_P1_32486522	Ca3	32486522	AAATAATAATAATAATAATAATAAT AATAATAAT/AAATAATAATAATAATAA TAATAATAATAATAAT	AACCACTTTTAAATCGA TGCG	TGCAGTAGTTTGTCTGC CATC	59.1	498	DRR	Ca_11974	--	--
Ca3_P1_32502813	Ca3	32502813	GAAAAAAAAAAAAA/GAAAAAAAAAAA AAA	TTGCGTTACGGATTGTG ATGA	CCGCATAAGCATTTAC TGGTG	60.1	457	INTERGENIC	--	--	--
Ca3_P1_32506989	Ca3	32506989	GTTTTTTTTTTT/GTTTTTTTTTTT	ATTGCGGAGAATTGTGG GATG	TTTGAAAAATGCACAT AGCCC	60.9	495	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_32563432	Ca3	32563432	TTATATATATATATATATAT/TTAT ATATATATATATATATAT	AAAATACGCGATGGCA ATTG	GGGATTGGTGGAAG GAGAT	59.9	854	INTERGENIC	--	--	--
Ca3_P1_32563568	Ca3	32563568	TTATATATATATATATAT/TTATAT ATATATATATATATAT	CGAAAGAAAAAGAAA CATCGC	GAAGGTGGCTCGGCA TATAA	60.2	574	INTERGENIC	--	--	--
Ca3_P1_32604694	Ca3	32604694	CTTCTTGATTATTTATTTCTTGAT/CT TCTTGATTATTTATTTCTTGATTATT TATTTCTTGAT	TCGGCACATCACAATC ATTT	TTGGCTTGCTTCACAC ATTG	59.9	677	DRR	Ca_11988	NI	--
Ca3_P1_32623510	Ca3	32623510	TTATATATATATATATATA/TTATATATA TATATATA	CTTCTGAATACCGGGC TCAC	AAATTGATGGTGGGT GGTG	59.7	719	INTERGENIC	--	--	--
Ca3_P1_32629755	Ca3	32629755	TAAAAAAA/TAAAAAAA	TTTTTGCGGTCCTTG AATTA	GCGGTATTCACCTCAA ACTGA	59.6	819	INTERGENIC	--	--	--
Ca3_P1_32659972	Ca3	32659972	AATATATATATATATATATAT/AA TATATATATATATATATAT	TTCTCCTTGAAGCTGT CGGT	AAATTGGGCTTACTGG GCTT	60.0	604	INTERGENIC	--	--	--
Ca3_P1_3272993	Ca3	3272993	TTATATATATATATATATATATAT ATATA/TTATATATATATATATATATA TATATA	TTGTAGTATCCCGACA ATGTAAAA	TGATTCAACATGATC CCCA	57.7	687	INTERGENIC	--	--	--
Ca3_P1_32756341	Ca3	32756341	TAAAAAAA/TAAAAAAA	CCCACGAAGTCATCCA ACTT	CCCCCTTACCCTTATA GGCA	60.0	495	INTERGENIC	--	--	--
Ca3_P1_32780242	Ca3	32780242	AAGAGAGAGAGA/AAGAGAGAGA	TTTTGTTTCCAACATT TCCC	AATTGAGGGACCAAAA CTGC	58.8	561	INTERGENIC	--	--	--
Ca3_P1_32865267	Ca3	32865267	ACC/ACCCC	TGTCAACTGCATTTTCT CGC	CTTTGTCCAAAGCAAG GAGC	60.0	441	INTRON	Ca_12023	A	--
Ca3_P1_32938450	Ca3	32938450	ACCA/ACCACCA	TGGGCATGATGATAGT TCCA	CCACAACGGTGACTAT GACG	59.9	379	INTERGENIC	--	--	--
Ca3_P1_32980149	Ca3	32980149	GTATATATATATATATATATA/GT ATATATATATATATATATA	CATGGAGAGTTCGTAG GCGT	GGCGAATGATTGGAA GAAAA	60.3	550	INTRON	Ca_12037	O	HB-other

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_33152812	Ca3	33152812	CTTTTTTTT/CTTTTTTTTT	TCCAAATATAAAATTGG GGATCA	GGCAAGGACAGCTTT GTTTC	59.4	253	DRR	Ca_12051	TO	--
Ca3_P1_3317901	Ca3	3317901	AATATATATATATATATATA/AATAT ATATATATATATATA	TGTTTTGAATTGCACC GTTTA	GGGGATCAGTTGACTT CAAGA	59.1	773	INTERGENIC	--	--	--
Ca3_P1_33196113	Ca3	33196113	TAAAAAA/TAAAAA	CAGGGGCACAAATACA TCAA	TTGCAATTCCTGTGA ACCA	59.4	334	INTERGENIC	--	--	--
Ca3_P1_33204885	Ca3	33204885	TATATAATAATA/TATA	GCACATGCCAACTCG TAAA	AAATGCTGCGTTCCAT CTTT	59.7	295	INTERGENIC	--	--	--
Ca3_P1_33243720	Ca3	33243720	CTT/CT	GATGTGGCTGCAACAG CTTA	TGACAGACTCGTCGTT CAGG	60.0	462	CDS (FRAME SHIFT)	Ca_12059	--	--
Ca3_P1_33271403	Ca3	33271403	CAAAAAAAAA/CAAAAAAAAA	ATGACTCCAACCAT GCCT	TTTGCCACTTGATACA GCAAA	60.4	317	INTERGENIC	--	--	--
Ca3_P1_33346296	Ca3	33346296	GATATATATATATATATATA/GAT ATATATATATATATATATATA	ATTTTGCCACATGATA CGCA	GCTTCACACGAAACA ACAA	60.0	531	DRR	Ca_23675	--	--
Ca3_P1_33387153	Ca3	33387153	AATATATATATATATATATATATA T/AATATATATATATATATATATAT ATATATATATATAT	ATACCTACGGATTTGT GCCG	TTTGTGTTGAAGATG GCAA	59.8	553	INTERGENIC	--	--	--
Ca3_P1_33399144	Ca3	33399144	GTTTTTTTTT/GTTTTTTTTT	TCCGTAGATGGAGGT GGAC	CCCAAACAGTAAGCA TCGT	59.9	772	INTERGENIC	--	--	--
Ca3_P1_33407661	Ca3	33407661	GTTTTTTTTT/GTTTTTTTTT	TCCTAGAACATGCATC ACGC	TAACCCTTTGCTAGCC CCTT	59.8	458	DRR	Ca_23673	--	B3
Ca3_P1_33424355	Ca3	33424355	TTAATAATAATAATAATAATAATA TAATAATAATAATAA/TAATAATA ATAATAATAATAATAATAATAA TAATAATAATAATAA	TGACAGTTTAAGTCCT TCCCTCA	CATGATGGCAAGTTTG TTGG	60.2	684	DRR	Ca_23672	R	C2H2
Ca3_P1_33531472	Ca3	33531472	CAAA/CAAAA	TTGCCTTTGATCACT GCCA	CTTGCCACTTGGTTGG AAAT	60.3	228	INTRON	Ca_23669	S	--

[illegible]

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/P1)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_33859343	Ca3	33859343	TT/TTATTATTAT	CAATTGAATTCATTCTT CATACAGG	TTGGAAAAATTGTCAA GTTCA	59.0	978	INTERGENIC	--	--	--
Ca3_P1_33884499	Ca3	33884499	TAAAAAA/TAAAAA	CAATTTTCGCAAGTCA CACAA	CGAACCTTAATGGTCG GAAA	59.8	704	INTERGENIC	--	--	--
Ca3_P1_3392479	Ca3	3392479	TTG/TTGAAAGAGTG	AATGCATTGGGTTTT CCAA	GGCAATCCTCGTTCAC ACTT	60.2	542	INTERGENIC	--	--	--
Ca3_P1_33954528	Ca3	33954528	ATATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTATT ATT/ATATTATTATTATTATTATTAT TATTATTATTATTATTATTATTATT ATTATTATTATTATT	GGCTTCAAAGCCAACA TCAT	TCATACAAAACCAAA CGGG	60.1	622	INTERGENIC	--	--	--
Ca3_P1_33955943	Ca3	33955943	TAAAAAAAAA/TAAAAAAAAA	CTGGATGTCATCGAAA CCCT	TCGCAAAATTGATGC ACAC	59.9	725	INTERGENIC	--	--	--
Ca3_P1_33983043	Ca3	33983043	TA/TAGACACTGA	GGTGTTTACGAATGG GGTG	GGGACTCATTTATGCC GATG	60.1	353	INTERGENIC	--	--	--
Ca3_P1_34032860	Ca3	34032860	CCAAAGC/CC	TAAATGTTGCGAACCT GCTG	CGTCGCGGTTATCACT TACA	59.9	678	INTERGENIC	--	--	--
Ca3_P1_3407409	Ca3	3407409	TAAAAAAAAA/TAAAAAAAAA	TGGTTAGTAGCGTAAC CTTTTAAAG	TGGACCACATGTGTGA ATCTC	57.5	509	INTERGENIC	--	--	--
Ca3_P1_34089272	Ca3	34089272	GTCTTT/GTCTTTCTTT	TCGGTATTTGCCATGA GACA	AAACACATGAAGGCAC CACA	60.1	724	INTERGENIC	--	--	--
Ca3_P1_3411224	Ca3	3411224	CATATATATATATATATAT/CATATA TATATATATATATATATATATAT	TGAATTTTTAAATGATT TTCTGCAA	ATAGTCGGCAAAACCC TCCT	59.1	785	INTERGENIC	--	--	--
Ca3_P1_34128563	Ca3	34128563	TTATATATATATA/TTATATATATATA	TCAAGTTTGGGAGGAA CACC	CGGGTCAGGACTACAT TTGC	59.9	590	INTERGENIC	--	--	--
Ca3_P1_34161169	Ca3	34161169	GAAAA/GAAAAA	GAAGCAAATCGATTGG GAAA	CTGGGGTTCCACTGT GACTT	60.0	239	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_34192695	Ca3	34192695	TAAAA/TAAAA	TCCAAATCCATTTGTT GTCA	TGCGAGTATGCGAAGT TGTT	58.9	787	INTERGENIC	--	--	--
Ca3_P1_34219011	Ca3	34219011	TTCAATATCAATATCAATATCAATATC AATATCAATAT/TTCAATATCAATATCA ATATCAATATCAATAT	CAATGAACATTGCCAA CACA	CATCATCCTCCAATGA TCCA	59.0	478	INTERGENIC	--	--	--
Ca3_P1_342264	Ca3	342264	GTTTTTTTTTTT/GTTTTTTTTTTT	CTTCAGGCAACATGG GAAT	TTCCAATAAATGCCGA AACA	59.9	702	INTERGENIC	--	--	--
Ca3_P1_3424341	Ca3	3424341	CAAAAAAAAA/CAAAAAAAAA	TTGCTCATGCGGTCTA TCAA	CGTTGACAAAGGGATC GAGT	60.4	600	INTERGENIC	--	--	--
Ca3_P1_34297920	Ca3	34297920	GAATAATAATAATAATAATAATAA TAAA/GAATAATAATAATAATAATAA TAAATAATAATAATAATAATAA	CCTCATGGGAGCAAA ATAA	TTCAAGTCACTGCGCA TTTC	59.9	607	INTERGENIC	--	--	--
Ca3_P1_34365238	Ca3	34365238	T/TC	TGACCCAAAATGTGAC TTGC	ATGCCAAGAATCCAAC TCGT	59.5	865	INTERGENIC	--	--	--
Ca3_P1_34405777	Ca3	34405777	T/TA	CCAATCAACTCATCATT GCG	CGATGATGTGGAGGAT GATG	60.1	686	DRR	Ca_00717	J	--
Ca3_P1_34425187	Ca3	34425187	AATATATATATATATATATATATATA TAT/AATATATATATATATATATATAT ATATATATATATAT	GGACGATTGTAAACA AATTGAAC	AAGTCGGCGAATTGA TTATTT	60.0	474	INTRON	Ca_00720	R	--
Ca3_P1_34430332	Ca3	34430332	AATATATATATATATATATATATATA TAT/AATATATATATATATATATATAT ATATATAT	GTGATGATCAAATCG GGCT	TTGTGGGGTTCACCTG TTCA	59.9	481	INTERGENIC	--	--	--
Ca3_P1_34456382	Ca3	34456382	AGG/AG	TCCCCTGTTTGTTGT TGAT	GTAGTGTTGGTTTGTG GGGG	60.2	418	INTERGENIC	--	--	--
Ca3_P1_34474422	Ca3	34474422	TAAAAAAAA/TAAAAAAAA	AAAAATCAATTTATGCC GTTGT	TTATGCCGGATTGACA CTCTT	57.7	478	INTERGENIC	--	--	--
Ca3_P1_34520648	Ca3	34520648	GAA/GAAA	AAAGACGAAAGGGAAC ACCA	GAAATTGGAACAAAG TCCGA	59.6	411	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected 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_P1_34521509	Ca3	34521509	CTTTTTT/CTTTTTTT	ACCCATCTTGCGTTTT CAG	TTAAATGGCGGCAAA TGTAT	60.1	310	INTERGENIC	--	--	--
Ca3_P1_34540759	Ca3	34540759	GAAAAA/GAAAAAAA	GCAAGCAATTGAACAA AGCA	TGCTACTACTTCGCTC CACA	60.0	521	INTRON	Ca_00726	S	--
Ca3_P1_34556153	Ca3	34556153	CTTTTTTTT/CTTTTTTTT	CGTTGGCTGGATTTC ATTT	GACTCCGCATCATTTG TCCT	59.9	573	INTRON	Ca_00726	S	--
Ca3_P1_34557168	Ca3	34557168	TGAGAGAGAGAGAGAGAGAGAGA GAGAGAG/TGAGAGAGAGAGAGAGA G	TGTTCAATTATTTTGGG ATGGA	TCCTCCAATTTCTTTC CCC	59.2	582	DRR	Ca_00726	S	--
Ca3_P1_34557690	Ca3	34557690	GTTCCATTCCATT/GTTCCATTCCATT CCATT	AGCTCCATTCCATCGC ATAC	TTCCCAACTTTGTTTCT AGGGA	60.1	553	DRR	Ca_00726	S	--
Ca3_P1_34558499	Ca3	34558499	GTTTTTT/GTTTTTTTT	CTTCCCACGGATGTTT TTGT	GGATCTTGCCAATCCA GAAA	59.8	677	INTERGENIC	--	--	--
Ca3_P1_34559360	Ca3	34559360	CAAAAAAAAAAAAAAAAA/CAAAAAAAAAA	TGCTCGATTTTTCGGT GAAT	ATCATGCATGCCAAGA AACA	60.6	813	INTERGENIC	--	--	--
Ca3_P1_34561246	Ca3	34561246	ATTTTTT/ATTTTTTTTT	TGGTGGGAATAGTGT CCTC	CCGTCACTAAATTGTG TGGCTA	59.8	588	INTERGENIC	--	--	--
Ca3_P1_34561739	Ca3	34561739	C AA/CAA	GCCACACAATTTAGT AC GG	CATGGATTGGGTAGA ATCG	59.1	571	INTERGENIC	--	--	--
Ca3_P1_34565708	Ca3	34565708	CATTGATTGA/CATTGATTGATTGA	TGCTTTAGTTTGGCTTT GGC	TCAAACACGTCTGTAT ATCAAGAAAA	60.4	350	DRR	Ca_00727	GC	HSF
Ca3_P1_34565771	Ca3	34565771	CTAAT/CTAATTGAGTAAT	TGCTTTAGTTTGGCTTT GGC	TCAAACACGTCTGTAT ATCAAGAAAA	60.4	350	DRR	Ca_00727	GC	HSF
Ca3_P1_34565949	Ca3	34565949	AA/AAGA	TGCTTTAGTTTGGCTTT GGC	TGATAGGATTGTGTGG AAATCG	60.4	876	DRR	Ca_00727	GC	HSF

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_34566898	Ca3	34566898	ATTTTT/ATTTTT	TTATAGCCAAGCGTGT CATGT	CCGGTGAGTGACAGA ATTGA	58.3	373	INTERGENIC	--	--	--
Ca3_P1_34568370	Ca3	34568370	AATAT/AAT	GTTTGTGCCAGTCCA AAGT	ACAAACACAACGCCAA ACAA	60.0	549	INTERGENIC	--	--	--
Ca3_P1_34568477	Ca3	34568477	CCTCCGA/CCTCCGACTCCGA	GTTTGTGCCAGTCCA AAGT	ACAAACACAACGCCAA ACAA	60.0	549	INTERGENIC	--	--	--
Ca3_P1_34572752	Ca3	34572752	TAAAA/TAA	ATCGTTTTTCTCCAG GTGT	AAAAGGCGAACGAACA AAAA	59.5	412	DRR	Ca_00728	GC	HSF
Ca3_P1_34582473	Ca3	34582473	TG/T	GGGGTGTTGAAGAATC GAGA	GGGAAATAGCGTTTG TTCA	60.1	614	INTERGENIC	--	--	--
Ca3_P1_34588571	Ca3	34588571	A/ATAT	GTCGAGTGATGTTG GAGT	CTGCTGAGGGATGGA ATGAT	60.0	988	DRR	Ca_00731	--	NAC
Ca3_P1_34590067	Ca3	34590067	TAAAAAAAAAAAAAAAAA/TAAAAAAAAA	AACCTCAATGCCACT GCCT	GCTACTCGTTTGGCGT CTTT	59.9	616	DRR	Ca_00730	GC	HSF
Ca3_P1_34590662	Ca3	34590662	CAA/CAAA	AAAGACGCCAAACGAG TAGC	GAAGACAAAATGGGCT TCCA	59.5	805	INTRON	Ca_00731	--	NAC
Ca3_P1_34592017	Ca3	34592017	ATTTTTTTTTTTTT/ATTTTTTTTT	GAGGTCGGAAGATGG ATACG	TGTTGGAATAGCGGTG GATT	59.5	243	INTERGENIC	--	--	--
Ca3_P1_34604942	Ca3	34604942	AA/AAGA	GGTAAATGGCAAAGCC GTAA	CTCTGCCCAACCAAAG ACAT	60.0	906	INTERGENIC	--	--	--
Ca3_P1_34605240	Ca3	34605240	ATTTTTTTTTTTTT/ATTTTTTTTT	CCGTTTACGTGGGTTT CTTG	CTCTGCCCAACCAAAG ACAT	60.4	269	INTERGENIC	--	--	--
Ca3_P1_34605719	Ca3	34605719	CTTTTAAATTTTAAATTTTAAAT/CTT TTAAATTTTAAAT	ATGTCTTTGGTTGGGC AGAG	GGGTTTGAGGAGAG GAGAA	60.1	404	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_34605818	Ca3	34605818	TACA/TA	ATGTCTTTGGTTGGGC AGAG	TTTGTTTAAGGGAAGG GGAGA	60.1	555	INTERGENIC	--	--	--
Ca3_P1_34608040	Ca3	34608040	GTCTCT/GTCT	TGGAGAAACAAAATAC GGGA	TTGGGTAGACATTTTC CCTTG	58.1	575	INTERGENIC	--	--	--
Ca3_P1_34608178	Ca3	34608178	ATTG/A	TGGAGAAACAAAATAC GGGA	TTGGGTAGACATTTTC CCTTG	58.1	575	INTERGENIC	--	--	--
Ca3_P1_34619372	Ca3	34619372	CAAA/CAA	CGGCTCAGTGATCCTC TTTC	CCAAGGGAAAAGATAA CCAACA	60.0	334	INTERGENIC	--	--	--
Ca3_P1_34619391	Ca3	34619391	CTTTTTTT/CTTTTTT	CGGCTCAGTGATCCTC TTTC	CCAAGGGAAAAGATAA CCAACA	60.0	334	INTERGENIC	--	--	--
Ca3_P1_34619904	Ca3	34619904	GTATATATATATA/GTATATATA	TGTTGGTTATCTTTTCC CTTGG	TGTGCGGATAAAAAGC TTCC	60.2	782	INTERGENIC	--	--	--
Ca3_P1_34620121	Ca3	34620121	ATTTT/ATTT	TTTTTCTTCCAATTTTC TGGAG	TGTGCGGATAAAAAGC TTCC	57.6	432	INTERGENIC	--	--	--
Ca3_P1_34620159	Ca3	34620159	TA/TAAA	TTTTTCTTCCAATTTTC TGGAG	TGTGCGGATAAAAAGC TTCC	57.6	432	INTERGENIC	--	--	--
Ca3_P1_34621297	Ca3	34621297	A/AC	CATCACCACCACCATT TCAG	AGGAAAAATGGCATCC AATG	59.8	910	INTERGENIC	--	--	--
Ca3_P1_34621352	Ca3	34621352	TAAAAAA/TAAAAAAA	GTATTGGCAACCGTC GTAA	AGGAAAAATGGCATCC AATG	58.6	446	INTERGENIC	--	--	--
Ca3_P1_34623535	Ca3	34623535	CAT/CATAT	CCAAGCAAGTGGCATT ATGA	ACGATTAGATTTGACC GAAAAA	59.7	457	INTERGENIC	--	--	--
Ca3_P1_34623936	Ca3	34623936	ATTTTT/ATTTT	CAGATAATTGGGCAA GAGAA	GGAGCCAAGCTCCAG TTATT	57.0	716	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_34625966	Ca3	34625966	TC/T	CCCCCTTTAACTTGT GAGC	TGTTTGAAGAATTTGG TTTGC	58.7	693	DRR	Ca_00734	FH	--
Ca3_P1_34626093	Ca3	34626093	TTA/TAAAAGTA	GGGCTAAGATCAACAC CCTC	TGTTTGAAGAATTTGG TTTGC	58.6	233	DRR	Ca_00734	FH	--
Ca3_P1_34626343	Ca3	34626343	ATTTTTTT/ATTTTTTTT	GGGCTAAGATCAACAC CCTC	CTTGTGCAATATCCGA AACG	58.6	771	DRR	Ca_00734	FH	--
Ca3_P1_34626639	Ca3	34626639	C/CAATGATT	TTTGCAAACCAATTCT TCAA	GATGGGTCTATTGGT GGAA	59.6	938	DRR	Ca_00734	FH	--
Ca3_P1_34630411	Ca3	34630411	TTAAAAATATATAAAAT/TTAAAAAT	AATTCTCGATCCCCAT TTCC	TCTTGATGTTTGATAT GACGCC	60.1	644	INTERGENIC	--	--	--
Ca3_P1_34630494	Ca3	34630494	GAAAAAA/GAAAAAAA	AATTCTCGATCCCCAT TTCC	TCTTGATGTTTGATAT GACGCC	60.1	644	INTERGENIC	--	--	--
Ca3_P1_34633037	Ca3	34633037	T/TC	AATACGTGACCCCACT TCAA	TCAGGACCGGATTGA CTTC	60.4	524	DRR	Ca_00735	--	--
Ca3_P1_34633648	Ca3	34633648	AATAT/AAT	AAGTCAAATCCGGTCC TGAA	GCTTGCAGCAACAACA AAAA	59.5	223	DRR	Ca_00735	--	--
Ca3_P1_34634307	Ca3	34634307	TAAA/TAA	CACGCTGGAAAGCAAT CTCT	AAGGGGTTTTGTCCAA GGTC	60.5	854	DRR	Ca_00735	--	--
Ca3_P1_34634374	Ca3	34634374	TAAAA/TAAAAA	AAAAAGTGTGGCCAAT CCAT	GAAGGGGTTTTGTCCA AGGT	59.3	428	DRR	Ca_00735	--	--
Ca3_P1_34634718	Ca3	34634718	AAATAATAATAATAATAATAAT /AAATAATAATAATAATAATAAT TAATAAT	CCAAATCATGGACCTT GGAC	CAAGCTTTGGTTTGGGA TGGT	60.2	391	DRR	Ca_00735	--	--
Ca3_P1_34637083	Ca3	34637083	ATTTTTTT/ATTTTTTTT	GAGATTGGCGCTTACG CTAC	CCATTAACATACTT TAGCAAGCA	60.0	669	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_34637980	Ca3	34637980	T/TA	TTTGACCTTTTGATTC TTTTGA	TCGACCTACGTTATCC GCTT	58.9	408	INTERGENIC	--	--	--
Ca3_P1_34638267	Ca3	34638267	AAATAA/AAATAATAA	AGCGGATAACGTAGGT CGAA	ATAACTATGCGGATGG CCTG	59.7	475	INTERGENIC	--	--	--
Ca3_P1_34640884	Ca3	34640884	TA/T	TTGACCGTGTGCTTTT TGAG	GATATTAGGGGCAACT CGCA	59.9	285	INTRON	Ca_00736	S	--
Ca3_P1_34641463	Ca3	34641463	ACT/ACTCT	TGCGAGTGTCCCCTAA TATC	GCATCAGCAACAAAAG CAAA	60.1	879	INTRON	Ca_00736	S	--
Ca3_P1_34641614	Ca3	34641614	C/CTT	GACACGTGGAAGTGA ACCT	GCATCAGCAACAAAAG CAAA	60.0	415	INTRON	Ca_00736	S	--
Ca3_P1_34643759	Ca3	34643759	TCCCCCCC/TCCCCC	TCCTCTTCATCACTCA CCCC	TCCTTGAAAGCCACAA TTCC	60.0	135	DRR	Ca_00737	--	--
Ca3_P1_34646219	Ca3	34646219	ATTTTTTTTT/ATTTTTTTTT	TTTTGTTTGCAGTGCA TAGA	TGGGCCAAGACTCCTT TTTA	60.3	602	INTERGENIC	--	--	--
Ca3_P1_34648295	Ca3	34648295	AT/ATT	CTTCTATGCATGTTTC GGCA	GGAATGGAGAGAAAAT GGTTTG	59.8	317	DRR	Ca_00738	J	--
Ca3_P1_34648505	Ca3	34648505	CATAT/CAT	CTTCTATGCATGTTTC GGCA	CCCATTAAATCATCTTT TCCAA	59.8	927	DRR	Ca_00738	J	--
Ca3_P1_34648548	Ca3	34648548	AATAT/AAT	CTTCTATGCATGTTTC GGCA	TCTTCCACGGCCAATA GTTT	59.8	979	DRR	Ca_00738	J	--
Ca3_P1_34648802	Ca3	34648802	T/TCA	CAAACTTTTCTCTCC ATTCC	TCTTCCACGGCCAATA GTTT	59.8	684	DRR	Ca_00738	J	--
Ca3_P1_34650529	Ca3	34650529	TG/T	TGGATTGGTGTTTCC CATT	TCCCAACAATCATCC CAAT	60.0	609	INTRON	Ca_00739	O	C2H2

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_34658227	Ca3	34658227	GTTATTAT/GTTAT	TTTGGCAGTGTGTTT CATTG	GGGTGGTGTGTGTA GAGTG	59.6	741	INTERGENIC	--	--	--
Ca3_P1_34658557	Ca3	34658557	CCTCTCTCTCTCTCTCTCT/CTCTCTCTCTCTCTCTCTCTCT	TATGTAATGGCGCGTG AGAA	CGTAAAGAGAAGCCG GAGTG	60.2	332	INTERGENIC	--	--	--
Ca3_P1_34660669	Ca3	34660669	GAA/GAAA	TCTTGCAACAGCAATT TGAG	TAAACCAATGGATAG CCGA	60.0	824	INTRON	Ca_00740	AJ	NAC
Ca3_P1_34661031	Ca3	34661031	GAAA/GAAAA	TGTGTGCTTCTCCACT CCTG	TAAACCAATGGATAG CCGA	60.0	554	INTRON	Ca_00740	AJ	NAC
Ca3_P1_34665269	Ca3	34665269	TGGGGG/TGGGG	CAAGAAGTGGGAGG ATTCA	TTGGTACAAGCCAGA CAAA	60.0	593	INTERGENIC	--	--	--
Ca3_P1_34671849	Ca3	34671849	CGGAAT/C	AGTCCGCTCTGCAGAT GAAT	CATTGCTGCCATCTTT CTCA	60.0	925	INTRON	Ca_00741	T	--
Ca3_P1_34673107	Ca3	34673107	AAAGAA/AAA	GGTACGGTCTCTCAAG AACA	GAAATTTTCACGGCCA TTTG	60.0	585	DRR	Ca_00741	T	--
Ca3_P1_34674040	Ca3	34674040	AG/AGG	ATGTTTCACGTGATTG GGGT	TTGTGGGTTTGAGTTC CTCC	60.1	684	DRR	Ca_00741	T	--
Ca3_P1_34674867	Ca3	34674867	TAAAAA/TAAAAAA	GGAGGAACCAACCC ACAA	GTTTCGACTGGTGCAG ATCA	59.9	659	INTERGENIC	--	--	--
Ca3_P1_34681160	Ca3	34681160	ATAAAATTAAAT/ATAAAATTAAAT AAAT	AGGGGCCATGCTAATC TTCT	TTTGAAGGAGAAATC CATCA	60.1	552	DRR	Ca_00743	V	GRAS
Ca3_P1_34681675	Ca3	34681675	GTTTTTT/GTTTTTT	TGATGGATTTCTCCCT TCAAA	TTGGTTGTGGACCTGT GGTA	59.5	475	DRR	Ca_00743	V	GRAS
Ca3_P1_34682350	Ca3	34682350	GAACAA/GAA	TGCAACTCTTTTCGTC ACCA	TTGCCCGAGTCTTCTC AGTT	60.4	539	DRR	Ca_00743	V	GRAS

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_34682477	Ca3	34682477	CTAGCTCTG/C	GGGTGGTTGGTCCCT ATTT	TTGCCCGAGTCTTCTC AGTT	59.9	303	DRR	Ca_00743	V	GRAS
Ca3_P1_34685671	Ca3	34685671	CAAA/CAAAA	TTATGTCTCGTTTGGT GGACA	TTAGTGACATGCGTGG CTTC	59.0	586	INTERGENIC	--	--	--
Ca3_P1_34685742	Ca3	34685742	TAAAAAA/TAAAAA	TTATGTCTCGTTTGGT GGACA	TTAGTGACATGCGTGG CTTC	59.0	586	INTERGENIC	--	--	--
Ca3_P1_34703599	Ca3	34703599	ATTT/ATTTTTT	GCATCCATGGAAAATC AGGA	ATTTTGTGGCTCAAA CGAG	60.8	541	INTERGENIC	--	--	--
Ca3_P1_34715451	Ca3	34715451	AT/ATT	GTTCTCGTAACTCCG CTGC	ATAATCCCACGCTTTT GTGC	60.0	819	INTERGENIC	--	--	--
Ca3_P1_34717035	Ca3	34717035	CAAAATTAAATT/CAAAATTAAATTA AAATT	AAACATGTAGATCCA TTTGAGTGA	AACTTTTGGCTTTCC GGTT	59.0	640	INTERGENIC	--	--	--
Ca3_P1_34721625	Ca3	34721625	ACTATCATCTATCA/ACTATCA	CAATCCGTTTAGAACT CCCG	TGTTGCACGTAGCCTA AGAAA	59.6	625	DRR	Ca_00746	GMW	ERF
Ca3_P1_34724989	Ca3	34724989	CTGTCATCTCATTGTCTATCAT/CTG TCATCTCAT	AAAAGAAAATTGAAATT CACCTTGA	TGTGTCCCAACCTTA CTTACTAACA	59.5	537	DRR	Ca_00747	--	--
Ca3_P1_34726048	Ca3	34726048	TAAAAAAAAAAAAA/TAAAAAAAAA	TATTGATGATGTTGCA CGGG	TTCACGTGAGAGCAG GACAC	60.3	391	INTERGENIC	--	--	--
Ca3_P1_34730322	Ca3	34730322	AAA/AAAATTGAA	ATTTTGGGCCCTCTTC TCAT	AGCCAGCCAAAACAGA CACT	59.9	647	INTRON	Ca_00748	--	--
Ca3_P1_34731798	Ca3	34731798	TAAAAAAAA/TAAAAAAAAA	TTTCTGCCAAATCAT CCC	AAGAAAGAGTACCGTC GCCA	59.9	671	DRR	Ca_00748	--	--
Ca3_P1_34731939	Ca3	34731939	TAAAAAAAAAAAAA/TAAAAAAAAA AAA	TTTCTGCCAAATCAT CCC	AAGAAAGAGTACCGTC GCCA	59.9	671	DRR	Ca_00748	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_34732162	Ca3	34732162	TAAA/TAAAAA	TGGCGACGGTACTCTT TCTT	CACACTTTTAGGCCAC CCAT	59.9	389	DRR	Ca_00748	--	--
Ca3_P1_34732224	Ca3	34732224	TCCC/TCCCC	TGGCGACGGTACTCTT TCTT	CACACTTTTAGGCCAC CCAT	59.9	389	DRR	Ca_00748	--	--
Ca3_P1_34737485	Ca3	34737485	CTTTTTTT/CTTTTTT	TGCTCTTCGGTTCGTT TCTT	ACCCAAGGATACAATG CCAA	60.0	650	DRR	Ca_00749	J	--
Ca3_P1_34737907	Ca3	34737907	T/TTA	TTGGCATTGTATCCTT GGGT	GGGGGTATTTGTGCTT TTCA	60.2	301	DRR	Ca_00749	J	--
Ca3_P1_34739285	Ca3	34739285	TT/TTGGT	AGGTAGAGCCAGTGAG GTGG	TCTTTGGATGTGGTGG AACA	59.3	841	DRR	Ca_00749	J	--
Ca3_P1_34739482	Ca3	34739482	ATTTT/ATTT	AGGCAATTCAAAGTTA AAGGTG	TCTTTGGATGTGGTGG AACA	57.5	508	INTERGENIC	--	--	--
Ca3_P1_34745696	Ca3	34745696	ATTTT/ATTT	GGTGCAACCCATTAA AAACA	GGGTCTTTAAACCATT TTCTGG	59.7	592	INTERGENIC	--	--	--
Ca3_P1_34745831	Ca3	34745831	A/AAGG	TGAATCTTCCAGAAAAT GGTTT	AAAAACAACGTGTAG ACTAAAAAGC	57.7	349	INTERGENIC	--	--	--
Ca3_P1_34746354	Ca3	34746354	GAT/GATCAT	TGGTGATAACTAAGA GACACGTCAA	GGGGAGGAGGAAGAA GCTC	59.2	810	INTERGENIC	--	--	--
Ca3_P1_34749435	Ca3	34749435	TC/T	TGGGGGAGAGACGTC ATAAT	TGTCCTCGACATTCT CTCCA	59.4	834	INTERGENIC	--	--	--
Ca3_P1_34749745	Ca3	34749745	A/ACCTTAT	CGTCAATATTTGTTGC AGGC	TATGGGTGGTTCCATT CCAC	59.2	332	INTERGENIC	--	--	--
Ca3_P1_34752760	Ca3	34752760	GTT/GTTGCGACTTGCTACTT	GACCCTGTCTCTCTG CTTG	GGTTGTTGTGGTTTG GACC	60.0	256	INTERGENIC	--	--	--

[illegible]

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_34789552	Ca3	34789552	AATATATATATATATATAT/AATATA TATATAT	GCAATGTTGGGACACT GATG	TGTATGTTGACGTGCT TTTGC	60.0	790	INTERGENIC	--	--	--
Ca3_P1_34790577	Ca3	34790577	CATATTAATATTAAT/CATATTAATATT AATATTAAT	CCTCACAGCTGCCCT ATTA	AAACACACAGGGCAT GATAA	60.2	692	INTERGENIC	--	--	--
Ca3_P1_34791543	Ca3	34791543	TC/T	AGCAAGAGAATGACAC CCCA	CTTATCTCCCAGTTG CCAG	60.7	494	INTERGENIC	--	--	--
Ca3_P1_34794610	Ca3	34794610	TAA/TATTATATAACTCATTATAAA	CACACAAAATGAATGA AGCGA	CATTTTGACAAGCCCG TGTA	59.7	575	DRR	Ca_00755	Q	B3
Ca3_P1_34794843	Ca3	34794843	T/TCC	TACACGGGCTTGTCAA AATG	AAACAGATGAAGTCC ACGA	59.6	617	DRR	Ca_00755	Q	B3
Ca3_P1_34796244	Ca3	34796244	TA/TATGCCA	TGTTTTTGAACCGTGA CTGAA	TCCGTTTCCAACCTGA ACTC	59.2	639	INTERGENIC	--	--	--
Ca3_P1_34797632	Ca3	34797632	GTT/GTTT	GAGCGGCCTATCAAGT CATT	TCAAATCATGCAATGA GAATTTT	59.3	887	INTERGENIC	--	--	--
Ca3_P1_34797791	Ca3	34797791	GAAAA/GAAAAA	TTGTCAAACATTGCAA CAAGAA	CACACTGAAGGTCTCC GGTT	59.3	902	INTERGENIC	--	--	--
Ca3_P1_34797856	Ca3	34797856	GTTTTTTTT/GTTTTTT	TTGTCAAACATTGCAA CAAGAA	CACACTGAAGGTCTCC GGTT	59.3	902	INTERGENIC	--	--	--
Ca3_P1_34798242	Ca3	34798242	TAAAA/TAAAAA	TCATTAATAGATCCGC ATTTGAA	CACACTGAAGGTCTCC GGTT	58.6	235	DRR	Ca_00756	--	--
Ca3_P1_34798838	Ca3	34798838	CA/C	AACTAGGGTCCGGGTG TTTT	CACAGGACCTTTGAAC CCAT	59.7	565	DRR	Ca_00756	--	--
Ca3_P1_34798929	Ca3	34798929	CTTTTTTTTT/CTTTTTT	AACTAGGGTCCGGGTG TTTT	AAGTGTGGCAAGCTCT TGGT	59.7	803	DRR	Ca_00756	--	--

[illegible]

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_34836958	Ca3	34836958	TTTTTTTAAATTTTTTA/TTTTTTTA	GTGGTAATCCAACGT CGAG	GAACCGATCCAACATG CTTT	60.4	443	INTRON	Ca_00761	G	--
Ca3_P1_34840506	Ca3	34840506	TTTTTTTTTTT/GTTTTTTTTT	GTTGGTGATGAAGGTG GCTT	ATCCGGTCCCCATAAC TTTC	60.0	457	INTRON	Ca_00761	G	--
Ca3_P1_34845314	Ca3	34845314	GCAAA/G	ATGGGTACACACGAAA AGCA	ACACCCCGTACTTCA AACA	59.1	563	INTERGENIC	--	--	--
Ca3_P1_34847492	Ca3	34847492	ATCTCTCTCTCTCTCTCTCTC/ATC TCTCTCTCTCTCTC	GAATCTCTTGACCCG ACAA	ATTCAATAGGGCATTG GCAG	60.1	365	INTRON	Ca_00762	A	C3H
Ca3_P1_34847796	Ca3	34847796	TTG/TTGTG	CAATTTGGCAGATCAC ATGG	ACCAGTAAAGGCAACA TCGG	59.9	680	INTRON	Ca_00762	A	C3H
Ca3_P1_34847842	Ca3	34847842	AATATATATATATAT/AATATATATA TATATATATATATATAT	CAATTTGGCAGATCAC ATGG	ACCAGTAAAGGCAACA TCGG	59.9	680	INTRON	Ca_00762	A	C3H
Ca3_P1_34848161	Ca3	34848161	TTAT/TT	CCGATGTTGCCTTTAC TGGT	ATCGGCCGACCTAGAA GAAT	60.0	391	INTRON	Ca_00762	A	C3H
Ca3_P1_34849447	Ca3	34849447	CAAAA/CAAAAA	AGCATGGGAAACAGTT TTGG	TTTGAAAGCAACGTCA ATGC	60.0	330	DRR	Ca_00762	A	C3H
Ca3_P1_34850005	Ca3	34850005	GC/G	AAACGGATTGGAATGG ATCA	TGTTTGAGGATGATGG TGGA	60.1	502	DRR	Ca_00763	--	C2H2
Ca3_P1_34851179	Ca3	34851179	AC/A	TGTGAATCTGTGATGT GCTAAGG	CAATGTGCTGTTGGG TTTG	60.2	447	DRR	Ca_00763	--	C2H2
Ca3_P1_34851298	Ca3	34851298	GA/GAA	TTGATCAAACCAACA GCAC	GTGCCAAGTGAAGGG TTTGT	59.5	400	DRR	Ca_00763	--	C2H2
Ca3_P1_34851854	Ca3	34851854	TATAA/TATAATAA	ACAAACCTTCACTTG GCAC	ACCGCAAACCTATGT TGGG	60.0	648	INTRON	Ca_00763	--	C2H2

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_34852048	Ca3	34852048	CTACTTTA/CTACTTTACTTTA	ACAAACCCCTTCACTTG GCAC	ACCGCAAACCTCTATGT TGGG	60.0	648	INTRON	Ca_00763	--	C2H2
Ca3_P1_34852406	Ca3	34852406	T/TC	CCCAACATAGAGTTTG CGGT	TGATGATGAGGAAACA CCGA	60.0	499	INTRON	Ca_00763	--	C2H2
Ca3_P1_34856790	Ca3	34856790	TACA/TACACA	ATGGCGGTGAAACGGT ATTA	AATCGAACTTTGCCCT CTTTT	60.2	738	INTERGENIC	--	--	--
Ca3_P1_34857034	Ca3	34857034	AG/AGG	ACGGCCAATGTTGTTT TGAT	AATCGAACTTTGCCCT CTTTT	60.4	428	INTERGENIC	--	--	--
Ca3_P1_34866347	Ca3	34866347	CTATT/CTATTATT	TACCATGATGATGAAG CGGA	TCAACCGAATCAACAA CCAA	60.0	308	DRR	Ca_00764	A	C2H2
Ca3_P1_34867020	Ca3	34867020	GAAAA/GAAA	CCTTTAATTTTGCCGA CGAC	AAGAGGTTGGAATGTG ACCG	59.6	684	DRR	Ca_00764	A	C2H2
Ca3_P1_34869536	Ca3	34869536	AAT/A	TGGATTTTAATTTGTT GGTTTGA	TTTTTCTTTGCTAGG GCCA	59.7	651	INTERGENIC	--	--	--
Ca3_P1_34872921	Ca3	34872921	ATTTTT/ATTTTTTT	CACAAATGCGATTAAG GGCT	CATGTTGAATGGAAGC ACACA	60.1	685	INTERGENIC	--	--	--
Ca3_P1_34873766	Ca3	34873766	CAAAAA/CAAAAAA	AACACATTTTGTCAAGT GCG	GGCTTCTGAAAAACAC AGCC	59.8	728	INTERGENIC	--	--	--
Ca3_P1_34877669	Ca3	34877669	TA/T	TTGATGTGACCCTCCT CTCC	TTGTTACGGTTGTGAA GCAAA	60.0	720	DRR	Ca_00765	--	--
Ca3_P1_34878239	Ca3	34878239	CTACTTACTT/CTACTT	TTTGCTTCACAACCGT AACAA	GACCCATCAAGCCCAT TTTA	59.3	635	DRR	Ca_00765	--	--
Ca3_P1_34879554	Ca3	34879554	ATT/AT	TGTATCAAGGGGAGGG AGTG	ACGCTCTTTTGTGCT GGAT	59.9	925	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_34881596	Ca3	34881596	TTAT/TTATATAT	CACCTCATCCTTGCA TCTT	CTTTGGCAATCGCTTG AAGT	60.1	485	INTERGENIC	--	--	--
Ca3_P1_34886229	Ca3	34886229	CTTTTT/CTTTTT	ACCATGGACACAAGTG CAAA	ACGTTCTAAATTGAGC CCCC	60.0	488	INTERGENIC	--	--	--
Ca3_P1_34886716	Ca3	34886716	ACC/AC	GGGGCTCAATTTAGAA CGTG	GGAGGGTTTTGTGTG GAAGA	59.6	651	INTERGENIC	--	--	--
Ca3_P1_34887394	Ca3	34887394	GT/GTT	TCTCCACACAAAACC CTCC	ACGTGCATCACAAAAC CAAA	59.9	571	INTRON	Ca_00767	G	ERF
Ca3_P1_34892570	Ca3	34892570	TA/TAA	TGAGGGTTGTGGTTTC AATT	GCTTGAATAAGGTCCA CCCA	59.3	223	INTERGENIC	--	--	--
Ca3_P1_34893456	Ca3	34893456	AAAA/AAAAATAAAAAATAA	CGAACATTGTGTCTGA GTGAAA	TGAAAAATGTGGTTGA CCGA	58.8	229	INTERGENIC	--	--	--
Ca3_P1_34896331	Ca3	34896331	ATTTTT/ATTT	ATGAAGAGAACGAGGA GGCA	AACCCACCTCCTAAG CTGT	60.0	546	INTERGENIC	--	--	--
Ca3_P1_34897346	Ca3	34897346	TAAAAAA/TAAAAAA	AGAACAATTTTGGCG CAAC	AGTTTGTGCGTCCAT GAGC	60.1	537	INTERGENIC	--	--	--
Ca3_P1_34900915	Ca3	34900915	T/TG	CCATGCACAAGCATTG AATC	TTTCTTTTGTGGTGG TCATT	60.1	762	INTERGENIC	--	--	--
Ca3_P1_34901511	Ca3	34901511	TAGAGACAGAG/TAGAG	AAATGACCACCAACAA AAGAAA	GCCGTGTATGAATTTG TGTC	58.5	714	INTERGENIC	--	--	--
Ca3_P1_34901560	Ca3	34901560	AGGGG/AGGG	TGTTACTGCTTCTTGA CGTTTCA	GCCGTGTATGAATTTG TGTC	60.0	393	INTERGENIC	--	--	--
Ca3_P1_34904847	Ca3	34904847	TAA/TA	TGTGCTGTCGTACCA CTAA	GGCCAGGAACCATGA TAAGA	58.9	569	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_34906102	Ca3	34906102	CTTTTTT/CTTTTTTTTT	TGGATGGTGATTATCC GACTC	TCCAAGTCTTCAATA CAAAACACA	59.8	605	INTERGENIC	--	--	--
Ca3_P1_34910960	Ca3	34910960	GTTTTTT/GTTTTTTTT	TCAAGGTCAAGTGTGG CAAA	CTTTGGTCGACGATGA GGAT	60.3	819	INTERGENIC	--	--	--
Ca3_P1_34911794	Ca3	34911794	ATATTA/ATA	TGGGTGCTGAAATTC GTGA	TCCAGAGTTTGGATC ATCA	60.1	481	CDS (large-effect mutations)	Ca_00768	--	ERF
Ca3_P1_34913670	Ca3	34913670	TATAGAATAGAA/TA	ACCCGTTTCTTTGTG TTGG	CTATCCAAGAAGCATC CCCA	59.9	427	DRR	Ca_00768	--	ERF
Ca3_P1_34913784	Ca3	34913784	GTATATATATATA/GTATATATATAT ATA	ACCCGTTTCTTTGTG TTGG	CTATCCAAGAAGCATC CCCA	59.9	427	DRR	Ca_00768	--	ERF
Ca3_P1_34913867	Ca3	34913867	AA/AACACTTGA	TGGGGATGCTTCTGG ATAG	AAAATTCGAGGCCCA TACC	60.0	154	DRR	Ca_00768	--	ERF
Ca3_P1_34914599	Ca3	34914599	T/TCGGG	TGGGAAGATGGAGGAA GAAA	GCCGGTTTCACACTT TGAT	59.6	387	INTERGENIC	--	--	--
Ca3_P1_34916105	Ca3	34916105	GTTTT/GTTTTTT	TCGACCATCGTCATAC TCCA	TCTCCCTTCATATGA CCCTT	60.1	671	INTERGENIC	--	--	--
Ca3_P1_34917623	Ca3	34917623	CTTATGTTATGT/CTTATGT	GGTGGTAAGGTCCTGT GGAA	TGACCAGCATGGTTGA AAGA	59.8	292	INTERGENIC	--	--	--
Ca3_P1_34922472	Ca3	34922472	TTATATA/TTATA	CAAAAGCGACATTCA GCAA	AAAGCCCTTCCGTTT TGTT	60.0	240	INTRON	Ca_00769	--	--
Ca3_P1_34925163	Ca3	34925163	AAT/AATAT	TTTGAATGTGTGAGAC ACCGA	AAGGGGCGAATTGAAA GATT	60.1	795	INTERGENIC	--	--	--
Ca3_P1_34930539	Ca3	34930539	TGAA/T	TTTTCGTTTGCGATGA TTGA	CACGAAGCCTATGCTT TCAGA	60.2	367	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_34930591	Ca3	34930591	GTATATATAT/GTATATATATAT	TTTTCGTTTGCGATGA TTGA	CACGAAGCCTATGCTT TCAGA	60.2	367	INTERGENIC	--	--	--
Ca3_P1_34930930	Ca3	34930930	AA/AATTA	CCCAACGTTGTTTAA CGGT	TGTCCTTAGTGGTGGA AGGG	59.8	839	INTERGENIC	--	--	--
Ca3_P1_34932929	Ca3	34932929	TAAAAAA/TAAAAAAA	ACTTGCTTTGCACCTC GTTT	TTGAAAGATGACTCTT CACCGA	59.9	631	INTERGENIC	--	--	--
Ca3_P1_34933291	Ca3	34933291	GATATATAT/GATATATATAT	TCGGTGAAGAGTCATC TTTCAA	GGGCCTTACGTGTCT AAAA	59.9	687	INTERGENIC	--	--	--
Ca3_P1_34942560	Ca3	34942560	GCAACAACAA/GCAACAA	TCAAGGTGATAAATTG CCGA	TGTGCACACACAATCA CAAAA	59.1	480	INTERGENIC	--	--	--
Ca3_P1_34943170	Ca3	34943170	AAATA/AA	TGCATTTTTGTGATTGT GTGTG	GCTGGCTCTTTGGGTA TGAG	60.5	454	INTERGENIC	--	--	--
Ca3_P1_34943202	Ca3	34943202	ATTT/ATTTT	TGCATTTTTGTGATTGT GTGTG	GCTGGCTCTTTGGGTA TGAG	60.5	454	INTERGENIC	--	--	--
Ca3_P1_34943765	Ca3	34943765	ATTTTTTTTT/ATTTTTTTT	GTGTTTGCTTGCTTTG ACCA	CGGAAACTACTCCATC GTGAA	59.9	384	DRR	Ca_00771	--	S1Fa-like
Ca3_P1_34945416	Ca3	34945416	GAAAA/GAAAAA	ATTGGTCTTTGGCACA CACA	GAAGAAGCTGGAGGA GCTGA	60.0	419	DRR	Ca_00771	--	S1Fa-like
Ca3_P1_34946326	Ca3	34946326	C/CT	GCAGGTATGACCAAGT GGCT	GCGCTGGTTTATCAAG GAAA	60.1	611	INTRON	Ca_00771	--	S1Fa-like
Ca3_P1_34948778	Ca3	34948778	TG/T	TGCATCATAAAATGTT CATCAATTA	ATTACGGGGAGAGGG AGAGA	59.7	674	INTERGENIC	--	--	--
Ca3_P1_34949397	Ca3	34949397	ATTT/ATTTT	TTATCTCTCCCTCTCC CCGT	CACACATTAAATTTGG AGTTCA	60.0	587	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_34953897	Ca3	34953897	TAAAAA/TAAAAA	CCCGTGATTCTCTAC AACA	GAACTCGCTTGAGGAC GAAG	58.6	395	INTERGENIC	--	--	--
Ca3_P1_34954280	Ca3	34954280	TC/T	CTTCGTCTCAAGCGA GTTC	TGCATGCAGGAGAAGT ATTTATT	60.1	681	INTERGENIC	--	--	--
Ca3_P1_34958868	Ca3	34958868	ACCCC/ACCC	GCAACACCATGATAAC GTGC	GATGAGATGTTGCCCC TGTT	60.0	220	INTERGENIC	--	--	--
Ca3_P1_34962522	Ca3	34962522	CATATA/CATA	GACAAATTGTTGCTTG CGAA	AGATTGTCTGTGTGTA CGACGA	59.9	259	INTERGENIC	--	--	--
Ca3_P1_34964095	Ca3	34964095	GCC/GCCCC	GGTGACCATGAAGCTC GTTT	GCAATCAACAAACAAG TGTGC	60.1	488	INTERGENIC	--	--	--
Ca3_P1_34964151	Ca3	34964151	ATATTTATTTATTTATTT/ATATTTATTT ATTT	GGTGACCATGAAGCTC GTTT	GCAATCAACAAACAAG TGTGC	60.1	488	INTERGENIC	--	--	--
Ca3_P1_34967166	Ca3	34967166	TAATAAATAAA/TAATAAA	TTATTTTCATGGAGGAT GACGC	CATCAAGTCCAAAACC ACCA	59.9	630	INTERGENIC	--	--	--
Ca3_P1_34967536	Ca3	34967536	TAAAAAA/TAAAAA	TGGTGGTTTTGGACTT GATG	TTTCTTCTTCTGCCTT CCACA	59.4	626	INTERGENIC	--	--	--
Ca3_P1_34967661	Ca3	34967661	GTATTTTATTTGATATATTT/GTATT TT	TGGTGGTTTTGGACTT GATG	ATCTGTAATTGGCAGG CAGG	59.4	773	INTERGENIC	--	--	--
Ca3_P1_34970200	Ca3	34970200	CTTTTTTT/CTTTTTTT	AACACCAACAGATTCC CCAG	CAAGCTAAAATGGCTT CCCA	59.8	234	INTRON	Ca_00772	--	GRF
Ca3_P1_34972470	Ca3	34972470	TA/T	ATGAAGCTTTGGATTG TGGG	TCCACAGCGTACCAAC AAAA	59.9	491	INTRON	Ca_00772	--	GRF
Ca3_P1_34973875	Ca3	34973875	GTTTTTTTTT/GTTTTTTTTTTTTTTT	AATGGGTGGACCACTA GCAG	TCAAGGCTTGTTTGAG AGTTCA	60.0	772	DRR	Ca_00773	G	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_34974019	Ca3	34974019	AAATTAATTA/AAATTA	TGTTGACTTGTGTGGGA	TCAAGGCTTGTGAGAGTTCA	60.0	527	DRR	Ca_00773	G	--
Ca3_P1_34976076	Ca3	34976076	TC/T	AACGGAAAAACCATGACAGC	CAATTCAGCAAAGCGCAATA	60.0	717	INTRON	Ca_00773	G	--
Ca3_P1_34976442	Ca3	34976442	TT/TTTAGTCCT	TATTGCGCTTTGCTGATTG	TGCTCATCATTGGATTGGA	60.0	554	INTRON	Ca_00773	G	--
Ca3_P1_34976806	Ca3	34976806	G/GC	TATTGCGCTTTGCTGATTG	TGCTCATCATTGGATTGGA	60.0	554	INTRON	Ca_00773	G	--
Ca3_P1_34982689	Ca3	34982689	T/TG	ATCCAATGATAACCCGTGA	GTGGGACTTAGGCACCCATA	60.0	479	INTRON	Ca_00773	G	--
Ca3_P1_34988591	Ca3	34988591	A/AT	AGAATGGCATGGATCGTAG	TGTGAACATTTGGCAGCTC	59.9	433	INTRON	Ca_00773	G	--
Ca3_P1_35002476	Ca3	35002476	TA/T	GCATTGGGAGAAAGCCAATA	TTCCATGATGGGTTTCAAT	60.0	339	INTERGENIC	--	--	--
Ca3_P1_35011286	Ca3	35011286	TT/TTCT	AGGCCTGATGTTGGTTCATC	GGAAAGACAACCTCATGGA	59.9	664	INTRON	Ca_00775	Q	Nin-like
Ca3_P1_35014215	Ca3	35014215	AATT/AATTATT	GGAACAGCAAGCTCATCTCC	GGTGGACCAGCAAAGACACT	60.0	345	INTERGENIC	--	--	--
Ca3_P1_35014454	Ca3	35014454	T/TTA	GGAACAGCAAGCTCATCTCC	AACACCCCAACCCATTCCTCT	60.0	474	INTERGENIC	--	--	--
Ca3_P1_35015622	Ca3	35015622	GTCA/GTCATGTCATCA	AATTGCTTCACGGTCTTGCT	AACCTCTCTTATGCGCGTGCT	59.9	272	INTERGENIC	--	--	--
Ca3_P1_35017729	Ca3	35017729	AAA/AAATATTTAA	TCAATGCCATGTTAAGGCAA	GCACTCCCATATGTATGGTAGAA	60.1	890	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected 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_P1_35017784	Ca3	35017784	TAAGAA/TAAGAAGAA	TGACCGAAAAGTGTC AAAA	GCCTAGAAAAGTAGGG GTGTTACAA	59.1	760	INTERGENIC	--	--	--
Ca3_P1_35019374	Ca3	35019374	A/AG	CCCCTGAAAATCGTAT CACAA	GCTGAGTTTAATGACC CGGA	59.8	765	DRR	Ca_00776	Q	E2F/DP
Ca3_P1_35021922	Ca3	35021922	TAGA/TA	TGCAACAAGCATCATT CCAT	GTTCTTTTCTTGCGC CAAC	60.1	594	INTRON	Ca_00776	Q	E2F/DP
Ca3_P1_35023048	Ca3	35023048	TAAA/TAAAGAAA	CAAGCTTATGTGAGTG GCGA	CTTGTGGGACTTCCAG GTGT	60.0	411	INTRON	Ca_00776	Q	E2F/DP
Ca3_P1_35030161	Ca3	35030161	GC/GCTACTAAAGTTC	GATGTCCAACCTCCGAC GACT	GAAACCGGATTTCCCG ACTT	60.1	370	INTERGENIC	--	--	--
Ca3_P1_35031349	Ca3	35031349	CAA/C	ACTCATCTGTTCCAC AGCC	ATTCATGATGGTCCCT CAGC	60.1	584	INTERGENIC	--	--	--
Ca3_P1_35032146	Ca3	35032146	A/AAACATCTT	GGAATCTCAATGCTGA GGGA	ACTGTCGATTCTCACC GGAT	60.2	563	INTERGENIC	--	--	--
Ca3_P1_3503254	Ca3	3503254	TC/TCCATACTTGCTAC	GTTTCTCTGAGCCCAG TTCG	CTTTGCCTCTTCTGCG AAAC	60.0	419	INTERGENIC	--	--	--
Ca3_P1_35033028	Ca3	35033028	GATATA/GATA	TTCAAAC TAGTCACAC CAACGG	TTTCATGTTGTTCCCG CAAT	60.1	477	DRR	Ca_00777	R	--
Ca3_P1_35033877	Ca3	35033877	GTTTTTTTTTT/GTTTTTTTTTTTT	TGCTTCGGCTGTATTT TTCA	CACACACACACACACG AAGG	59.4	410	DRR	Ca_00777	R	--
Ca3_P1_35034968	Ca3	35034968	CATA/CA	GTCTACGACTCCCTGG TGGA	CAAGTGGAGCGTTTGT TTGA	60.1	564	INTRON	Ca_00777	R	--
Ca3_P1_35035644	Ca3	35035644	TA/TAA	GCTGAACTCCGATTAC CCAA	TCATGCTGCTTCAAAG GTTG	60.1	701	INTRON	Ca_00777	R	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_35036449	Ca3	35036449	AC/ATC	CACAATGGTGCCAAA ACAG	ACGGATGCCTATTGTT CAGG	60.0	566	INTRON	Ca_00777	R	--
Ca3_P1_35040031	Ca3	35040031	GA/GAA	CATTCCAACCACACTT CCCT	GAACAACCACCATCTT TGGG	59.8	521	INTRON	Ca_00777	R	--
Ca3_P1_35040555	Ca3	35040555	ATT/AAAAAAAAGTT	AGCAAGGCCATCTTTC TTCA	TCAAGCTCTGCATATG GGTG	60.0	259	INTRON	Ca_00777	R	--
Ca3_P1_35044914	Ca3	35044914	ACTTCATCTTCATCTTCATCT/ACTTCA TC TTCATCT	ATGGTGTTAAATCGGA AGCG	TCAAAAGCAGAAATG AAATGA	60.0	194	INTRON	Ca_00777	R	--
Ca3_P1_35048156	Ca3	35048156	T/TTG	TCTCAACGGACATCGT GTGT	CGGGATGCGACCATC TATTA	60.2	504	INTERGENIC	--	--	--
Ca3_P1_35048266	Ca3	35048266	TATA/T	TCTCAACGGACATCGT GTGT	CGGGATGCGACCATC TATTA	60.2	504	INTERGENIC	--	--	--
Ca3_P1_35048468	Ca3	35048468	GTTTATTATTATTATT/GTTTATTAT TT	AGCTGATCGCAACTTA GGGA	TTATGGGCAAAATAGC AGGG	60.0	536	INTERGENIC	--	--	--
Ca3_P1_35049322	Ca3	35049322	ATAGTA/ATA	TCCCTGCTATTTTGCC CATA	GGGAAGCGTAGTGAC ATCGT	60.4	687	INTERGENIC	--	--	--
Ca3_P1_35049614	Ca3	35049614	CAAAAAA/CAAAAAA	ACGATGTCACTACGCT TCCC	CAGCAATTTCCATCAT CACG	60.1	334	INTERGENIC	--	--	--
Ca3_P1_35051711	Ca3	35051711	TTTT/TTTTATT	TCCAATTTATAGGTCTT TTCGTTG	GACATCACCAATCAT CCCC	58.7	815	INTERGENIC	--	--	--
Ca3_P1_35051804	Ca3	35051804	CTT/CT	TCCAATTTATAGGTCTT TTCGTTG	GACATCACCAATCAT CCCC	58.7	815	INTERGENIC	--	--	--
Ca3_P1_35051853	Ca3	35051853	CTTT/CTTTT	TTTTTGACTGTTTTTCG ATTGAG	GACATCACCAATCAT CCCC	58.5	316	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected 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_P1_35051973	Ca3	35051973	AT/ATT	TTTTTGACTGTTTTCG ATTGAG	GACATCACCAATCAT CCCC	58.5	316	INTERGENIC	--	--	--
Ca3_P1_35053371	Ca3	35053371	GTTTTTTTTTT/GTTTTTTTTT	TCGCACATATGATTG TCATT	ACGGGACAAATGTTTT GACA	59.0	381	INTRON	Ca_00778	Q	E2F/DP
Ca3_P1_35061749	Ca3	35061749	A/AACTGT	TCAATACCCAGCACC AAAT	TTCTGCCTCCATTCA AACC	60.2	710	CDS (FRAME SHIFT)	Ca_00778	Q	E2F/DP
Ca3_P1_35074656	Ca3	35074656	TAAATAAAATAAAATA/TAAATAAAATA AAATAAAATA	GTGCCAGAGAATGAAC CCAT	CAACCTTTTGTTTTG CGGT	59.9	719	INTERGENIC	--	--	--
Ca3_P1_35077901	Ca3	35077901	ATTTTT/ATTTTTT	GTCCATCACGACTTGG ACCT	TGCAGTCCAGCATTGG TAAC	60.0	281	INTERGENIC	--	--	--
Ca3_P1_35079401	Ca3	35079401	CT/CTTCCTGT	CGTCTTCTTCTGCTA TGCC	ATGGGTGTGATTGGTT TGGT	60.0	330	CDS (large-effect mutations)	Ca_00780	--	bZIP
Ca3_P1_35084445	Ca3	35084445	TAA/TAAA	GTGGTCATGAGGGCA GATTT	CTGCAGGCAAAACAT TGAA	59.9	551	INTRON	Ca_00781	--	G2-like
Ca3_P1_35086678	Ca3	35086678	ATTTTT/ATTTTT	TCTGCTTCATGTGGCA AAAG	CATGTTGGAGACTGCG ATTG	60.0	487	INTRON	Ca_00781	--	G2-like
Ca3_P1_35086999	Ca3	35086999	TGTTGCAGTTGCAGTTG/TGTTGCAG TTGCAGTTGCAGTTG	TGTTGTGGTGGTGTG TTCC	TCACTCATTTGCGGTT CTTG	60.3	458	CDS (large-effect mutations)	Ca_00781	--	G2-like
Ca3_P1_35090910	Ca3	35090910	ATTTTTTTT/ATTTTTTTTTT	TTTTCGGGGTACAAAT TGATG	AGCTTTGGTCGCAGAC ACTT	59.7	493	INTERGENIC	--	--	--
Ca3_P1_35091039	Ca3	35091039	GATAAAATAA/GATAA	TTTTCGGGGTACAAAT TGATG	AGCTTTGGTCGCAGAC ACTT	59.7	493	INTERGENIC	--	--	--
Ca3_P1_35091334	Ca3	35091334	GAAAAA/GAAAAAA	CAAAAGTGTCTGCGAC CAAA	CGGCAGTTGGTTCAG TTTT	59.9	380	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_35093634	Ca3	35093634	AAAATAAATAAATAAATAAT/AAAATA AATAAAT	TTTCATTTCAAATATAT TCATGGCA	TATTGCGCGTCAAAAT ACCA	59.6	153	INTERGENIC	--	--	--
Ca3_P1_35093805	Ca3	35093805	TTA/T	ATCCAAATAGATGCAT GCCC	TGGTCCATAATTTGT TGTTTTT	59.8	245	INTERGENIC	--	--	--
Ca3_P1_35100602	Ca3	35100602	TAAAAAAA/TAAAAAAA	TTATAAGTTTGGGGC ACCG	CAACAGCGGTACAATC ATCG	59.8	701	INTERGENIC	--	--	--
Ca3_P1_35100722	Ca3	35100722	TAAAAAAA/TAAAAAAA	AAAAAGAGCATAAAA CGAAAGC	CAACAGCGGTACAATC ATCG	58.3	554	INTERGENIC	--	--	--
Ca3_P1_35101262	Ca3	35101262	TTAAAAAGTAAAA/TTAAAAAGTAAAA GTAAAA	CGATGATTGTACCGCT GTTG	CGAAGGAAGTGTATC CGAA	60.1	885	INTERGENIC	--	--	--
Ca3_P1_35101590	Ca3	35101590	CTTCAATTG/CTTC	TGCAATTATAAGACCAT CGCA	CGAAGGAAGTGTATC CGAA	59.2	591	INTERGENIC	--	--	--
Ca3_P1_35103816	Ca3	35103816	ATT/ATTTT	TATGTGCATCCAACAT GTGC	GTACACACGGGCGAT GTATG	58.9	693	INTERGENIC	--	--	--
Ca3_P1_35106644	Ca3	35106644	AATATATATATATA/AATATATATATA	TGTCAAATGGGAAAGG GAAG	TTTGCTGCAATACATT TTCAGG	59.9	608	INTRON	Ca_00783	S	--
Ca3_P1_35117225	Ca3	35117225	T/TA	GGTGCACCATACAATA ACAACAA	CATGGCATCGTAACAA CGAC	59.7	580	DRR	Ca_00785	G	C3H
Ca3_P1_35117240	Ca3	35117240	CTTT/CTT	GGTGCACCATACAATA ACAACAA	CATGGCATCGTAACAA CGAC	59.7	580	DRR	Ca_00785	G	C3H
Ca3_P1_35119008	Ca3	35119008	G/GCACTTTTA	AGTTGGACCCACTTTG TTGG	AAATGGATGGGCTG TTGC	59.9	545	INTRON	Ca_00785	G	C3H
Ca3_P1_35119260	Ca3	35119260	CAAA/CAAAA	AGTTGGGCAGCACAAT TAGG	TTCAACAGATTGGA AAGGG	60.1	565	INTRON	Ca_00785	G	C3H

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_35121317	Ca3	35121317	GC/G	TTAGGTGAATTTTGGG CAGG	TATCGTGATTGATCGT GCGT	59.9	451	INTERGENIC	--	--	--
Ca3_P1_35131690	Ca3	35131690	CG/C	GCGTGGAATTCGTGT AATG	AGTGGGAACAACTTT GAGCA	59.0	494	INTERGENIC	--	--	--
Ca3_P1_35134115	Ca3	35134115	CAAAAAA/CAAAAA	TGTTGAAAACTGCG TCTG	ACTAGGCTGTCTATCG GGGC	59.9	659	INTERGENIC	--	--	--
Ca3_P1_35135744	Ca3	35135744	CTTAAAAATTT/CTTAAAAATTACTAT TAAAAATTT	TTTCATGGTTGACATTC AATTTTT	CGTGTGCGTGCTAGT GGTAT	59.6	896	INTERGENIC	--	--	--
Ca3_P1_35136413	Ca3	35136413	CTAT/CTATATAT	ATACCACTAGCACGCA CACG	TTTATGCATATCACAT CAACAAAA	59.8	660	INTERGENIC	--	--	--
Ca3_P1_35138044	Ca3	35138044	TA/TAA	TTTTCAAATTGGCCG GT	ACCAAGAGAATCTGGC CCTT	58.9	265	INTERGENIC	--	--	--
Ca3_P1_35138675	Ca3	35138675	TAA/TAAA	AGGGCCAGATTCTCT GGTT	GTCAGATGAATCCCG CATC	60.1	563	INTRON	Ca_00787	G	C3H
Ca3_P1_35143342	Ca3	35143342	ATTT/ATTTT	CACATGCACTTTGGAG TTGG	TCTTCGTCTCCCTCCA TTTC	60.2	428	DRR	Ca_00788	G	C3H
Ca3_P1_35147082	Ca3	35147082	T/TAAAGA	GTCGGAGCCAAAAATG AAAA	TGTGTTTCTTTCCAGC AGAGAC	60.1	317	INTERGENIC	--	--	--
Ca3_P1_35155087	Ca3	35155087	CAA/CA	ACACGTCCTTACCCT ACCC	CCTTTTGAAGGAATT GGAAGA	60.1	173	INTERGENIC	--	--	--
Ca3_P1_35166785	Ca3	35166785	TAGAAAG/TAG	TGGCATGTGTTTGT ATTT	AATGTGACCAACTTCC TCGG	59.8	859	INTERGENIC	--	--	--
Ca3_P1_35168074	Ca3	35168074	ATGT/AT	TGTCATTTGCACCAAC AGGT	CAATTCAAAACACCTC ACAATCA	60.0	536	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_35173626	Ca3	35173626	GATATATAT/GATATATATAT	CGACATTAATTGGAC GTGA	GGGTTTGCCTTCATT TTCA	57.1	738	DRR	Ca_00790	R	--
Ca3_P1_35176138	Ca3	35176138	GTTAATT/GTT	GAAAGAACACATGGAA TGCG	ATTCAATTCTGCCATC TCGC	59.1	383	INTERGENIC	--	--	--
Ca3_P1_35176384	Ca3	35176384	ATGTT/AT	TGGCAGAATTGAATGT TTCG	GCTTTTGTGAGCTGG GAAG	59.7	560	INTERGENIC	--	--	--
Ca3_P1_35176570	Ca3	35176570	TAAA/TAA	TGGCAGAATTGAATGT TTCG	GCTTTTGTGAGCTGG GAAG	59.7	560	INTERGENIC	--	--	--
Ca3_P1_35178095	Ca3	35178095	CA/CATCAGA	TTCCAATTTGAAATTT TCGC	GGTTGGGTCTCTCGAA ATCA	59.1	318	INTERGENIC	--	--	--
Ca3_P1_35180182	Ca3	35180182	TAAAA/TAAA	ATTTTCCCAATTGAAC CCC	GGATCAGCCGATGATT ATTTTT	59.9	607	INTERGENIC	--	--	--
Ca3_P1_35180444	Ca3	35180444	A/AAT	GGCCAACCTTTAAACA ATCG	GGATCAGCCGATGATT ATTTTT	59.5	477	INTERGENIC	--	--	--
Ca3_P1_35181524	Ca3	35181524	ATTT/ATT	ATGTCGGTCATTACC CCAC	CTTTCCTGCACCCAT ATTT	59.5	485	INTERGENIC	--	--	--
Ca3_P1_35186643	Ca3	35186643	TTATATATA/TTATATATATA	GCATGAGTGCATCAAG AACC	TGCCTTTTGTTTTAGT GCCC	59.3	802	DRR	Ca_00792	--	--
Ca3_P1_35187164	Ca3	35187164	GTCT/GTCTCT	GGGCACTAAACAAAA GGCA	TCAAATCCTGTGGTTG TGGA	60.1	588	DRR	Ca_00791	--	bZIP
Ca3_P1_35190026	Ca3	35190026	TATTTCA/TATTTCAATTTCA	CGATCAAGCCAACCCA TTAT	AGGAGATAGAGAGGC TGGGG	59.8	408	INTERGENIC	--	--	--
Ca3_P1_35191149	Ca3	35191149	T/TC	TTTTAGAGGGTTTGG CGG	AACAAAAATCTTAATGT GACGCAA	60.1	579	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_35191444	Ca3	35191444	CTT/CTTT	TTTCAAAATTCAACTCA CAAACAGA	ACCATTTCAGGCCATC TTGA	60.1	813	INTERGENIC	--	--	--
Ca3_P1_35191903	Ca3	35191903	AT/AAAACCTTTT	ATCAAGATGGCCTGAA ATGG	CCTCTTGTGGGAGGC CTTAT	59.9	149	INTERGENIC	--	--	--
Ca3_P1_35192442	Ca3	35192442	CATATATATATAT/CATATATAT	ATAAGGCCTCCACAA GAGG	AACCTTTTAGATCAGT CCGAACC	60.5	663	INTERGENIC	--	--	--
Ca3_P1_3519617	Ca3	3519617	AGTTTAGGGTTTAGGGTTTA/AGTTTA GGGTTTAGGGTTTAGGGTTTA	GGGTTTAGGGTTTCGG GATA	ATCAGTCCATGTGGG TAGA	60.0	936	INTERGENIC	--	--	--
Ca3_P1_35198592	Ca3	35198592	ACAAAATTGAGTACCCAAAATTG/ACA AAATTG	ACCTACCTCTCGTCGG GTTT	ACCATCGGTGAAAGTG GAAG	60.0	668	INTRON	Ca_00793	--	GATA
Ca3_P1_35200631	Ca3	35200631	A/ATT	TCAAATTGTTGCACA TCAA	AAAAGGCCCTTCTTC AGAG	60.1	749	DRR	Ca_00793	--	GATA
Ca3_P1_35204680	Ca3	35204680	AT/ATCT	TGGCCAAATCACAAAC CTATT	AATACCAATTGGCGA GTGC	59.3	560	INTERGENIC	--	--	--
Ca3_P1_35205215	Ca3	35205215	A/ATC	GCACTCGCCAAATTGG TATT	TTTGAGTCCAATGGGT GTGA	60.0	316	DRR	Ca_00795	R	B3
Ca3_P1_3520633	Ca3	3520633	TA/TAAA	TGTCGAATCATACAGG CCAA	CGAACTGGGCTCAGA GAAAC	60.1	569	INTRON	Ca_21350	J	--
Ca3_P1_35213093	Ca3	35213093	CTTTT/CTTT	GCCATCACATTCATGA CAAAA	TGATATTGCAAGAAAC CCCA	59.4	758	INTERGENIC	--	--	--
Ca3_P1_35213687	Ca3	35213687	TAAAAAAAA/TAAAAAAAAA	TGGGGTTTCTTGCAAT ATCA	TCACCATGAACAATA TTTtagga	59.0	556	INTERGENIC	--	--	--
Ca3_P1_35215168	Ca3	35215168	TTTTTCCTTTTCATTTTCCTTT/TTTTTC CTTTCATTTTCCTTTTCATTTTCCTTT	GCGAAGAAAAAGAGT CGTG	GTAATCGACAGCCTGC AACA	60.0	316	INTRON	Ca_00796	C	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_35218092	Ca3	35218092	GTTTTTTTTT/GTTTTTTTTT	AAGCCTGCGCAAATAG TGTT	GGCAACGTATTGCTTC CATT	59.9	557	INTERGENIC	--	--	--
Ca3_P1_35227118	Ca3	35227118	AGG/AGGG	TGATCGTTGCCCATGT GTAT	TTGTGCATTAGGGGAA AACC	59.8	490	INTRON	Ca_00797	I	--
Ca3_P1_35227262	Ca3	35227262	TAAA/TAA	TGATCGTTGCCCATGT GTAT	TTTGTGAGCAAAACA GCAG	59.8	762	INTRON	Ca_00797	I	--
Ca3_P1_35230228	Ca3	35230228	CAA/CAAA	ACTCGCCTAAATTCTG CACG	GAAACTCCACGCTGAA AAGC	60.4	502	INTERGENIC	--	--	--
Ca3_P1_35232760	Ca3	35232760	TCC/TC	AATTGATGGAGTTTG CCTG	TGTTGACGAGTTGACG TGGT	59.9	557	DRR	Ca_00798	CU	--
Ca3_P1_35235106	Ca3	35235106	CAAA/CAAAA	TTCTTGATTGCAGCGT TGAG	AACAACTTTGGCGTGT GGAT	60.1	432	DRR	Ca_00799	M	--
Ca3_P1_35241980	Ca3	35241980	CTT/CTTAGTT	GGGACGCTCATACAAT GGTT	CGCACAGTGAAGTGC AAAGT	59.8	331	INTRON	Ca_00801	--	--
Ca3_P1_35247466	Ca3	35247466	CTTTT/CTT	CAACGATCGCTTGAAT GAGA	ACAACCGCCCAAGAT AGTG	59.9	239	INTERGENIC	--	--	--
Ca3_P1_35247528	Ca3	35247528	TTATATA/TTATA	CAACGATCGCTTGAAT GAGA	ACAACCGCCCAAGAT AGTG	59.9	239	INTERGENIC	--	--	--
Ca3_P1_35247904	Ca3	35247904	CATATATAT/CATATAT	CACTATCTTTGGGCGG TTGT	TTCTCTGACCGTGAAA GTGG	60.0	382	INTERGENIC	--	--	--
Ca3_P1_35248340	Ca3	35248340	AATTATATT/AATT	ACCACCTTCACGGTCA GAGA	TACAATTTGCACTCCA CCCA	58.3	870	INTERGENIC	--	--	--
Ca3_P1_35248471	Ca3	35248471	TTAT/TTATAT	AACAACATTTTGTGTT GTTTCG	TACAATTTGCACTCCA CCCA	59.0	847	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_35251230	Ca3	35251230	GTTTT/GTTTTT	TTCGTCCCTCACCATA CACA	GCCTCTCCACTTTACG ATGC	60.0	303	INTERGENIC	--	--	--
Ca3_P1_35256982	Ca3	35256982	AT/ATT	CAACATTTGACAACG GGTTTA	CGCACATGTAGATTGC GAAG	59.8	956	INTERGENIC	--	--	--
Ca3_P1_35257517	Ca3	35257517	TCCC/TCC	ATTGAGTTAACGCGTT GCAG	ACTCCTCATTCCCAT CCCC	59.0	513	INTERGENIC	--	--	--
Ca3_P1_35260612	Ca3	35260612	ATTTT/ATTT	TGGATTTTGGGATGGT TTGT	GGCAATCACATAGTG CCTT	60.0	509	DRR	Ca_00803	O	--
Ca3_P1_35260978	Ca3	35260978	TACT/TACTGTAAC TGCACT	ATGGGAACCAATTTGT TGGA	GCCTTGTGTTGGGCT ATGT	60.0	537	DRR	Ca_00803	O	--
Ca3_P1_35261808	Ca3	35261808	CGTCATAATGTCATAATGT/CGTCATA ATGT	ACATAGCCCAACACA AGGC	GAACAGTTTCACCCC AAAA	60.0	584	DRR	Ca_00803	O	--
Ca3_P1_35264280	Ca3	35264280	ACTC/ACTCTC	ATGTCAACGCACCTCC ATTT	TTTCATATCAAGAACT CCACAACA	60.4	478	INTERGENIC	--	--	--
Ca3_P1_35265195	Ca3	35265195	TC/TCC	TTGGAGTCAGGAAATA TCCCA	GCAACGAGGATTGAC CGTAT	59.4	820	INTERGENIC	--	--	--
Ca3_P1_35268599	Ca3	35268599	TTATATATATATATATATAT/TTATAT ATATATATATAT	CCTAGTTGGCCTGAAA CCAC	AGATGAATCGGAAATC CACG	59.6	521	DRR	Ca_00804	--	--
Ca3_P1_35279420	Ca3	35279420	GAATAATA/GAATA	TCGGGATACTGGTGAA GGAG	GGCTATGGTATGGTTG GTGG	60.1	570	INTRON	Ca_00806	A	bZIP
Ca3_P1_35284220	Ca3	35284220	ACT/A	TCACGTTCACGATTG GCTA	CCTCGCTGATGCTTGT TGTA	60.3	151	INTERGENIC	--	--	--
Ca3_P1_35289189	Ca3	35289189	CAAA/CAA	AAACGAAGCGGCAGTT AAGA	TTGCTGACTCGACATC AAGG	60.0	927	DRR	Ca_00808	U	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_35291358	Ca3	35291358	GAAAAA/GAAAA	ATGCATGCAGATCAGA CGAC	TGCACAAATGGTTCT GTGT	59.8	283	INTRON	Ca_00808	U	--
Ca3_P1_35299387	Ca3	35299387	TAAA/TAAAA	CCTCTGGCATCGAAAG AAAG	ATTGAAGGCCCTCTAC AGCA	59.9	639	INTRON	Ca_00809	T	--
Ca3_P1_35300047	Ca3	35300047	CAAAAAA/CAAAAA	AAAAGGAATGTTGGC CTGA	GGCTGGCCTTCTGAT GTTAG	59.5	773	INTRON	Ca_00809	T	--
Ca3_P1_35302305	Ca3	35302305	ATTTTTTTTT/ATTTTTTTTTT	GAACCTCATGGGCACT TGTT	TTGGATTGGGACATG GATT	60.0	708	INTERGENIC	--	--	--
Ca3_P1_35303259	Ca3	35303259	AAAG/A	ACTAACCATTGCTGC CATC	CACCACCACCTCATTG TTTG	60.1	821	INTERGENIC	--	--	--
Ca3_P1_35303338	Ca3	35303338	TAAAAAAAAA/TAAAAAAAAA	AGTAAGGAATTGGGA AGCC	CACCACCACCTCATTG TTTG	59.4	683	INTERGENIC	--	--	--
Ca3_P1_35303453	Ca3	35303453	A/AATTTTGAGATG	AGGAATTGGGAAGCC AATA	CACCACCACCTCATTG TTTG	60.6	679	INTERGENIC	--	--	--
Ca3_P1_35303767	Ca3	35303767	GAAAAA/GAAAA	CAAACAATGAGGTGGT GGTG	CCCTCCCTCCAATTTG ATTT	59.8	627	INTERGENIC	--	--	--
Ca3_P1_35304886	Ca3	35304886	G/GAAAT	GGCGTTCTGCCTTATT TTCA	TGCATGCTGCTTTTCT CAAG	60.2	816	INTERGENIC	--	--	--
Ca3_P1_35305215	Ca3	35305215	TTAT/TTATCATCATAT	GATGCGTACATGTGGT GGTT	TGAGTAGTTTCTTTGC GGGG	59.3	426	DRR	Ca_00810	A	--
Ca3_P1_35306575	Ca3	35306575	TAAAAA/TAAAAA	GTTTGATTCTGACCGC CAGT	CCCTGCTGGGTGTAAG ATGT	60.0	769	DRR	Ca_00810	A	--
Ca3_P1_35307396	Ca3	35307396	TAAA/TAA	CAATCATGCGATTTC ATTC	ATTTGGTTTTCGATG AAGC	60.0	636	INTRON	Ca_00810	A	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_35307898	Ca3	35307898	TAA/TAAA	GCTTCATCGAAAACCAAT	TATAATCGCAAAATGCCG	60.1	212	INTRON	Ca_00810	A	--
Ca3_P1_35307977	Ca3	35307977	AT/ATT	GCTTCATCGAAAACCAAT	TATAATCGCAAAATGCCG	60.1	212	INTRON	Ca_00810	A	--
Ca3_P1_35311817	Ca3	35311817	CTTTTT/CTTTTT	TTCCGATCGAGTTGCAATAA	CTTTGTCGCTCCTCTCCAAC	59.3	518	INTERGENIC	--	--	--
Ca3_P1_35312037	Ca3	35312037	ATATCCT/AT	AGCATGCACAAAATAGCCAA	CTTTGTCGCTCCTCTCCAAC	59.3	328	INTERGENIC	--	--	--
Ca3_P1_35312512	Ca3	35312512	AACACACACA/AACACACA	GTTGGAGAGGAGCGACAAAG	TGCAAACTCTCAGTTCA	60.0	637	INTERGENIC	--	--	--
Ca3_P1_35315660	Ca3	35315660	TAAAAAAA/TAAAAAA	GATGTTGTGTCATCCTTCGC	CAACCACGTGATCAAAAGTG	59.1	681	DRR	Ca_00811	--	--
Ca3_P1_35317314	Ca3	35317314	TATATAATATAATAT/TATATAATAT	TGACGTTGTTGGAGATGAAAA	TGTCGGTCCACTCTTACCC	59.2	590	INTRON	Ca_00811	--	--
Ca3_P1_35319485	Ca3	35319485	TGG/T	GATGACGTGTTGGAGTGGTG	TGCACATGGTGGTTGATTTT	60.0	518	INTERGENIC	--	--	--
Ca3_P1_35319796	Ca3	35319796	TAAA/TAA	GCCACCAACTGTTCGAGTTT	TTTTTAGTGACACATGTCGGC	60.2	533	INTERGENIC	--	--	--
Ca3_P1_35327371	Ca3	35327371	ATA/ATATTA	CATCGACAGGGTTTTCACCT	CTTAACAGCCCTGGGATACA	60.0	594	INTRON	Ca_00812	Z	MYB_related
Ca3_P1_35329937	Ca3	35329937	TA/TAA	ATAATATGCGCCTGCTTGCT	TCCAAATCGGCTCGTAAGAAC	59.9	473	INTRON	Ca_00812	Z	MYB_related
Ca3_P1_35334965	Ca3	35334965	GTTTTT/GTTTTT	GAATTGGATCAACGGTTCGT	ATTAGCATAACCGCCATTCC	59.8	448	INTRON	Ca_00813	G	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_35335583	Ca3	35335583	GAAA/GAA	TGGTGTCAAGAGGAC AGTTT	TGAATGTGAGTCGGT TCAA	59.6	916	INTRON	Ca_00813	G	--
Ca3_P1_35336928	Ca3	35336928	GT/GTT	TCTAAACTCTCCGCC CTTG	ACCGAACCTTTTGGGT TGTA	59.4	607	INTRON	Ca_00813	G	--
Ca3_P1_35339135	Ca3	35339135	GTTTTT/GTTTTTT	TTTGGGGCTTTTGACTT TGG	GCGGTTGAACCTGGG ATTTA	60.1	539	INTRON	Ca_00813	G	--
Ca3_P1_35341956	Ca3	35341956	ACTTCTT/ACTT	TGAGTCATTGATGAGG CAAAA	AAGGTTGTGTTTGAAA CCGC	59.3	660	DRR	Ca_00813	G	--
Ca3_P1_35347719	Ca3	35347719	ATTTTT/ATTTTTT	GTCCTTATTGCGGACC ACAT	CGTCAACAAAAGAAAG AAAATGC	59.8	493	DRR	Ca_00814	QR	B3
Ca3_P1_35349190	Ca3	35349190	A/AAAATAG	TTTGGAGATCGAAGCA AAGG	TTGCTTCATTGGGAA GGT	60.3	280	DRR	Ca_00815	J	YABBY
Ca3_P1_35351387	Ca3	35351387	TC/TCCAAAC	CCCAGTTAGGGTTTG ACGA	CCGGGTAAAAGTTGG GTTTT	60.0	331	DRR	Ca_00816	R	--
Ca3_P1_35358226	Ca3	35358226	TA/T	CGCATCTCATTATCGA AGCA	CCTGCATATCATGTCT TGCG	59.9	323	INTERGENIC	--	--	--
Ca3_P1_35361414	Ca3	35361414	AAATAATAATAATAA/AAATAATAA TAATAA	GGAAGAAGAAGCTACG CCAA	AGAACCAACCAACCA CTCG	59.6	696	INTERGENIC	--	--	--
Ca3_P1_35361616	Ca3	35361616	TTATC/TTATCCCCGCCCTACATATC	AAATCGAGTGTTGGT TTGG	TTGTTTAAACCGTGAT GAGTCAA	59.8	439	INTERGENIC	--	--	--
Ca3_P1_35362095	Ca3	35362095	ATATTATT/ATATTATTATT	CGAGTGGTTGGTTTGG TTCT	TGCTTAATTTCAACAA AAGTTGC	60.0	789	INTERGENIC	--	--	--
Ca3_P1_35362688	Ca3	35362688	AATATTTTCTATTT/A	AAGCAACTTTTGTTGA AAATTAAGC	CATCAACATTCATCTTT ATGTCATTTT	59.4	791	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_35362840	Ca3	35362840	ATTTTT/ATTTT	AAGCAACTTTTGTGA AAATTAAGC	CATCAACATTCATCTT ATGTCATTTT	59.4	791	INTERGENIC	--	--	--
Ca3_P1_35365941	Ca3	35365941	ATTTTTTTTT/ATTTTTTTTTT	AACAACGGGGTGTCA CTAC	TTGGTGGGTATCTTGT GAAGC	59.7	681	DRR	Ca_00817	--	--
Ca3_P1_35367888	Ca3	35367888	ATAT/ATATTAATAATTAT	CGGAGTGGTCGATAGT GGTT	TTGGATTGGTGGTGAG TTGA	60.0	572	INTERGENIC	--	--	--
Ca3_P1_35368592	Ca3	35368592	TA/T	TCAACTCACCACCAAT CCAA	GCCGATTCTGAATATG TGTAAGG	59.9	617	INTERGENIC	--	--	--
Ca3_P1_35369772	Ca3	35369772	ATTTTTTT/ATTTTTTT	TTTATGGTCCGCTTCC TC TT	TCATTGTTTGACAA GTTTTGC	58.8	569	INTERGENIC	--	--	--
Ca3_P1_35370329	Ca3	35370329	TAAAA/TAAA	TTGCAAAACATTGTCAA ACAAA	TGTGCTTGCCTAAATG TCCA	59.1	856	INTERGENIC	--	--	--
Ca3_P1_35370358	Ca3	35370358	ATATTATTATTATTATTA/ATATTAT TATTATTATTA	TTGCAAAACATTGTCAA ACAAA	TGTGCTTGCCTAAATG TCCA	59.1	856	INTERGENIC	--	--	--
Ca3_P1_35370619	Ca3	35370619	GAAAAAAAA/GAAAAAAAA	AAAATGTTTTACAGTCC CGTTG	CCAAATCTTTGGCACT CGAT	58.1	388	INTERGENIC	--	--	--
Ca3_P1_35370943	Ca3	35370943	A/AATTATGTT	TGGAAATGCATCAATT GGAA	TCATTGTTGGACGTTG GTTT	59.9	170	INTERGENIC	--	--	--
Ca3_P1_35376752	Ca3	35376752	ATTT/ATTTT	TCACTCCTCAAGTGGA ACCC	CCGGAACCAACCCCTT ATTT	60.1	165	DRR	Ca_00818	--	NAC
Ca3_P1_35383780	Ca3	35383780	GT/GGTGGGAATT	ACTCACCTGATAGCAT GGGC	TTCAGAGAACCATCCC CTTG	60.1	504	INTRON	Ca_00819	O	--
Ca3_P1_35390580	Ca3	35390580	CG/C	TAGATCGGACGGTCGA AATC	CACGCACCTAGAACTT GCAG	60.0	704	INTRON	Ca_00819	O	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_35390727	Ca3	35390727	CAAA/CAA	CAGCTCCAGTGTGCTT CAAC	CACGCACCTAGAACTT GCAG	59.6	423	INTRON	Ca_00819	O	--
Ca3_P1_35393263	Ca3	35393263	CTTTTT/CTTTTTT	AAGGAGATGCATGCC TATG	CACCATCCCATATTG GACC	60.1	715	INTRON	Ca_00820	--	--
Ca3_P1_35395647	Ca3	35395647	TAAAA/TAAAAA	CATGCCCATGTCTAAC AACG	AGTTTGGAGGTGGTG CACTT	60.0	540	DRR	Ca_00820	--	--
Ca3_P1_35395855	Ca3	35395855	TAAAA/TAAAA	GCTGCCCAGGTTAATG AAGA	TGAAGACATGCAAATG TTTACCA	60.4	931	DRR	Ca_00820	--	--
Ca3_P1_35395949	Ca3	35395949	AG/A	AAGTGACCACCTCCA AACT	TGAAGACATGCAAATG TTTACCA	59.6	575	DRR	Ca_00820	--	--
Ca3_P1_35396014	Ca3	35396014	CAAAAA/CAAAA	AAGTGACCACCTCCA AACT	ATCTGTGTCGACCGAA AAGG	59.6	721	DRR	Ca_00820	--	--
Ca3_P1_35397271	Ca3	35397271	TGTC/T	GATTCTCTCACCGCT GCTC	ACAAACCGTTATTTTC CGCA	60.1	663	INTRON	Ca_00821	KA	--
Ca3_P1_35403982	Ca3	35403982	ATCT/AT	TTCGCTGCTCTCTTT TTGT	TTGGTCAAATCATTCA ATCAGA	60.1	730	INTERGENIC	--	--	--
Ca3_P1_35409303	Ca3	35409303	TTAT/TT	TTCATTTTCACTGGCA GCAG	CCAGATGCGCACAGA CTAAA	60.0	426	INTERGENIC	--	--	--
Ca3_P1_35418774	Ca3	35418774	GAAAAA/GAAAA	TCGCCCTGTCTGAGCT TTAT	CAGGGGTAAACGAAAA GCAAA	60.0	355	INTRON	Ca_00824	S	--
Ca3_P1_35423352	Ca3	35423352	ATCTTCTT/ATCTT	TTGGGTAACATGCCAA AACA	CAGAACCGTTGGCATT TCTT	59.8	818	DRR	Ca_00824	S	--
Ca3_P1_35423411	Ca3	35423411	A/AAAT	AAAAGATAGGGGCCAC AACA	CAGAACCGTTGGCATT TCTT	59.4	318	DRR	Ca_00824	S	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_35432127	Ca3	35432127	ACTCTCT/ACTCT	TTCCCTTTTAGCAGG GTTT	AATATTGCAATCGGG ATGA	59.9	366	INTERGENIC	--	--	--
Ca3_P1_35436004	Ca3	35436004	ATTTTTTTTT/ATTTTTTTTT	GAAATAACGTTCGCG TGTT	CATCATTGCCAAGTGC AAGT	60.0	454	INTERGENIC	--	--	--
Ca3_P1_35438296	Ca3	35438296	TG/TGG	GGTGTGTGCCCATTC TAGT	GGAAAGGGTGTCTCAA CGAA	59.9	243	INTERGENIC	--	--	--
Ca3_P1_35438547	Ca3	35438547	TTATATATATATAT/TTATATATATAT	TTCGTTGAGACACCT TTCC	TGTGTGTGCATGTT ATGATTTTG	60.1	545	INTERGENIC	--	--	--
Ca3_P1_35440193	Ca3	35440193	T/TCA	AACTGTGCAGCATATC CATAAA	CAAGGCGGGTCTAG TATGT	57.4	410	INTERGENIC	--	--	--
Ca3_P1_35440856	Ca3	35440856	ATTTTTTTTTTTTTTT/ATTTTTTTTT TTTTT	TGTCAGGAGACCAGGA GAGG	CCGGGGTCTTTGATGA CTAC	60.4	540	INTERGENIC	--	--	--
Ca3_P1_35444296	Ca3	35444296	A/AT	ATGAGGCCCAATAGAA ACCC	CAGTCATCAAGGCGAA TCAA	60.2	629	INTERGENIC	--	--	--
Ca3_P1_35451740	Ca3	35451740	ATTTT/ATTT	ACGGACATTAGGCGTG TCTC	GAAACGCAAGCATGAC TGAA	60.1	454	INTERGENIC	--	--	--
Ca3_P1_35452484	Ca3	35452484	T/TGA	TCACACCACATGCTAG TTACCC	GCCTGACCTATTTCCA CCCT	59.9	482	INTERGENIC	--	--	--
Ca3_P1_35455506	Ca3	35455506	AAAATA/AAAATAAAATAAATA	TACAATTGGCGGCTTT TACC	AAACCCTCGATTACACA CGTC	60.0	667	INTERGENIC	--	--	--
Ca3_P1_35457861	Ca3	35457861	TTATTCTATATAAATATTCTATATAAAT /TTATTCTATATAAAT	CGTGAAGGAAGAGTT TTGG	TTTTGGTCTCAAGCCA GATTTT	59.7	543	INTERGENIC	--	--	--
Ca3_P1_35458127	Ca3	35458127	AACA/AA	CGTGAAGGAAGAGTT TTGG	GAAACTCGTAAAAAGC CGCA	59.7	802	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_35459352	Ca3	35459352	CACC/CACCAAAACC	ACTCGCATACGATTTC ACCC	GATCGGACAAATGAG GAGGA	60.0	528	INTERGENIC	--	--	--
Ca3_P1_35463051	Ca3	35463051	GTTTTTTTTTTTTT/GTTTTTTTT	ATTAGCGGTGAGTTTG GTGG	GAATCATGCTCCAACC CTGT	60.0	526	DRR	Ca_00828	--	--
Ca3_P1_35468557	Ca3	35468557	TG/T	CGAACCATGCTTTGGA GATT	GCAGATGGTCCTTTTT CAGC	60.1	472	INTERGENIC	--	--	--
Ca3_P1_35477744	Ca3	35477744	T/TC	GAACTCAATCCTAAAT CAGCAACA	TATGCTAGGTGGCCTC TCGT	59.7	803	INTERGENIC	--	--	--
Ca3_P1_35479461	Ca3	35479461	ATTTTTTT/ATTTTTT	ATTTGCTCATTGATGG AGGC	ATAGGGTGGGAAGGG ATGAG	60.0	473	DRR	Ca_00830	R	bHLH
Ca3_P1_35479811	Ca3	35479811	CTATGCAGTAT/CTATGCAGTATGCAG TAT	TTTGGTCCTCGCCACT TATC	AAATCCAACCGTTGAT CCAG	60.1	608	DRR	Ca_00830	R	bHLH
Ca3_P1_35485860	Ca3	35485860	GAAAAAA/GAAAAAA	AAGGGGTGCAACTAGC AAAA	AGACATGGACACTGAT GCCA	59.7	435	INTRON	Ca_00831	R	--
Ca3_P1_35488328	Ca3	35488328	GAAA/GAA	CTCGCTGGAATTGCT AACC	AGGACGTTGCTGCAA GATTT	59.8	502	INTRON	Ca_00832	S	--
Ca3_P1_35490841	Ca3	35490841	TAA/TA	CAAATCACGGTGCCCT ACTT	ATGCATGTTGCACTGG TGAT	60.0	772	INTRON	Ca_00832	S	--
Ca3_P1_35502556	Ca3	35502556	ATTTTT/ATTTTTT	GCCTTGAATAACCCA AGCA	CACTCCCAAAGGCAAA TTGT	60.1	447	INTERGENIC	--	--	--
Ca3_P1_35502607	Ca3	35502607	TAAAAAAA/TAAAAAAA	GCCTTGAATAACCCA AGCA	CACTCCCAAAGGCAAA TTGT	60.1	447	INTERGENIC	--	--	--
Ca3_P1_35504104	Ca3	35504104	AAT/AATAT	TTTGAACCTTTTGCA CCC	ATATTTCGTTCAACGC TCGC	60.0	461	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_35504410	Ca3	35504410	AT/ATTT	TTTTGAACCTTTTGCA CCC	ATATTTGTTCAACGC TCGC	60.0	461	INTERGENIC	--	--	--
Ca3_P1_35505847	Ca3	35505847	TAAA/TAAA	CCGTCCTCCAATATA CCCA	TGTTTGAGGGAAAAC AAGG	59.6	334	INTERGENIC	--	--	--
Ca3_P1_35524754	Ca3	35524754	AGTGTGTGT/AGTGTGT	CCATCGGAAATCGGA AGTA	GCCCCATCCTCTCTT ATGTT	59.9	871	INTERGENIC	--	--	--
Ca3_P1_35524864	Ca3	35524864	GTCAAATGACTCAAAT/GTCAAAT	CCATCGGAAATCGGA AGTA	TAGACTTGAGAGGCTT CGCC	59.9	894	INTERGENIC	--	--	--
Ca3_P1_35528890	Ca3	35528890	ATTAT/ATTATTTTAT	AACGTGACCGAGCCTA CACT	ATCCACACAAACTCG GCAT	59.8	422	INTERGENIC	--	--	--
Ca3_P1_35531180	Ca3	35531180	GTA/GTATACAACTA	TCAACGGCATTGCATA ATTT	TCGTTTTTGTACAGT AAAACCT	59.0	510	DRR	Ca_00835	--	--
Ca3_P1_35532345	Ca3	35532345	TCTGCACC/TCTGCACCTGCACC	TTCGAGATGTCAGATT CCCC	CCAGTTTGCTTCTCTG GACC	60.0	348	DRR	Ca_00835	--	--
Ca3_P1_35532624	Ca3	35532624	TG/T	CACATAATGTTGGCGT GGTC	ACCGTATGTGGACTCT CGCT	59.8	797	INTERGENIC	--	--	--
Ca3_P1_35533699	Ca3	35533699	TAAAAAAAAAAAAA/TAAAAAAAAA	GCCATTCAAATTCGAA AAACA	CACGACGAATCGAACC TAAAA	59.9	431	INTERGENIC	--	--	--
Ca3_P1_35543329	Ca3	35543329	AATATATATAT/AATATATATATATA T	ACCCTCTCATGACCCA ACAG	GTGCTGCACATTTTGG TGAC	60.0	552	DRR	Ca_00836	--	E2F/DP
Ca3_P1_35554678	Ca3	35554678	ACAA/ACAACTCAA	TTTGGACGGAAAAGTT CGAG	GAAGAAAATGTTGGGG CAGA	60.2	416	INTERGENIC	--	--	--
Ca3_P1_35557750	Ca3	35557750	CTT/CT	AGGGCAAACATCAATG TGGT	CCGCTTTGTGTGAAGT GCTA	60.2	813	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_35558006	Ca3	35558006	TAA/TA	ATCCCGCGTAATTCCT CTCT	ATCCCCTAACATTCC GACC	60.1	403	INTERGENIC	--	--	--
Ca3_P1_35558074	Ca3	35558074	AT/ATT	ATCCCGCGTAATTCCT CTCT	ATCCCCTAACATTCC GACC	60.1	403	INTERGENIC	--	--	--
Ca3_P1_35562721	Ca3	35562721	A/AT	TGATCTATTGGTGGTA TATGAGG	TGCAATAGGTAAAGCC ACCT	58.0	795	INTERGENIC	--	--	--
Ca3_P1_35568276	Ca3	35568276	TAACA/TAACAACA	AGTTGGATGGACCTTT CGTG	ACACTGGTTGCTGAGT GCAG	60.0	914	DRR	Ca_00841	--	--
Ca3_P1_35568618	Ca3	35568618	AACGTACGT/AACGT	TGTGGCATGCAATGC TTAT	TCCTGTGTTGTTGTGT CCGT	60.1	572	DRR	Ca_00841	--	--
Ca3_P1_35571015	Ca3	35571015	TAA/TAATTTACTTTTAGCAA	ATTTGCCCTCGTTTGT GAAC	ATCTAGTACAGGCGGT CCCC	60.0	585	INTERGENIC	--	--	--
Ca3_P1_35572051	Ca3	35572051	AAAAAGAAA/AAAA	TCCCTTCTCTCGTCAT CCTC	AAAATCTTCGAAACAT GAGTTGT	59.3	599	INTERGENIC	--	--	--
Ca3_P1_35574602	Ca3	35574602	ACT/AT	CAAAATGCGTCCACAC TCAG	TGGTGTTCACAACA CTCAAT	60.3	988	INTERGENIC	--	--	--
Ca3_P1_35574829	Ca3	35574829	AG/A	TTCAAGATTGAAAATG CTTTGTG	AATCGCATCGGCTAAA CAAT	59.3	412	INTERGENIC	--	--	--
Ca3_P1_35580737	Ca3	35580737	CTTAATTAA/CTTAA	CGGTGTTGCAAAGAAC TTGA	TCTTCTCCACCCTCCA TAAAA	59.9	423	INTERGENIC	--	--	--
Ca3_P1_35584605	Ca3	35584605	TAATACAA/TAATACAAAATACAA	CATCCCTTTTCATTTTCC CCT	TTTTTATGGGTTATTG GCCG	60.1	230	INTERGENIC	--	--	--
Ca3_P1_35591231	Ca3	35591231	TAAAA/T	CACACCTTTGAAGATG GGTCT	TGTCTCCGGATAGATG ACATTG	59.1	287	DRR	Ca_00843	--	bZIP

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_35591631	Ca3	35591631	T/TG	TCCGGAGACAAATTT TCAA	ATTAATGGGCCCTCG AGAC	58.2	544	DRR	Ca_00843	--	bZIP
Ca3_P1_35595513	Ca3	35595513	TTATA/TTATATA	GCTTTTTCCAAATTCGT GGA	ACATGACAATGGCTTG GTGA	60.1	670	DRR	Ca_00844	--	bZIP
Ca3_P1_35595652	Ca3	35595652	TTATATATATATA/TTATATATATA	GCTTTTTCCAAATTCGT GGA	ACATGACAATGGCTTG GTGA	60.1	670	DRR	Ca_00844	--	bZIP
Ca3_P1_35596803	Ca3	35596803	ATTTTTTT/ATTTTTTTTT	GTCACGCAAGCGAAA ACTA	CGAAAAATCATCCGGA GAAA	59.1	524	DRR	Ca_00844	--	bZIP
Ca3_P1_35599210	Ca3	35599210	ATTTTTTT/ATTTTTTTTT	TGATTGGTGCGAAAA TACC	AGGCCAATTTGGTTTG AAAG	60.7	872	DRR	Ca_00845	--	--
Ca3_P1_35599539	Ca3	35599539	TGTA/TGTACGTA	TCGCTAGATACAACCT CATTGG	GCCCAAAGCAAGCAAC TAAA	59.2	330	DRR	Ca_00845	--	--
Ca3_P1_35600191	Ca3	35600191	CT/CTT	TTTAGTTGCTTGCTTTG GGC	CCAAGTGCATGTTGA GTTTT	60.4	919	DRR	Ca_00845	--	--
Ca3_P1_35600454	Ca3	35600454	TAA/TAAA	AATTTACAGTCCCGT CACA	CAATGCGACTGGGTTT ACCT	59.0	334	DRR	Ca_00845	--	--
Ca3_P1_35602083	Ca3	35602083	CATGTTTTAT/CAT	GGGTGCGTTAGTGCA TTTT	GCCATGCTTTAACGAA GAGG	60.0	940	INTERGENIC	--	--	--
Ca3_P1_35607478	Ca3	35607478	AACACA/AACA	ACCGACATGCTTTAAG GTGG	CCTAAATCATCCAGGC TTGC	60.0	657	INTERGENIC	--	--	--
Ca3_P1_35614019	Ca3	35614019	ATTTTTTTTT/ATTTTTTTTT	TGATCAAGATTTGAATT TTTGTTTC	ATCCCCGTGTGTTGTT GTTT	59.8	256	INTERGENIC	--	--	--
Ca3_P1_35615422	Ca3	35615422	CTTT/CTTTT	GCTACCTGGATTGTTG GGAA	TGAATTTGTAGGGATG CATGA	59.9	965	DRR	Ca_00847	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_35616363	Ca3	35616363	TAA/TAAA	CCGTAGTGGCTACAAG GGAA	CGCATCAAATTTTGG GTTT	60.1	430	DRR	Ca_00847	--	--
Ca3_P1_35618022	Ca3	35618022	GTTTTTTTT/GTTTTTTTT	TGCGTACCTTAATCAG GAACAA	TTTACGCGGGCGTATT TTAC	59.6	882	INTERGENIC	--	--	--
Ca3_P1_35618119	Ca3	35618119	T/TC	TGTGAAACGAACAAG CTTAA	TTTACGCGGGCGTATT TTAC	57.7	555	INTERGENIC	--	--	--
Ca3_P1_35620254	Ca3	35620254	CAA/CAATGAAAGAAA	GCTAGCGACATAACG CACA	CGTTTCTCTCTGTC GCTC	60.0	191	DRR	Ca_00848	--	--
Ca3_P1_35621583	Ca3	35621583	AAAACATCATAGTAAACATCATAG/AA AACATCATAG	ATCAATTACGCACCTC CCAG	ATACTGGGGTAATCC CGTC	60.0	872	DRR	Ca_00848	--	--
Ca3_P1_35621870	Ca3	35621870	AGGGGG/AGGGG	TGTCGATTAAGAAACA TGCGA	GGATGTGAAACCTCG TCGT	59.3	821	DRR	Ca_00848	--	--
Ca3_P1_35626631	Ca3	35626631	ATTTTT/ATTTTTT	TTGAATCTGAATCACC GCTTT	CCAAAAGGAGTATGGA TCAGTAA	59.7	459	DRR	Ca_00850	--	--
Ca3_P1_35627331	Ca3	35627331	TTTA/T	CTGAAACTCCGACAC AAACA	TGCCTAATGGTGGAA GCTA	58.8	238	DRR	Ca_00850	--	--
Ca3_P1_35627589	Ca3	35627589	AGTTACATAC/A	TGAAATGCTAGCTTCC ACCC	GGGTTGTGGGAGAAG TTGAA	60.2	595	DRR	Ca_00850	--	--
Ca3_P1_35632758	Ca3	35632758	CAAAAAAAAA/CAAAAAAAAA	ACCGGAACACGCTTTA CAAC	CTTTCCACCTCGATT TCCA	60.0	370	DRR	Ca_00851	--	--
Ca3_P1_35634064	Ca3	35634064	TAAAAAA/TAAAAAA	TCACGAGGAAGTATGG GGAG	GCAATGAATGGTGCAT TTTT	60.1	864	INTERGENIC	--	--	--
Ca3_P1_35635369	Ca3	35635369	GTTTTTTTTT/GTTTTTTTTT	TTGTAACCAAAATGTA GCCCAA	AACACCAGCGCCAAA TTAC	59.4	526	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected 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_P1_35635776	Ca3	35635776	CTTTT/CTTT	GTAATTTTGGCGCTGG TGTT	GCGAATGCATAGAGC CTACC	60.0	635	INTERGENIC	--	--	--
Ca3_P1_35643302	Ca3	35643302	ATCT/A	TGGATGCCATACAACC AAAA	TAATCAGCCGACGAAA CACA	59.8	491	INTRON	Ca_00852	S	--
Ca3_P1_35643731	Ca3	35643731	AAAAGC/A	TGTGTTTCGTGCGCTG ATTA	TGGTTCGCTGTTTGTC ACTC	60.3	747	INTRON	Ca_00852	S	--
Ca3_P1_35644626	Ca3	35644626	TTCTC/TTCTCTCTC	CTCCCAAGAGTGAGAG CACC	CAGTTGGAGGTACCAC CGTT	60.0	269	INTRON	Ca_00852	S	--
Ca3_P1_35652779	Ca3	35652779	GTT/GTTTT	AAGTGTTTGGTGGTGG TGGT	CCACTGTCCAGTCTCT GCAA	60.2	499	INTRON	Ca_00853	--	--
Ca3_P1_35653670	Ca3	35653670	ATTTGCAGTTTGCAG/ATTTGCAG	TCCCAGTAGCACTGG ATTT	ATCAATTAAGGGTACC CGGC	59.6	338	INTRON	Ca_00853	--	--
Ca3_P1_35654304	Ca3	35654304	GAAAA/GAAA	GCCGGGTACCCCTTAAT TGAT	TGCATCCACCACACCT TTTA	60.0	702	DRR	Ca_00853	--	--
Ca3_P1_35654347	Ca3	35654347	GAT/GATAT	GCCGGGTACCCCTTAAT TGAT	TGCATCCACCACACCT TTTA	60.0	702	DRR	Ca_00853	--	--
Ca3_P1_35655389	Ca3	35655389	AT/ATT	GGTCGTTCTTCAGGAA TGGA	TGAATCATCCAAGTGC CAAA	60.1	717	DRR	Ca_00853	--	--
Ca3_P1_35661405	Ca3	35661405	TGTGGTGGTGGTGGTGGT/TGTGGTG GTGGTGGTGGTGGTGGT	TTTAGCGACGGTAATG GACC	CAACCCAACTCTCACA CCCT	60.0	513	INTERGENIC	--	--	--
Ca3_P1_35663002	Ca3	35663002	ATTTATTTTAT/ATTTATTTTATTTT AT	CGGTCTATGCCTTCA AAAA	TGAGGTAATGTGAAGA GTGCG	60.1	564	INTERGENIC	--	--	--
Ca3_P1_35665190	Ca3	35665190	TTATA/TTA	CTAGTGGTGGAGGGG TTCAA	GAATTTGACGGGATTC ATGTG	60.0	286	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_35665406	Ca3	35665406	TAGAG/TAGAGAG	CTAGTGGTGAGGGG TTCAA	CAATTTTTCACCGGA CAACA	60.0	505	INTERGENIC	--	--	--
Ca3_P1_35668235	Ca3	35668235	ATTTT/ATT	CTTCCAGCACATGGAA GGAT	GGTTTCATACAGAGGC CCAA	60.1	472	INTERGENIC	--	--	--
Ca3_P1_35668453	Ca3	35668453	ATTAGAA/ATTAGAATTAGAA	TTGGGCCTCTGTATGA AACC	CATGCTCGTCAACGTG ACTT	59.9	258	INTERGENIC	--	--	--
Ca3_P1_35668840	Ca3	35668840	TG/T	TTCAAGTCACGTTGAC GAGC	GGAGAACTTGCATCTG CCAT	60.0	576	INTERGENIC	--	--	--
Ca3_P1_35669679	Ca3	35669679	T/TTATTG	TTTATGAGAGTGCTCG TGCG	TTTTCGGGCACATACT CCTC	60.2	410	INTERGENIC	--	--	--
Ca3_P1_35675509	Ca3	35675509	TAAAAA/TAAAA	GGTTCCATGGCTTTGT GAAT	CCACCAAGCAATTCGT ACCT	59.8	348	INTRON	Ca_00855	--	--
Ca3_P1_35678085	Ca3	35678085	TTCT/TT	TTGAGCACGACAGAAT CACC	ACAATGGCCCAACTCT GTTC	59.8	441	DRR	Ca_00855	--	--
Ca3_P1_35679181	Ca3	35679181	ATTTTTTTT/ATTTTTTT	TTCATTCTTTGGCTTG GGAC	CGTCATGGTCGTGGC TTTAT	60.1	959	DRR	Ca_00856	R	SBP
Ca3_P1_35681374	Ca3	35681374	A/ACAAT	GAGGCCGTTCTTGAAT TTTG	AGGCAATTCGCCATAA AGAT	59.7	525	INTRON	Ca_00856	R	SBP
Ca3_P1_35685429	Ca3	35685429	AA/AACA	GAAATAGGCAGAGACA GGTTCAA	TGTGAAGGAGAGATC GATTTTG	59.8	570	INTERGENIC	--	--	--
Ca3_P1_35687870	Ca3	35687870	TAAAAAAA/TAAAAAAA	AAGTTTTTCGGACAAGT CAAACA	TTCCACCATGCCACTT GATA	58.8	412	DRR	Ca_00857	J	--
Ca3_P1_35692535	Ca3	35692535	TAAAA/TAAA	GTGCAAAATCTCAATT CGGT	CACTCTATTGGGCGG TGTT	59.9	615	DRR	Ca_00858	R	ZF-HD

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_3569666	Ca3	3569666	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA	AACCTGAACGATGAGG GATG	GTTTGGTGTTCCT TGGA	59.9	618	INTERGENIC	--	--	--
Ca3_P1_35697688	Ca3	35697688	TAAAAAA/TAAAAAA	TTTCATATCCACCCG CAAA	TGAATTCCTAATTT GGTCC	58.8	628	INTERGENIC	--	--	--
Ca3_P1_35698718	Ca3	35698718	CA/CAA	CAGGCCACATTAATGC CATA	CCGATGGTTGAGAGAT TCGT	59.4	364	INTERGENIC	--	--	--
Ca3_P1_35698781	Ca3	35698781	T/TG	ACGAATCTCTCAACCA TCGG	TTGTTTGCCTACCAG GAAGC	60.1	277	INTERGENIC	--	--	--
Ca3_P1_35699071	Ca3	35699071	CTGTAATGTAAT/CTGTAAT	ACGAATCTCTCAACCA TCGG	TGAGGCTCTCTTTGTG ACTTTG	60.1	711	INTERGENIC	--	--	--
Ca3_P1_35699306	Ca3	35699306	TAAAAA/TAAAAA	GCTTCCTGGTAGGACA AACAA	TGAGGCTCTCTTTGTG ACTTTG	59.2	455	INTERGENIC	--	--	--
Ca3_P1_35703116	Ca3	35703116	ATCTGTCTGT/ATCTGT	CGGATATGCGGACAAA AACT	TTAGCTTTGGGGTTTG ATGG	60.0	600	INTERGENIC	--	--	--
Ca3_P1_35703336	Ca3	35703336	CAAAAA/CAAAAA	CGGATATGCGGACAAA AACT	TTAGCTTTGGGGTTTG ATGG	60.0	600	INTERGENIC	--	--	--
Ca3_P1_35703988	Ca3	35703988	CA/CATAATAA	CCATCAAACCCCAAG CTAA	CACTGTTTCTTTCACA ACTCTCG	59.9	942	INTERGENIC	--	--	--
Ca3_P1_35705840	Ca3	35705840	GAT/GATAT	TCAAAACATTCCACGA CCAA	GTGGAAGAAATAGTGG CCGA	59.9	619	INTERGENIC	--	--	--
Ca3_P1_35706702	Ca3	35706702	AAAATTAAATT/AAAATT	TCGGCCACTATTCTT CCAC	CGTTGTGCCTAAATTG GGAT	60.1	985	INTERGENIC	--	--	--
Ca3_P1_35707421	Ca3	35707421	GTTGTTAC/GTTGTTACTGTTAC	GCCAAAGTTGAGACA CAAT	CTCATCTCCCTTCC AACA	60.1	360	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_35711521	Ca3	35711521	AG/A	AAACCACCGTCCTAA ATCC	TGCGTTTGATTCCAT TTTT	60.1	388	INTERGENIC	--	--	--
Ca3_P1_35715888	Ca3	35715888	TA/T	GGGACCACTTATTTAG GGGC	GTGGTTGGATGCCTG AGTTT	59.7	447	INTERGENIC	--	--	--
Ca3_P1_35715912	Ca3	35715912	GTATATATATATATATA/GTATATATAT ATATATATATA	GGGACCACTTATTTAG GGGC	GTGGTTGGATGCCTG AGTTT	59.7	447	INTERGENIC	--	--	--
Ca3_P1_35721797	Ca3	35721797	GTCCCAT/GTCCCATCCCAT	TGGCTAATTGGGGATG AAGA	CTGGCATGACCCGAA GTATT	60.4	624	DRR	Ca_00860	--	--
Ca3_P1_35724316	Ca3	35724316	TAAA/TAAAA	GACCTTCTGAGTGCG TAGC	AGATCCATTGCTTTT CCCT	60.0	300	INTRON	Ca_00860	--	--
Ca3_P1_35725827	Ca3	35725827	TAAAAA/TAAAAA	AAATCATAAGAACAG GAGGATCG	GCACCCCTCCTTTAGA GTCC	59.9	549	INTERGENIC	--	--	--
Ca3_P1_35725900	Ca3	35725900	CTAAA/CTAAAAGTAAA	TGTGTGTGTCTACCAA AATACTCG	TTTCCACACTCTAATC GGGG	59.1	743	INTERGENIC	--	--	--
Ca3_P1_35726016	Ca3	35726016	ACT/ACTCT	GGACTCTAAGGAGGG GTGC	TTTCCACACTCTAATC GGGG	60.1	326	INTERGENIC	--	--	--
Ca3_P1_35726533	Ca3	35726533	TTATATA/TTATATATATA	CCCCGATTAGAGTGTG GAAA	GCACTTTCACATGGTG TGGT	59.9	410	INTERGENIC	--	--	--
Ca3_P1_35729511	Ca3	35729511	ATTTTTTT/ATTTTTTTT	ATTGCACGGATGACAC ATTG	TTCTTTCAATTTGCAC GCT	60.4	526	INTERGENIC	--	--	--
Ca3_P1_35729686	Ca3	35729686	TAT/TATGCATGAT	CAATGACAACGATTAT CCCG	TGTTCCACCGTAAAA TCAACA	60.2	934	INTERGENIC	--	--	--
Ca3_P1_35730551	Ca3	35730551	CATT/CATTAAATT	TTAAAGGCCATGGGC ATAA	TGGTGGTGCTGGACA ATTAG	60.3	125	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_35732982	Ca3	35732982	TC/T	CGGCATTCGGGTAAG TTAG	AAATGAAAGGAAAGGG GAGA	59.6	643	INTERGENIC	--	--	--
Ca3_P1_35733605	Ca3	35733605	CTTT/CTT	TCTCCCCTTTCCTTCA TTT	AAAAACGTTAATTGA GACAGCAA	57.7	360	INTERGENIC	--	--	--
Ca3_P1_35734692	Ca3	35734692	TATACATAC/TATAC	CTGCGTGCGTCATTGT ATTG	TGTTATCCCCAAATTG AAAATG	60.3	860	INTERGENIC	--	--	--
Ca3_P1_35735323	Ca3	35735323	G/GA	AGCAGCCGAGATGCAT AACT	TTCTTAACATGGTATC GGAACAA	60.0	503	INTERGENIC	--	--	--
Ca3_P1_35737476	Ca3	35737476	TA/T	TTTCAAACACTCAAT ATCCCA	TTGTTTTGGCACACTT CAAAA	58.5	593	INTERGENIC	--	--	--
Ca3_P1_35740020	Ca3	35740020	T/TA	CATGCTAGGGTTTGA GGAA	TGAAAGGGGAAATTCA CGAC	60.1	826	DRR	Ca_00861	--	CPP
Ca3_P1_35740342	Ca3	35740342	GTTTTT/GTTT	GCCAATTCATTCTAA GGTGG	TGAAAGGGGAAATTCA CGAC	58.6	246	DRR	Ca_00861	--	CPP
Ca3_P1_35740803	Ca3	35740803	GATT/GATTAAAT	GTCGTGAATTTCCCT TTCA	TGCCGCATTGATTCAT TTTA	59.9	547	DRR	Ca_00861	--	CPP
Ca3_P1_35743048	Ca3	35743048	GTTTT/GTTTTTT	GCAACTTGGGTTAGGT CCAA	TCGTCACATACAAAGC AATCA	60.0	541	INTERGENIC	--	--	--
Ca3_P1_35744042	Ca3	35744042	GAAAAA/GAAAAAAA	AATTTGGTCTTTGTCA AGTCA	GATGCTTTGATATGCC CTCG	57.2	701	INTERGENIC	--	--	--
Ca3_P1_35744681	Ca3	35744681	AACA/AACACA	TGTGGATGCCACACGA TTTA	TGGGAGAAATGCATTG AAAA	60.9	462	INTERGENIC	--	--	--
Ca3_P1_35745191	Ca3	35745191	ATTTTTTT/ATTTTTTTTT	TTTCAATGCATTCTCC CAA	AAACATTTCTTTCTC GGAAAAC	59.1	527	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_35745632	Ca3	35745632	TTAAGTAAG/TTAAG	TGTTTTCCGAGAAAGA AATGG	GGGTTTGTTATGCGAC GAGT	59.2	401	INTERGENIC	--	--	--
Ca3_P1_35745687	Ca3	35745687	GTTTTTTTT/GTTTTTTT	TGTTTTCCGAGAAAGA AATGG	GGGTTTGTTATGCGAC GAGT	59.2	401	INTERGENIC	--	--	--
Ca3_P1_35745972	Ca3	35745972	ATTTTTTTT/ATTTTTTT	CCAACTCGTCGCATAA CAAA	GGGTTTGAAGATGCC GTATG	59.7	108	INTERGENIC	--	--	--
Ca3_P1_35746055	Ca3	35746055	A/ACGT	ACTCGTCGCATAACAA ACCC	TTCAGATCGAGCCCTA ACAAA	60.0	236	INTERGENIC	--	--	--
Ca3_P1_35759102	Ca3	35759102	CAAAA/CAA	GGAACTTTTGGCATGC ACTT	TTCACAGCTTCTGCAA ATGG	60.1	410	INTRON	Ca_00862	D	--
Ca3_P1_35763405	Ca3	35763405	TCCAACCAACCAACC/TCCAACCAACC	TGTGTCTGCTTTGCAC ATGA	ACCAAAGTTTTGCACA AGGG	60.0	533	INTRON	Ca_00862	D	--
Ca3_P1_35767362	Ca3	35767362	AAAAA/AAAAATAAAA	GGGTGCTTCTCAATC TTCA	GACTTTGGAAGTCGGC AAAA	60.2	798	INTERGENIC	--	--	--
Ca3_P1_35767772	Ca3	35767772	CAAA/CAA	TTTTGTACTCACTTTTG CCGAC	CATGGTTTTCACCGAA TGTG	59.3	491	INTERGENIC	--	--	--
Ca3_P1_35768780	Ca3	35768780	T/TC	CCTTATCCCCGAAATT TGAA	GCGGATAGCAAATCGT TCAT	58.9	271	INTERGENIC	--	--	--
Ca3_P1_35768860	Ca3	35768860	TAAAAA/TAAAAAA	CCTTATCCCCGAAATT TGAA	GCGGATAGCAAATCGT TCAT	58.9	271	INTERGENIC	--	--	--
Ca3_P1_35770921	Ca3	35770921	GTAAT/GT	GCATGGTGCAGTGAAA GAGA	AATTGAGGTCCCGTCA GTTG	60.0	448	DRR	Ca_00863	U	bZIP
Ca3_P1_35771124	Ca3	35771124	GTTAATT/GTT	ATGGCTGTTTTGGTTG AAGC	CCCAACTCACCCAAAC TTCT	60.1	871	DRR	Ca_00863	U	bZIP

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_35771869	Ca3	35771869	TAAA/TAAAA	AGAAGTTTGGGTGAGT TGGG	AAATACTCCCTCCCGT GTTG	59.0	763	DRR	Ca_00863	U	bZIP
Ca3_P1_35772573	Ca3	35772573	CAA/CAAA	CAACACGGGAGGGAG TATTT	ATTTTGACCTCGAGCC ACAT	58.9	347	DRR	Ca_00863	U	bZIP
Ca3_P1_35772721	Ca3	35772721	ATCT/IAT	ATGTGGCTCGAGGTCA AAAT	AAAATGTTACGTTGGC ATATCA	59.6	238	DRR	Ca_00863	U	bZIP
Ca3_P1_35776584	Ca3	35776584	TTATATAT/TTATATATAT	GGTGGTTTTGCACTTT TGCT	TCACATACTCGCCAGA CTGC	60.2	712	DRR	Ca_00865	R	G2-like
Ca3_P1_35776934	Ca3	35776934	CA/CAA	GCAGTCTGGCGAGTAT GTGA	TGATGGCAACATTTTT CGAG	60.0	407	DRR	Ca_00864	L	--
Ca3_P1_35778885	Ca3	35778885	TC/TCC	CCTGTGCAACCTGGAT TTTT	GTATGGCAGGCCAACT TTGT	60.0	238	INTRON	Ca_00865	R	G2-like
Ca3_P1_35779416	Ca3	35779416	CTTTTTTTTTTT/CTTTTTTTTTTT	GCAATCCTCTGCTCC TGTC	TTCCATTTCACCTACC ACCA	60.0	548	DRR	Ca_00866	K	NF-YA
Ca3_P1_35781578	Ca3	35781578	CAAAACAAAA/CAAA	CACTGCAATTGTTGAC CACC	CCATGGAATCATTAGG CGTC	60.0	517	INTRON	Ca_00866	K	NF-YA
Ca3_P1_35783476	Ca3	35783476	ACTATTC/AC	TGGAAAGTCAACTCAA TGCG	CTTACATCGAGCCGAC ACAA	59.8	745	INTRON	Ca_00866	K	NF-YA
Ca3_P1_35783609	Ca3	35783609	ATGT/ATGTGT	TGGAAAGTCAACTCAA TGCG	CTTACATCGAGCCGAC ACAA	59.8	745	INTRON	Ca_00866	K	NF-YA
Ca3_P1_35784715	Ca3	35784715	TAAAAA/TAAAAA	GGTGCTGCTCCTGAAT TAGC	GGCTCCAATCTAATGG GGTT	60.0	798	INTERGENIC	--	--	--
Ca3_P1_35786958	Ca3	35786958	TTA/TTACCTA	AGCATTAGGGTGAATC GTGC	GTATGCATTGGGATGT GTGC	60.1	625	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_35787562	Ca3	35787562	TTAGAATAATAGTAGTAATAGAATA/TT AGAATA	ATGGAGAAGCATGTCC CTTG	TCAATGGCCTAAGGTG AAGG	60.1	305	INTERGENIC	--	--	--
Ca3_P1_35788163	Ca3	35788163	GATAAATATTTTATAAA/GATAAATATT TTATAAATATTTTATAAA	CCTTCACCTTAGGCCA TTGA	CACCTTGATTTTACCA CACTCG	60.1	645	INTERGENIC	--	--	--
Ca3_P1_35789954	Ca3	35789954	TTAAATTATAAAT/TTAAATTATAAATT ATAAAT	TCATTCTAAATGTG CCCC	TTGATGGGAGATTCT CTTGA	59.8	269	INTERGENIC	--	--	--
Ca3_P1_35790927	Ca3	35790927	CTAATCAAATT/CTAATCAAATTAATCA AATT	AGCCTATGGGTATAGA GGTATCG	CGAATCGACCGATGAA ACTT	57.8	377	INTERGENIC	--	--	--
Ca3_P1_35794433	Ca3	35794433	ATATATAGTA/ATA	TTTGCCGTATAAAGAA CGGG	CCCACGCTCTCATCTT CTTC	60.0	563	INTERGENIC	--	--	--
Ca3_P1_35796430	Ca3	35796430	CTTTT/CTTT	GCAATCTTGAGCTGGA GACC	GGCACAAGTCAAATGG TCAA	60.0	909	INTERGENIC	--	--	--
Ca3_P1_35796459	Ca3	35796459	ATTTTT/ATTTTTT	ACAAGTTGGTGGGTTG GTTT	GGCACAAGTCAAATGG TCAA	59.7	541	INTERGENIC	--	--	--
Ca3_P1_35799677	Ca3	35799677	ATTTTT/ATTTT	TAACTGCATTTGATTG CGGA	TGCTTTTGCAAGTGT TTTGA	60.2	610	INTERGENIC	--	--	--
Ca3_P1_35800062	Ca3	35800062	AAA/AAATAA	TCAAAAACACTTGCAAA AGCA	TCGTCAAATAACACGA CAAGC	59.5	350	INTERGENIC	--	--	--
Ca3_P1_35801457	Ca3	35801457	CATTAATG/C	CCGAGTTGAATTGCAT CAAA	TGGTGCCTCAATCATG GTAA	59.7	399	INTERGENIC	--	--	--
Ca3_P1_35801766	Ca3	35801766	TAA/TA	TTACCATGATTGAGGC ACCA	CCTTGTTGGTTTTGG TTGG	59.9	395	INTERGENIC	--	--	--
Ca3_P1_35802868	Ca3	35802868	TATGCATG/TATG	TTGGTTGTGCTAACAT GGGA	CACACAGCTACCGACC AAAA	60.0	822	DRR	Ca_00867	O	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_35803883	Ca3	35803883	TC/T	TGGAATGTTAGTGGT CCAA	TGGTTTCCAATTGAA TAAATACG	60.0	658	DRR	Ca_00867	O	--
Ca3_P1_35809791	Ca3	35809791	CTTTTT/CTTTTT	CCGAAGGAAAATTC AAAT	TGCGTTTGTGTTTGTG TGTT	60.1	297	INTRON	Ca_00868	--	--
Ca3_P1_35811115	Ca3	35811115	TTTTATTTTATTTTATTTTATTTATTT TTA/TTTTATTTTATTTTATTTTATTT A	TTTGGGTTTCTCACT GCC	TGGTAGTAACTACTC GCAGTTG	60.1	455	INTERGENIC	--	--	--
Ca3_P1_35811467	Ca3	35811467	CTATAT/CTAT	TGAACAAATAAAATTC ACTGCG	TCTGAATTTCTCCGT GGAT	59.2	450	INTERGENIC	--	--	--
Ca3_P1_35815533	Ca3	35815533	AAAAATTTAAGATGCGA/AA	TATTGGGGTAGCTCA GTGC	AAAGATCGACAACAT GTCACG	60.1	731	INTERGENIC	--	--	--
Ca3_P1_35818398	Ca3	35818398	TCCGTCCTCACCCTCCTCACCCTC/T CCGTCCTCACCCTC	CAAGTCCCTTGCTCGT TCTC	CTGAAAAACCCACCTC CAAA	60.0	586	CDS (large-effect mutations)	Ca_00869	O	GeBP
Ca3_P1_35823679	Ca3	35823679	CAAAA/CAAAAAA	CAAAATTTCATTTATGC CCCA	GCCAAAAACCTCATG AAATCC	59.7	300	INTRON	Ca_00869	O	GeBP
Ca3_P1_35828873	Ca3	35828873	CTTT/CTTT	TCAATTCGTTCATCAT CGG	TTACATGCAATGCAA AACA	59.5	571	INTRON	Ca_00870	--	--
Ca3_P1_35833491	Ca3	35833491	TTA/T	TGTGAGAAAGCATCAA AACCT	CAAACACGGTCGGTG TCCT	57.5	238	DRR	Ca_00871	--	--
Ca3_P1_35839944	Ca3	35839944	ATT/ATTTT	TGTAGCGGACAAAATT CAACC	TTGCAATTAGAGTTGA CTTGAGG	60.0	214	DRR	Ca_00872	--	--
Ca3_P1_35848294	Ca3	35848294	GC/GCC	TAATCGCAACCTCCCA TCTC	GAATGTTCAAGAAGGC TCGC	60.0	645	DRR	Ca_00873	S	--
Ca3_P1_35852072	Ca3	35852072	ATCGTTTGACGTTT/ATC	CCGGCTGTGACACCT AATA	TGGCCAACAAGACAAT TTCA	60.1	639	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_35852219	Ca3	35852219	AAGGAATTGACTAG/AAG	CCGGCTGTACACCT AATA	TGGCCAACAAGACAAT TTCA	60.1	639	INTERGENIC	--	--	--
Ca3_P1_35856021	Ca3	35856021	ATTTTTTTTTTT/ATTTTTTTTTTTTT T	CTTTGACCGAAGCATT AGGC	ACCCCAAAAGGAGGT GTTC	59.8	435	INTERGENIC	--	--	--
Ca3_P1_35859927	Ca3	35859927	TGGG/TGGGG	GAAATCAATTGAAAGA AAAGCCA	TGTCAACAATGTTATC TTCACAAAA	59.6	808	INTERGENIC	--	--	--
Ca3_P1_35859979	Ca3	35859979	ATCTTCTT/ATCTT	AAACGTCATAATTGCTT ATGGG	TGGCTTTTGTGTTGAAG ATTTTG	58.1	205	INTERGENIC	--	--	--
Ca3_P1_35861277	Ca3	35861277	ATTTTTTTTT/ATTTTTTTT	TGCAAACTTGGAGAA AGGG	ATGGAGACAAATGGCT GTCA	60.2	417	INTERGENIC	--	--	--
Ca3_P1_35861839	Ca3	35861839	CA/CAA	TCGATTGGAAGAAATG CAAG	TGGAAATTTTATGTT GCCG	59.0	500	INTERGENIC	--	--	--
Ca3_P1_35861894	Ca3	35861894	TAAAAA/TAAAAAA	ATACAGATGAGGCAGC CGTT	TGGAAATTTTATGTT GCCG	59.7	373	INTERGENIC	--	--	--
Ca3_P1_35862188	Ca3	35862188	AAAAAT/AAAAATCTCATGTAAAT	ATACAGATGAGGCAGC CGTT	CGAGTTTTCGCAATAA AACA	59.7	790	INTERGENIC	--	--	--
Ca3_P1_35862589	Ca3	35862589	ACCC/ACC	TTCAACTGTTCTACGG CAACA	TGGGGTTTCCAAAAGT TCAG	59.4	654	INTERGENIC	--	--	--
Ca3_P1_35867669	Ca3	35867669	TGAAG/TG	TGAAGGCATTGAAGT TTCC	CCATTGAGCTAGGCCT TACG	60.1	659	INTRON	Ca_00876	--	--
Ca3_P1_35873093	Ca3	35873093	TC/T	TTCAATGGGAATGGGA ATGT	GTCTCCGACCCGACA CTTT	60.0	663	INTERGENIC	--	--	--
Ca3_P1_35879113	Ca3	35879113	AATATATATATAT/AATATATATATATA T	TATCCCGCGAAACAT AAAA	TGGATCATCATGCAAA AATTG	60.3	258	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_35879421	Ca3	35879421	CTTT/CTTTT	TATCCCCGCGAAACAT AAAA	GGTACAAACCAAAGG GGGT	60.3	734	INTERGENIC	--	--	--
Ca3_P1_35884614	Ca3	35884614	TA/TACTCTATTAAA	CCCATCTGAAAAGGGA GACA	TTGATTAACATTACACT ACACTGCACA	60.0	715	INTERGENIC	--	--	--
Ca3_P1_35885490	Ca3	35885490	T/TTTTAAAA	TCAATTGATTGACGAA AGACTATTTT	TTTTTAATGTGAAGCG CACAA	59.5	891	INTERGENIC	--	--	--
Ca3_P1_35887062	Ca3	35887062	CT/CTAATAATT	GCAACATGAAAGCAGC TTTG	CGTTGGAACCTGGAA CATT	60.3	507	INTERGENIC	--	--	--
Ca3_P1_35889000	Ca3	35889000	TAAAAAT/TAAAAATTAAAAAGATGAAAA T	TGTGTTTTGAATATGT GGTGACA	TGGGGTCCTCTGTGT GTGTA	58.9	548	DRR	Ca_00880	--	--
Ca3_P1_35894033	Ca3	35894033	AACCTTTTACC/AACC	CACACAAATGGTTGG TGCT	TCAAAAGTTTGACTCC TAAACGG	59.5	508	INTERGENIC	--	--	--
Ca3_P1_35894525	Ca3	35894525	GTATATATATATATA/GTATATATATAT ATATATATATA	TGAAACCTTTTACCAG ACTCCAA	GTTAATCAAAGGGCCG ACAA	60.0	952	INTERGENIC	--	--	--
Ca3_P1_35894994	Ca3	35894994	AT/ATT	TTGTCGGCCCTTGAT TAAC	AATTGGAGGACACTAT GCCG	59.9	521	INTERGENIC	--	--	--
Ca3_P1_35895341	Ca3	35895341	CAAAAAA/CAAAAAAAA	TTTCCTTAGGACGCGA AGAA	CGGAAGTTCCAATGGA GAAA	60.0	553	INTERGENIC	--	--	--
Ca3_P1_35897729	Ca3	35897729	GTATCTA/GTATCTATCTA	AGCGAAAAATGTGGCTG AAGT	TGCTGTGGAACAAGAA CGAG	59.9	821	DRR	Ca_00881	DO	WRKY
Ca3_P1_35900260	Ca3	35900260	ATT/ATTTT	GTGACGTTGTATTGCG ATGG	GGGGCTCTTATTTAGG GGTG	60.0	221	DRR	Ca_00882	Q	Nin-like
Ca3_P1_35902087	Ca3	35902087	ATAT/ATATATAT	GGTTGAATTTTCATCC ACCG	TTTGTTGTGTTTGAT TTGGA	60.2	650	INTRON	Ca_00882	Q	Nin-like

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_35902145	Ca3	35902145	ATTTT/ATTT	GGTTGAATTTTCATCC ACCG	TTTGGTTGTGTTTGT TTGGA	60.2	650	INTRON	Ca_00882	Q	Nin-like
Ca3_P1_35907437	Ca3	35907437	AAT/AATTTAT	CAACCATCGAATGTTG TTCG	TGTTTGTGTGGGGTAC ATGG	60.0	582	INTRON	Ca_00882	Q	Nin-like
Ca3_P1_35908543	Ca3	35908543	ATTT/ATTTTT	CCCTTCCGTTGTAGA ACCA	TCGGAGAAATGACAAA AAGAAAA	60.0	925	INTRON	Ca_00882	Q	Nin-like
Ca3_P1_35908613	Ca3	35908613	CATATATAT/CATAT	AGAGGTGGTTGGTTGG TTTG	TCGGAGAAATGACAAA AAGAAAA	59.9	858	INTRON	Ca_00882	Q	Nin-like
Ca3_P1_35909062	Ca3	35909062	TAAA/TAA	TTTTCTTTTTGTCATT CTCCGA	TGGCAATACGTAACC ACAA	60.1	551	INTRON	Ca_00882	Q	Nin-like
Ca3_P1_35909810	Ca3	35909810	ATTTTT/ATTTTT	TTGTGGTTACCGTATT GCCA	CCAAACCATTCACTGA TGATG	59.8	699	INTRON	Ca_00882	Q	Nin-like
Ca3_P1_35910142	Ca3	35910142	A/ATG	TTTTTCGGTCTCGCAT TTTT	TCTTTAAATCGCCAC CAGG	59.7	705	INTRON	Ca_00882	Q	Nin-like
Ca3_P1_35911527	Ca3	35911527	TAA/TAATGGAA	GTGAATGGTTGGATT GGCT	TCGAATTATTTTGAGT TGGTTTG	59.8	784	INTERGENIC	--	--	--
Ca3_P1_35911655	Ca3	35911655	AG/A	GCATGCGACTCATTTA CCAA	TCGAATTATTTTGAGT TGGTTTG	59.7	599	INTERGENIC	--	--	--
Ca3_P1_35915051	Ca3	35915051	TTATATAT/TTATAT	TTTCATCCAAGATTACC GGC	TGACAAAACAATCTGC ACACAA	59.9	720	INTERGENIC	--	--	--
Ca3_P1_35915426	Ca3	35915426	ATCTCT/ATCT	GTCCTCGTCCTTCTTA TCCC	CAAAGTCTGGCCTATT CCCA	59.9	648	INTERGENIC	--	--	--
Ca3_P1_35917238	Ca3	35917238	AC/A	ATCTTAGCCCACTCAA TCCG	GTGTCGTAAGCCTCCT CGAA	59.2	522	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_35918318	Ca3	35918318	GCCCCC/GCCCCCCC	TTTGTCTGAGATGAAC CGTG	AATCCTCTCCTTCCT TCCA	59.8	623	INTERGENIC	--	--	--
Ca3_P1_35918699	Ca3	35918699	GTTTTTTTT/GTTTTTTTTT	TGGAAGGAAGGAGGA GGATT	CCAACTGATCACCAT CCCT	60.0	620	INTERGENIC	--	--	--
Ca3_P1_35919265	Ca3	35919265	CC/CCGATTTTC	GGATCCGACCCAGTTG TTTA	GAAACTCATGAGAGC TCGG	59.8	502	INTERGENIC	--	--	--
Ca3_P1_35928726	Ca3	35928726	AATATATATAT/AATATATAT	GGCATGGCTACTCAGC TCTT	TTCAGTTGCACCTCAA CGTC	59.6	801	DRR	Ca_00886	R	NAC
Ca3_P1_35928795	Ca3	35928795	ATTTTTT/ATTTTTT	GATGGGCATCATTAGT GTTTGA	TTCAGTTGCACCTCAA CGTC	59.8	336	DRR	Ca_00885	--	--
Ca3_P1_35935420	Ca3	35935420	GTTT/GTT	TGGAACCTGGGTTGAG GTAG	GAAAATTGACCCAAAA GCCA	60.0	633	DRR	Ca_00888	--	--
Ca3_P1_35938883	Ca3	35938883	GTCTCTCTCTCT/GTCTCTCTCT	TTGTTTGGTTTGGAGG GAAG	TATGGGGGAATGATG GTGT	59.9	317	INTERGENIC	--	--	--
Ca3_P1_35939043	Ca3	35939043	TTACC/T	TTGTTTGGTTTGGAGG GAAG	TATGGGGGAATGATG GTGT	59.9	317	INTERGENIC	--	--	--
Ca3_P1_35939562	Ca3	35939562	T/TA	ACACCATCATTTCCCC CATA	TTTCCAGGAGATCACG AAGG	59.9	930	INTERGENIC	--	--	--
Ca3_P1_35943363	Ca3	35943363	ATTTTTTTTT/ATTTTTTTTTT	CTCAATTCGGTTGGTC GTTT	ACACAATATGGGAGTT TTTGCT	60.0	589	INTERGENIC	--	--	--
Ca3_P1_35944137	Ca3	35944137	ATTTTTTT/ATTTTTT	TGTAGTCAAACGCACA CGAA	GAAAATGCCATGGTTT CCAC	58.9	365	INTERGENIC	--	--	--
Ca3_P1_35946096	Ca3	35946096	T/TC	AAAAGCAAAAGTCGGG TGTG	ACCCTTGAGCTTCGAA AACA	60.1	406	INTRON	Ca_00889	J	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_35947883	Ca3	35947883	CTTT/CT	TCCTGTCTAGCCGTAG TCCTG	TTGAAATTTTGACCGC ATCA	59.5	434	DRR	Ca_00889	J	--
Ca3_P1_35948027	Ca3	35948027	A/AC	TCGATGCACATGTGAT GTTG	CAGGTTTCGGAGCTAA GGTG	60.1	296	DRR	Ca_00889	J	--
Ca3_P1_35952084	Ca3	35952084	TAAAAAAAA/TAAAAAAAAA	TTATTCGTGAAAGAA CCGC	CGTACGTGCGCCTAAA TGAT	60.1	620	INTERGENIC	--	--	--
Ca3_P1_35955953	Ca3	35955953	ATAAACTATTTTAA/ATAA	CGGTTGATTGTGAATT TGTA	AGCTTGATCCCATTTT GGTG	59.4	700	DRR	Ca_00890	V	--
Ca3_P1_35959985	Ca3	35959985	CAAAAAAAAAAAAAA/CAAAAAAAAA AAA	TCTGAACAAATGATCG GGTG	ACATGCAATTTCCATC CACA	59.5	164	DRR	Ca_00891	V	GRAS
Ca3_P1_35960562	Ca3	35960562	AGTTTGATT/AGTTTGATTGTTGATT	TCCGACTTGGTAAAC AGCA	TTTGACGAAATAAT TTGAAAA	59.3	398	DRR	Ca_00891	V	GRAS
Ca3_P1_35960868	Ca3	35960868	TAA/TAAA	GGATGCTACATTCTT GGTGG	TGAAGGAGGGAGAAA CATGG	59.4	835	DRR	Ca_00891	V	GRAS
Ca3_P1_35963451	Ca3	35963451	AAA/AAATAA	AGCTGTCTCAAGCACC GAAT	GACATCACAGTTCTGT GTCTAGCTT	60.0	272	INTERGENIC	--	--	--
Ca3_P1_35965206	Ca3	35965206	ATTTTT/ATTTTT	TGATTGGTGCTTTGT TGGA	TGCTATTGGCACCACC ACTA	60.1	106	INTERGENIC	--	--	--
Ca3_P1_35967790	Ca3	35967790	GAAATAGAAA/GAAATAGAAACAA AATAGAAA	TTGATTATGAGCACCA AGCG	TGTCTGGATTTTGT TTTGAGA	59.8	335	DRR	Ca_00892	C	--
Ca3_P1_35973469	Ca3	35973469	AC/A	TGCCAGTGATCATCGA AAAA	AGGGGCAAAGGTAAC AAAGC	60.2	374	INTRON	Ca_00892	C	--
Ca3_P1_35973692	Ca3	35973692	CG/C	TGCCAGTGATCATCGA AAAA	TTCTGTGAAGGATGCA GCAG	60.2	778	INTRON	Ca_00892	C	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_35974404	Ca3	35974404	GAA/GGAAA	TAGCAACATCTGCTGC ATCC	ATCACACGGGAAATCT GAGC	60.0	721	INTRON	Ca_00892	C	--
Ca3_P1_35976313	Ca3	35976313	TTTTA/T	TAATGAACCAGAGCAG CGTG	AGGGTCACACTTTATC CCCC	60.0	514	INTRON	Ca_00892	C	--
Ca3_P1_35981391	Ca3	35981391	CAAAA/CAAAA	CTCTCCCCCTCCAAGTC TTCC	TTGGGTCCATTGGTT TGAT	60.2	166	DRR	Ca_00893	--	--
Ca3_P1_35982476	Ca3	35982476	TGG/TG	TCGAAAAGAACTTTATC CGCA	TGAATTGCTGTAGCCT GTGG	59.8	408	DRR	Ca_00893	--	--
Ca3_P1_35982520	Ca3	35982520	AG/A	TCGAAAAGAACTTTATC CGCA	TGAATTGCTGTAGCCT GTGG	59.8	408	DRR	Ca_00893	--	--
Ca3_P1_35986133	Ca3	35986133	TACTATATT/TACTATATTTTAATACT ATATT	CCTTCATCAGCTCGGA GAAA	TTGGAAGCAAAGAATC CACC	60.5	379	INTRON	Ca_00893	--	--
Ca3_P1_35987287	Ca3	35987287	TAAATAAAATAAAATAAAATAA AA/TAAATAAAATAAAATAAA	ACACAACACATACCTG GGCA	CGCGTTCACCTTCCTT CTTC	59.9	467	INTERGENIC	--	--	--
Ca3_P1_35990406	Ca3	35990406	ACTG/A	TGAATTTACACCTGCG CCTC	GCTCGAGATGAAGGG ACTTG	59.9	331	INTERGENIC	--	--	--
Ca3_P1_35992570	Ca3	35992570	TAAAAA/TAAAAA	TATTTCCGCTTTGCAA CCTC	TTCAGGGGACTTGTGC TTCT	60.2	204	DRR	Ca_00894	--	--
Ca3_P1_35993956	Ca3	35993956	TAAAAAAAAA/TAAAAAAAAA	TGGGTTCGAATCAATA TCTTACAA	AAATCTTGATGGAATG AAACATCA	59.7	341	INTERGENIC	--	--	--
Ca3_P1_35994489	Ca3	35994489	CT/CTAAATATT	TGAATGATGTTTCATTC CATCA	GAATTCGGAACAAAAC GTTCA	58.8	311	INTERGENIC	--	--	--
Ca3_P1_35994788	Ca3	35994788	TCAC/T	AAATTTGGTGCTCCAT GGTC	GTGCTCCATTTCTTC ACGG	59.8	464	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_36000767	Ca3	36000767	TTTATATTATATTATAT/TTTATATT ATATTAT	TGTGTCCAAAACTTAT TTACCGA	TGGTGATGGCTTTGTG GTTA	59.8	514	INTERGENIC	--	--	--
Ca3_P1_36005419	Ca3	36005419	AATGGACTATGGATGGAC/AATGGAC	GTTACTGGAATTTGGG GCCT	CATCAACTTCTTTGGC AGCA	60.2	459	INTRON	Ca_00896	OPR	--
Ca3_P1_36005517	Ca3	36005517	TAAAA/TAAAA	GTTACTGGAATTTGGG GCCT	CATCAACTTCTTTGGC AGCA	60.2	459	INTRON	Ca_00896	OPR	--
Ca3_P1_36006199	Ca3	36006199	TCATGGCATGGC/TCATGGC	GTTTCTGAGCCAAC CTTC	ATGTTGAATTTCTGCC AGCC	60.0	549	INTRON	Ca_00896	OPR	--
Ca3_P1_36011212	Ca3	36011212	ATT/ATTT	CCAGTTACCGCCAAC GTTT	AGCTATGCTAGCGAAA ACGC	60.0	559	DRR	Ca_00898	O	CAMTA
Ca3_P1_36016442	Ca3	36016442	TAAAA/TAAA	ATGCTCAACCTCCAG TTTC	CAACCCATCGAATTTG GTTC	60.1	444	DRR	Ca_00900	O	CAMTA
Ca3_P1_36019541	Ca3	36019541	AT/ATGT	ACCTTTGGATTCATGG TTGG	CCGATAGCCATTTGGA CACT	59.6	614	INTERGENIC	--	--	--
Ca3_P1_36019725	Ca3	36019725	GAAA/GAA	ACCTTTGGATTCATGG TTGG	CCGATAGCCATTTGGA CACT	59.6	614	INTERGENIC	--	--	--
Ca3_P1_36020115	Ca3	36020115	ATTTTT/ATTTT	AGTGTCCAAATGGCTA TCGG	TCACTAACGCAACCTT CACCT	60.0	487	INTERGENIC	--	--	--
Ca3_P1_36020456	Ca3	36020456	CAAA/CAAAA	ACCACAACCGTCCAAT GTTT	TTTCAAGATGCTTGAC GAAGAA	60.1	736	INTERGENIC	--	--	--
Ca3_P1_36020478	Ca3	36020478	ATT/ATTT	AGGTGAAGGTTGCGTT AGTGA	TCAAATTGTGTGGGAG AAACA	59.8	536	INTERGENIC	--	--	--
Ca3_P1_36021252	Ca3	36021252	GAT/G	GTTTGC GGATTTGGTT GAGT	TATTTTAGGACCGCCT GACG	60.0	442	DRR	Ca_00901	O	CAMTA

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_36022210	Ca3	36022210	AAATAATA/AAATAATAATA	TTGAAACTGAACTTCT CCCAA	TGGAGATGGAATGGA GAGG	58.9	833	DRR	Ca_00901	O	CAMTA
Ca3_P1_36023752	Ca3	36023752	GCAATATTACACAAT/GCAAT	TGCACGATTGAAATGT GTGA	CGATCGAGGGTTGGT ATGTT	59.7	611	INTRON	Ca_00901	O	CAMTA
Ca3_P1_36026486	Ca3	36026486	CATATATATATAT/CATATATATATATA TATAT	ATGCACTTAGATTTCG CGTT	ACGAAATTGAAACCTG CACC	59.7	249	INTERGENIC	--	--	--
Ca3_P1_36031164	Ca3	36031164	TG/T	TCATCAAATCCGTAAC GCAA	CCGACCTGCAAATATC ATGTAA	60.1	417	INTERGENIC	--	--	--
Ca3_P1_36032382	Ca3	36032382	ATTTTTTTTT/ATTTTTT	GCTTTGCTCCCATC TCTC	AACGCTGAACCAAAAT GACC	60.0	217	DRR	Ca_00902	S	bZIP
Ca3_P1_36032624	Ca3	36032624	CAAA/CAAAA	GGTCATTTTGGTTCAG CGTT	CCATGCATGAATCCTT GAAA	60.0	614	DRR	Ca_00902	S	bZIP
Ca3_P1_36032758	Ca3	36032758	ATTTTT/ATTTTTT	GGTCATTTTGGTTCAG CGTT	TCGATTGGATAGTGCC ATCA	60.0	705	DRR	Ca_00902	S	bZIP
Ca3_P1_36033507	Ca3	36033507	TAGAGA/TAGAGAGA	CTTCTCACCCCTCAA AACA	AGGCTTGATGACACGT GATG	60.1	696	DRR	Ca_00902	S	bZIP
Ca3_P1_36040732	Ca3	36040732	ATTTT/ATTT	CCACCACTGCAGAAGT GAGA	TCCGAACTGGAGAGT GTGAA	60.0	461	INTRON	Ca_00902	S	bZIP
Ca3_P1_36041204	Ca3	36041204	ATT/AT	TTCACTCTCCAGTT CGGA	AAGTCGACGTTTGTGA AGAGTTC	59.4	699	INTERGENIC	--	--	--
Ca3_P1_36043188	Ca3	36043188	AC/ATC	TGGAATGAATTAACC ATCACG	GCCACAAATCATGCT GAAA	59.7	245	INTERGENIC	--	--	--
Ca3_P1_36044328	Ca3	36044328	CAT/CATAT	TGTCAAATATCAAGG GGATG	TGATGCTTTAAGCCGT CACA	59.6	541	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_36045650	Ca3	36045650	ATT/ATTT	TGTGATTGAAAAGATG TGTCAAAA	GGGGTACGGAGTGGA GGTAT	59.5	622	INTERGENIC	--	--	--
Ca3_P1_36049035	Ca3	36049035	CAAAA/CAAA	ACTTATCCTCTGCTTC GGCA	CAGTTCGGTTTGGTTT TCGT	60.0	473	INTRON	Ca_00903	A	--
Ca3_P1_36051861	Ca3	36051861	TAA/TAAAAA	CCGCTATCTGAACCGA ACAT	TGTATGGGTCGTGCAT TGAT	60.1	793	DRR	Ca_00903	A	--
Ca3_P1_36052998	Ca3	36052998	A/AC	GTGTTACGCTATCGG GTTT	TGGTGGATTGTGGATT TCCT	60.0	372	INTERGENIC	--	--	--
Ca3_P1_36053206	Ca3	36053206	TAAAAA/TAAAAAA	GTGTTACGCTATCGG GTTT	TCTGGCAAACAACCTT TTTT	60.0	499	INTERGENIC	--	--	--
Ca3_P1_36053289	Ca3	36053289	ATGTATCTT/AT	CAATGGATGCGCTCA CTTA	TCGATTTACTCATCT CGCAAA	59.8	642	INTERGENIC	--	--	--
Ca3_P1_36053346	Ca3	36053346	CG/C	CAATGGATGCGCTCA CTTA	AACGGGATTAGGGATT TTGG	59.8	887	INTERGENIC	--	--	--
Ca3_P1_36053714	Ca3	36053714	C/CTCGGT	AAAAAGGGTTGTTGTC CAGA	AACGGGATTAGGGATT TTGG	59.6	581	INTERGENIC	--	--	--
Ca3_P1_36073350	Ca3	36073350	TAATAAATAAATA/TAATAAATAAATA ATA	CCCAAATATGTCGCC CTAA	GGTGGATTCTTTGCCT TTGA	60.0	488	INTRON	Ca_00905	R	HSF
Ca3_P1_36076083	Ca3	36076083	ATAAAA/ATAAAATTAAAA	TGTCAAAATTTGGATT GCCA	CCTTGTGAAACAAAT GCAAGA	59.9	539	INTERGENIC	--	--	--
Ca3_P1_36076512	Ca3	36076512	AGAATT/A	GCAATTTGTTCAACAA GGTAAGG	TTTGGAGGACAAAAAC TGGG	59.9	395	INTERGENIC	--	--	--
Ca3_P1_36086627	Ca3	36086627	AC/ACC	ATTCCAACGGAAAAACA TCCA	CTCCCAACAAAGCCT ACGA	60.2	605	INTRON	Ca_00907	I	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_36086749	Ca3	36086749	CACAAC/CACAACAAC	ATTCCAACGAAAACA TCCA	CTCCAAACAAAGCCT ACGA	60.2	605	INTRON	Ca_00907	I	--
Ca3_P1_36088731	Ca3	36088731	TATTAATTAATTA/TATTAATTAATTAAT TA	CAGCCGTGGGTAATCT GTCT	TCCAAACAAAACAAA GCCC	60.1	757	INTERGENIC	--	--	--
Ca3_P1_36089072	Ca3	36089072	GAAAAAAAAA/GAAAAAAAAA	CACCTACTAAAAAGCG TGCTGA	TCCAAACAAAACAAA GCCC	59.6	146	INTERGENIC	--	--	--
Ca3_P1_36089763	Ca3	36089763	TGAG/TG	TACGTTTAAGTGTGG CCCC	AAACTGGTTTGAGTGA CGGC	59.9	786	INTERGENIC	--	--	--
Ca3_P1_36089824	Ca3	36089824	AAT/AATCCATCTAT	GGGATCAACAAGTAAA AGCTCC	AAACTGGTTTGAGTGA CGGC	59.1	709	INTERGENIC	--	--	--
Ca3_P1_36090153	Ca3	36090153	AGTGTGTGTG/AGTGTGTG	ATGAATCCATTGGCG CTAC	GAAGCGTCAAGTATCC TCCG	59.9	541	INTERGENIC	--	--	--
Ca3_P1_36090792	Ca3	36090792	ATTTTT/ATTTTT	CCCCGTAACGGAGGAT ACTT	TTCAAATAGATCGTGC ACAAAAA	60.2	618	INTERGENIC	--	--	--
Ca3_P1_36092177	Ca3	36092177	CAAAAAAAAA/CAAAAAAAAA	ACATTCGTGACACGGT GAAA	GGTCTAGCCTATTCCA CCCC	60.0	756	INTERGENIC	--	--	--
Ca3_P1_36096471	Ca3	36096471	ATTTT/ATTT	TGAAAGACCAAGAGA AGAGG	TCAATTTTGTGTTCCCT CCCTT	58.5	462	INTERGENIC	--	--	--
Ca3_P1_36098742	Ca3	36098742	TC/T	TATGCTGATTCGGCCA TTTT	CTCGGTTGTTGTTGGA GGTT	60.4	379	DRR	Ca_00908	K	--
Ca3_P1_36099581	Ca3	36099581	TAAA/TAAAAA	CATTTGCGGAGGTAGGT GGAA	TGCCTTACTGATTGTC CTCC	59.9	421	DRR	Ca_00908	K	--
Ca3_P1_36101033	Ca3	36101033	CCAAC/CCAACAAC	TATTATGCAGCAGCG AAAC	TATTGCGTCCTCACAG CAAG	60.0	527	INTRON	Ca_00908	K	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_36102139	Ca3	36102139	TCC/T	GGTGCATGATGGCCTC TATT	TTACGATGAATTTTC GCCC	59.9	905	INTRON	Ca_00908	K	--
Ca3_P1_36102329	Ca3	36102329	TAAAAA/TAAAA	CCTGCAGGCAAGCAAA TAAT	GGTATTGTGGTGGGAT GGTC	60.2	486	INTRON	Ca_00908	K	--
Ca3_P1_36102523	Ca3	36102523	GAAAAA/GAAAA	TACCTGTGAACCCACC ATCA	GTATTGTGGTGGGATG GTCC	59.8	319	INTRON	Ca_00908	K	--
Ca3_P1_36107876	Ca3	36107876	ATTTT/ATTT	CAATCCCTTTAACTTC GCCA	GGTGGGTGACAATGAT TTCC	60.1	658	INTERGENIC	--	--	--
Ca3_P1_36109027	Ca3	36109027	CTTTTT/CTTTTT	TCCATGCCATCAAAAT CAAA	TTTCGTGAAGGCATAC TCCA	59.9	316	DRR	Ca_00909	J	--
Ca3_P1_36109313	Ca3	36109313	TTATC/TTATCCTTCTATGATC	TGGAGTATGCCTTCAC GAAA	TGCCGTGGTTAAGGG AATAG	59.3	652	DRR	Ca_00909	J	--
Ca3_P1_36109369	Ca3	36109369	CTTG/CTTGGTTG	TGGAGTATGCCTTCAC GAAA	TGCCGTGGTTAAGGG AATAG	59.3	652	DRR	Ca_00909	J	--
Ca3_P1_36111673	Ca3	36111673	CTT/CTTT	CTAGGGTTTTCTTTC GCCC	GATGCATTGCAATTTG TTCA	60.1	462	INTERGENIC	--	--	--
Ca3_P1_36113689	Ca3	36113689	G/GA	TGTCCGTTGAAAGGAG GACT	GCCACTTGCTTCTGCA CATA	59.7	214	DRR	Ca_00910	--	--
Ca3_P1_36114251	Ca3	36114251	CTACATCTTTTTTA/CTACATCTTTTT ACATCTTTTTTA	TATGTGCAGAAGCAAG TGCC	TTCCACCCAAATCAAC ACAA	60.0	678	INTRON	Ca_00910	--	--
Ca3_P1_36114572	Ca3	36114572	GAAAAAAAA/GAAAAAAAAA	CATTTTCGACTCCTCC CAAA	CCATTGGCACGTGTT ACAG	60.0	842	INTRON	Ca_00910	--	--
Ca3_P1_36119763	Ca3	36119763	ACTT/ACTTCTT	GCATATTCATCACCCC CATC	TCCTTCTGCAGGTGC TTTT	60.0	376	CDS (large-effect mutations)	Ca_00911	D	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_36120455	Ca3	36120455	TGGG/TGG	AAAGCACCTGCAAGAA GGAA	GGCTTGGTCTCTTCCA ATCA	60.0	479	INTRON	Ca_00911	D	--
Ca3_P1_36120818	Ca3	36120818	TA/TAA	TGATTGGAAGAGACCA AGCC	CAATGGTGCAACAAC TTGG	60.2	680	INTRON	Ca_00911	D	--
Ca3_P1_36123248	Ca3	36123248	ACAG/ACAGGAGTAGCAG	TTGTTGTAGGGGAGAC TGGG	TACTAGCCGATTTTGT GGGG	60.0	549	INTERGENIC	--	--	--
Ca3_P1_36126613	Ca3	36126613	A/AT	GACCCATCAATGAAGC GACT	GTAGGCATGTGGAGC CAAGT	60.1	612	INTERGENIC	--	--	--
Ca3_P1_36128710	Ca3	36128710	ATT/ATTT	ACTAACGGAACGACGA ATGG	AAAGTCGAGGTGCTTT TTGC	60.0	657	INTERGENIC	--	--	--
Ca3_P1_36129655	Ca3	36129655	GATATA/GATA	TTGCTCGTTTGATTGG TGTG	TTTTTGTGATTTTACGT AAGGGTA	60.7	589	DRR	Ca_00912	YU	--
Ca3_P1_36129790	Ca3	36129790	T/TC	TTGCTCGTTTGATTGG TGTG	TTTTTGTGATTTTACGT AAGGGTA	60.7	589	DRR	Ca_00912	YU	--
Ca3_P1_36132835	Ca3	36132835	A/ATTTCCC	CCTGCATCTTCTTCGT CACA	GAAAGGCTAAACTCCC AGCC	60.0	574	INTRON	Ca_00912	YU	--
Ca3_P1_36133101	Ca3	36133101	TAACAC/TAACACAACAC	TAATTCCAAACGCAAC CACA	CGCGGATCATCAGGTA TTTT	60.0	945	INTRON	Ca_00912	YU	--
Ca3_P1_36135327	Ca3	36135327	A/AAT	ATTTGTTTGATTCGGC TTGG	GCATCAATATGGTCGC GTTT	59.9	638	DRR	Ca_00913	--	M-type
Ca3_P1_36135574	Ca3	36135574	ATT/AT	CAAAATTAATTGGTTTG GATTTGA	TTTAGCACCGTTCTGG TGTG	58.0	873	DRR	Ca_00913	--	M-type
Ca3_P1_36136545	Ca3	36136545	CA/CATACATACATA	GCTTTGACACGTTTGC TTCA	ATTGTGGGAAGTGCTT ACGG	60.0	368	INTRON	Ca_00913	--	M-type

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected 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_P1_36136795	Ca3	36136795	AAATTAATTAATT/AAATTAATTAATTA ATT	TACCCGTAAGCACTTC CCAC	ATGGATCGGTTTTGTT GGAG	60.0	306	INTRON	Ca_00913	--	M-type
Ca3_P1_36137157	Ca3	36137157	CACA/CACACTAGTAACATAACA	TACCCGTAAGCACTTC CCAC	AGAGCTACCAGCCAAG TTGC	60.0	697	INTRON	Ca_00913	--	M-type
Ca3_P1_36138195	Ca3	36138195	TAAAAAAAA/TAAAAAAAAA	AGCTAATGAGCGGAAG CAAA	AATCTCCAAATTGGTG GTGG	60.1	558	INTERGENIC	--	--	--
Ca3_P1_36138844	Ca3	36138844	AG/A	TGGCTTGAGTGTGATG ATGAA	GGGTGTGGCAATATT GGAT	60.3	806	INTERGENIC	--	--	--
Ca3_P1_36139492	Ca3	36139492	A/ATT	ATGCAAATTACCCAAG ACGC	TTATACCGGCTTCGTT GACC	60.0	580	INTERGENIC	--	--	--
Ca3_P1_36139755	Ca3	36139755	TTAT/TTATATAT	ATGCAAATTACCCAAG ACGC	TTATACCGGCTTCGTT GACC	60.0	580	INTERGENIC	--	--	--
Ca3_P1_36140163	Ca3	36140163	TAAAAAAAA/TAAAAAAAAAAA	GGTCAACGAAGCCGGT ATAA	CGAAAAATAACACCAA TGCAAA	60.0	551	INTERGENIC	--	--	--
Ca3_P1_36144562	Ca3	36144562	CAAAA/CAAA	GGTTTTTGCCCCAAT ATGA	GTTTGCAAAGTGATCA TGCG	59.6	590	INTRON	Ca_00914	T	--
Ca3_P1_36148820	Ca3	36148820	TAAAA/TAAA	TTGCTTATGTCTCACG GCTG	CACCTTTGGAAGCAAA CAGAG	60.0	901	INTERGENIC	--	--	--
Ca3_P1_36149000	Ca3	36149000	GAAAAAAAA/GAAAAAAAA	TCCAAGGGGTTAAGAT TCATTG	CACCTTTGGAAGCAAA CAGAG	60.2	679	INTERGENIC	--	--	--
Ca3_P1_36154063	Ca3	36154063	TAAA/TAAA	TTATTTTTCGGGCTTTT GTCA	CTTCCATTGCAAGGCT TTGT	59.6	839	DRR	Ca_00916	A	GeBP
Ca3_P1_36158143	Ca3	36158143	CTCTCTTTCTTTTCTTTCTCT/CTC TCTTTCTCTTTCTCTTTCTTTCTCT	TTCCGTCATGTGTTTC GGTA	ATTAAAGCGCGTGGCT AAGA	60.0	631	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_36159082	Ca3	36159082	TTATATA/TTA	TTCTTTTGCTTGGATCA AATGT	ATCACCGCAAAGTAC GAA	58.7	193	INTERGENIC	--	--	--
Ca3_P1_36165450	Ca3	36165450	ATTTT/ATTT	GAAATGCATCGGTTCT TGGT	GTGGAGGAGCTAGTG TTGGG	59.9	634	INTRON	Ca_00917	A	--
Ca3_P1_36165658	Ca3	36165658	TC/TCTTTAAC	GAAATGCATCGGTTCT TGGT	GTGCTGCACTGTTTTC AGGA	59.9	661	INTRON	Ca_00917	A	--
Ca3_P1_36168208	Ca3	36168208	CAA/CAAA	ATCAATTCTGCTTCCC GATG	GAACTTTGCTTTTCGC AGGC	60.0	559	DRR	Ca_00918	KTDL	--
Ca3_P1_36168799	Ca3	36168799	CTCATAAGTCA/CTCA	GCCTGCGAAAGACAAA GTTT	ATTTGCAGGAGCTGCT GTTT	60.0	610	INTRON	Ca_00918	KTDL	--
Ca3_P1_36169333	Ca3	36169333	TAGAGGCA/TAGAGGCAGAGGCA	AAACAGCAGCTCCTGC AAAT	TACTGCGTCAAGCTCA ATGG	60.0	723	INTRON	Ca_00918	KTDL	--
Ca3_P1_36178103	Ca3	36178103	GAAAA/GAAAAA	CCAAAGTGAAGATCTC ACCGA	GCATTCTCCGGTCTTA TCCA	60.2	499	DRR	Ca_00921	Q	B3
Ca3_P1_36178527	Ca3	36178527	GTAAAAAT/GTTAAAAATTTAAAAAT	TGGATAAGACCGGAGA ATGC	GCAGCAAGATTGCAGA ATAGAA	60.0	147	DRR	Ca_00921	Q	B3
Ca3_P1_36178743	Ca3	36178743	TAA/TAAA	TGGATAAGACCGGAGA ATGC	TCCTTATAAAATTATCA TGCACTCAA	60.0	690	DRR	Ca_00921	Q	B3
Ca3_P1_36178800	Ca3	36178800	TATTTTAATTTTAATTT/TATTTTAATTT TAATTTTAATTT	TGGATAAGACCGGAGA ATGC	TCTCGAAACTAGAAAA GAACAAAAA	60.0	812	DRR	Ca_00921	Q	B3
Ca3_P1_36179789	Ca3	36179789	CATTTTATTTTATTTTATTTT/CATTTTA TTTTATTTTATTTTATTTT	TGACTTTTGGTGCCAC TTTTT	GTTACCCCATGCATTG GAAG	59.6	713	DRR	Ca_00921	Q	B3
Ca3_P1_36179937	Ca3	36179937	CTTTAATTT/CTTT	TGACTTTTGGTGCCAC TTTTT	GTTACCCCATGCATTG GAAG	59.6	713	DRR	Ca_00921	Q	B3

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_36180636	Ca3	36180636	ATTTTT/ATTTT	TTCCAATGCATGGGT AACT	TGATATGCAGGTGTT CCGA	60.2	865	INTRON	Ca_00921	Q	B3
Ca3_P1_36180666	Ca3	36180666	CATA/CATATATA	ACTCGGCTTGGGAATA CCAT	AGATCGACGCATAAGT GGCT	60.7	736	INTRON	Ca_00921	Q	B3
Ca3_P1_36183657	Ca3	36183657	TAAAAAAA/TAAAAAAA	TGATTGATGATTCAACT TCACAAA	AAACCTAACCCGTGC TTGA	59.5	808	INTERGENIC	--	--	--
Ca3_P1_36185975	Ca3	36185975	ATTTTTTT/ATTTTTTT	CGGAATGTAGTGTGA CCCC	CAGTGACAGTGAGAC GTGGG	60.2	535	INTERGENIC	--	--	--
Ca3_P1_36186523	Ca3	36186523	CAAA/CAAAA	CCACGTCTCACTGTCA CTGC	CACCCTACCAACAAG GCAT	60.5	500	INTERGENIC	--	--	--
Ca3_P1_36190637	Ca3	36190637	ATTTTTTT/ATTTTTTTT	TGGTTTGCTAAACCGT CCTC	ACCCAACAGCACTTGA TTCC	60.1	870	INTRON	Ca_00922	Q	B3
Ca3_P1_36190883	Ca3	36190883	ATTTTT/ATTTTTTTT	TGTTGTCTTAGGGAT CATATATTGG	ACCCAACAGCACTTGA TTCC	59.6	650	INTRON	Ca_00922	Q	B3
Ca3_P1_36192321	Ca3	36192321	A/AT	ACGTTGAATGAGGACA AGGG	TGGACCAATTTTCGTA TTCACCTC	60.0	581	INTRON	Ca_00922	Q	B3
Ca3_P1_36192497	Ca3	36192497	GAAAAAAAAA/GAAAAAAAAA	TGACATCTCCTCCAAC CACA	TGGACCAATTTTCGTA TTCACCTC	60.1	332	INTRON	Ca_00922	Q	B3
Ca3_P1_36192941	Ca3	36192941	TAAAAA/TAAAA	CGAAAATTGGTCCATA AAATTG	ATGCTGGGGTTTTGTT GAAG	58.4	746	INTRON	Ca_00922	Q	B3
Ca3_P1_36194243	Ca3	36194243	TAT/TATATGTAAAAAAT	TGCCATAAAGATGCGA AACA	TGAAATATGGCTTCCC TTCG	60.2	249	DRR	Ca_00923	--	bHLH
Ca3_P1_36195467	Ca3	36195467	TTTTATTATTATTATTATTATT ATTATT/TTTTATTATTATTATT ATTT	TATTGCCGACGTGAGT CTGA	TTCCCTTCTTTTCGT CTGC	60.4	283	DRR	Ca_00923	--	bHLH

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_36197056	Ca3	36197056	TTGTGT/TTGT	GTGGCGCAAAAAGAAA AGAG	TGCAGTAACCTCAACG GGTCT	60.0	756	INTRON	Ca_00923	--	bHLH
Ca3_P1_36198452	Ca3	36198452	AAATAA/AAA	TTCTTGCAATCAAAGC ATCG	AACAGAGGCGGTGTC ACTCT	60.0	469	DRR	Ca_00924	--	--
Ca3_P1_36199218	Ca3	36199218	TTTCTTCTT/TTTCTTCTTCTT	CACTCAAGGGACTAGG AGCG	GGTTTATGGGTCTTGG GGAT	60.0	482	DRR	Ca_00924	--	--
Ca3_P1_36200491	Ca3	36200491	GAACAACAACA/GAACAACA	TGCATTTCAATTCATTC CCT	ACTTTGTGCAATCCTT TGGC	60.3	489	INTRON	Ca_00924	--	--
Ca3_P1_36201927	Ca3	36201927	TGTGCTAG/TGTGCTAGTGCTAG	ATGCCACTTCAACAAA AGGG	ATCGAAGATCGTGAAC CTTG	60.0	563	INTERGENIC	--	--	--
Ca3_P1_36203025	Ca3	36203025	CACTTAC/CAC	ATCGAAGCCGGTTAGG TTTT	TACATCTTAATTGGGC CGGA	60.0	168	INTERGENIC	--	--	--
Ca3_P1_36203687	Ca3	36203687	GGTG/GGTGTG	CACCGTGAAGATTGTG GATG	TGTGAGGGATTGTGC ATGT	60.0	292	INTERGENIC	--	--	--
Ca3_P1_36204918	Ca3	36204918	ATTT/ATTTATTAAGTTT	GTCGTTGGAGTCTTTG CGAT	TTCAACAAATGTTGAC CGAA	60.3	452	DRR	Ca_00925	--	--
Ca3_P1_36207784	Ca3	36207784	GA/GAA	TGGGTTCAATAGCCAC ATCA	GTTCAAACTTCGTTGC CTCC	59.9	237	INTRON	Ca_00925	--	--
Ca3_P1_36208259	Ca3	36208259	CTT/CTTACATATAATTTT	GAGGCAACGAAGTTTG AACC	GGTTTCGTCGTCGTTT GAGT	59.7	675	INTRON	Ca_00925	--	--
Ca3_P1_36209486	Ca3	36209486	AATATAT/AATATATATAT	GCGCCAAAGCAGAAGA TACT	TTGGGCTGATTTTAC TGGC	59.6	630	INTERGENIC	--	--	--
Ca3_P1_36210315	Ca3	36210315	ATTTTT/ATTTTTT	CATTCAAATAAATGGG TATTGACG	TCATTGACCGTATGGA TAGCA	59.5	542	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_36213542	Ca3	36213542	GTGATGATGAT/GTGATGAT	AAAATTATTGTGGCCG AGCA	CCGCACCAAGTATGAA GAGC	60.5	414	DRR	Ca_00926	--	LSD
Ca3_P1_36213829	Ca3	36213829	ATG/ATGAAAAAGTG	AAAATTATTGTGGCCG AGCA	ACAGGGGATGCAGAC TTTTT	60.5	845	DRR	Ca_00926	--	LSD
Ca3_P1_36215864	Ca3	36215864	CTTTT/CTT	TGATGACATTCAAATT GCG	CCTGTTTGTGGCTT GGAT	58.1	582	DRR	Ca_00927	--	CO-like
Ca3_P1_36218063	Ca3	36218063	CAAAAAA/CAAAAAA	TTGATGTCTCCACAA GCTG	TAATCAGATGATCGCG CAAG	59.8	480	INTRON	Ca_00927	--	CO-like
Ca3_P1_36218738	Ca3	36218738	TGAGAGAGAGAGAGAGA/TGAGAG AGAGAGAGAGA	ACGCCTCGATCAAATC ATCT	CACTCTCTCGCCACA TGAA	59.7	708	INTRON	Ca_00927	--	CO-like
Ca3_P1_36219342	Ca3	36219342	GTTT/GTT	CATGTGCGAAGAGAG TGAA	GTATTCTTTGGGCG TGAA	60.0	531	INTERGENIC	--	--	--
Ca3_P1_36219993	Ca3	36219993	TCA/T	TTCACGCCAAAGGAA ATAC	ACCGTGATGACTCCA GTTC	59.9	757	DRR	Ca_00928	--	--
Ca3_P1_36220254	Ca3	36220254	T/TG	TTGGCTCTTATTGG TGGG	ACCGTGATGACTCCA GTTC	60.1	265	DRR	Ca_00928	--	--
Ca3_P1_36220304	Ca3	36220304	GAAAAAAAAAAAAA/GAAAAAAAAA A	TTGGCTCTTATTGG TGGG	AATTCGGCGCTTTAGG ATTT	60.1	446	DRR	Ca_00928	--	--
Ca3_P1_36221155	Ca3	36221155	CAAAA/CAAA	TTTTACAATGTGCCA GCTC	AAATCCATCCCGTAT CTCC	59.8	405	DRR	Ca_00928	--	--
Ca3_P1_36222093	Ca3	36222093	TAAAA/TAAAAA	CTCGCATGGTTATG GTCT	CAATCGAATTCCTTA GCCG	60.0	695	INTRON	Ca_00928	--	--
Ca3_P1_36223404	Ca3	36223404	TTGT/TT	ACTCTGGAATCAGCAA GCGT	ACAACACTATGCCTT GCCC	60.0	386	INTRON	Ca_00928	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_36223694	Ca3	36223694	GTGTCCAAAA/GTGTCCAAAAAAGTGTCCAAAA	GGGCAAGGCATAGTTGTTGT	GGTGAGCAAGGTGAAACCAT	60.0	694	INTRON	Ca_00928	--	--
Ca3_P1_36224870	Ca3	36224870	AAGAGAGAGAGAGAGAGAGAG/AAGAGAGAGAGAGAGAGAGAGAGAGAG	ACCTGTGTGACTCTGAGGGG	CCCAGTAACCGCTCTCTCTG	60.2	721	INTERGENIC	--	--	--
Ca3_P1_36225511	Ca3	36225511	TAAA/TAAAA	CAGAGAGAGCGGTTACTGGG	TTTGCTTTATTTTCGATGGGC	60.0	733	INTERGENIC	--	--	--
Ca3_P1_36226234	Ca3	36226234	AATAGAT/AATAGATAGAT	TGGAGCCCATCGAAATAAG	CCACATGGTGAAGAGCAGAA	60.0	729	INTERGENIC	--	--	--
Ca3_P1_36226833	Ca3	36226833	CGAGGAGG/CGAGG	CACGAAATCCGAAATGGAAC	TTGTTTGCTCTGATTTTGGAGA	60.3	537	INTERGENIC	--	--	--
Ca3_P1_36230990	Ca3	36230990	T/TA	TCCAGTCCTTTCCTTTGGA	TGAGTTAAAGGACCACATGCC	59.6	353	DRR	Ca_00929	J	--
Ca3_P1_36233110	Ca3	36233110	AAATAAGA/AA	GAGGGCTGCAGTTTAAATTCG	AGCTGCCTCATAATCCACCA	59.8	824	DRR	Ca_00930	O	--
Ca3_P1_36233556	Ca3	36233556	ATTTTTTTT/ATTTTTTTTTT	ATTGCTCAAGTTTGTGGG	AATCACACCTTTAAATCGGCA	60.2	690	DRR	Ca_00930	O	--
Ca3_P1_36234544	Ca3	36234544	GA/GAA	ACCACACCTTTTCAGATGC	TCTGCTGGTTTGGGAGTTCT	60.0	157	INTERGENIC	--	--	--
Ca3_P1_36237362	Ca3	36237362	ATTT/ATTTT	TCGCAAGATGAGTCTTGGTG	AATGGGCTTTGAAGGGTCTT	60.0	596	DRR	Ca_00931	O	--
Ca3_P1_36238162	Ca3	36238162	TTCA/T	TGACCCTAATGCCATGAACA	AATCGTGGAGTTCGGTCAAT	59.9	522	INTERGENIC	--	--	--
Ca3_P1_36239497	Ca3	36239497	ATT/AT	TGAAATGCGTTTCCACTTTT	TTGGGCTTGTGGTCTCTAGG	58.3	657	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_36241503	Ca3	36241503	AAT/AATGAT	TAATGAAGGGGACTGC AACC	TTCGACTCCGAGATAT AACATTCA	59.9	789	INTERGENIC	--	--	--
Ca3_P1_36241653	Ca3	36241653	CC/CCAC	TTTCGAGAAAACTAT GCCC	TCCGATTTCGAATTG AGACAA	60.2	808	INTERGENIC	--	--	--
Ca3_P1_36241823	Ca3	36241823	AG/A	TTTCGGTTTGCATGTT GAGT	AGGTGCGGTGTTTTGT TGTT	59.2	904	INTERGENIC	--	--	--
Ca3_P1_36243079	Ca3	36243079	T/TGAG	CAATGGAGGAAACCCA AGAA	AAGTGGTGGTGCTGTT TTCC	59.9	318	CDS (large-effect mutations)	Ca_00932	TO	--
Ca3_P1_36246276	Ca3	36246276	GTTTTTTTT/GTTTTTTTTT	TCGGCTCGTCTAGTTC CAGT	TGTCAAAACGCTCAAA AATGA	60.0	321	DRR	Ca_00932	TO	--
Ca3_P1_36246846	Ca3	36246846	ATGTTATT/AT	TCATTTTGGAGCGTTT GACA	TCGGTTTTGAGCATAC CACA	59.3	915	DRR	Ca_00932	TO	--
Ca3_P1_36249669	Ca3	36249669	C/CAAGATGT	TTCCATCTATTGGTTC GCC	ACGACCCTTAATTGGC TCCT	59.9	984	DRR	Ca_00933	O	--
Ca3_P1_36250776	Ca3	36250776	AAATAATAATAATAATAA/AAATAA TAATAATAATAA	GCAAAGCCAAACCGCT ATAA	AACGCTAACGTTGGTT CCAC	60.2	935	DRR	Ca_00933	O	--
Ca3_P1_36251365	Ca3	36251365	TAA/TA	GGTAAATTCGGTGGAA CCAA	TCTGCCTGTTGTTTT GACG	59.7	336	INTERGENIC	--	--	--
Ca3_P1_36251816	Ca3	36251816	TTATAT/TTAT	CGTCAAAAACACAGG CAGA	CAGAAGCTTGCAGCTA CCCT	59.9	718	INTERGENIC	--	--	--
Ca3_P1_36253466	Ca3	36253466	TAAA/TAAAA	AGAATGCCACTTGGAC AACC	TGACCGGAAGAAGAA GAAGAA	60.0	383	DRR	Ca_00934	O	--
Ca3_P1_36262526	Ca3	36262526	CTTTTT/CTTTT	GGCAGAGCTATCCCTC AAGA	AAAGTGCAGCAACCAC ACAC	59.5	591	INTRON	Ca_00936	--	MYB_related

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_36264091	Ca3	36264091	CA/CAA	ATGAACAGAGACGGT CGAT	ATGATCCATGTTGCAG GTGA	59.5	423	INTERGENIC	--	--	--
Ca3_P1_36266350	Ca3	36266350	C/CT	TTTGTGATGATATTTA TCCCGTG	GACACGGATATGAGA GCGGT	60.0	599	INTERGENIC	--	--	--
Ca3_P1_36269264	Ca3	36269264	TTCTCTCTC/TTCTCTC	TTCCCATTTTTCAAAA CCA	TCCAGAGGATCACTGG GAAG	60.1	219	INTRON	Ca_00937	J	Dof
Ca3_P1_36270011	Ca3	36270011	TACACACA/TACACA	CTGGAATATGGGCTGG TGAT	CAGAGCATGAGATGG CAGAA	59.8	330	INTRON	Ca_00937	J	Dof
Ca3_P1_36274277	Ca3	36274277	T/TA	TGGGTTTTATTGGTT TGGT	AAGCCGACTTCAAGAA GGAC	60.1	419	DRR	Ca_00937	J	Dof
Ca3_P1_36274634	Ca3	36274634	AAT/AATAT	TGGAAGTCTTGATGT GCAA	TCATGCGAATTTTAA AGCA	57.8	420	DRR	Ca_00937	J	Dof
Ca3_P1_36274695	Ca3	36274695	ATAAAATATA/ATAAAATATAATTAA AATATA	TGAGTTGCTTTAAAAAT TCGCA	GGAGACAAATATAATT CACCAACA	59.9	541	DRR	Ca_00937	J	Dof
Ca3_P1_36275195	Ca3	36275195	AAT/AATAT	TTTTGGTGGTGAATTA TATTTGTCTC	TGCATGACAAGTGGCT CTTC	59.6	392	DRR	Ca_00937	J	Dof
Ca3_P1_36276278	Ca3	36276278	T/TG	AGAAGCTTTCGCTGAA GCAC	TCCTCTCGATCCACCT ATGG	59.9	610	INTRON	Ca_00938	R	--
Ca3_P1_36277496	Ca3	36277496	A/AG	GGCTTGGGAAGATAAG AGGG	CAGATCCAAAACCACC GAAT	60.0	602	INTRON	Ca_00938	R	--
Ca3_P1_36279187	Ca3	36279187	TG/TGG	AACAGGTAAGCCGTCC ATTG	CGTTGACCAGAAAAAT GGCT	60.0	268	INTRON	Ca_00938	R	--
Ca3_P1_36283272	Ca3	36283272	CAAA/CAAAA	GCAGCTGACCCAGAC TTAG	GTACCTGTCACACGAC CGC	60.0	554	DRR	Ca_00938	R	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_36283526	Ca3	36283526	ATTTTTTTTT/ATTTTTTTTTTT	GCGGTCGTGTGACAG GTACT	TCTTATGCCGTTTTCC TTCG	61.2	654	DRR	Ca_00938	R	--
Ca3_P1_36284548	Ca3	36284548	ATATTATTATTAATATTATTATTATTAT TATTATTATTATTATAATATTATTATT ATTATTAT/ATATTATTATTATTAATATT ATTATTATTATTATTATTATTATTATTA ATATTATTATTATTATTAT	ACCCCTCCTGTCGTGT ATTG	AGCCACATTCACAAAC CACA	59.8	449	INTERGENIC	--	--	--
Ca3_P1_36286597	Ca3	36286597	ATTTTTTT/ATTTTTTTTT	TCATTTTGGCAACTTAC CACC	TGCCTGAATTATTGG GAATG	59.9	754	INTERGENIC	--	--	--
Ca3_P1_36286726	Ca3	36286726	TA/TATAAAATTGCTGTGTAA	TCATTTTGGCAACTTAC CACC	CGGGCATTAGAGATCC ACAT	59.9	935	INTERGENIC	--	--	--
Ca3_P1_36287550	Ca3	36287550	AAAGACAAGACAA/AAAGACAA	ATGTGGATCTCTAATG CCCG	CGTGGTTGAGTTTCGA ACAG	59.9	413	INTERGENIC	--	--	--
Ca3_P1_36289119	Ca3	36289119	TTTCAC/TTTCACATTAATTCAC	TCCTTGTCGTGTAG CCTT	TCTTGGTCGTGTCCAT GAAA	59.7	307	INTERGENIC	--	--	--
Ca3_P1_3628980	Ca3	3628980	TAAAAAA/TAAAAAA	CCACCATTAGTTAACG GAGTCA	TTGTCTAAAGAAATTG AAATCATGTTG	59.0	267	INTERGENIC	--	--	--
Ca3_P1_36290753	Ca3	36290753	C/A/C	AAAATCTCAAAATTCGC CTTTG	TGAGTGGGGTAAATAA ACTCTGAA	59.6	416	INTERGENIC	--	--	--
Ca3_P1_36291066	Ca3	36291066	ATTTTTTT/ATTTTTTTTT	TCCCTATCTCATTTTAC CGTGA	GGTTTGGTTCCTTCGG TTTT	58.6	745	INTERGENIC	--	--	--
Ca3_P1_36295270	Ca3	36295270	TTGTTTTCATGTTT/TTGTTT	TGTAGAGAACGGAAT GGGG	TAAGGTGGCGAGGATT GAAC	59.9	593	INTRON	Ca_00939	--	--
Ca3_P1_36307490	Ca3	36307490	AT/ATATT	GTGTTCCGCGGTTAAC AACT	TGGCTAATAAGCCTAC GCAAA	60.0	409	INTERGENIC	--	--	--
Ca3_P1_36308085	Ca3	36308085	ATTTTTTTTT/ATTTTTTTTTTT	CGTAAATAGCAGTGGT TGTTCCG	TCTGCTGTATCAAGTG GCAAA	59.7	573	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_36308195	Ca3	36308195	T/TC	TTTGCCACTTGATACA GCAGA	TTGAACCTAAACGATG ACACCTT	59.5	309	INTERGENIC	--	--	--
Ca3_P1_36312854	Ca3	36312854	AAA/AAATTAAGTAA	CTATGCACGAGTTTGG GGTT	CAATCAAGAAGCGCAT TGAA	60.0	586	DRR	Ca_00941	D	TCP
Ca3_P1_36315506	Ca3	36315506	ATTT/ATT	CACATTCTTCTCCAA CCGT	CCTGATGCTTTTGGC ATTT	60.0	753	INTRON	Ca_00941	D	TCP
Ca3_P1_36319172	Ca3	36319172	A/AT	AAAGGAATTGCAAGGA CCAA	CGCGGTGATTTTATTG CTCT	59.5	616	INTRON	Ca_00941	D	TCP
Ca3_P1_36320561	Ca3	36320561	CTTTTTTT/CTTTTTTTTTT	GTCTCAAGCAATCCTC AGCC	CAACGAGAGAGTGGA TGGGT	60.0	442	INTRON	Ca_00941	D	TCP
Ca3_P1_36321434	Ca3	36321434	TAAAAAAAA/TAAAAAAAAA	GCTGGCCTTGCAAG AAAA	AGCTAGCTGATGGCTG GAAA	60.3	582	INTRON	Ca_00941	D	TCP
Ca3_P1_36322784	Ca3	36322784	CAAAAA/CAAAA	CAGCTTTCCTAGCATT TGCC	ATAATGCTGCAGCGAC AATG	60.0	890	INTRON	Ca_00941	D	TCP
Ca3_P1_36324257	Ca3	36324257	ATTTTTTT/ATTTTTT	TGGTTGGTCTTTGCTT GTGT	GGAATGTTTCATGGAC ACCC	59.2	770	INTERGENIC	--	--	--
Ca3_P1_3632559	Ca3	3632559	ATTTTTTTTTTTTT/ATTTTTTTTTT T	TTTGAGTCTAACCCGA ACCAA	GTGGGGTAGGCAGAG ACAAA	59.6	765	INTERGENIC	--	--	--
Ca3_P1_36326321	Ca3	36326321	ACT/ACTCT	TTGCAAAATGGTCCAT CAAA	GCAGTGTGATGCAAAA ATGG	59.9	680	INTERGENIC	--	--	--
Ca3_P1_36327814	Ca3	36327814	TAA/TAAA	CAAGAATTGGGGGAAA ACAA	ATACATCTCGCCACAA TGGG	59.8	296	INTERGENIC	--	--	--
Ca3_P1_36328306	Ca3	36328306	CTT/CT	TTATATCACCCATTGTG GCG	CGAGAGAGACTTAGG CCGTG	59.3	681	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_36328528	Ca3	36328528	AATGTTATGTTA/AATGTTA	TTATATCACCCATTGTG GCG	CGTTCAGACCTCCAT TGTT	59.3	856	INTERGENIC	--	--	--
Ca3_P1_36328591	Ca3	36328591	GAAA/GAA	CACGATGAAATCACTA TGAAAAGC	CGTTCAGACCTCCAT TGTT	60.0	440	INTERGENIC	--	--	--
Ca3_P1_36331408	Ca3	36331408	TGG/TG	TGTAGGTTTTTGACCG GAGG	TCACCAAGACCAACA GGCT	60.0	494	INTRON	Ca_00942	--	HB-other
Ca3_P1_36333048	Ca3	36333048	TGGGG/TGGGGG	CAGCACAGAATGTTGA TGGG	TTGGCCATTGCAAAAG TACA	60.1	192	INTRON	Ca_00942	--	HB-other
Ca3_P1_36334629	Ca3	36334629	TAAAAAAAA/TAAAAAAAA	AACGGCGAATACTAAC ACGG	GCCCAAACGAAACCTA TCAA	60.0	372	INTRON	Ca_00942	--	HB-other
Ca3_P1_36334754	Ca3	36334754	ATTTTTTCATATTTTT/ATTT	AACGGCGAATACTAAC ACGG	GCGGAATACACGAG AAAA	60.0	697	INTRON	Ca_00942	--	HB-other
Ca3_P1_36336902	Ca3	36336902	TAAA/TAA	CCCATCTCCAACCTCT TCAA	GGTGCTAAGTTTGGC GTGT	60.0	818	INTRON	Ca_00942	--	HB-other
Ca3_P1_36338300	Ca3	36338300	ATTTTT/ATTTT	GAATCATGGAGTCCGG AGAA	ACGCAAACTCTGATCG TGTTG	60.0	703	DRR	Ca_00942	--	HB-other
Ca3_P1_36350064	Ca3	36350064	TAT/TATAAT	GGTTTCCCAATATTC CGTT	GATGGCAAGCTTTTGT CCTT	59.9	492	INTERGENIC	--	--	--
Ca3_P1_36350826	Ca3	36350826	TAAAAA/TAAAAAA	AAGGACAAAAGCTTGC CATC	TTGTCCCCAATGTTGG TCTT	59.3	663	INTERGENIC	--	--	--
Ca3_P1_36351161	Ca3	36351161	TAAAAA/TAAAA	AAGACCAACATTGGGG ACAA	CGATTCAAGTGTGCA TGTC	60.2	473	INTERGENIC	--	--	--
Ca3_P1_36351703	Ca3	36351703	GATAAAATAATATAAAATAA/GATAAA TAA	GACATGCGACACTTGA ATCG	GCCTGCAATGAACCGT AAGT	60.3	420	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected 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_P1_36352882	Ca3	36352882	AT/ATT	TCACCTCGAGCAACA AGTG	AAGCACCATTTGTAGT TTTCATGT	60.0	380	INTERGENIC	--	--	--
Ca3_P1_36356666	Ca3	36356666	CAAAAAAAAA/CAAAAAAAAA	ATTTAAAGTCACGCG GAGC	TCCAGGTATGCGGTAG TTCC	59.4	373	DRR	Ca_00944	--	--
Ca3_P1_36361587	Ca3	36361587	CAA/CA	ACTCATCTCCAACAG AGGG	CTGTCAACAAATCGCA GTCG	60.1	465	INTERGENIC	--	--	--
Ca3_P1_36363081	Ca3	36363081	CG/C	TGTGTAGCGATGTCAC ACTTG	TTCCGTCCATATGCAT TGATT	58.3	426	INTERGENIC	--	--	--
Ca3_P1_36370241	Ca3	36370241	GAAAAAA/GAAAAAA	TGGAGAAATGCGAGA TTCC	AAACGGATCCCCTAC CAAC	60.2	541	INTERGENIC	--	--	--
Ca3_P1_36371742	Ca3	36371742	ATTTTTTT/ATTTTTTT	GGGTTTTCTAGTCCCC CAAG	TGTTTTTCATTATGTG CCCG	59.8	483	INTERGENIC	--	--	--
Ca3_P1_36381407	Ca3	36381407	ATTTTT/ATTTTTTT	TTTTGAGAGCGCATTT TGTG	CCATGCTTCCACGTC TAAT	60.0	352	INTERGENIC	--	--	--
Ca3_P1_36381967	Ca3	36381967	AACACAC/AACAC	ATTAGACGTGGAAGC ATGG	CATTGACGTTACAACC GACG	60.0	798	INTERGENIC	--	--	--
Ca3_P1_36384084	Ca3	36384084	TTAAA/T	TGGCACTGTTTTGGTC TTTG	TGGACCCAAAATTTCC CATA	59.7	605	INTERGENIC	--	--	--
Ca3_P1_36392229	Ca3	36392229	A/ACTT	TTTTGGACTGAGGGAG GTTG	TGCCAATTGGAATCAC AAGA	60.1	698	INTERGENIC	--	--	--
Ca3_P1_36392375	Ca3	36392375	ATTTTT/ATTTTTTT	AACGTGATTCTCAGAA CGGC	TCCCCAAACAAGTTTT CAGC	60.3	736	INTERGENIC	--	--	--
Ca3_P1_36396966	Ca3	36396966	AAAATT/AAAATTTCAAATT	CTCACATCTGATCGAA GGCA	ACTGTAACCTTGTCCT CCCG	59.9	332	INTRON	Ca_00950	P	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_36397163	Ca3	36397163	TTATATATAT/TTATATATATATAT	CTCACATCTGATCGAA GGCA	TGCAGCAGCAGAACCA TTAC	59.9	708	INTRON	Ca_00950	P	--
Ca3_P1_36399143	Ca3	36399143	ATTTTT/ATTTTTTT	ATAATTGGGCCACACA TCGT	TGCAATGTGGAATCA GAGAA	60.1	208	DRR	Ca_00950	P	--
Ca3_P1_36399326	Ca3	36399326	ATAATATGATATTAATATGATA/ATAAT ATGATA	ATAATTGGGCCACACA TCGT	AACAAGCAAGCGCAAC ACTA	60.1	712	DRR	Ca_00950	P	--
Ca3_P1_36399524	Ca3	36399524	T/TG	ATAATTGGGCCACACA TCGT	AACAAGCAAGCGCAAC ACTA	60.1	712	DRR	Ca_00950	P	--
Ca3_P1_36402333	Ca3	36402333	TA/T	GGCCTCACACTCCATC AAAT	GCTCAATGTTGCGTTT AGCA	59.9	316	INTRON	Ca_00951	H	--
Ca3_P1_36403180	Ca3	36403180	TA/T	AACCGGAAGGATCTGT GTTG	TTTTCACATTTCAACC GCAC	60.0	953	DRR	Ca_00951	H	--
Ca3_P1_36404085	Ca3	36404085	GTT/GT	CGAATTGAGGGTTGT CACT	TGAATCTTATTGCGTG AGCG	60.0	803	DRR	Ca_00951	H	--
Ca3_P1_36406783	Ca3	36406783	AT/ATT	CAGTGACTATGGCTTT GCGA	ATTCTGCTGGCGATAC AACC	60.0	357	INTRON	Ca_00952	--	--
Ca3_P1_36410249	Ca3	36410249	GAAAAAAAAA/GAAAAAAAAA	CGGAAATGTCATGTGT GGTC	ATGTTTGTCCACTTGC TCCC	59.8	458	DRR	Ca_00953	--	HSF
Ca3_P1_36410296	Ca3	36410296	GTTTTTTT/GTTTTTTTTT	ATGGTTGTTCATCGTC CCAT	ATGTTTGTCCACTTGC TCCC	60.1	126	DRR	Ca_00953	--	HSF
Ca3_P1_36410627	Ca3	36410627	TG/T	GGGAGCAAGTGACACA AACAT	CTTTGTCCCTCGTG TTGT	60.0	431	DRR	Ca_00954	G	--
Ca3_P1_36412760	Ca3	36412760	TAAAA/TAAA	TGCTTTGCTTTGGGTC TTCT	TCTCACGCGAATTCCC TATT	60.0	307	INTRON	Ca_00954	G	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_36415214	Ca3	36415214	AAAGAAG/AAAG	GAGTCAACCTACCGG CCAA	TGGGAATGACCTTGC TTTC	60.0	466	INTRON	Ca_00954	G	--
Ca3_P1_36418728	Ca3	36418728	T/TTTG	TCCTCCTTACCACATC GGTC	CGCATTGTCCCCTGT AAGT	59.9	790	INTRON	Ca_00954	G	--
Ca3_P1_36418781	Ca3	36418781	GAAAA/GAAA	TCCTCCTTACCACATC GGTC	ACGTAGAAACAATGGC CGTC	59.9	929	INTRON	Ca_00954	G	--
Ca3_P1_36419771	Ca3	36419771	ATTTTTTT/ATTTTTT	GTCGTCTTGGGCTCTT TCAC	TTGCCGTTGAGAAAAT GAGA	59.9	477	INTERGENIC	--	--	--
Ca3_P1_36420133	Ca3	36420133	TTGA/TA	TGTTTTTCGCTCATCCA TTG	CCCTTTTTTCAGCCAC ACTA	59.7	464	INTERGENIC	--	--	--
Ca3_P1_36420292	Ca3	36420292	GGAGC/G	TGTTTTTCGCTCATCCA TTG	TGGTAGAAATCACGAT GCCA	59.7	710	INTERGENIC	--	--	--
Ca3_P1_36420495	Ca3	36420495	GTGTGAT/GTGTGATGTGAT	TAGTGTGGCTGAAAA GGGG	TGGTAGAAATCACGAT GCCA	60.1	266	INTERGENIC	--	--	--
Ca3_P1_36420971	Ca3	36420971	AATATATATATATAT/AATATATATAT	TGGCATCGTGATTCT ACCA	GGCCATGGTGATTGTA AAGG	60.1	746	INTERGENIC	--	--	--
Ca3_P1_36427493	Ca3	36427493	TAAG/TAAGATCAAG	GAAACCAGAGAAGCGT TTGC	TGAGTTGTGATAAAGG GCCA	60.0	690	INTERGENIC	--	--	--
Ca3_P1_36430053	Ca3	36430053	ACC/ACCGCATCC	AGGGATGCACCAGCTG TAAC	AGAGAAGAAACCTGGT GCGA	60.1	593	INTRON	Ca_00957	H	--
Ca3_P1_36435265	Ca3	36435265	AA/AAAAACACA	ATTCCCCGATCCATCCT TTTT	AAGGTGGAGGAGGGA AAAGA	59.6	811	DRR	Ca_00957	H	--
Ca3_P1_36436313	Ca3	36436313	CAAAAAAAAA/CAAAAAAAAAA	TCTTTTCCCTCCTCCA CCTT	ATCGCAATTAACAAA TGCC	60.0	654	INTRON	Ca_00958	A	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_36437168	Ca3	36437168	C/CAT	AATTGGCAACGTAGG ATGG	CGGCTCTTGGTTCTT CTTG	59.8	514	INTRON	Ca_00958	A	--
Ca3_P1_36438761	Ca3	36438761	CGTAGAAA/CGTAGAAAAGACGGTAG AAA	TTGGGTAGTTGGAATG GAGG	ATGTCTCCTCCTCGCA TGAT	59.8	425	INTRON	Ca_00958	A	--
Ca3_P1_36438982	Ca3	36438982	T/TTG	AATTGGCTTTGGTGG TTTG	GTAGCAAACGGCCC CATT	59.8	686	INTRON	Ca_00958	A	--
Ca3_P1_36440379	Ca3	36440379	AT/A	TCTTTTCAACCCCACT CAAA	CATGACCAACTTACCT TTCGG	59.6	783	DRR	Ca_00959	R	--
Ca3_P1_36443050	Ca3	36443050	ATG/A	TTGCAATTGAAGTTCC CACA	GGCAAGCTCATTCTG CTTC	60.1	427	INTRON	Ca_00959	R	--
Ca3_P1_36443105	Ca3	36443105	GCATCAT/GCAT	TTGCAATTGAAGTTCC CACA	GGCAAGCTCATTCTG CTTC	60.1	427	INTRON	Ca_00959	R	--
Ca3_P1_36446253	Ca3	36446253	CAG/CAGAG	ATCCCAATCACCTCAC TTGC	CCCAGATTCTATGCG GAAA	59.9	533	DRR	Ca_00960	O	--
Ca3_P1_36448609	Ca3	36448609	CAAAA/CAAA	GAGCCAGACATCAACT GCAA	CAATGTAGGAGTGCGA AGCA	60.0	710	INTRON	Ca_00960	O	--
Ca3_P1_36448626	Ca3	36448626	TAACAACAA/TAACAACAACAA	GAGCCAGACATCAACT GCAA	CAATGTAGGAGTGCGA AGCA	60.0	710	INTRON	Ca_00960	O	--
Ca3_P1_36451224	Ca3	36451224	ATTT/ATTTT	CCTCTTCTTAGACGCC GATG	GTCGATGGTTTCAAGC ACCT	60.0	828	INTRON	Ca_00961	--	--
Ca3_P1_36454087	Ca3	36454087	CGAT/CGATCATATTGGAT	TGATTCGGTTTGCT GTGT	CGTGACAGCCCATAGT TGAA	60.2	931	INTERGENIC	--	--	--
Ca3_P1_36455748	Ca3	36455748	AC/AGTTTTACTCTTAATACATC	TCAAATTACAACAAGG GCGA	CGTAAGGGAGCAAAG TGGTC	59.2	792	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_36456540	Ca3	36456540	TATAATAAT/TATAAT	GACCACTTTGCTCCT TACG	AAGTCTCAAACAAAC ACCGA	59.7	585	INTERGENIC	--	--	--
Ca3_P1_36457575	Ca3	36457575	TGG/TG	TGGTACGCTTAATTGA GAGCTG	TGTGCTGTACATGTGG CTGA	59.6	314	INTERGENIC	--	--	--
Ca3_P1_36458050	Ca3	36458050	AG/A	TGGGTCCCAAAAGTG TATC	CAATTGGCCACTTGA ATGA	59.6	772	INTERGENIC	--	--	--
Ca3_P1_36458326	Ca3	36458326	ATTTTT/ATTTTTT	TTTGCAAAGTGCGGT AGTT	TGTTTTGCAAGGTGAA TTGG	60.7	525	INTERGENIC	--	--	--
Ca3_P1_36464808	Ca3	36464808	TGTTGACGTTGA/TGTTGA	ACAATCGTTCACCGTC TTCC	AAGAAGACCCACGTGA TTGG	60.0	659	CDS (large-effect mutations)	Ca_00963	--	--
Ca3_P1_36465253	Ca3	36465253	CAA/CAAGAAGAAGAAGAA	TCGAGTTCCTGCTGTT GATG	CACGCGCTTCGTTTAT TTTT	60.0	553	INTERGENIC	--	--	--
Ca3_P1_36466048	Ca3	36466048	ATTTTTTTT/ATTTTTT	ATCATTGTGAGCAGGA GGAA	AATTGAACCAACGATG TCCAC	58.2	362	INTERGENIC	--	--	--
Ca3_P1_36468198	Ca3	36468198	GAG	TTCATAGATTTTGTCAA AGTTGCAT	TTGTCAATGTCGCTGT CCTC	59.1	584	INTERGENIC	--	--	--
Ca3_P1_36473807	Ca3	36473807	ACAAC/A	ACAAATGCATAGCCAG GAGG	GGCGATATCCGTGAAA GAGA	60.1	532	INTRON	Ca_00964	A	B3
Ca3_P1_36476148	Ca3	36476148	A/AATACAC	TGGCAAATCGATTGAC AAAA	ACATCCAGTCCTGCAA ATCC	60.1	844	INTERGENIC	--	--	--
Ca3_P1_36476326	Ca3	36476326	GA/GAA	GCGAGAAAAGCCAGCT AGAA	ACATCCAGTCCTGCAA ATCC	59.9	239	INTERGENIC	--	--	--
Ca3_P1_36481031	Ca3	36481031	TAATAAGAAAT/TAAT	AAATAGAAGGGGTGT TGGG	AAAAATGGGAGTGACG ATGC	60.0	607	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_36482503	Ca3	36482503	AAAAAAA/AAAAAAAAAATTAAAAA	AATGAAAGGGGAATT GGAC	GATGTGTGCATCAAC CCCA	60.0	764	INTERGENIC	--	--	--
Ca3_P1_36485126	Ca3	36485126	TC/TCC	CCAAACACTTTTCTACC GGC	GGGTGGCGAATGAGA ACTTA	59.6	233	INTERGENIC	--	--	--
Ca3_P1_36485511	Ca3	36485511	GAA/GA	GCCGTGATGGTTTCAT TTTT	TCGGGTCGGAAGTTG AATAA	59.8	547	INTERGENIC	--	--	--
Ca3_P1_36485658	Ca3	36485658	ATTCTAA/ATTCTAATTCTAA	GCCGTGATGGTTTCAT TTTT	TCGGGTCGGAAGTTG AATAA	59.8	547	INTERGENIC	--	--	--
Ca3_P1_36485880	Ca3	36485880	TTAGTATTTTAT/TT	TTATTCACTTCCGAC CCGA	ACCCACAAAATCAGC AAAT	60.4	461	INTERGENIC	--	--	--
Ca3_P1_36489573	Ca3	36489573	CGG/C	ATTGTGGTTGGAATT TGGA	TTGTGGATTGAAAGGA AGCC	60.0	519	DRR	Ca_00966	I	bHLH
Ca3_P1_36490446	Ca3	36490446	T/TCAC	CAGGGTCACCTGCTCA AAAT	TCCAAGATCAGTTGAC TGCG	60.1	333	DRR	Ca_00965	--	--
Ca3_P1_36492586	Ca3	36492586	AA/AATTA	GCACCATGAAAAAGAG GGAG	TATCATGGCTTTTGGC ATCA	59.7	552	INTRON	Ca_00966	I	bHLH
Ca3_P1_36499924	Ca3	36499924	TAAAAAAA/TAAAAA	CAGGAATTAATCCTTA GCGGTG	ACATGCTGTGAACGTCG TTGG	60.0	785	DRR	Ca_00967	S	--
Ca3_P1_36508488	Ca3	36508488	ATTTTT/ATTTTT	TAGTTGGAAATCGCTG ACCC	TTTGTATCAACCGTC ATTGAA	60.1	474	INTERGENIC	--	--	--
Ca3_P1_36508559	Ca3	36508559	AAATAATAATAATAA/AAATAATAA TAATAATAATAA	TAGTTGGAAATCGCTG ACCC	TTTGTATCAACCGTC ATTGAA	60.1	474	INTERGENIC	--	--	--
Ca3_P1_36512162	Ca3	36512162	AAAAAAA/AAAA	TTAAGCATGCTCCCA AAAC	GTCGAAGGCATAGTGT GCAA	60.1	348	DRR	Ca_00968	A	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_36517092	Ca3	36517092	CAATAATT/CAATAATTTTTTAAATAA AATAATT	AGGTCATCTTTCTTTG GCA	CGATGTGCGTGAGACT TTGT	58.1	473	INTERGENIC	--	--	--
Ca3_P1_36519114	Ca3	36519114	A/AC	TGATCAAGGAGTATCA CGGG	AGTAGAACAAAGCAAC GGCG	58.5	852	INTERGENIC	--	--	--
Ca3_P1_36519638	Ca3	36519638	TAAA/TATATTCAAAATTTTGAAA	CACCCTAATTAAAGTC GCCG	GTGGTCTAAGCGCCAT GTTT	59.6	466	INTERGENIC	--	--	--
Ca3_P1_36523573	Ca3	36523573	TAAAAA/TAAAAAA	CCCTCTCTTCCATT CACA	AAACACTTCGTAAAT CCTTTTCAA	60.0	337	INTERGENIC	--	--	--
Ca3_P1_36523661	Ca3	36523661	T/TTAAA	ATGGACAAGGTTCTGT GAAG	CCACTTGGCGTGAAAT CATA	60.0	875	INTERGENIC	--	--	--
Ca3_P1_36524052	Ca3	36524052	AG/A	TTTTTGAAAGGATTTA ACGAAGTG	TTAAGATGTGAGTTGG GGGC	59.9	585	INTERGENIC	--	--	--
Ca3_P1_36525432	Ca3	36525432	TAAAAAAA/TAAAAAA	TCCAAGGACTAAAACG TCCAA	TCCAAAGAGACTCATC CCAAA	59.6	519	DRR	Ca_00969	--	--
Ca3_P1_36525538	Ca3	36525538	AAT/AAAATCTTTAT	TCCAAGGACTAAAACG TCCAA	TCCAAAGAGACTCATC CCAAA	59.6	519	DRR	Ca_00969	--	--
Ca3_P1_36526855	Ca3	36526855	TA/T	AAGTCGCCAACGCAAT AAAC	CTCTTTGTGCAACAG GCAA	60.1	827	DRR	Ca_00970	--	--
Ca3_P1_36527172	Ca3	36527172	ATTTTT/ATTTTTTT	TTTGGTGTACCCAACC CACT	AAATTTGCCGTTTGG TGAG	60.1	654	DRR	Ca_00970	--	--
Ca3_P1_36528973	Ca3	36528973	GTTTTTTTT/GTTTTTTTTT	GTGGCACCTTGTTGAA GAAT	CCCATGAATGTTGGAT AGGG	60.0	875	DRR	Ca_00971	U	--
Ca3_P1_36529799	Ca3	36529799	AAAGA/AA	CCCTATCCAACATTCAT GGG	ACCAAAGTGGTGAAC TTGC	60.0	722	DRR	Ca_00971	U	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_36530182	Ca3	36530182	T/TC	GATTAGCAGGAGTGC CGAG	TCGGATCGACTCTTTG GAAC	60.0	686	DRR	Ca_00971	U	--
Ca3_P1_36533590	Ca3	36533590	ATTT/ATTTT	TTGTTATACCCCATACT TTCTTGTC	TGCGAACGATGGATGA GTAA	60.1	442	INTERGENIC	--	--	--
Ca3_P1_36548101	Ca3	36548101	CATCAA/CA	TCAATTTGGAGGACCA AAGC	TTGGATTGAACGTGCC CACA	60.1	737	DRR	Ca_00973	I	B3
Ca3_P1_36548331	Ca3	36548331	ATTTTT/ATTTT	TCAATTTGGAGGACCA AAGC	CCGGTGAAATTTATTG TGGG	60.1	992	DRR	Ca_00973	I	B3
Ca3_P1_36549137	Ca3	36549137	C/CA	TTTGATCTGTCTCCG GTCC	TATTATCGCGCTCTCG ACCT	60.1	350	INTRON	Ca_00973	I	B3
Ca3_P1_36570861	Ca3	36570861	A/AT	TACCGAATCCTTTGTC CTGC	GAGTTTGC GCGTTTAA GAGG	60.1	772	DRR	Ca_00977	--	NAC
Ca3_P1_36575996	Ca3	36575996	GTAT/GTATAT	CCATACTCAATGCAAA ATCGTT	AGAAAAACATGCGTTG TCCC	59.0	590	INTERGENIC	--	--	--
Ca3_P1_36582696	Ca3	36582696	T/TC	ACCCTCCGCTCTGTTT ACAC	AAACATCAAAACCAAC ACACTCA	60.0	328	INTERGENIC	--	--	--
Ca3_P1_36583128	Ca3	36583128	AAATTTTAA/AAA	TCTGTTTCACACCCAT CGAA	GAGCCAACAAGGGTG ATGTT	60.1	794	INTERGENIC	--	--	--
Ca3_P1_36595951	Ca3	36595951	TA/TAAA	AAAGTTTTTGGAAGT CGGA	AGAGCAAGGAAACCG AATCA	59.7	596	INTERGENIC	--	--	--
Ca3_P1_36596139	Ca3	36596139	GAAAAAA/GAAAAAA	AAAGTTTTTGGAAGT CGGA	AGAGCAAGGAAACCG AATCA	59.7	596	INTERGENIC	--	--	--
Ca3_P1_36597966	Ca3	36597966	TAAAAAAA/TAAAAAA	TAACCAACAACCGCAT GAAA	TCAATTTCTTAAAGA GGTGGA	60.0	242	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_36599433	Ca3	36599433	ATGT/ATGTTGT	CAAAGACCACTGCGT AAAA	GGACGCACCACAA CTATG	59.9	311	INTERGENIC	--	--	--
Ca3_P1_3660457	Ca3	3660457	AAATAATAATAATAATAATAAT AATAATAATAATAATAATAATA ATAATAATAATAATAATAATAA TAATAATAATA	TGAGACCGAAATTGAT TTTCCT	ATGTTGTGGGTCGG AATAG	59.9	675	INTERGENIC	--	--	--
Ca3_P1_36608541	Ca3	36608541	T/TA	TGGCTCAAAGATAGGA TGGG	CCCTTCCTCCATCAAT CTCA	60.0	315	DRR	Ca_00981	--	--
Ca3_P1_36609637	Ca3	36609637	CATATAT/CATAT	ATTGAAATGCGGGTTC TCAG	TTGATCACAACGAGGA GCTG	60.1	519	DRR	Ca_00981	--	--
Ca3_P1_36614124	Ca3	36614124	TGTA/T	TTGCATTTCAAAGTTT CGC	TGTGGCTCAACGAGA GATTT	58.9	277	INTERGENIC	--	--	--
Ca3_P1_36621274	Ca3	36621274	T/TA	TTTGAAGGTAAC TTGC CGCT	AACACGTGGACTCCAT CACA	59.9	581	INTRON	Ca_00983	T	--
Ca3_P1_36622989	Ca3	36622989	ACC/AC	GCAACAGCTTTAGAGT GGGC	TCGTATTGTCAGGGGT GTGA	60.0	518	INTERGENIC	--	--	--
Ca3_P1_36624385	Ca3	36624385	CAAAAAAAAA/CAAAAAAAAA	TGATTTCCACTGCACC ACAT	TGCAACACAAACTCCT TTGC	60.0	517	INTERGENIC	--	--	--
Ca3_P1_36624455	Ca3	36624455	ATTTTTTT/ATTTTTTTT	TGATTTCCACTGCACC ACAT	TGCAACACAAACTCCT TTGC	60.0	517	INTERGENIC	--	--	--
Ca3_P1_36624904	Ca3	36624904	GTTT/GTTTCTTTTTT	TGCAAGGAGTTTGTG TTGC	AACATAAAAGAACAGA GCGGAGA	59.9	211	INTERGENIC	--	--	--
Ca3_P1_36625021	Ca3	36625021	ATTTT/ATTTTT	TGCAAGGAGTTTGTG TTGC	TCAACGAATTGGTGAA AGAAAA	59.9	733	INTERGENIC	--	--	--
Ca3_P1_36625899	Ca3	36625899	TTATTTATTTA/T	ATTTCACTGACTGTGC CCCT	CAACAGGAAGGGAT TAGAAAA	59.7	356	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_36625958	Ca3	36625958	ATTTTTTT/ATTTTTT	ATTTCACTGACTGTG CCCT	CAACAGGAAGGGAT TAGAAAA	59.7	356	INTERGENIC	--	--	--
Ca3_P1_36626461	Ca3	36626461	TAAAAAA/TAAAAAAA	TTTTCTAATCCCCTTC TGTTG	GAGCACTCATCATGG ATCAAA	59.5	820	INTERGENIC	--	--	--
Ca3_P1_36626552	Ca3	36626552	ATTT/AT	TTTTCTAATCCCCTTC TGTTG	GCACTCACCATGCATC AAAA	59.5	901	INTERGENIC	--	--	--
Ca3_P1_36628231	Ca3	36628231	TCGTCGAAC/TC	TGAACAAAATGCACTC CAACA	TGCACGAATCACCGAG ATAG	60.1	344	DRR	Ca_00984	C	GATA
Ca3_P1_36629946	Ca3	36629946	GTATT/GTATTATT	TCCTCGGTAAAAGCCA GCTA	GTTGCTATTGCCTCAT CGGT	60.0	518	INTRON	Ca_00984	C	GATA
Ca3_P1_36634950	Ca3	36634950	TAAAAAAA/TAAAAAAA	TCTCGCTGGCTCCTTA TTGT	CATGCCACGTCATTTA AAACAT	60.0	470	INTERGENIC	--	--	--
Ca3_P1_36636712	Ca3	36636712	CTTTTT/CTTTTT	CGGATAACACTTGTTT GTGAGTTT	GTCTTTTCTTGATCCC GACG	59.5	776	INTERGENIC	--	--	--
Ca3_P1_36638153	Ca3	36638153	TG/T	TCGTCAACTCGCAACT CATC	AAAAAGCCAAACAATT CTAGAAACA	60.0	487	INTERGENIC	--	--	--
Ca3_P1_36638232	Ca3	36638232	AATTTT/A	TCGTCAACTCGCAACT CATC	AAAAAGCCAAACAATT CTAGAAACA	60.0	487	INTERGENIC	--	--	--
Ca3_P1_36639180	Ca3	36639180	TTATATATATATATATATATAT/TT ATATATATATATATATATAT	CAACGCGTGAAAGAAA CAAA	TCGGATGGGAAAACATA CTCAA	59.9	626	INTERGENIC	--	--	--
Ca3_P1_36640741	Ca3	36640741	TAAAA/TAAA	TTTACCGGAAGTAACA CCGC	AGCATTTGTGAAACAG AGGGA	60.0	439	INTERGENIC	--	--	--
Ca3_P1_36641621	Ca3	36641621	CAAAA/CAAA	TGATCTTTGAAATACG AGACAAATG	CATAAAAAGGAGGGC GACAC	59.6	557	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_36647741	Ca3	36647741	CAAAA/CAAA	TTGCCATCCATTCTG TACA	TGGTGTGGAGGAAT GTGAA	59.9	882	DRR	Ca_00985	U	--
Ca3_P1_36652224	Ca3	36652224	AATAT/A	TTCTGGTGCAAAACCA CAAG	TGAGCTGGCTTTCTTT GTGA	59.7	935	DRR	Ca_00986	--	bZIP
Ca3_P1_36652485	Ca3	36652485	CAAAA/CAAA	TACGGATTGCCATTCT CGAT	CCACAACACGTCACGC TAGT	60.4	760	DRR	Ca_00986	--	bZIP
Ca3_P1_36652542	Ca3	36652542	ATTTTTTT/ATTTTTTTT	TACGGATTGCCATTCT CGAT	CCACAACACGTCACGC TAGT	60.4	760	DRR	Ca_00986	--	bZIP
Ca3_P1_36652791	Ca3	36652791	TGGG/TG	TCACAAAGAAAGCCAG CTCA	TCCAGAGCTTTTCATG GCTT	59.7	451	DRR	Ca_00986	--	bZIP
Ca3_P1_36652888	Ca3	36652888	CAATTAATTAATTAATTAATT/CAATTA ATTAATTAATT	ACTAGCGTGACGTGTT GTGG	TCCAGAGCTTTTCATG GCTT	59.8	296	DRR	Ca_00986	--	bZIP
Ca3_P1_36653994	Ca3	36653994	CAAAAAA/CAAAAAA	ACTGACAACGGCATT TGGA	TGAATCCCATAATGAA GCCA	59.1	393	INTERGENIC	--	--	--
Ca3_P1_36654116	Ca3	36654116	TAGACTAA/T	CTGGCATTGGAATGT TGAG	GATGGCTCCAAAAATA GCCA	59.1	867	INTERGENIC	--	--	--
Ca3_P1_36654185	Ca3	36654185	ACT/ACTCT	TGGCTTCATTATGGGA TTCA	GGCTCCAAAAATAGCC AACTT	58.9	499	INTERGENIC	--	--	--
Ca3_P1_36654407	Ca3	36654407	CTT/CTTT	TGGCTTCATTATGGGA TTCA	GGCTCCAAAAATAGCC AACTT	58.9	499	INTERGENIC	--	--	--
Ca3_P1_36656553	Ca3	36656553	CG/C	GAAATGCACGTTGCAA TCAC	CGAATGAGCAACTTTT GTCG	60.1	278	INTERGENIC	--	--	--
Ca3_P1_36670189	Ca3	36670189	CATA/CA	CAGAGCCCCAAAAAT TCAT	GTTGGTTATGCGCAGA CTGA	59.9	604	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_36675129	Ca3	36675129	GC/G	TTCAAGCTTCCTTGC GTTT	GCATGAACGCTAACAA ATGG	60.0	417	INTERGENIC	--	--	--
Ca3_P1_36682594	Ca3	36682594	GTTTTTTTTT/GTTTTTTTTT	TTCATCGATGTTCCGA CAAA	CCAACTCGGTTCAATT ACTCG	60.0	536	INTERGENIC	--	--	--
Ca3_P1_36688981	Ca3	36688981	TTCTTTATCTTTATCTTTATC/TTCTTT ATCTTTATCTTTATCTTTATC	AGGGGAGACAACCATA GGCT	GTGATGTGATTGGCTG GTTG	60.0	862	DRR	Ca_00990	O	C3H
Ca3_P1_36696855	Ca3	36696855	TA/TAA	CGGTACATGGACCTCA CTCC	CAAGCAAATATGGTCA CTACCAG	60.4	395	INTERGENIC	--	--	--
Ca3_P1_36697642	Ca3	36697642	ATT/AT	CGACGCATATTTCAA TGACTT	TCTTTTGCAACAGGT TGGT	59.1	634	INTERGENIC	--	--	--
Ca3_P1_36697708	Ca3	36697708	AC/A	CGACGCATATTTCAA TGACTT	AGTTGCATGCTTCTTT TGGC	59.1	645	INTERGENIC	--	--	--
Ca3_P1_36699717	Ca3	36699717	TAAAAA/TAAAAA	TGCCGTATAATCATGC AACC	TGTGTGTTTGTAATC TTAGCG	59.4	759	INTERGENIC	--	--	--
Ca3_P1_36700036	Ca3	36700036	TAG/TAGTAGGGGTTAAG	CACAGGGAATAGAGAT AAAGGCA	CTCCAACATCAAACGC AAGA	59.6	484	INTERGENIC	--	--	--
Ca3_P1_36702720	Ca3	36702720	CATTACTTTT/CATTACTTTTATGGAAT TACTTTT	GTCGTGGATTCAAATT CCGT	AGGGCCGACTCTACC AGATT	59.8	662	INTERGENIC	--	--	--
Ca3_P1_36707043	Ca3	36707043	CT/C	CTCCTCCCAGTGGTAA CAAA	CAGTGAAAAATTGAAT CCCCA	57.6	595	INTERGENIC	--	--	--
Ca3_P1_36707318	Ca3	36707318	TA/TAAA	CAAAAACAGTTTGGGG ATTCA	CATTTGACCTTACGTC CATCC	59.8	502	INTERGENIC	--	--	--
Ca3_P1_36707636	Ca3	36707636	TTTTATTATT/TTTTATTATTATTATTA TT	CAAAAACAGTTTGGGG ATTCA	GATGATGGAAGGGGA TGAGA	59.8	868	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_36713668	Ca3	36713668	TTT/TTTCTT	TGAGAAAGGCATGCAAGATG	AACGCATCCAGTGATCAACA	59.9	568	INTRON	Ca_00995	O	MYB
Ca3_P1_36716273	Ca3	36716273	CAAAAAA/CAAAAAA	TTTGTCTGCCATAGCATT	CGGTCACCCCTCAAATAAAA	60.5	734	DRR	Ca_00995	O	MYB
Ca3_P1_36716479	Ca3	36716479	GTTGAGATTGAGATTGAGA/GTTGAGATTGAGA	CCACCATTGAAGAGATGGG	CGGTCACCCCTCAAATAAAA	60.5	512	DRR	Ca_00995	O	MYB
Ca3_P1_36716843	Ca3	36716843	GC/G	TTTTTTTGGGGTGACCG	GATGGATTGGTCGTGAGGTT	59.8	554	DRR	Ca_00995	O	MYB
Ca3_P1_36724118	Ca3	36724118	AG/A	AATAGGGGAGAGAAAGCCCA	TGACTGCAATCATGTGTGA	60.0	787	DRR	Ca_00996	--	--
Ca3_P1_36724181	Ca3	36724181	TAA/TAAA	AATAGGGGAGAGAAAGCCCA	TGACTGCAATCATGTGTGA	60.0	787	DRR	Ca_00996	--	--
Ca3_P1_36726574	Ca3	36726574	TCC/TC	CATTTTTCATCCCAACCACC	TGTCACACGAACATCAATCAA	60.0	598	INTERGENIC	--	--	--
Ca3_P1_36727040	Ca3	36727040	ATTTTT/ATTTTTT	TGATTTGATGTTCTGTGTGACAA	GCATCTCACGAGGGCTACAT	60.0	513	INTERGENIC	--	--	--
Ca3_P1_36728882	Ca3	36728882	CTA/C	TGACGTGTAATGGTGTGATGA	AAAAAGAAATGCAACATGGGC	58.4	533	INTERGENIC	--	--	--
Ca3_P1_36729235	Ca3	36729235	TAAAAA/TAAAAA	TTGGGCCAAATTAACCTCTC	AAAAAGAAATGCAACATGGGC	59.0	454	INTERGENIC	--	--	--
Ca3_P1_36729751	Ca3	36729751	GAACTCCCTTAA/GAA	ACTTGCAAGCAAGGAAGGA	ACAGTATTGCCCTCGTTTGG	60.0	622	INTERGENIC	--	--	--
Ca3_P1_36731868	Ca3	36731868	TATAATAATAATAATAAT/TATAATAATAATAATAATAATAAT	CAGCTCCAGTCCTTTCTG	CAACAAAATGCGAAAGGTT	60.0	333	DRR	Ca_00997	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_36735649	Ca3	36735649	T/TA	TACGTGGCCTATTAGG TGGC	TCCATGGCATATAAGT ATTGTT	60.0	388	INTERGENIC	--	--	--
Ca3_P1_36735770	Ca3	36735770	AATAAATAAATAAATAAATAAATA /AATAAATAAATAAATA	TACGTGGCCTATTAGG TGGC	GCATATGGTGATTGCT GACTCT	60.0	648	INTERGENIC	--	--	--
Ca3_P1_36735874	Ca3	36735874	TAAAAAA/TAAAAA	TACGTGGCCTATTAGG TGGC	CGGCGGAGTCAGGTA ATAAA	60.0	834	INTERGENIC	--	--	--
Ca3_P1_36735945	Ca3	36735945	AT/ATT	TACGTGGCCTATTAGG TGGC	ATGGGTAACCGGGTG TATCA	60.0	874	INTERGENIC	--	--	--
Ca3_P1_36736757	Ca3	36736757	ATTTTTTT/ATTTTTTT	ATACACCCGGTTACCC ATCA	CCACTTTTCTTCGCCT CTTG	59.9	486	INTERGENIC	--	--	--
Ca3_P1_36743589	Ca3	36743589	AT/A	AAAAGGGACCATGCAT TTTG	CACTTTGCCTCCTTCT CGAC	59.8	516	INTERGENIC	--	--	--
Ca3_P1_36744974	Ca3	36744974	ATTT/ATTTGTTTT	TGTGGACAGGTGCTTA GCTG	GCAATCAAATCAAAT ACGGG	60.0	629	INTERGENIC	--	--	--
Ca3_P1_36746091	Ca3	36746091	CTCTGA/CTCTTGAATCTTGA	AACGGGGCGAAGATCT TTAT	TGAGTTTTGTACACCG CTGC	59.9	199	INTERGENIC	--	--	--
Ca3_P1_36746609	Ca3	36746609	AT/ATCT	GCAGCGGTGTACAAAA CTCA	ATCCAGAAGGTCAACG TCCA	59.9	854	DRR	Ca_00998	--	C2H2
Ca3_P1_36749120	Ca3	36749120	GTATTATTATTATTA/GTATTATTATTA TTATTA	GTCACAGGTAGCTTGC CTCC	TGTCTTTAACAGTTTC CAAAACCA	59.9	516	INTRON	Ca_00998	--	C2H2
Ca3_P1_36749610	Ca3	36749610	TAAAA/TAAAA	TGTTTTTGAACTGT TAAAGACA	AATGATCCTCGAATTG CTGG	59.9	251	INTRON	Ca_00998	--	C2H2
Ca3_P1_36750142	Ca3	36750142	CTTTTTTT/CTTTTTT	GCCACACAAGATACCAG CAAT	AAACTGTGTCCTTCT TTGC	60.0	815	INTRON	Ca_00998	--	C2H2

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_36750458	Ca3	36750458	CT/CTT	ACTGTTGCATCTGCT GACG	AAACACTGGTCCCACT TTGC	60.1	614	INTRON	Ca_00998	--	C2H2
Ca3_P1_36751667	Ca3	36751667	GTTTTTTTTT/GTTTTTTTTT	TAACATCCATGGCCTC ACAA	TGAAGTCACTAAGCA ACCGC	59.9	376	INTRON	Ca_00998	--	C2H2
Ca3_P1_36751775	Ca3	36751775	C/CCTATTACAAGGAAA	TAACATCCATGGCCTC ACAA	CGGTTTGTCTTTGGAT AATGG	59.9	835	INTRON	Ca_00998	--	C2H2
Ca3_P1_36751932	Ca3	36751932	AT/A	TTTTATTCAACCGGAC CGAC	CGTAGCCAAGTTGAT TCGT	59.8	801	INTRON	Ca_00998	--	C2H2
Ca3_P1_36752520	Ca3	36752520	AAGTAGTAGTAGTAGTA/AAGTAGTAG TAGTAGTAGTA	ACGAATCAACTTGGCC TACG	AGGGCAATGTACAATG GAGG	60.1	602	INTRON	Ca_00998	--	C2H2
Ca3_P1_36756795	Ca3	36756795	TAAAAA/TAAAAA	AAGTGCTTGTGCTGG AGTG	TCGTGCGCATCAAAA CAAAA	59.1	529	INTERGENIC	--	--	--
Ca3_P1_36759627	Ca3	36759627	ATTTT/ATTTT	GATGTTGTCGAGATG AGGA	TGCCTTCAAGCAAAA CTGA	59.8	644	INTERGENIC	--	--	--
Ca3_P1_36761749	Ca3	36761749	TATAAAACCTAATAAAA/TATAAAA	TGGGCTGTGAAATACA ACGA	CCGAATTTAAGCATT GGGA	60.1	816	INTERGENIC	--	--	--
Ca3_P1_36768446	Ca3	36768446	GTTTTT/GTTTTT	TGCACGGAGGCTTTTA TTTT	TCAAGGGTCACTTGCT TTTT	59.7	568	INTERGENIC	--	--	--
Ca3_P1_36768741	Ca3	36768741	AAA/AAAGTAATAAAGGGAA	CCACATGCAACAAAA TTCA	CTTTTCTCCGTGTGTT GCAC	58.0	877	INTERGENIC	--	--	--
Ca3_P1_36770528	Ca3	36770528	AT/ATATGAGCAGAAGT	GGCTGCCACAATTTG ATTT	TCATCTGAACAGCACT GCAA	59.9	344	INTERGENIC	--	--	--
Ca3_P1_36770611	Ca3	36770611	TTAT/TTATAT	GGCTGCCACAATTTG ATTT	TCATCTGAACAGCACT GCAA	59.9	344	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_36771840	Ca3	36771840	TC/T	ACTTAGTCATCGGCC ACAC	TGGTCCGTTAAATGGT GTCA	60.0	571	INTERGENIC	--	--	--
Ca3_P1_36772843	Ca3	36772843	CATATATATATATA/CATATATATAT A	GTTAGTGCCGACCACT TGCT	TTTCAATTTTGTCTGC CGTG	60.3	301	INTERGENIC	--	--	--
Ca3_P1_36773118	Ca3	36773118	TTAT/TTATCTAT	ATTTGCTTTCCTTCACA CGG	CAAGATTATCCGATAG ACAATATCCA	60.1	393	INTERGENIC	--	--	--
Ca3_P1_36877810	Ca3	36877810	TTATATATATATATATATATATATAT ATATATAT/TTATATATATATATATATAT ATATATAT	CGTGCTTCTACCCGT TCAT	TAGTTTCCTGCGCTC AGGT	60.1	874	INTERGENIC	--	--	--
Ca3_P1_36932559	Ca3	36932559	GAIAAAAAAAAA/GAIAAAAAAAAA A	GTTACGATTTTCATTG GCGA	CTTTGGTATGTTGGGC CTGT	58.6	917	DRR	Ca_01018	--	WRKY
Ca3_P1_36986782	Ca3	36986782	AACT/A	TTTCAAGGTGTGTTCA CCGA	TCTTACACCTCTTCGG GTGC	60.1	502	DRR	Ca_01027	U	C2H2
Ca3_P1_37000758	Ca3	37000758	TTAACTAACTAACTAACTAAC/TTAACT AACTAACTAAC	TGTGTGCTAACCAAT GCAAA	TGAATTGGATGCATCA TCGT	60.2	664	INTRON	Ca_01028	--	--
Ca3_P1_37017817	Ca3	37017817	AATATATATATATATATATATATATA TATATATA/AATATATATATATATATAT ATATATATATATATATATATATATATA	CAGAAGGCCAGGAGAA GAAA	TGTGCGTGAAGTTTCA TGGT	59.5	707	INTERGENIC	--	--	--
Ca3_P1_37030222	Ca3	37030222	AATATATATATATATATATATATATA /AATATATATATATATATATATATATAT ATATA	GAAAAGCCCATTITGT CTCG	AAAGGTTTGAAAATGG ATGGTC	59.7	593	DRR	Ca_01031	G	C3H
Ca3_P1_3704345	Ca3	3704345	TAAAAA/TAAAAA	TGGCAAGGAAATGACT CACA	GCAGATTGTGGGTTTG ATTG	60.2	944	DRR	Ca_21343	A	--
Ca3_P1_37047269	Ca3	37047269	ATTTTTTTTT/ATTTTTTTTT	CAGTTTTTCAGAGTTGC ATTTTCA	ATGAATGAAGGGGCT GAATG	59.4	474	INTERGENIC	--	--	--
Ca3_P1_370773	Ca3	370773	CTT/CT	GCGTTTTCCAGAAGT CTTC	TCAAGGCTAACTCCCA AGGA	60.0	796	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_37078968	Ca3	37078968	CT/C	GGAAAGTAGTGTCTG CGCT	AATGGAGTGCCAGACA AACC	59.8	556	INTRON	Ca_01034	R	--
Ca3_P1_3712841	Ca3	3712841	CATATATATATATATATATATAT/CA TATATATATATATATATATAT	TGACACACCCACCCAC TAAA	GACTGAGATGATGATT CACTTTGC	59.8	520	INTERGENIC	--	--	--
Ca3_P1_37150587	Ca3	37150587	GAAAAAAAAA/GAAAAAAAAA	TGCTTGCGTGAAATT GAAA	TCCCATGTTCCGTATA TCCA	60.4	554	INTERGENIC	--	--	--
Ca3_P1_37150967	Ca3	37150967	ATTTTTTT/ATTTTTTTT	TTTTGCTTGCGTGAAA ATTG	CCAAATGATAATCCAT GGGC	59.9	604	INTERGENIC	--	--	--
Ca3_P1_37191129	Ca3	37191129	TAAAAAAAAA/TAAAAAAAAA	TGGTTTCATTATCTTT TGCAG	GCCCAATCAACCCAT TTTA	60.1	445	INTERGENIC	--	--	--
Ca3_P1_37208667	Ca3	37208667	TAAAAA/TAAAAA	CTCAACCCTTACGGTG CAAT	TCAATTGGTCACGTAA TTAACAAAA	60.0	301	INTERGENIC	--	--	--
Ca3_P1_3731004	Ca3	3731004	AACAGGTT	CAGCTCCAGTTGCAA TGTA	GCCCTCTATGGGTGA AACA	59.9	656	INTERGENIC	--	--	--
Ca3_P1_37356302	Ca3	37356302	TGG/TG	TGGTTGATCACCCGAA TACA	AACAAACCCCAACCAC ATTA	59.8	544	INTRON	Ca_01069	--	--
Ca3_P1_37360401	Ca3	37360401	AATATATATATATATATATAT/AA TATATATATATATATATATATATA TATATAT	TTGGCCCATCTTAGG TTGC	CAATGGTTTGAACCT GCTT	60.0	809	DRR	Ca_01069	--	--
Ca3_P1_37377986	Ca3	37377986	TCTCTCTCT/TCTCTCTCTCACTCTCT CT	ACCTCAGATTCAAAC GTGC	GCTGCATTGTGGATAA GGGT	60.1	425	INTERGENIC	--	--	--
Ca3_P1_37384200	Ca3	37384200	GAAAAAAAAA/GAAAAAAAAA	GGTTGACCGACAAAT CGAG	TCTTGTAGCCAATCCA ACCA	60.5	826	INTERGENIC	--	--	--
Ca3_P1_37428682	Ca3	37428682	T/TGGA	TTGAGGATCAGCTACA CCCC	TGGAACAATTTGGTG GTGA	60.1	546	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/P)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_37475199	Ca3	37475199	TAAAAAAAAA/TAAAAAAAAA	TGGCATTGGTTGAATC AAGA	ATACTTTAAGCTGCCG CCAA	60.0	519	DRR	Ca_01082	D	--
Ca3_P1_37484993	Ca3	37484993	TATAATAATAATAATAATAATATTA ATAATAATA/TATAATAATAATAAT AATATTAATAATAATA	CCCGCGTAAATATCAA TGCT	GGTGGTGGTTTGGAC GTAAC	60.0	482	INTERGENIC	--	--	--
Ca3_P1_37494243	Ca3	37494243	GATATATATATATATATATA/GATATAT ATATATATATA	GCAATTGGAATCAAAAT GTTGG	TTTCTACGCACCCTCA AAGC	60.2	441	INTERGENIC	--	--	--
Ca3_P1_37495861	Ca3	37495861	AATATATATATATATATATATATATA TA/AATATATATATATATATATATAT ATATATATATATATATATATA	GGTGTGTGTTGTTGG CATT	TGTTGCGAGATAGATC TTCACCT	59.3	464	INTERGENIC	--	--	--
Ca3_P1_37552722	Ca3	37552722	ATATTATTATTATTATTATTATTATT TGTTATTATCATTATTATTATTATTATT ATT/ATATTATTATTATTATTATTATT TGTTATTATCATTATTATTATTATTATT ATT	ATTGTTGCTGGGCTTT ATGC	TGAACCTGGCGTGAGA GTTG	60.1	727	DRR	Ca_01090	--	ERF
Ca3_P1_37594905	Ca3	37594905	TTATATATATATATATATATATA/TTA TATATATATATATATATATATA	GTCCGCCCTAAAAAGG TAGC	TCAAAACACCACATCA AAACG	60.1	188	INTERGENIC	--	--	--
Ca3_P1_37700532	Ca3	37700532	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA	CCCTCCAATTTCAAGG GTTT	GCTTGTGCTTGTTC TTCC	60.2	714	INTERGENIC	--	--	--
Ca3_P1_37719525	Ca3	37719525	GCCC/GCC	TTGGGTCAAGAATTCA TCTCG	CCCAAAATGTGGCTTG AAAT	60.1	581	INTERGENIC	--	--	--
Ca3_P1_3777234	Ca3	3777234	AATAATAATAATAATAATAATAATA TAATAATA	TCTCTGGCAACCGTTC TTCT	GAGCTGTGCTCTGGCA ATCA	60.0	594	DRR	Ca_21336	--	--
Ca3_P1_37828643	Ca3	37828643	CCAGAC/CC	GGGAATAGGCTAGACC GTCC	GCTTGGCCTACGACCT ATCA	59.9	512	INTERGENIC	--	--	--
Ca3_P1_378382	Ca3	378382	CTTTTTTT/CTTTTTTTTT	ATTCCAACCAAAACC CTCC	TTAAATAGGCTCCAG GCCA	60.0	220	INTERGENIC	--	--	--
Ca3_P1_37902152	Ca3	37902152	GT/GTGCCT	GCTTTCAAATGCAATT GGTTC	TTGTTGAGTGTGTGG TTGGA	59.6	744	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_37955104	Ca3	37955104	TAAAAAAAAA/TAAAAAAAAA	AAGTCTTCCAGAAC ATGG	GCTTCAATGACATCG CTGA	57.8	543	INTERGENIC	--	--	--
Ca3_P1_37977625	Ca3	37977625	AAATAATAATAATAATAATAAT AAT/AAATAATAATAATAATAATA TAAT	TCCTGGTCTAGAGTGC GACC	AGAGGCAAGCAGAAA CCAAA	60.4	435	INTERGENIC	--	--	--
Ca3_P1_37989883	Ca3	37989883	GTATATATATATATATATATAT ATATATATATATATATATATATA	TGTCACGGGTGACAA ATTA	TAGGCGATTGTAGGG CTTTG	59.8	749	INTERGENIC	--	--	--
Ca3_P1_38001736	Ca3	38001736	CTTTTTTTTT/CTTTTTTTTT	TTTACCAAGCACAGCT CCAA	GGATGATGATTAATTT TATGGGG	59.5	480	INTERGENIC	--	--	--
Ca3_P1_38007052	Ca3	38007052	ATATATATGTATAT/ATATAT	CCATGATCCAAGTTC AAAC	CTTCTCCAACAAGAGC GACC	59.0	693	INTERGENIC	--	--	--
Ca3_P1_38007387	Ca3	38007387	TTCTCTCTCTCTCTCTCTCTCT/ TTCTCTCTCTCTCTCTCTCTCTC T	AAACAATACGCAAAAC GGAG	CTTCTCCAACAAGAGC GACC	60.0	245	INTERGENIC	--	--	--
Ca3_P1_38073514	Ca3	38073514	CAAAAAAAAAAAAA/CAAAAAAAAA AA	CTTCTGAATGGGTTTG GTGG	ATGGACTCAATTGGGA GTGG	60.3	439	DRR	Ca_01151	DL	--
Ca3_P1_38129457	Ca3	38129457	CATATATATATATA/CATATATAT ATATATA	CAAAAGCCGACCAAA ATTA	GGGCATGGGCAATAAT CTAA	59.9	398	INTERGENIC	--	--	--
Ca3_P1_38139076	Ca3	38139076	A/AC	TTGCATTAACTTGAAC GTTTTT	TCAGGCCAACCCAGTA CATT	58.0	416	INTERGENIC	--	--	--
Ca3_P1_38141259	Ca3	38141259	TTA/T	GGAAAGTCATGATGTC CTTTTT	GTCATTGTAAATGGC GGCT	57.2	436	INTERGENIC	--	--	--
Ca3_P1_38141514	Ca3	38141514	ATTTTT/ATTTTTTT	CCGCCATTACAAATG ACACT	TCGTCAAATTATTTA GCGCAT	59.9	536	INTERGENIC	--	--	--
Ca3_P1_38141558	Ca3	38141558	CTT/CTTT	CCGCCATTACAAATG ACACT	TGGTTATGGAAAATTG CACG	59.9	602	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_38145525	Ca3	38145525	AT/ATT	CTGATCTGGAGGTCTC TCGC	AAATTGGCACAGAAGG GTTG	60.1	545	INTRON	Ca_01158	C	--
Ca3_P1_38148366	Ca3	38148366	AA/AAAGAGTATA	TGCTAATTCTCGTAT GGGC	CAACAGCAAAAGCTG TCCA	60.1	572	INTRON	Ca_01158	C	--
Ca3_P1_38149944	Ca3	38149944	GACTTTACTTTACT/GACTTTACT	AGTTATTACATGCGGC AGGG	TTAACCATGTGTCAAG GTCG	60.0	287	DRR	Ca_01158	C	--
Ca3_P1_38149993	Ca3	38149993	ATTA/ATTAACCTTA	AGTTATTACATGCGGC AGGG	GCCAAACAGTGTGTGA ATTCTG	60.0	752	DRR	Ca_01158	C	--
Ca3_P1_38154708	Ca3	38154708	CGGAGGA/CGGAGGAGGA	AGAGCGGAAAAGTTAT CGCA	TTCATGTTGTCCCTTT TGACA	60.0	477	DRR	Ca_01160	L	MYB_related
Ca3_P1_38162716	Ca3	38162716	GTTTT/GTT	GCAAGTTCGGATGTT GATT	AGGCGGAAATTCCTT CAAT	60.1	748	INTRON	Ca_01160	L	MYB_related
Ca3_P1_38164329	Ca3	38164329	TG/TGAGAGAGAG	TATCCCCAATTCCTA GCC	CAAGATGCTGGCACA GAAAA	60.1	740	INTRON	Ca_01160	L	MYB_related
Ca3_P1_38170265	Ca3	38170265	TAA/TA	CCCAGATCTGCCTAAT GGAA	GATGGGTTTGAACAT CCAG	60.0	594	INTRON	Ca_01160	L	MYB_related
Ca3_P1_38170383	Ca3	38170383	CAGTAGTA/CAGTA	ATAGAATCTGGCATGG GGTG	TTCAGCCACTGCATT GTTT	59.8	789	INTRON	Ca_01160	L	MYB_related
Ca3_P1_38171480	Ca3	38171480	TTTC/TTTCTAGTAAGAAGTATTC	ATCTACAAGCTTCCTC GCCA	GCTGGTTCAACGAGAC AACA	60.0	645	INTRON	Ca_01160	L	MYB_related
Ca3_P1_38172415	Ca3	38172415	ACC/AC	TTTCAAACGTAATG GGAA	CCAGAAAACCTGCTTG CACA	59.2	743	INTRON	Ca_01160	L	MYB_related
Ca3_P1_38174447	Ca3	38174447	A/AT	TTACATCCACACTCAT CGG	CTGGCACTGGCATTCC TAAT	60.5	628	DRR	Ca_01161	--	NF-YA

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_3818047	Ca3	3818047	GT/GGAT	ATGCTCTGCACTTGCA GCTA	TTCATCGCCTCAAAGT GTTG	59.9	707	INTERGENIC	--	--	--
Ca3_P1_38182684	Ca3	38182684	ATTT/ATTTATTAATAATTTTTT	TCGTGTGTGCACCCTG TTAT	GGTTTTGCCAACATCT GCTT	60.0	647	INTERGENIC	--	--	--
Ca3_P1_38182761	Ca3	38182761	TTGATATGATAT/TTGATAT	AAACAACGTCATGAAG AAAATTGA	GGTTTTGCCAACATCT GCTT	59.9	606	INTERGENIC	--	--	--
Ca3_P1_38182839	Ca3	38182839	AGTGTGTGTGTGTGTGT/AGTGTGTG TGTGT	AAAGCGCTTTTCATTAA TAGTGTGTG	GGTTTTGCCAACATCT GCTT	60.0	319	INTERGENIC	--	--	--
Ca3_P1_38183210	Ca3	38183210	TTAAATTAATAAATTAATAAA/TTAAAT TAATAAA	AATCAAGCAAGCCGTT GACT	TAAAGGTTTGTGCGT GTCG	59.9	356	INTERGENIC	--	--	--
Ca3_P1_38184945	Ca3	38184945	T/TG	AAGAAGAGAGGTTGGA GCCC	CTGGCTTGTGAACCCA AAAT	59.8	143	DRR	Ca_01162	--	--
Ca3_P1_38185117	Ca3	38185117	TTAT/TT	ATTTTGGGTTCAAG CCAG	CAATTGGTGTAGGCC ACCT	60.0	497	DRR	Ca_01162	--	--
Ca3_P1_38187108	Ca3	38187108	C/CT	GTAAAGGGTTCCTCCT TCGC	GAAGACTCCAGCTTGC CATC	60.1	400	INTRON	Ca_01162	--	--
Ca3_P1_38198339	Ca3	38198339	CAATAATAAT/CAATAAT	TCGCACAATCAACCT CAAG	CTTATGTGCCGCTCAA CGTA	59.8	412	INTERGENIC	--	--	--
Ca3_P1_38201045	Ca3	38201045	CTTTTTTT/CTTTTTTT	CCCCCTTTCCCTGTG TTAT	TTGTGCTGCCAAACTG AAAG	60.0	952	INTRON	Ca_01163	E	--
Ca3_P1_38204385	Ca3	38204385	TTCTC/TTCTC	GCCCCGATACCATCCT ACTT	TGCCCAGGTTACATAT GGGT	60.2	396	INTRON	Ca_01163	E	--
Ca3_P1_38204961	Ca3	38204961	GAAAAAAAA/GAAAAAAAA	TTTGTCTGTGTGTTC ATGA	GACAAAGCAGCTACTG GAGGG	59.9	904	INTRON	Ca_01163	E	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_38205894	Ca3	38205894	TAAAAAAAA/TAAAAAAAA	ACAACACTCGGCCTAT CACC	CTCCCCCTTCTCCAGG ATAG	60.0	768	DRR	Ca_01163	E	--
Ca3_P1_38206155	Ca3	38206155	TGGGGGG/TGGGGGGG	GCATGCTGCCCATACC TATT	CTCCCCCTTCTCCAGG ATAG	60.0	691	DRR	Ca_01163	E	--
Ca3_P1_38206248	Ca3	38206248	GCCC/GCCCC	GGCATTCAAATCCAAT TGCT	CTCCCCCTTCTCCAGG ATAG	59.9	179	DRR	Ca_01163	E	--
Ca3_P1_38206711	Ca3	38206711	GAAAAAAAAA/GAAAAAAAAA	CTATCCTGGAGAAGGG GGAG	GCTATTGCATTGGAGT TGCTC	60.0	706	DRR	Ca_01163	E	--
Ca3_P1_38206767	Ca3	38206767	AAGAG/AAG	CTATCCTGGAGAAGGG GGAG	GCTATTGCATTGGAGT TGCTC	60.0	706	DRR	Ca_01163	E	--
Ca3_P1_38212764	Ca3	38212764	CTTGTTT/CTT	ATGCAGACTTTGCTGC TCAA	TCAGAGGGATCGGAC ATAGG	59.7	267	INTRON	Ca_01164	T	WRKY
Ca3_P1_38215897	Ca3	38215897	CTT/CTTCTTTCATT	TGTTGCCTGGAATGA GTTG	TGCTGCATTGAAATCG AGTC	59.7	688	DRR	Ca_01165	R	--
Ca3_P1_38219148	Ca3	38219148	A/AC	CTACCGGCTACTTTCT TGCG	TATGCATGGTGAAAA GCGA	60.0	463	DRR	Ca_01166	Z	B3
Ca3_P1_38221107	Ca3	38221107	TCTCCTC/TCTC	CCACTGGTGGATTGAG AGGT	GAGAACTCATGTGCCG GAAT	60.0	566	CDS (large-effect mutations)	Ca_01166	Z	B3
Ca3_P1_38225159	Ca3	38225159	TAGAGAGAGAGAG/TAGAGAGAGAG GAG	TTAGAGAACGGAAC TGCC	ACAGGTTGGTTTCTTG TCCG	59.3	363	INTRON	Ca_01166	Z	B3
Ca3_P1_38225828	Ca3	38225828	TAA/TA	CCACCATCCTTGTGCT TTTT	CCCCTCTCCACGTTT AGTT	60.0	444	DRR	Ca_01167	R	--
Ca3_P1_38226041	Ca3	38226041	GTTTTTTT/GTTTTTTT	AACTAAACGTGGGAGA GGGG	TTTGAGAGGTTGGATG AGCC	60.4	565	DRR	Ca_01167	R	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_38228425	Ca3	38228425	A/AGTGTGAATAC	ATGATCCACTGAGATT CCGC	CCAGAGTGTGACGCTT TTGA	60.0	472	DRR	Ca_01168	R	bHLH
Ca3_P1_38240356	Ca3	38240356	TCCCC/TCCC	GTGGTGAGTTCAGTTC CGGT	ACCGTTAGAGGAGAG GAGCC	60.0	475	INTERGENIC	--	--	--
Ca3_P1_38241149	Ca3	38241149	A/AAT	GGCTCCTCTCTCTAA CGGT	GACAAGTGCAACAATT TTCATCA	59.8	527	INTERGENIC	--	--	--
Ca3_P1_38241297	Ca3	38241297	TTTATT/TTT	TTGATGAAAATTGTTG CACITG	TTGCTAACACAAAAGT ATTGAATGTC	58.7	189	INTERGENIC	--	--	--
Ca3_P1_38305310	Ca3	38305310	CATATATATATATATATA/CATATATAT ATATATATATATA	ACCCACTCGTCCAAA ATCA	CCAAAAATCGTCTCCT TGGT	60.4	190	INTERGENIC	--	--	--
Ca3_P1_38373609	Ca3	38373609	TAATAAATA/TAATAAATAAATA	GCATTTGACAAGGTAT CGCA	TCAGTTGCTGCAATCG AAAC	59.7	626	INTRON	Ca_01188	S	--
Ca3_P1_38406107	Ca3	38406107	AATATATATATATATATATAT/AATA TATATATATATATATATATATAT	CTCTCAAAGTGCTGAA GAGACC	GGGACTGCATACCAAT AGCTG	58.3	775	INTERGENIC	--	--	--
Ca3_P1_3841127	Ca3	3841127	A/AAT	CATGAAATAATGGGG TTGC	TGGGGTCCATGTACCA CTTT	60.0	410	INTERGENIC	--	--	--
Ca3_P1_3847338	Ca3	3847338	CATATATATATAT/CATATATATATATA TAT	AGGAAGAGTGGAGTTG CGAA	ATTTTGGTTCGGAGGC TTTT	60.0	496	INTERGENIC	--	--	--
Ca3_P1_38618211	Ca3	38618211	TAAAAAAAA/TAAAAAAAAA	ATGAGGAACGAAACCG ACAG	TTTTCAGCACATTCTTT TTGG	60.1	632	INTERGENIC	--	--	--
Ca3_P1_38690322	Ca3	38690322	AATATATATATATATATATA/AATAT ATATATATATATATATATATATA	GAAGCAGGGAGGAGG AAAAC	TGTCAATGAGGATTAT GCCAA	60.2	910	DRR	Ca_01224	K	Trihelix
Ca3_P1_38710158	Ca3	38710158	TAAAAAAAA/TAAAAAAAAA	AAAGAGTGAAGCACGA GGGA	TTTCAACTGACCCGCA TGTA	60.0	666	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_3874106	Ca3	3874106	ATTTTT/ATTTTTT	TATGGGATCGGAAT CAAA	GATGTGCGAAAGCAA GACAA	60.1	687	INTERGENIC	--	--	--
Ca3_P1_3876327	Ca3	3876327	AAATAATAATAATAATAGTAA TAATAATAATAATAAT/AAATA ATAATAATAATAATAATAATA GTAATAATAATAATAATAATAAT	TCAAACCGGGTGTA GGT	CAAAATTTAGGCCGC GATA	60.2	371	INTERGENIC	--	--	--
Ca3_P1_38764047	Ca3	38764047	TAAAAATAAA/TAAAAATAAAATAA AA	TGGGCTCCGAGAGTCT TATG	CGTGATTAATCGCTA CCGT	60.4	253	DRR	Ca_01234	--	bZIP
Ca3_P1_38788717	Ca3	38788717	GTATATATATATATATAT/ATATATA TATATATATAT	GGCTAAACAAAGGGAA CGGT	TTATTGCCAACAGCA ACCA	60.4	581	DRR	Ca_01237	R	--
Ca3_P1_38801200	Ca3	38801200	CTTTTTTTTT/CTTTTTTTTT	TCTTGGGAAAAAGTTA CGAATCTC	CGTCAATGAAGAAGT GCAA	60.0	905	INTERGENIC	--	--	--
Ca3_P1_3881329	Ca3	3881329	AAAAATATATAAAATATATAAAATA/AA AAATATATAAAATATATAAAATATAA AATA	AGGTAGGCAAGTCTGA GGCA	CAACGCATGACCAAG ACAG	60.0	773	INTERGENIC	--	--	--
Ca3_P1_38870959	Ca3	38870959	AAATAATAATAATAATAATAAT AATAATAATAATAATAATA/AAATAAT AATAATAATAATAATAATAATAATA ATAATAATAA	TTTGCATATGACATTGA AAGCA	TGAAACAGGCAATCTT TCCC	59.2	292	INTERGENIC	--	--	--
Ca3_P1_38900910	Ca3	38900910	AATTTAT/AATTTATTTAT	ACCAGGTACCGCTACT GCAA	ATGCCGCAGACTGATG TTTT	60.7	592	INTERGENIC	--	--	--
Ca3_P1_38901208	Ca3	38901208	TAA/TAAA	CTTGACATGCAACCA GGTA	ATTGTTTATGTTGTGT GGCG	60.7	625	INTERGENIC	--	--	--
Ca3_P1_3898691	Ca3	3898691	CAAAAAAAAA/CAAAAAAAAAAAAA	TTGGTTACATTTTGAAA ACGG	CCTGGAAAAATCAAAAG CCAA	59.9	839	INTRON	Ca_21332	E	--
Ca3_P1_38998926	Ca3	38998926	AATAATGT/A	GTATTGGGGCGTCACT TTTC	CACAACTAAAACGTGT GTGCAAAA	59.4	400	INTERGENIC	--	--	--
Ca3_P1_39010533	Ca3	39010533	AG/AGG	CGGGCTTTCCTGTTAC ACAT	GCAGAGAAAGGAACA GAGCG	60.0	309	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_39079459	Ca3	39079459	ACCCCC/ACCCCC	TAACCATCTTTGGGCG AATC	TTGAGAAGTGGCATAT GAAACAA	59.9	566	DRR	Ca_01271	--	--
Ca3_P1_3921303	Ca3	3921303	AATATATATATATATATATATATA TATATATAT/AATATATATATATATAT ATATATATATATATATATATATATAT	ACTCCACCGCTATATG CACC	TTTTGTGTGGCATTTC GATG	60.0	534	DRR	Ca_21330	O	WRKY
Ca3_P1_39355383	Ca3	39355383	CATATATATATATATATATATATAT/ CATATATATATATATATATATATAT	TCGTAGGACCTCAAGT TGTATGAG	TTGGCCAAATCTTCGA TCTC	59.7	338	INTERGENIC	--	--	--
Ca3_P1_39413210	Ca3	39413210	CATATATATATATATATATATATATA TATATAT/CATATATATATATATATATA TATATATAT	GGCATTCAATGGATAT TGGG	ACGTTATCCGATCAAA ACCG	60.0	357	INTERGENIC	--	--	--
Ca3_P1_39419619	Ca3	39419619	TAATATGAATATGAATAT/TAATATGAA TAT	CCTAACTCAGCATGGG GAAA	GCGTGACAATAGTAAG ATAATTGTTCC	60.1	506	INTERGENIC	--	--	--
Ca3_P1_39465898	Ca3	39465898	GTTATTATTATTATTATTATTATTATA TTATTATTATTATTATTATTAT/GTTATT ATTATTATTATTATTATTATTATTATA TTATTATTATTAT	GAAGTTCGCTTCTCC AAAA	TTGGCAGTACCAACGA ATGA	59.4	358	DRR	Ca_01313	--	--
Ca3_P1_39571556	Ca3	39571556	GAAAAAAAAA/GAAAAAAAAA	AATTTGTTTCGGCAATT CCA	GCAAAAGTGGCTGATG ACAA	60.3	553	INTERGENIC	--	--	--
Ca3_P1_39611074	Ca3	39611074	T/TC	ACCGGACACGATATCA GGAG	TGCTTCAACAAAGGCA AACA	60.0	474	INTRON	Ca_01338	--	--
Ca3_P1_39611240	Ca3	39611240	C/CCT	ACCGGACACGATATCA GGAG	TGGTCCAATGCACAAT CAAT	60.0	923	INTRON	Ca_01338	--	--
Ca3_P1_39611324	Ca3	39611324	TA/T	TGTTTGCCCTTTGTTGA AGCA	CCCAATTTCGAAGCTC TCTG	60.4	198	INTRON	Ca_01338	--	--
Ca3_P1_3962696	Ca3	3962696	AAAAATATTT/AAAAATATTTAATATAA AATATTT	AGTTCCATGGGCTTTT CCTT	AGACTGTGGCACACAA TGGA	59.9	552	INTERGENIC	--	--	--
Ca3_P1_39663553	Ca3	39663553	TAAAAAAAAA/TAAAAAAAAA	GTGGCCACGTATCGAG GTAG	TCCAAAAGAAAATCAT GGGG	60.5	516	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected 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_P1_39713077	Ca3	39713077	GAAA/GAAAA	CACAAAGTTTCATCAAT CCAAGA	TCGACTCCTGTTCAAC CAAG	59.1	442	DRR	Ca_01353	J	--
Ca3_P1_39763068	Ca3	39763068	CAGAGAGAGAGAGAGAGAGA/CAGAG AGAGAGAGAGAGAGA	GGTCGCACATTGTCAT CATC	AAAGGTTTCGACCACG TCAC	59.9	522	INTRON	Ca_01363	R	--
Ca3_P1_39783688	Ca3	39783688	CTCTT/C	ATCACGCTTTCAGCCA CTCT	CAGAGGGCAAGAATC CAAG	60.0	386	INTRON	Ca_01365	O	MYB_related
Ca3_P1_39806623	Ca3	39806623	A/ATATATAT	ACAAAGTGTGTGATGC CCAA	TTTGGAATTCAAAGC CAGG	60.0	615	INTERGENIC	--	--	--
Ca3_P1_39866286	Ca3	39866286	GCATTAAGTTTAAAGAACT/G	TTGAGTCGGTTGAGCT GTTG	CCCATCGAACCAAAGA CTGT	60.0	562	INTRON	Ca_01372	--	WRKY
Ca3_P1_39866735	Ca3	39866735	C/CT	ACAGTCTTTGGTTCGA TGGG	CTGCCCCAAAAGACAC AAAT	60.0	288	INTRON	Ca_01372	--	WRKY
Ca3_P1_39866810	Ca3	39866810	ATGG/ATGGTGG	ACAGTCTTTGGTTCGA TGGG	CTGCCCCAAAAGACAC AAAT	60.0	288	INTRON	Ca_01372	--	WRKY
Ca3_P1_39873548	Ca3	39873548	TAAAAAAAA/TAAAAAAAAA	TTTTCAACACTCTTCT CATTACAAA	AAACGTTGTCTTGATT TTAATTTGC	58.5	573	INTERGENIC	--	--	--
Ca3_P1_39892163	Ca3	39892163	A/ACGTAGGG	ATTATCGAATGCCAAG TCGG	GGTCATTGGCATTGCT TCTT	59.9	461	INTRON	Ca_01375	YUJ	--
Ca3_P1_39966266	Ca3	39966266	TAAAAAAAAA/TAAAAAAAAA	CAAAGTCTTCAACAAA ACCCA	TCGCTGCAAAATCATC ACTC	59.2	730	INTERGENIC	--	--	--
Ca3_P1_39988476	Ca3	39988476	GTTTT/GTTT	AGAACAGAGCTGGCCT CAAA	ATTGCAAGAAAACCAG CACC	60.1	148	INTERGENIC	--	--	--
Ca3_P1_4006367	Ca3	4006367	A/AATGGTGACT	TGTTCCAAGAGGCAT TACA	GACGTGATGCTCACTC CAGA	59.1	590	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_4031026	Ca3	4031026	ATAT/ATATGTAT	GTTGGTTCCTAGCAC CGTA	ACCCAATTACTGGAGA TGCG	60.0	706	INTERGENIC	--	--	--
Ca3_P1_4042829	Ca3	4042829	GATATATATATATATATATATAT/GA TATATATATATATATATATATATAT	ACACGAAGAGCAGGAT CGTT	AAACAAAATAAAAACT CGGAGACA	59.9	743	DRR	Ca_21325	QR	--
Ca3_P1_4058711	Ca3	4058711	A/ATT	ACTCTCGCCTTCATCT TCCA	GAGCGCTTGTGAGG AAAAC	60.0	527	INTERGENIC	--	--	--
Ca3_P1_406033	Ca3	406033	ATT/ATTT	AGCCAATTTTGGAAGT GACG	CAATCCCATGACCTC ATCC	60.1	595	INTERGENIC	--	--	--
Ca3_P1_4073796	Ca3	4073796	CT/CTT	CTCAACATCCACCATG CAAT	TGCAAAATTCATCAAT GCATAA	59.4	746	INTERGENIC	--	--	--
Ca3_P1_4076583	Ca3	4076583	ATATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATT/ATATTA TTATTATTATTATTATTATTATTAT TATTATTATTATTATTATT	ATAGTCCTCACCCAGC CATC	AAGCGTACCTGTGGG AATTG	60.0	607	INTERGENIC	--	--	--
Ca3_P1_4132252	Ca3	4132252	GATATATATATATATATAT/GATATA TATATATATATATATATATAT	CGTGTGAGAAAACCTC GACA	CCGATTTCCCAAAGGT TTTT	59.9	242	INTERGENIC	--	--	--
Ca3_P1_414861	Ca3	414861	T/TG	CTATGCAACCACAGCT TCCA	GCAGATTCGGTTCAA AAGA	59.9	438	INTRON	Ca_22928	O	--
Ca3_P1_415189	Ca3	415189	AATCAATGTTA/AA	TCTTTTGAACCGGAAT CTGC	AAGAATGTATTGGGGC TTGG	60.2	229	INTRON	Ca_22928	O	--
Ca3_P1_4194452	Ca3	4194452	GTTTTTTT/GTTTTTTT	TGGCCTCTTTAGACAA TGGC	TCGGTGTTTGAATC ATTT	60.2	159	INTERGENIC	--	--	--
Ca3_P1_4200504	Ca3	4200504	GAAAAAAAA/GAAAAAAAAA	CTTTCCGACTCCAAA CTCA	TCGAATTCAGAACTC ACAGTTG	60.2	546	DRR	Ca_22381	--	SAP
Ca3_P1_4227642	Ca3	4227642	TTATATATATATATATATATAT/TTAT ATATATATATATATATAT	TTTGATTCAACGCTAC GTGAT	TGACCAAAAGTGACG ACTG	59.7	632	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_4372036	Ca3	4372036	ATTTTTTTTT/ATTTTTTTTTT	CTTGAGAGCAACAATT GGCA	CCTCCAGGCTTTGAAA ATCA	60.0	857	INTERGENIC	--	--	--
Ca3_P1_4470002	Ca3	4470002	ATTTTTTTTTTT/ATTTTTTTTTTTTTT	CATTATTAAGTCCAT CGACACAA	TTTGAAATTTGGTTTT GGTCC	59.4	302	INTERGENIC	--	--	--
Ca3_P1_451560	Ca3	451560	ATAACGTGATCTTA/ATA	AGCAGAAAGGAGAAT GGGT	ACGGTGAAGCTCCGA AAATA	60.1	734	INTERGENIC	--	--	--
Ca3_P1_454494	Ca3	454494	AGGG/AGG	GGATTGGAGTGTTCCAG CCAT	TTGTCAATAGTTTCAAT CTCACCAA	59.9	460	INTERGENIC	--	--	--
Ca3_P1_454633	Ca3	454633	GATATATATATAT/GATATATATATA T	GGATTGGAGTGTTCCAG CCAT	TTGTCAATAGTTTCAAT CTCACCAA	59.9	460	INTERGENIC	--	--	--
Ca3_P1_457655	Ca3	457655	G/GTT	TTATGCTTATGCAGCTT GCG	TCCAAAATTAAGGAA ACCGC	60.1	527	INTERGENIC	--	--	--
Ca3_P1_4622794	Ca3	4622794	ATATTATTATTATTATTATTATTAT TATTATTATTATTATTAATATTATTATT ATTATTATTATTATTATTATTATTA TTATTATTATTA	TTGTCAAGTTAGGGCA CATTTTT	TCTTGAAGTGTGCGC CATT	59.9	627	INTERGENIC	--	--	--
Ca3_P1_4626820	Ca3	4626820	TTGTG/TTG	GGAACGCTCTTTCTTC TCCC	GCGATCAGAGTTCCCA TGTT	60.3	573	INTRON	Ca_22084	R	--
Ca3_P1_4688067	Ca3	4688067	GAA/GA	TCTGATGCAGTGTTTG GCTC	GCTTTCTTTGCTGCGC TTGG	60.0	332	INTERGENIC	--	--	--
Ca3_P1_4688180	Ca3	4688180	GAAAA/G	CCAAGGCAGACAAAGA AAGC	AGTAAAAGGCAGCAAG GCAA	60.0	442	INTERGENIC	--	--	--
Ca3_P1_4688550	Ca3	4688550	TA/TAA	CCAAGGCAGACAAAGA AAGC	ATGCCTATTATCCCT GCAC	60.0	579	INTERGENIC	--	--	--
Ca3_P1_4689138	Ca3	4689138	TAAAAA/TAAAAAA	CAGCTTGCATTTGCTT TTGA	TTGCTCTACGTATCT CCCG	60.1	888	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_4694918	Ca3	4694918	GGAACTTTGAA/GGAACTTTGAACTTT GAA	ATGTGCAGGTCAAGTT GTCG	TCCGCTGCCATTTCTC TACT	59.8	484	INTRON	Ca_22085	--	--
Ca3_P1_474304	Ca3	474304	GTTTTTT/GTTTTTTT	ACGTTGCGAGCAGAGA TTTT	TTGGCTTCTGAATTTG GTCC	60.0	655	INTERGENIC	--	--	--
Ca3_P1_4806714	Ca3	4806714	AACA/AA	AGGCCATGATCTCAAA TGGA	TCGCCAACCTACACC TTAC	60.4	704	INTRON	Ca_22089	D	WRKY
Ca3_P1_4817660	Ca3	4817660	ATGTGTGTGTGTGTGTGT/ATGTGTG TGTGTGTGTGTGT	ATTACGCAATCGCAAT CCA	CGTTTTGTAGTTGGTC GCAT	60.1	237	INTERGENIC	--	--	--
Ca3_P1_4850058	Ca3	4850058	TT/TTGATAT	CCTTTTGACAAGCTT CACA	TTTTCTGGGAAGCGAA AGAA	60.0	216	INTERGENIC	--	--	--
Ca3_P1_4897380	Ca3	4897380	AA/AAGA	AGCCATAACTTGCTTG AGGG	ACCTCGAATGAAATC GTCG	59.3	723	INTERGENIC	--	--	--
Ca3_P1_4929398	Ca3	4929398	ATTTTTTTTT/ATTTTTTTTT	GGCTTGTCACATCAGC TCAA	TCAGAACCATGTCAAC GAGTTC	60.0	681	INTERGENIC	--	--	--
Ca3_P1_4938478	Ca3	4938478	ATTT/ATTTT	TCAACTCAACCCGAAA CACA	TGTTTGAATGTGTGGC ATTTG	60.1	813	INTERGENIC	--	--	--
Ca3_P1_4965548	Ca3	4965548	ATTTT/ATTTT	CGGGGAATGTGATTGA TAGG	GTTGGAGAGATCGGT GGAAA	60.1	948	INTERGENIC	--	--	--
Ca3_P1_4965627	Ca3	4965627	T/TGAG	TGCAATCTGGAGCAG AGAA	GTTGGAGAGATCGGT GGAAA	59.7	510	INTERGENIC	--	--	--
Ca3_P1_4966098	Ca3	4966098	CTTTTTTT/CTTTTTTT	TTTCCACCGATCTCTC CAAC	AAACCCGCTCCTTTCA AAAT	60.1	514	INTERGENIC	--	--	--
Ca3_P1_4975195	Ca3	4975195	AATATATATATATA/AATATATATAT A	CAAAGTTCAATACGCC AGCA	AGGTTTTGGCGTAACT CCCT	59.9	455	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_5013857	Ca3	5013857	ATTTTTTTTT/ATTTTTTTTT	GTGCGGGTATAATTG GTGG	TGGGTGAAGTTTCCG GTAG	60.1	854	INTERGENIC	--	--	--
Ca3_P1_5070771	Ca3	5070771	ATTTTTTTTTTTTT/ATTTTTTTTTTT T	AACCTTGATGCTCACA TGAAA	TTACACTTGTTAGCCG GATGC	58.2	696	DRR	Ca_23878	--	--
Ca3_P1_5182639	Ca3	5182639	ATTTTTTTTT/ATTTTTTTTT	TCTCTTTCTAAAACAG GCAACCA	TTGAGGTGGCCAAAG CTACT	58.7	492	INTERGENIC	--	--	--
Ca3_P1_5239462	Ca3	5239462	AATATATATATATATATATATATAT/ AATATATATATATATATATATATATA T	TGAGATCAGTTTTGT GGAGGA	CAGTACCACCTTGC TTTT	59.7	482	INTERGENIC	--	--	--
Ca3_P1_5270072	Ca3	5270072	GAAA/GAAAA	TGGCAAATCGATTGAA AGAA	TTCTAGCTGGCTTTTC TCGC	59.2	519	INTERGENIC	--	--	--
Ca3_P1_5270123	Ca3	5270123	GAA/GA	ACGAAACGAAAGCGAG AAAA	CGACCTCGAAATAATC GGAA	60.0	521	INTERGENIC	--	--	--
Ca3_P1_5270478	Ca3	5270478	TATCAATC/TATC	ACGAAACGAAAGCGAG AAAA	CGACCTCGAAATAATC GGAA	60.0	521	INTERGENIC	--	--	--
Ca3_P1_5286221	Ca3	5286221	ATTT/ATT	CACCCCTCCCAAAACA TCT	TTGTGAGTGCAATTGA TTTTGTT	59.8	876	INTERGENIC	--	--	--
Ca3_P1_5288032	Ca3	5288032	AATATATATATATATATATATAT/AA TATATATATATATATAT	AGAAGGTCGCATCTCC AAGA	TGGCACTTGATTAC TCGC	60.0	456	INTERGENIC	--	--	--
Ca3_P1_5347423	Ca3	5347423	CAATAATAATAATAATAATAATAAT AATAATAA/CAATAATAATAATAATAAT AATAATAATAA	TTGCTCTACGTATCT CCCG	TTGTGACAATTTGATG GTTCTAAA	60.2	563	INTERGENIC	--	--	--
Ca3_P1_5486984	Ca3	5486984	ATTTTTTTTT/ATTTTTTTTT	AGGCCTGATCTACGGC CTAT	CAACAGGGGCCTATG GTATG	60.1	637	INTERGENIC	--	--	--
Ca3_P1_5502243	Ca3	5502243	TG/T	TGCGTTTTCTGCATT CTG	ATTCTGCGGACTATC AACC	60.0	661	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected 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_P1_5507746	Ca3	5507746	AATATATATATATATATATATATATA TATAT/AATATATATATATATATATAT ATATATATATATATATATAT	TATTTTGATTTTGGG CTCG	GGAGGGATAAGGTTTC TCGC	59.9	427	INTERGENIC	--	--	--
Ca3_P1_5520403	Ca3	5520403	GTATATATATATATATATATATATA/ GTATATATATATATATATATATATA	CAAATGACGACGACGA TGAC	GAATGATACAATGCG GTTG	60.1	503	INTERGENIC	--	--	--
Ca3_P1_5619451	Ca3	5619451	TAAAAAAAAAAAAA/TAAAAAAAAAAA	TTCCGGGAAGTGATT ATCG	TGAAAAATCCCAGGA TGGA	59.9	966	INTERGENIC	--	--	--
Ca3_P1_5677125	Ca3	5677125	TTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTAT/T TATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTAT T	GCAACAAAATTCACAC ACCCT	GAAAGTCGATTGGCG AGTT	59.9	819	DRR	Ca_20649	K	MIKC
Ca3_P1_5689325	Ca3	5689325	ATTT/ATT	TTGGTCAATGTGGCTT CTCA	TGAActCTGAGCGTGT GACC	60.2	439	INTERGENIC	--	--	--
Ca3_P1_5689863	Ca3	5689863	GTTT/GTTTT	GGTCACACGCTCAGAG TTCA	GAAGCAAATCGATTGG GAAA	60.0	543	INTERGENIC	--	--	--
Ca3_P1_5692378	Ca3	5692378	T/TGACAATC	TGTGCAATTAAGAGAG GACACAA	CGAGAAATAGCTCACG AGGC	59.8	268	DRR	Ca_20648	--	--
Ca3_P1_571479	Ca3	571479	GTT/GTTGATT	GTGAGTGGTGAGGCG CTAAT	TTGCATACCTCGTATC ATCCC	59.0	407	INTERGENIC	--	--	--
Ca3_P1_5763639	Ca3	5763639	GTTTTTTTTTT/GTTTTTTTTTTT	CCGAAGAGGCTTTGAA AACAA	CCTCACGCATGAGAT TTTT	60.4	864	INTERGENIC	--	--	--
Ca3_P1_5805263	Ca3	5805263	GT/GTT	CAATTGGTCGAAAGAC GGAT	TTCGAATGAACATAAT TGAACTTT	59.9	164	INTERGENIC	--	--	--
Ca3_P1_5805325	Ca3	5805325	TAAAAA/TAAAAAA	CAATTGGTCGAAAGAC GGAT	TTCATCTTCGTCAACA ATGAAAA	59.9	554	INTERGENIC	--	--	--
Ca3_P1_5994220	Ca3	5994220	TGAGTAAAG/TGAGTAAAGAGTAAAG	AAAGCAGTCTGCAAGG GAAA	GTGCAACCATCATGCA AAAG	60.0	382	INTRON	Ca_27241	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected 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_P1_6062601	Ca3	6062601	AATATATATATATATATAT/AATATATA TATATATATATAT	AATCATCTCGCCCTGA ATTG	CCACTAGCCTTGGGT TCAA	60.0	621	INTERGENIC	--	--	--
Ca3_P1_611609	Ca3	611609	CATATATATATATATATATATATATATA TATATATATATATATATATA/CATATAT ATATATATATATATATATATATATATA ATATATATATA	CACAAACCCCTAACCCG AAAG	GCCCTATTCCATGAA ACAT	59.5	650	INTERGENIC	--	--	--
Ca3_P1_613347	Ca3	613347	ATTTTTTTTTTT/ATTTTTTTTTTT	TGGAGCTTTGTTTGG ACCT	AGTAAGTGTCGTCGT GGGC	59.7	409	INTERGENIC	--	--	--
Ca3_P1_6200763	Ca3	6200763	AATATATATATATATATATATATATAT/ AATATATATATATATATATATATATATA TAT	TTGGTACATGCTTCAC ACGA	TGTGCCACGTGAAAT GAAT	58.7	569	INTERGENIC	--	--	--
Ca3_P1_6243942	Ca3	6243942	CTTATT/CTT	TGATGGACTTCGTCT CTTG	CCTCAGGATAAAACAG CCCA	60.0	298	INTERGENIC	--	--	--
Ca3_P1_6249650	Ca3	6249650	ATTCTTCTTCTTCTTCTTCTTCTT/ATT CTTCTTCTTCTTCTTCTT	TGATGGACTTCGTCT CTTG	CCCTCAGTATGCCAGT CGAT	60.0	225	INTERGENIC	--	--	--
Ca3_P1_6289426	Ca3	6289426	CATATATATATAT/CATATATATATATA TAT	CGGTTCAGAACTGCAT TGAA	CCTTACAAGCCCCACC AATA	59.8	457	INTERGENIC	--	--	--
Ca3_P1_62942	Ca3	62942	AATATATATATATATATATATATA/AAT ATATATATATATATATATATATATATA	TTCTCTCGAGGATAGT CCGA	AGTTAAACGAGGGTT TGCC	57.6	936	INTERGENIC	--	--	--
Ca3_P1_6301895	Ca3	6301895	TCCCC/TCCCC	CATTGGAAGCTTTAGG CTCG	GGGTTTTGAGGAGTT GTCA	60.0	372	INTERGENIC	--	--	--
Ca3_P1_6314718	Ca3	6314718	GTTATTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTAT/ GTTATTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTAT	AAAGGTTGACTTTTCC GGCT	ACTCGGTTCACACTTG AGGG	60.1	676	INTERGENIC	--	--	--
Ca3_P1_6386934	Ca3	6386934	TGG/TGGG	TGTACGAGAAGGTCGT GTGC	GCCCAACAGCAAGCTA TTTC	59.9	574	INTRON	Ca_24834	--	Trihelix
Ca3_P1_6432046	Ca3	6432046	TAAAAAAAAA/TAAAAAAAAA	TCCTGATGGCAATGCA AATA	AATAAGGTTGTCGGTT TGCG	60.0	172	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected 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_P1_6448123	Ca3	6448123	AATATATATATATATATATATATATA TATATATATATA/AATATATATATAT ATATATATATATATATATATA	TTTTAATGAAGGATTG CCAATGT	TGAACTCGACAAAAGA ACAACAA	59.7	421	INTERGENIC	--	--	--
Ca3_P1_6482071	Ca3	6482071	ATTTTTTTTTT/ATTTTTTTTTTT	CTAGCCTCCTTCCTT GCTT	CGAACTTTACACCGGA CCAC	60.0	693	INTERGENIC	--	--	--
Ca3_P1_6581424	Ca3	6581424	AATATATATATATATATATAT/AATATA TATATATATATATATATATATAT	AGCAAAAGGAAGCAAC GAAA	CAATTGAGTTGCAGC AGAG	60.0	251	INTERGENIC	--	--	--
Ca3_P1_6587330	Ca3	6587330	T/TA	TTGAAGGGTTGCATGA ATGA	GGAGGTCGAAAAATGA CCAA	60.0	741	INTERGENIC	--	--	--
Ca3_P1_6599941	Ca3	6599941	ATTTTTTTTT/ATTTTTTTTTTT	TCCATTTTGTCGTTT GTGT	ACGGAGGACCAXXXX GACCT	60.0	657	INTERGENIC	--	--	--
Ca3_P1_666105	Ca3	666105	T/TG	CAGTCCCTCACCTGA CCAC	GCTTCCCCAATGGTGC ATTT	60.6	235	INTERGENIC	--	--	--
Ca3_P1_6663794	Ca3	6663794	TAAAAAAAAAAAAA/TAAAAAAAAAAAA	AAGGCTCAACATGCCAA AACC	AATGCCACCATAAT TTCA	60.1	324	INTERGENIC	--	--	--
Ca3_P1_6664320	Ca3	6664320	TAAAAAA/TAAAAAA	TGAAATTATGGGTGGG CATT	GCTGAAAAAGTGCCGA AGAA	60.0	569	INTERGENIC	--	--	--
Ca3_P1_6666596	Ca3	6666596	ATT/AT	ATGCAAAATTGACCAC CACA	CCAGACCTTCTTATT GCCA	59.8	168	INTERGENIC	--	--	--
Ca3_P1_6672422	Ca3	6672422	TTTTATTATTATTATTATTATTATT AT/TTTTATTATTATTATTATTATTAT TTATTAT	GCGCCGCAATAGAATA GAAG	CAACAAAGGAGGCA AATGT	60.0	672	INTRON	Ca_25772	A	--
Ca3_P1_6694845	Ca3	6694845	ATTTTTTTTT/ATTTTTTTTTTT	TTTGTACGTGAGACA AGGC	AATCGGTGTAGAGGCA ATGG	59.9	660	INTERGENIC	--	--	--
Ca3_P1_6721297	Ca3	6721297	GAAAAAAAA/GAAAAAAAA	ATATGGGTGATGAGGC ATCC	GAGTTGTCCCTTCCTC ACCA	59.6	737	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected 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_P1_6728905	Ca3	6728905	TTGAAT/TT	CCGCGAGTAATTCCGA TAAA	ATGCTTGGTGGGTGA GAAAG	60.1	243	INTERGENIC	--	--	--
Ca3_P1_6730727	Ca3	6730727	CTTTTTTTTTTT/CTTTTTTTTTTTTTT	TTTAGGATTTTCCAACC ACCA	TGGGGAGATAGGGTT GATTTT	59.3	655	INTERGENIC	--	--	--
Ca3_P1_6772905	Ca3	6772905	GTTT/GTT	TCCTTTGTCTTTTCG CACT	CACTGCCGTTCTTCAC TTCA	59.9	383	DRR	Ca_16559	R	NAC
Ca3_P1_6774064	Ca3	6774064	T/TTAA	TTTGCTGGACTTTGAA GCCT	CCCGGTCCTAGAGAG AAAGA	60.0	640	DRR	Ca_16559	R	NAC
Ca3_P1_6780454	Ca3	6780454	AAAA/AAAAACAAA	GGATGCTTCGTTTGGT GTTT	TTTGAACCAAGATGCA GCAG	60.0	832	INTRON	Ca_16557	R	NAC
Ca3_P1_6788233	Ca3	6788233	AATTTATTAT/AAT	TTTTTCACTATTGTGTG AAATCAGT	TTTCCTACCATTATCC CGCT	57.0	826	DRR	Ca_16556	R	NAC
Ca3_P1_6821158	Ca3	6821158	CTTTT/CTTTTT	GATCATCCCTCACCAC AACC	TTGCCACGTTGTTACT CGAT	60.2	409	INTERGENIC	--	--	--
Ca3_P1_6821985	Ca3	6821985	TTATATATATATATATATATATATA/T TATATATATATATATATATATATATA TATATA	GGTGATCCCAAGCTA CAAT	CATCTTTTAAGGTGCG GGTG	60.1	139	INTERGENIC	--	--	--
Ca3_P1_6829727	Ca3	6829727	AATATATATATATATATATATATATA TATA/AATATATATATATATATATAT ATATATATATA	AAATAAGCCGGTTGCA TGAG	ACAGCGTCACGGAAG ATAAA	60.1	445	INTERGENIC	--	--	--
Ca3_P1_6838667	Ca3	6838667	AGCA/AGCAGGATCCAATGCAATGGC A	GGAACCCACAATCAT CATC	GCAGCCAATTTTGTG CATA	60.0	547	CDS (large-effect mutations)	Ca_16550	R	bHLH
Ca3_P1_6867569	Ca3	6867569	TC/T	TCAAACCATTTTACCA GGCA	TTGTATTTCGACAAAG TTTCGTG	60.3	781	INTERGENIC	--	--	--
Ca3_P1_6959714	Ca3	6959714	TCCCC/TCCCC	GCACTTTTGGTCCCC TATT	GATTCTAGTCTCTTGC GCCG	60.2	420	DRR	Ca_16543	--	G2-like

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_7076805	Ca3	7076805	CG/CCCGAATGTG	TCTTCGATTCCATCCA ACC	TTGGGGGAGACGATAT TCTG	59.9	701	INTERGENIC	--	--	--
Ca3_P1_7202917	Ca3	7202917	ATG/A	TCATTGCGCTTTGTCA ACAT	AACTGGTTTCTCCCCT CGTT	60.3	650	INTERGENIC	--	--	--
Ca3_P1_7258511	Ca3	7258511	CAAAAAAAAA/CAAAAAAAAA	TGGAGATGACTTGCTT GCAG	TTTTTGTCGGTCAATC ACCA	60.1	515	INTERGENIC	--	--	--
Ca3_P1_726429	Ca3	726429	ATTTTTTT/ATTTTTTT	TCCTGTATCTTACCAA CAAGGC	GTTTGTGTCGGCTTA CGGT	59.6	715	INTERGENIC	--	--	--
Ca3_P1_7283088	Ca3	7283088	TAAAAAAAAA/TAAAAAAAAA	TCACGGCATCTCAAGT AGGA	ATTTGGAAATCCAACC CACA	59.4	544	INTERGENIC	--	--	--
Ca3_P1_7367436	Ca3	7367436	CGAAGAAGA/CGAAGA	TGATTGTTGTCTGGT GGGA	CACTCTTCTCTTGGC CTTG	59.9	331	INTERGENIC	--	--	--
Ca3_P1_7368184	Ca3	7368184	TTAATAAATAATA/TTAATAA	ATTGGGGCAATAACCA ACAA	TGGTGCATTGTGGAA AATA	60.1	854	INTERGENIC	--	--	--
Ca3_P1_746590	Ca3	746590	ATTTTTTTTT/ATTTTTTTTT	TGCAATGCAATGTCCA TTTT	CCACCGACTTGAAGAA GCTC	59.9	387	INTERGENIC	--	--	--
Ca3_P1_7467677	Ca3	7467677	AACATTAGA/AACATTAGACATTAGA	CCACACCCCTCACACT TTCT	AGCAAAGGGGATGAAA AGGT	60.0	461	INTERGENIC	--	--	--
Ca3_P1_7550712	Ca3	7550712	T/TAGAATGATATAG	TTGATTTGGTCGCAAT TTTT	TGCACTAGTGTGTAC TCGTTT	58.1	411	INTERGENIC	--	--	--
Ca3_P1_7580880	Ca3	7580880	TAAAAAAAAA/TAAAAAAAAA	GTGGTTCGGGAAAAGA TGAA	CCCCATCCATTCCCT ATCT	59.9	373	INTERGENIC	--	--	--
Ca3_P1_7623505	Ca3	7623505	TAAAAAAA/TAAAAAAA	AATCTGGTTTCTTGCA CGG	ATGTGATTGGATTGTG CGAG	60.1	767	DRR	Ca_16514	--	bZIP

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_7636444	Ca3	7636444	TATTATTATTAT/TATTATTATTGATT ATTATTAT	TGGCCTTGTGTGTA GCAT	CTGAATTGCGTGTGTC TGGT	60.0	566	INTERGENIC	--	--	--
Ca3_P1_7768323	Ca3	7768323	AG/AGG	ATTTCAAGGCGCTCTT TGTG	TGTTGGGTTGGTTGAA GTGA	60.4	539	INTERGENIC	--	--	--
Ca3_P1_7773838	Ca3	7773838	AATATATATATATAT/AATATATATA TATAT	CATGCGAGTTGTAACA CCCT	CGTGCATACTTAATAT CAGTCAAGTG	58.7	365	INTERGENIC	--	--	--
Ca3_P1_7792015	Ca3	7792015	TAT/TATTATTCTTCCCTAAT	TAGGTAAAGGTGTTT GCCG	TGAGGATAGATGCA GGTCA	60.0	611	INTERGENIC	--	--	--
Ca3_P1_781722	Ca3	781722	CAA/CAAAA	AAAACGCGCCACTAAT GACT	AGCAAGAGTGCAAAGT CGGT	59.8	546	DRR	Ca_22643	V	B3
Ca3_P1_7880432	Ca3	7880432	TCTAG/T	AGGAAGAGTGGAGTTG CGAA	TATTTTGGATTTTGGC TCGG	60.0	503	INTERGENIC	--	--	--
Ca3_P1_7899910	Ca3	7899910	ACC/AC	GTACTTGGCACCCGAG TCAT	TCTCATCTCTGTGCTT CATGC	60.0	643	INTERGENIC	--	--	--
Ca3_P1_7922530	Ca3	7922530	TTATATATATATATATAT/TTATATAT ATATATATAT	AGGAAGAGTGGAGTTG CGAA	TATTTTGGATTTTGGC TCGG	60.0	504	INTERGENIC	--	--	--
Ca3_P1_794982	Ca3	794982	GTGTTTTTTTTT/GTTTTTTTTT	TAGAGGGAGGAGGTG CAAGA	GGTGATATAGACGGG GCAGA	59.9	686	INTERGENIC	--	--	--
Ca3_P1_7959750	Ca3	7959750	TTAATTGATTATGTTAAGTAATTGA TTATGTTAA/TTAATTGATTATGTTAA GTAATTGATTATGTTAAGTAATTGA TTATGTTAA	TTGGCATAGGTCATGG AAGTT	TTTGCCAATGTTGCTA GCTG	59.4	848	INTERGENIC	--	--	--
Ca3_P1_8059631	Ca3	8059631	GTTT/GTT	TGTGCGACCATCTACT GCTC	GCAATCTCCTCAACTC GGTC	60.0	813	INTERGENIC	--	--	--
Ca3_P1_8069482	Ca3	8069482	AATAT/AAT	ATGCTGCAAGGGATCT GAAT	AAGCGCTGTAAAAGGT GCAT	59.7	425	DRR	Ca_24370	--	--

[illegible]

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_8756604	Ca3	8756604	CT/CTGTTTTAAAT	TGGGTTGGAACATTC ATCA	ATTCAAGCATTCGATG GAGG	59.9	249	INTERGENIC	--	--	--
Ca3_P1_8814472	Ca3	8814472	CATATATATATATATATATTTATA TATATATAT/CATATATATATATATA TATATATTTATATATATATAT	GGATGGCTTGTGGATA GGTG	GGATTGAAGATGAAGG TTGTTGA	60.3	602	INTERGENIC	--	--	--
Ca3_P1_8826227	Ca3	8826227	CAAAAAAAAA/CAAAAAAAAA	CTTGCGGTTGGAATGA AGTT	TATACACGGAACGAAA GCCC	60.1	589	INTERGENIC	--	--	--
Ca3_P1_888801	Ca3	888801	ATT/ATTT	AAATGTGCCAGTTTT GGAG	CCTTGATTGATTGGCT GGTT	60.0	273	INTERGENIC	--	--	--
Ca3_P1_8900151	Ca3	8900151	TAAAAA/TAAAAA	GTGAAAAACACCTC GACT	TCAAACCTGCCATTTT CTCA	59.0	156	DRR	Ca_25279	R	--
Ca3_P1_8942193	Ca3	8942193	AT/ATT	TGGGGAAAAACCTTA CCTT	CACATGATTCAATTG GCTTTG	59.7	326	INTERGENIC	--	--	--
Ca3_P1_8950675	Ca3	8950675	TTGTGTGTGTGTGTGTATGTGT GTGT/TTGTGTGTGTGTGTGTAT GTGTGTGTGT	GAATCAGGCCAAAAAG TTGA	GTGAGAGCGCTAGTT GACCC	60.1	422	INTERGENIC	--	--	--
Ca3_P1_914099	Ca3	914099	CGAAATCGATTT/CGAAATCGATTTGG AAATCGATTT	TGGCAAAATTGAAAC ACGA	GTGAAAGTGGTTGC GAAAT	60.1	615	INTERGENIC	--	--	--
Ca3_P1_9153929	Ca3	9153929	ATTTTTTT/ATTTTTTTT	TCTGATGCCAATTGAA GGTG	GCTTGTACGGTCAAGG TGGT	59.6	616	INTERGENIC	--	--	--
Ca3_P1_9186815	Ca3	9186815	CTATATATATATATATATATA/CT ATATATATATATATATATATATA	TCCACAAACACGATAA CATTGA	TGTAACAAGCATTGT CGGG	58.9	693	INTERGENIC	--	--	--
Ca3_P1_9189477	Ca3	9189477	AATATATATATATATATATATATA TATATAT/AATATATATATATATAT ATATATATATATATATAT	AAAGGTTTGGTTGGAG ATACG	TTGGCTGCAAAATATC CCTC	58.1	856	INTERGENIC	--	--	--
Ca3_P1_9226047	Ca3	9226047	CAAAAAAAAA/CAAAAAAAAA	CCGGAGAACAAACAA CCAT	GAGGAAAAGCAAAGG GTGTG	59.8	246	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_9367428	Ca3	9367428	TG/TGAG	TTTATGTGGTGAATTG GCGA	TGATGTGCCTTCAATT TCCA	59.9	289	INTERGENIC	--	--	--
Ca3_P1_9374112	Ca3	9374112	CTATATATATATATATATATATAT ATATATAT/CTATATATATATATATA TATATATATATATATATATATAT	GCGAAATGACCGATT TTCA	AATGGCGCTGTAAA TGTC	61.0	411	INTERGENIC	--	--	--
Ca3_P1_9389984	Ca3	9389984	GATATATATATATATATATATA/GATAT ATATATATATATATATATA	TACCCTGGTGCTCTTT TGCT	GGACCCTTTTGAGTTG TCCA	59.9	853	INTERGENIC	--	--	--
Ca3_P1_939073	Ca3	939073	GTT/GTTTT	ATTGTTCTGCTCTGG GTTG	GGGACCACAGCACCT ATGTT	60.1	296	INTERGENIC	--	--	--
Ca3_P1_9396146	Ca3	9396146	CATATATATATATAT/CATATATATATA TATAT	TCAAAGCAAAATCATGT CCCA	TTGTAGGGGGAGAGA TCGTG	60.0	757	DRR	Ca_20968	--	ERF
Ca3_P1_9402454	Ca3	9402454	CATAATAATAATAATAATAATAATA ATAAT/CATAATAATAATAATAATAATA ATAATAAT	TCAGGGGCATATAGCC TGAC	AAAGTCTGCCCTGACA TGGA	60.1	581	INTERGENIC	--	--	--
Ca3_P1_9414969	Ca3	9414969	CATAT/CAT	TGTCTTGAGCATGCCT TGTC	CGTTCTCCATGCTGTT CTCA	60.0	372	INTERGENIC	--	--	--
Ca3_P1_9416399	Ca3	9416399	AG/AGG	CCCCAGAGAACGCAAT TCAT	TCTCACGTTGTGAGG ACTG	60.1	811	INTERGENIC	--	--	--
Ca3_P1_9427257	Ca3	9427257	TTTA/T	CATGCGTTCCTTGTTG TAGA	GGCCTAAGATCATAGC AATTCAA	59.7	165	INTERGENIC	--	--	--
Ca3_P1_943806	Ca3	943806	ATCT/ATCTCT	GTGAATTCATCCCATG TCCC	AGCCCTGGTAAGCCTT TTGT	60.0	515	INTERGENIC	--	--	--
Ca3_P1_9471126	Ca3	9471126	AATATATATATATATATATATATATA TAT/AATATATATATATATATATATAT ATATATAT	CAGGTGGTGGGGACT GTTAC	GGATGCAACAAAAGGT GGAT	60.3	752	DRR	Ca_20972	K	HSF
Ca3_P1_9487765	Ca3	9487765	AAAAATATATA/AATA	GAAAGCCCCAAGTTCCA AATG	CGGTTAAGTGCCCATAT CTCG	59.5	233	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected 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_P1_9491740	Ca3	9491740	TTATATATATATATATATAT/TTATAT ATATATATATATAT	ACTAGAGGCCACCTTC GACA	TTAAGCCTCCAGAAC CAAA	59.9	696	INTERGENIC	--	--	--
Ca3_P1_9577853	Ca3	9577853	C/CTTGACG	TTGCGTTCAAAGACTC GATG	TGAATTGCAGAATCCC ATGA	60.0	575	INTRON	Ca_20977	--	--
Ca3_P1_9577976	Ca3	9577976	AGG/AGGG	TTGCGTTCAAAGACTC GATG	TGAATTGCAGAATCCC ATGA	60.0	575	INTRON	Ca_20977	--	--
Ca3_P1_9578317	Ca3	9578317	CAAAA/CAAAAA	TTGCGTTCAAAGACTC GATG	CTACGTCCCTGCCCTT TGTA	60.0	543	INTRON	Ca_20977	--	--
Ca3_P1_9735716	Ca3	9735716	CTTTTTTTTT/CTTTTTTTTT	GGAATATTGATCCACT CGCC	GAAAAAGCGCTGTAAA TGGC	59.3	410	INTERGENIC	--	--	--
Ca3_P1_9767209	Ca3	9767209	GTTTT/GTTT	TCAAGTATGGACACGC CAAA	TTCGCAACTCCACTCT TCCT	60.1	487	INTERGENIC	--	--	--
Ca3_P1_9940470	Ca3	9940470	AAATAAATAATA/AAATA	ACCGGTATTGTAACAC CCCA	CCTTATGCGGTAATCC CTGA	60.0	475	INTERGENIC	--	--	--
Ca3_P1_9940560	Ca3	9940560	A/AT	ACCGGTATTGTAACAC CCCA	CCTTATGCGGTAATCC CTGA	60.0	475	INTERGENIC	--	--	--
Ca4_P1_10033685	Ca4	10033685	TTATATATATATATATAT/TTATATAT ATATATATATATAT	CTAGTTCGTAACCCGT GCGT	AGGCATGGTGTGGGA GTCAT	60.2	248	INTERGENIC	--	--	--
Ca4_P1_10035522	Ca4	10035522	GT/GTT	AAGGGAGACGCAAGAA ATGA	CATCACGATCTTTGTC CACG	59.8	666	INTERGENIC	--	--	--
Ca4_P1_10057169	Ca4	10057169	AAAATTCAAATTCAAATTCAAATTCAA A/AAAATTCAAATTCAAATTCAAA	AACGTGCATCGACACT TTGA	AACGGAAGAATACGCC CTTTA	60.3	542	INTERGENIC	--	--	--
Ca4_P1_10108054	Ca4	10108054	T/TAA	AACCGAATGAAATGAA ACGG	AAGCGCACAGGAAAAC CTTA	59.8	551	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_10139275	Ca4	10139275	CATATATATATATATATATATATATA TATATATA/CATATATATATATATATAT ATATATATATATATATATATA	GGTATGGCGACTCCTT GGTA	CAAAATCGCACCATTC AACA	60.0	622	INTERGENIC	--	--	--
Ca4_P1_10147217	Ca4	10147217	GTTTTTTTT/GTTTTTTTT	TGAATGCGCGTATTGT GAAT	AAAAATGACAAACGAA ACATAAAA	60.1	728	INTERGENIC	--	--	--
Ca4_P1_10173137	Ca4	10173137	ATTTTTTTT/ATTTTTTTTT	CCCGTTATTTTGACG AAACA	TGTGTTGAGTGGTGG CATTT	59.9	791	INTERGENIC	--	--	--
Ca4_P1_10223331	Ca4	10223331	AATATATATATATATATATATATATA TAT/AATATATATATATATATATATAT	ACGTGAAGTCCAATC TGCC	TTGCACTGTCCACGTA TATCTCA	60.1	586	INTERGENIC	--	--	--
Ca4_P1_10233239	Ca4	10233239	GACAATTATTTGGTACAATTAT/GACA ATTATTTGGTACAATTATTTGGTACAA TTAT	TGTCGGTGTGTGCTTG AAGA	ATACAATCATTTTCCC GCCA	60.4	403	INTERGENIC	--	--	--
Ca4_P1_10261671	Ca4	10261671	ATTTTTT/ATTTTT	TGGATTTTGGACTTGG TCTTG	AACAACACGTGATTTG AATTGC	60.0	654	INTERGENIC	--	--	--
Ca4_P1_10270991	Ca4	10270991	ATATTATTATTATTATTATTATT/AT ATTATTATTATTATTATTATTATT	GTCAC TGCCGAGTAC CAAT	CCCTCTGCTGTTGTG AAAT	60.0	223	INTRON	Ca_08494	I	NF-YB
Ca4_P1_10330675	Ca4	10330675	GTTTTTTTT/GTTTTTTTTT	TGATTTGTATGCACA TTTGG	TTGCATGAAAAATTGT GAATGAT	60.4	747	INTERGENIC	--	--	--
Ca4_P1_10336098	Ca4	10336098	TTAATAATAATAATAATAATAATAA TAATAATAATAATAATAATAA/TTA ATAATAATAATAATAATAATAATAA TAATAATAATAATAATAATAATAAT AATAA	ACCAATCCCACAAGT CTTC	CGTCTTCACATCAACA ACAACA	60.0	832	INTERGENIC	--	--	--
Ca4_P1_10350088	Ca4	10350088	ATTTTTTT/ATTTTTTT	ATATTGTCCCGCAAAC GAAC	TGGGTTGAAGACGAAC ATTG	59.8	559	INTERGENIC	--	--	--
Ca4_P1_10439513	Ca4	10439513	GAAAAAAAA/GAAAAAAAA	CCTCTCTGCCTGAAGT GACC	GCAAGGATGCATTTGA AACA	60.0	516	INTRON	Ca_04281	Z	--
Ca4_P1_10460957	Ca4	10460957	CATATATATATATATATATATAT/CA TATATATATATATATATATATATATA T	TTAATTCCAATGGCGG GTAG	TCACATTAGCTTTTG GTCG	59.8	428	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_10612683	Ca4	10612683	TAAAAAAAAA/TAAAAAAAAA	AATCACGCAACAAGT GTCG	AGTCCAGCCGGCAGA TATAA	59.8	959	INTERGENIC	--	--	--
Ca4_P1_10624424	Ca4	10624424	TTAATAATAATAATAATA/TTAATA ATAATAATAATA	GGATGTCCCAAGGGT TTTT	GGATGATTCTGGAGC GAGAC	60.0	303	INTERGENIC	--	--	--
Ca4_P1_10629265	Ca4	10629265	ATTTTTTTTT/ATTTTTTTTT	GAGGGCCACCCCATAT TACT	TGATGAGTTTTCCCTC CAAAA	60.0	654	INTERGENIC	--	--	--
Ca4_P1_10655355	Ca4	10655355	TTATATATATATATATATATA/TTATATA TATATATATATATATA	TCGAAGCAGCAAAACA AATG	AAGGTCGCATCTCTCT CTCG	60.0	566	INTERGENIC	--	--	--
Ca4_P1_10657750	Ca4	10657750	T/TCTAACACTCTTTCC	ATACAAAAACATTTGG GCCG	TTCACATGAAGTGGCG AGAC	59.7	417	DRR	Ca_04301	--	--
Ca4_P1_10738318	Ca4	10738318	CA/CACATATA	CCGTCATAAAGGTTT CGAC	TTTGTTCATGCCCC CAAT	59.4	733	INTERGENIC	--	--	--
Ca4_P1_10875155	Ca4	10875155	CTATATATATATATATATATA/CT ATATATATATATATATATA	CACGAAGACAAATCTG CATGT	TCGGTTTTGAAACCAA AATG	58.8	651	INTERGENIC	--	--	--
Ca4_P1_10885811	Ca4	10885811	TCAATCCAGCAATC/TCAATC	TCACACACGGAAGGG TGTT	ATGCATTTCCACGCA CATA	60.0	420	INTERGENIC	--	--	--
Ca4_P1_10939792	Ca4	10939792	G/GAGTGTGGTC	GCAGCAAAAAGGGATA ACCA	AAGAAACCTCGTGTGC CATC	60.1	231	DRR	Ca_04328	GMW	NAC
Ca4_P1_11046179	Ca4	11046179	TAAAAATAAAATAAA/TAAAAATAAA AAAAATAAAATAAA	CTCTCCGTTCCGATCT TCAG	TTTTTACGTACCACAT CCATTATGA	59.9	454	INTERGENIC	--	--	--
Ca4_P1_11198337	Ca4	11198337	A/ATCTT	CTTTCAAACGACCTT CCAA	ATTTTCGTCAAGCATTC CCTG	60.1	570	INTERGENIC	--	--	--
Ca4_P1_11209323	Ca4	11209323	TAAAAAA/TAAAAA	TTAGTGTGAATTGAC GGCG	CAATGCCTAGAATCAC GGGT	59.7	960	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_11216142	Ca4	11216142	CGAGA/CGA	GCATAACCAATGCTCT TGGAA	ATTAAGACACTGGCGC GAAG	60.1	523	DRR	Ca_04353	U	M-type
Ca4_P1_11217933	Ca4	11217933	AAAAATAA/AAAA	CGCCTCGTGGACATCT CTAT	CCTCTTCAACACCGCA AGAT	60.2	232	INTERGENIC	--	--	--
Ca4_P1_11220000	Ca4	11220000	AAATAATAATAA/AAATAATAATAATAA	ATTCTTCGTGTACCG CACC	CTGATAGACCGACACA CACACA	60.0	465	INTERGENIC	--	--	--
Ca4_P1_11227743	Ca4	11227743	ATCTCTCT/ATCTCTCTCTCTCT	CGGGAGGTCCACTATT TTCA	ATTGCACCAACATCG TTGA	59.9	211	INTRON	Ca_04355	G	--
Ca4_P1_11228298	Ca4	11228298	CTT/CTTT	TTTTGTCTCATGTCAC CGC	CCCCCTCTTGAATAAA ATGAAA	59.7	893	INTRON	Ca_04355	G	--
Ca4_P1_11234449	Ca4	11234449	GCC/GC	TCATTGCAGCCTTTGT TTTG	GCAAATCATTTTGTCT GGGT	59.8	693	INTRON	Ca_04356	M	--
Ca4_P1_11238142	Ca4	11238142	ATATTATTATTATTATT/ATATTATT ATTATTATT	CCCTTTGTCTACAGT GAACG	TTCTTCGGAACCATT ATAAAAA	59.6	327	DRR	Ca_04357	O	NAC
Ca4_P1_11243897	Ca4	11243897	GC/GCC	CAATGGCTGCTTCAA GGAT	TCAACTTGCTGCTTCT GCAT	60.2	361	INTERGENIC	--	--	--
Ca4_P1_11245216	Ca4	11245216	GCTTGATCTCTTGCTCTTGATCTCT/ GCTTGATCTCTTGCTCTTGATCTCT TGCTCTTGATCTCT	TGGCTTGATTCTCCCA TTTC	AAGCTCTGCCAAGACA GGAA	60.0	876	INTERGENIC	--	--	--
Ca4_P1_11251984	Ca4	11251984	CTA/CTATA	TCTGATTGTGTTCTT GGCA	GGCCGAGATTTTCAAT TTCA	60.2	293	DRR	Ca_04358	R	--
Ca4_P1_11263983	Ca4	11263983	CAAAAAAAAA/CAAAAAAAAAAAAA	CGCATGTGTGCTTGAA TCTC	TCCACCAATTTTGCAT TGAA	60.4	786	INTERGENIC	--	--	--
Ca4_P1_11271331	Ca4	11271331	GTATTTT/GTATTTTATTTATTTT	AGATGGCATTGATGGT GGAT	CCTGGCAACAGAGCA AAAT	60.2	678	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_11281622	Ca4	11281622	TG/T	TTTAAGGCATGTGAGT TCAGC	TGCAAAATCAATACAT GGTTTCG	58.0	641	DRR	Ca_04359	--	--
Ca4_P1_11285447	Ca4	11285447	C/CAA	TCCACATGCACCTGTG AACT	AGTAGTGCCTCAAACC ACGG	60.2	382	DRR	Ca_04361	GE	GATA
Ca4_P1_11301484	Ca4	11301484	GTTTTT/GTTTTTT	CCATTGCGCACATTAA GAAA	TGCTTCAATGCAACAA CACA	59.7	561	INTERGENIC	--	--	--
Ca4_P1_11305082	Ca4	11305082	T/TG	CCTTGTAATCCCAGAG CCAA	TTCATCGTCTGAACCA TCCA	60.1	497	INTRON	Ca_04362	--	--
Ca4_P1_11305685	Ca4	11305685	CTGTGAGAT/CTGTGAGATGTGAGAT	CTGCGAACACAATCCA TCAC	TACAAGAAATCAATCG CCCC	60.1	600	DRR	Ca_04362	--	--
Ca4_P1_11317243	Ca4	11317243	ATCTCTCTCTCTCTC/ATCTCTCTC TCTCTC	CCTTCCACTGCCAAA CATT	CAATTGGTCGGTTTCT GGTT	60.0	430	DRR	Ca_04364	D	WRKY
Ca4_P1_11321691	Ca4	11321691	ATT/ATTT	AACATGTGGCTAACAA CCCTT	CAGAGAATCCGACTCC GAAA	58.5	316	INTERGENIC	--	--	--
Ca4_P1_11322366	Ca4	11322366	ATTT/ATTTTT	TTGTGAGGAATGCAAA CTGC	ACAATCATCATGCCAT CGAA	59.8	501	INTERGENIC	--	--	--
Ca4_P1_11322531	Ca4	11322531	TA/TAA	TTGTGAGGAATGCAAA CTGC	ACAATCATCATGCCAT CGAA	59.8	501	INTERGENIC	--	--	--
Ca4_P1_11324806	Ca4	11324806	CTTT/CTTTT	ATATCCCATCAGATCA CGCC	TTGTGGAAGATGTGGT CGAA	59.7	625	DRR	Ca_04365	--	M-type
Ca4_P1_11327468	Ca4	11327468	GAAAAAA/GAAAAAAA	GCGCATCATTTTGTCT CTCA	CTCGCACCATCCCAAA TAAT	60.0	339	INTERGENIC	--	--	--
Ca4_P1_11331229	Ca4	11331229	CTT/CT	ATGATGGCGCGAGTA TAAC	TCTCTTCTGCCCCAG TTTA	60.0	838	DRR	Ca_04367	U	FAR1

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_11331252	Ca4	11331252	TAAA/TAAAA	AGAGGGAAAAAGGG TTGAA	TCTCTTCGCCCCAG TTTA	59.9	742	DRR	Ca_04367	U	FAR1
Ca4_P1_11337470	Ca4	11337470	TG/TGTGAG	TTTCCCTCAAACGAAT CCTG	CGTCCGTGTTATTCCT CGAT	60.0	509	INTERGENIC	--	--	--
Ca4_P1_11339513	Ca4	11339513	ACAATTTTAGCTTCAATTTTA/ACAATT TTA	AAGGAAGCAAACCCAC TCAC	TGCTGACATTGTCAA TCAAAA	59.2	525	INTERGENIC	--	--	--
Ca4_P1_11340703	Ca4	11340703	CG/C	TCATCACCGTCCAATT TCAA	CTCCTTGCCCAATTTG TTGT	59.9	333	INTERGENIC	--	--	--
Ca4_P1_11344769	Ca4	11344769	TTGTTACT/TT	TCCTGGTGCTCCTCTG TCTT	TAGTCCACCCACAAC CACA	60.0	602	INTRON	Ca_04368	R	--
Ca4_P1_11352038	Ca4	11352038	GAGAGAGAG/GAGAGAGAGAAAGAG AGAGA	TGCCCATGTTTACCAC AAAA	CCCTCTCTCTCTCTCT CTCGG	59.8	898	INTERGENIC	--	--	--
Ca4_P1_11354394	Ca4	11354394	CAACAATAACAATAACAATAACAATAA CA/CAACAATAACAATAACAATAACA	GATGTTCTTTGCCCC ATAA	AGAGACAAATTCAGGG TGGG	59.8	720	INTERGENIC	--	--	--
Ca4_P1_11356453	Ca4	11356453	T/TCAAA	GCACTATTGCTGACTT GGCA	TTTTGGGTAATCAACG AGGC	60.0	304	INTERGENIC	--	--	--
Ca4_P1_11356736	Ca4	11356736	AG/AGTG	GCACTATTGCTGACTT GGCA	TTGGTAGAAAAATGTC ATCCAAAA	60.0	386	INTERGENIC	--	--	--
Ca4_P1_11356854	Ca4	11356854	A/AT	GCACTATTGCTGACTT GGCA	AAATCTCCTTCAATCAT GTTTATTTTT	60.0	712	INTERGENIC	--	--	--
Ca4_P1_11356900	Ca4	11356900	TTATATATATATATATA/TTATATATA TATATATATATA	ATCCAAACTTTGCCTC GTTG	AAATCTCCTTCAATCAT GTTTATTTTT	60.1	439	INTERGENIC	--	--	--
Ca4_P1_11357023	Ca4	11357023	C/CA	GCCTCGTTGATTACCC AAAA	GGCATGGACGTAGGC TAGAG	59.9	809	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca4_P1_11360175	Ca4	11360175	CTGATTTTG/CTGATTTTGATTTTG	AAATGAATCCCCAAT GTCA	TTATCAATCGAAAAAG AAACGC	60.0	212	INTERGENIC	--	--	--
Ca4_P1_11361302	Ca4	11361302	AATTA/AATTATTA	CAATAGCGTTTGTGA TCCG	CCCATTGAGCTCCA TCCA	59.2	417	DRR	Ca_04370	--	ERF
Ca4_P1_11371424	Ca4	11371424	T/TTA	TTTCTCTCATCCCCTC CCTT	TTCACTCCACATGTTT GATGG	60.0	484	INTERGENIC	--	--	--
Ca4_P1_11375704	Ca4	11375704	TG/T	CACAATTAACTGGGG TGGG	CATCTCAAACAACACA AGCCA	60.1	616	INTERGENIC	--	--	--
Ca4_P1_11380730	Ca4	11380730	GTA/GTATA	TAGTCAGTGGCCCTTC TGCT	GGATTTCGAAGCCATG AAAC	60.0	660	DRR	Ca_04371	--	--
Ca4_P1_11384567	Ca4	11384567	CTTTT/CTTTTT	AAGTATTGCATATTTGT GGGCA	TGGATTGAATCCGGT TTTG	59.4	486	DRR	Ca_04372	A	E2F/DP
Ca4_P1_11391824	Ca4	11391824	CAAAA/CAAAAAA	ATGCAATGAGATAAAC CGGC	CTGAAATTCGACATG CCCT	59.9	743	INTERGENIC	--	--	--
Ca4_P1_11392166	Ca4	11392166	AG/AGCATGCG	CTCAGAGCTCCAAAT CGCT	TTTGTGGTGGCATGT TTGT	59.7	347	INTERGENIC	--	--	--
Ca4_P1_11393203	Ca4	11393203	GCAT/GCATCAT	ACAAACATGCCACCAA CAAA	TCCATTGCTCACATT GGAA	59.9	585	INTERGENIC	--	--	--
Ca4_P1_11398641	Ca4	11398641	CAA/CA	CCTTTTCTCTGTGAC GAGC	CCTTTCAACCATCAAT TCCG	60.0	338	INTERGENIC	--	--	--
Ca4_P1_11416574	Ca4	11416574	ATATGT/AT	TTTTGCCGATAAGACT TTTTGTT	GCCATTGTTAACGGTG GTTT	59.2	547	INTERGENIC	--	--	--
Ca4_P1_11417977	Ca4	11417977	TGAA/TGAAGAA	CAAAGCTCGACAAATG TAAGAGAA	CCACATCCCAATTCAA GGAC	60.0	783	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_11424081	Ca4	11424081	GTTT/GTTTT	CGGTACCCCTTAGCTC ACAA	GAGATGGAGTTGGCA GTGGT	60.1	896	INTRON	Ca_04376	GC	bHLH
Ca4_P1_11435815	Ca4	11435815	AAC/A	CGGAGGTTTCAGTTCA GCTC	GTGAATTGGTCGAGC GGTAT	60.0	906	DRR	Ca_04378	S	--
Ca4_P1_11441070	Ca4	11441070	TAAAAA/TAAAAAA	GCTGGCCACAATCCAT ATTG	ACCACCGAGGTTTGAG ACAC	60.3	243	DRR	Ca_04379	O	MYB_related
Ca4_P1_11443015	Ca4	11443015	AATT/A	GGCTTGGTGTGGGTTT ACAT	AGGCCCTTAGTTGTC TCGT	59.7	614	INTERGENIC	--	--	--
Ca4_P1_11447148	Ca4	11447148	TAA/TA	ACGTGGTCCATTTTA GCCA	GCATTGCTATCATTAC TGTGCG	60.4	687	INTERGENIC	--	--	--
Ca4_P1_11447220	Ca4	11447220	ATTTT/ATTT	ACGTGGTCCATTTTA GCCA	GCATTGCTATCATTAC TGTGCG	60.4	687	INTERGENIC	--	--	--
Ca4_P1_11447874	Ca4	11447874	CAGAG/CAG	TCGCACAGTAATGATA GCAATG	TGGATAATATGGGCGG TGAT	58.9	461	INTERGENIC	--	--	--
Ca4_P1_1144979	Ca4	1144979	CATATATATATATATATATATATA TA/CATATATATATATATATATATA ATA	AACGCATGCAATCTAT TCCC	ATTGTTGGCGTCTTCC AAAC	59.9	813	INTERGENIC	--	--	--
Ca4_P1_11451772	Ca4	11451772	TGTAA/T	TGACGGATACTCCAAC ACCA	CAAACCCACCAGATCC AACT	60.0	845	INTRON	Ca_04381	--	--
Ca4_P1_11452051	Ca4	11452051	AG/AGG	TGGTGGTTTTGCTTTG GTAA	GCAACACGAAGCTGAA AACA	59.1	913	INTRON	Ca_04381	--	--
Ca4_P1_11459465	Ca4	11459465	TATCTAATCTAATCTA/TATCTAATCTA ATCTAATCTA	GTTGGGAAGTTGCACA CCTT	TGCCCTTGATTTTGA TCTC	60.0	299	INTERGENIC	--	--	--
Ca4_P1_11468207	Ca4	11468207	CCTA/CCTAGCTA	GGTGAATGTCATGAT GTGG	TTGACGAGGAAGTTTG AATGAA	59.6	962	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_11471153	Ca4	11471153	CAAA/CAAAA	TTCGATTGTTCAAACCT ATTCAA	TTGGCCATCGTTTGAA TTTT	59.6	787	INTERGENIC	--	--	--
Ca4_P1_11472411	Ca4	11472411	CATATATATATATATATATATATATA TATATATATAT/CATATATATATATATA TATATATATATATATAT	TTTCTGTCTCCTCGG TTGG	AATTATTGATGTCGG AACGAA	60.2	474	INTERGENIC	--	--	--
Ca4_P1_11479120	Ca4	11479120	AT/ATTTT	AATTGAAGGTTATTTT GGAATCA	AGTGTCATGCGCACAC AAAT	58.1	372	INTERGENIC	--	--	--
Ca4_P1_11482459	Ca4	11482459	TA/TAA	TGGGGAGACAAGGGA GTATG	TGGGATTAAGCCCTT GACA	59.9	252	INTERGENIC	--	--	--
Ca4_P1_11492800	Ca4	11492800	AAAAACAA/AAAACAATAAACAAACAA	CTCACACACCCAAAGA AGCA	AACATCATGGTCAGCA CCAA	59.9	543	INTERGENIC	--	--	--
Ca4_P1_11493423	Ca4	11493423	ATTTTTT/ATTTTTTT	CAAAGAAGCTGACCCT GGAG	CCCATAACTGGATGGG AGAA	60.0	679	INTERGENIC	--	--	--
Ca4_P1_11494266	Ca4	11494266	GAA/GAAAAA	TAACGACGCAAGCATT TCTG	GGTGCGAGAGAGAAA ACCTG	60.0	598	INTERGENIC	--	--	--
Ca4_P1_11494600	Ca4	11494600	ATAAATTTAAATTTAAATTTA/ATAAAT TTAAATTTA	CAGGTTTTCTCTCTCG CACC	CAACACAACCCGTGAA CATC	60.0	398	INTERGENIC	--	--	--
Ca4_P1_11504328	Ca4	11504328	TTATATATATATATATATAT/TTATATAT ATATATATATATAT	AACCTTTTAAAAATGA CATTTCG	AAGGAAGGCCTACTCC CAAA	57.9	359	INTERGENIC	--	--	--
Ca4_P1_11505377	Ca4	11505377	GAT/GATAT	CAAGTGCCTTCGGCAT TAGT	GATACACCGTCATCAT TGCG	60.3	618	INTERGENIC	--	--	--
Ca4_P1_11506583	Ca4	11506583	CTTA/CTTAATTA	CTCGACATCATGGTTC ATGG	CGGATCTATGCATGGG ATAA	59.9	507	INTERGENIC	--	--	--
Ca4_P1_11507043	Ca4	11507043	ATTT/ATTTT	TTATCCCATGCATAGA TCCG	TTATGGCAAGAATAGT TTTATCATTTT	58.4	796	INTERGENIC	--	--	--

[illegible]

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_11570032	Ca4	11570032	CAATTAAT/CAAT	TGGGTCCGACAAAGGA ATAG	TGTGGCAAATGCAACA AATAA	59.9	848	INTERGENIC	--	--	--
Ca4_P1_11594941	Ca4	11594941	TAA/TAAAA	TCAAGACGGACACATT TGCT	GGGATTAAAAATGCCG ATCA	59.3	512	INTERGENIC	--	--	--
Ca4_P1_11663675	Ca4	11663675	AATATATATATATATATATATATATA /AATATATATATATATATATATATAT ATATATA	TCACTTGTGCTTGGAT TTGC	TGTTCTCATCAACAA TTTTGGTCT	59.8	845	INTERGENIC	--	--	--
Ca4_P1_1169667	Ca4	1169667	TTTATTATTATTATTATTATTATTATA TTATTATTATTATTATTATTATTATT ATTATTTTATTATTATTATTATTATT TTATTATTATTATTATTATTATTATT	TTTTAGCCCGTTTTG TTCA	TAAGGTGTCCGACATC AGATT	60.5	701	DRR	Ca_07748	OU	--
Ca4_P1_11753197	Ca4	11753197	AAATAATAATAATAATAATAATAAT AATAATAATAATAATAATAATAATA ATA/AAATAATAATAATAATAATAA TAATAATAATAATAATAATAATAAT AATA	CATGCCGGAAGAAGGA ATAA	TGTTCTCTCTCCCTC TCCT	60.0	492	INTERGENIC	--	--	--
Ca4_P1_11769762	Ca4	11769762	TA/T	TCCATAGTGGAGATGC GACA	GGAACATGCGAATCAC AAAA	60.2	666	INTERGENIC	--	--	--
Ca4_P1_11809196	Ca4	11809196	TAATTAATTAATTT/TAATTAATTA ATTAAATT	TGATCGAGTGAGAAAA CAAACAA	GGTTTCAAATCGAAA TCCAA	59.8	297	INTERGENIC	--	--	--
Ca4_P1_11818956	Ca4	11818956	CAAA/CAAAA	CCAAAACATGAAAGCA ACAAAA	TAACATTGATGGCAGA GGCA	60.0	170	INTERGENIC	--	--	--
Ca4_P1_1185780	Ca4	1185780	AATATATATATATATATATATATATA T/AATATATATATATATATATATAT	AATCATGGGCCTGTAA CTGC	CTGGTTGCAATCCTCC ATTT	60.0	439	INTRON	Ca_07749	D	--
Ca4_P1_11866901	Ca4	11866901	TATAATAATAATAATAA/TATAATAA A	GAATAGACCAGGCCAG ACCA	CTATTAGGCCTGACAA GGCG	60.1	493	INTERGENIC	--	--	--
Ca4_P1_11927566	Ca4	11927566	A/AAAAAACT	AACTCAACCCATTCAAT GCC	TGTCTATATGCCAAGA TGATGGA	59.8	427	DRR	Ca_04414	O	Trihelix
Ca4_P1_11988786	Ca4	11988786	TAAAAATTAATAAAAA/TAAAAATTA TAAAAAATTAATAAAAAA	TCITTAACAAGTGTCG TGCCA	GGCAACTGGGAAGCA AATAA	59.4	654	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_12015084	Ca4	12015084	CATATATATATATATATATATAT/CA TATATATATATATATATATATATAT	ACCATAAAACAGCCTC CACG	GTGTTGCGATTTGGT GTTG	60.0	499	INTERGENIC	--	--	--
Ca4_P1_12027795	Ca4	12027795	AAAAAAGAAATAAAAGAAATAAA/AA AAAAGAAATAAA	GATGTCGTCATGGCTG TTTG	TCATTGCGTTCCTTAG TGCG	60.1	510	INTERGENIC	--	--	--
Ca4_P1_12063127	Ca4	12063127	GTTTTTTT/GTTTTTTT	TTTGTGTGCGTTTGA CTGA	CAGCACATAGTAAAC TTGGCG	58.9	483	INTERGENIC	--	--	--
Ca4_P1_12078532	Ca4	12078532	GTTTTTTTTT/GTTTTTTTTT	CAAAACGGTTCTGTTT CAAAA	GAGTTCAACCGATTCT TCCG	60.0	838	DRR	Ca_04432	--	C2H2
Ca4_P1_12098577	Ca4	12098577	GAAA/GAA	TGGATTTGAGTGCTTC CACA	TGCGCATGAAAAGAAA ATGA	60.2	761	INTERGENIC	--	--	--
Ca4_P1_12313260	Ca4	12313260	G/GA	ATATTTTCGATGTGCA GGGC	TGAAGGAGGCTTCTAG GACG	59.9	545	DRR	Ca_04455	J	--
Ca4_P1_12334767	Ca4	12334767	C/CTATT	GTCCTCCAACGACCC AAAA	AGGTTAGGTCGTCCGT CAAG	59.9	377	INTERGENIC	--	--	--
Ca4_P1_12351718	Ca4	12351718	TAAAAAAAA/TAAAAAAAA	CTGCAACAAGTGGCAT ATGAT	AACGAGATCGTTCTC CAAA	58.7	328	INTRON	Ca_04459	M	--
Ca4_P1_1237884	Ca4	1237884	AATATATATATATATATATATA/A ATATATATATATATATATA	GTGGTCTGGAACATCG TCCT	TTGCAGTTGCAATATC GTTG	60.0	863	INTERGENIC	--	--	--
Ca4_P1_12469703	Ca4	12469703	ATTTTTTTTT/ATTTTTTTTT	CATTTTCTGTGTTGGG ATTTC	GATGCTGCGTTTGCCT AAAT	60.2	470	INTRON	Ca_04469	Z	bHLH
Ca4_P1_12472732	Ca4	12472732	GAAAAAAAA/GAAAAAAAA	GGGGAGTTTGGTTCCT TATTTT	GATCAACGGCGAGAG AAAAG	59.6	465	DRR	Ca_04469	Z	bHLH
Ca4_P1_12479687	Ca4	12479687	GA/GAA	GATGCCCCACAACCAC TACT	CGAGACCAAGAAACG GAAAA	59.9	164	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_12489843	Ca4	12489843	AAG/A	CCATAAGCAGAAAATT GCGG	GCTTAGCTGGGATTCC TTCC	60.6	351	DRR	Ca_04472	R	NAC
Ca4_P1_12490666	Ca4	12490666	TGTAGTAGTAGTAGTAGTAGTAG TA/TGTAGTAGTAGTAGTAGTAGT AGTAGTAGTAGTAGTAGTAGTA	GGAATATGGCAGCAGA CGAT	GCCTGCATATGGCTAA GAGC	60.1	734	DRR	Ca_04472	R	NAC
Ca4_P1_12493651	Ca4	12493651	ATTTTT/ATTTTTTTT	ATTCTCGTCCGTTTT CAGA	TTTTTCTTCTGATTG GTCC	59.7	293	DRR	Ca_04473	--	--
Ca4_P1_12493732	Ca4	12493732	AAGATA/AA	ATTCTCGTCCGTTTT CAGA	GAAAGTGACATTGACC TTCTCCT	59.7	699	DRR	Ca_04473	--	--
Ca4_P1_12493934	Ca4	12493934	TAAAAAAA/TAAAAAAA	ATTCTCGTCCGTTTT CAGA	GAAAGTGACATTGACC TTCTCCT	59.7	699	DRR	Ca_04473	--	--
Ca4_P1_12498624	Ca4	12498624	TAAAAA/TAAAAA	TAAATTGGCCTCAAA GCC	CCATGCACACGGATCA AATA	59.9	389	INTRON	Ca_04473	--	--
Ca4_P1_12504646	Ca4	12504646	TAAAAAATAA/TAAAAAATAAAA AATAAA	TGGCACCAAGATACC ATCA	TGCAACCGCAATATT ACCA	59.9	328	INTRON	Ca_04474	--	MIKC
Ca4_P1_12504806	Ca4	12504806	CAAA/CAAAA	TGGCACCAAGATACC ATCA	TGCAACCGCAATATT ACCA	59.9	328	INTRON	Ca_04474	--	MIKC
Ca4_P1_12505498	Ca4	12505498	ATATATATATA/ATATATATATGTATAT ATATA	GCAAGGACAAGGGAT GTAGG	TCAACCGCAATTGAGA TTTTTC	59.6	677	INTERGENIC	--	--	--
Ca4_P1_12505639	Ca4	12505639	GTCTTAA/GTCTTAAATATCTTAA	GCAAGGACAAGGGAT GTAGG	TCAACCGCAATTGAGA TTTTTC	59.6	677	INTERGENIC	--	--	--
Ca4_P1_12506017	Ca4	12506017	ATTTTTTT/ATTTTTTTT	TCAATTGCGGTTGAAT TATCA	AAGCTGCTCTCAACAC CCAT	59.0	485	INTERGENIC	--	--	--
Ca4_P1_12507863	Ca4	12507863	AAAAGAAA/AAAA	ATTGAGCACATGCCAC TGTC	CCTTCAATGTGGTGGT AGGG	59.7	827	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_12508938	Ca4	12508938	AACTA/AACTACTA	TGGACGAGCAAAAAGA GACA	GGCAAACAATAGCCAC CATT	59.6	810	INTERGENIC	--	--	--
Ca4_P1_12509526	Ca4	12509526	CTTTTT/CTTTTTTT	AATGGTGGCTATTGTT TGCC	CGGATTTTAAGACCGA TCCA	59.8	726	INTERGENIC	--	--	--
Ca4_P1_12518595	Ca4	12518595	ATTTTTTT/ATTTTTTTTT	GGAGCCTTACACATGT GGCT	TCATTGTGAGATTGT CACGTT	60.1	364	INTERGENIC	--	--	--
Ca4_P1_12520618	Ca4	12520618	AATATATATATAT/AAATATATATATA TATAT	TCAAAGCTGCATTTTG TTGC	TTCGTATGCTATGCAC GCTC	60.0	441	INTERGENIC	--	--	--
Ca4_P1_12525819	Ca4	12525819	GTT/GTTT	GCTGCGTTCAAGAATC ACAA	AGACAAGGCCGGAAC TTTTT	60.0	768	INTRON	Ca_04475	C	bZIP
Ca4_P1_12526163	Ca4	12526163	T/TTA	GGGTTTTCAACACAC GCTA	GAGAAGCTGTGCCAAT AGCC	59.9	530	INTRON	Ca_04475	C	bZIP
Ca4_P1_12526734	Ca4	12526734	CTAATTAATTAA/CTAATTAATTAATT AAT	GGCTATTGGCACAGCT TCTC	AAAGCCACCACCTGTT TGTC	60.0	557	DRR	Ca_04475	C	bZIP
Ca4_P1_12528293	Ca4	12528293	AT/ATT	TTCCTTCGACCAACAA AACC	CATGGGACCCTAGCG TTAAA	59.9	573	DRR	Ca_04475	C	bZIP
Ca4_P1_12528908	Ca4	12528908	GTATA/GTA	TAACGCTAGGGTCCCA TGTC	TCGTTTTGATCATTAT CGTTTTT	60.0	720	INTERGENIC	--	--	--
Ca4_P1_12529378	Ca4	12529378	CTTTTTTT/CTTTTTTTTT	AAAACGATAAATGATCA AAACGAA	TAGGCATGACAAATTG ACCG	59.0	565	INTERGENIC	--	--	--
Ca4_P1_12529895	Ca4	12529895	TAA/TAAA	AACGTGTTCAAACCTCG GAGC	ACAACACCTTATTCTG CGCC	60.3	630	INTERGENIC	--	--	--
Ca4_P1_12529954	Ca4	12529954	CTTTT/CTTTTT	AACGTGTTCAAACCTCG GAGC	AGCTTAGCTGGGTGG GTTTT	60.3	707	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_12529978	Ca4	12529978	T/TC	AACGTGTTCAAACG GAGC	AGCTTAGCTGGGTG GTTTT	60.3	707	INTERGENIC	--	--	--
Ca4_P1_12531006	Ca4	12531006	AATATATATATA/AATATATATATAT ATATATA	CAACCTCAACCTGACC CAGT	ATCACCCAATTGGAAG CAAA	60.0	255	INTRON	Ca_04476	--	--
Ca4_P1_12532996	Ca4	12532996	C/CA	ATGAATTTGATGAGCA GGGC	GTTCCAGTTGCCCTGT GTTT	60.0	349	DRR	Ca_04477	K	MYB
Ca4_P1_12535193	Ca4	12535193	GAAAAAAA/GAAAAAA	CGAAGCCTGCAACTTT TACC	CCAAACATGCAGGTT CTCT	59.9	231	DRR	Ca_04476	--	--
Ca4_P1_12542560	Ca4	12542560	TAAAAAAA/TAAAAAAA	TGCCAAATTGTGTTTG TCGT	TATGACGGGAATGCAT TTGA	60.0	631	INTERGENIC	--	--	--
Ca4_P1_12544410	Ca4	12544410	TAATAAATAAATAAATAAATAA/TAAT AAATAAATAAATAA	ATCAATCTTCAGACGG CCAC	ATTTGACGGTGCAATC CTTC	60.1	658	INTERGENIC	--	--	--
Ca4_P1_12545942	Ca4	12545942	GTTTTTTTTTT/GTTTTTTTTTT	GTCATTTCTTCCCCT GACA	CATTTTTGACAACCGA TTGTTTT	59.9	444	INTERGENIC	--	--	--
Ca4_P1_12546019	Ca4	12546019	TAAAAAAA/TAAAAAAA	GTCATTTCTTCCCCT GACA	TTGTTGAATTGCAGCT TGAGA	59.9	883	INTERGENIC	--	--	--
Ca4_P1_12548954	Ca4	12548954	TAAAA/TAAAAA	AAGCATGCGAATGTAT TACTGC	CATGAGGGCTTAAACA AGGAA	59.3	487	INTERGENIC	--	--	--
Ca4_P1_12554922	Ca4	12554922	GTTTTTTTTTT/GTTTTTTTTTTTT	TCGGCTTACCCTAAGA AGCA	GTGATTGCGCTGCAGT TTTA	60.0	701	DRR	Ca_04478	A	EIL
Ca4_P1_12555007	Ca4	12555007	TC/TCAAAC	TCGGCTTACCCTAAGA AGCA	GTGATTGCGCTGCAGT TTTA	60.0	701	DRR	Ca_04478	A	EIL
Ca4_P1_12559779	Ca4	12559779	ACCC/ACC	TCAGGACACAACCAAA TCCA	AGCCCAAGATGGAGAA GGAT	59.9	428	INTRON	Ca_04478	A	EIL

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_12559873	Ca4	12559873	TATAATAATAATAATA/TATAATAATA TAATAATAATA	TCAGGACACAACCAAA TCCA	GGGACGGACAGACAG TGATT	59.9	661	INTRON	Ca_04478	A	EIL
Ca4_P1_12565536	Ca4	12565536	ATTTTTTTTT/ATTTTTTTTT	CATGAATCTCAATTGG TGCG	GGCCAAGTTGATTAC AACA	60.1	534	INTERGENIC	--	--	--
Ca4_P1_12565888	Ca4	12565888	AC/A	GTTGTGAATCAACTTG GCCC	TAGGTCATGACGGAC GGTCT	60.4	206	INTERGENIC	--	--	--
Ca4_P1_12566497	Ca4	12566497	CTTTTTTT/CTTTTTTTTT	CCGTCGTCATGACCT ATAA	CATCTCAAACAACTC GGACA	58.4	718	INTERGENIC	--	--	--
Ca4_P1_12566654	Ca4	12566654	AG/A	TCAGTCTTTCCATATTC TCTCCG	AAAACCCAGGAGGTCA GCTT	59.7	619	INTERGENIC	--	--	--
Ca4_P1_12567928	Ca4	12567928	AATATATATAT/AATATATAT	ATTCGGCAATTCTACC CCTT	GAGGTAGAGCTCGAC GATGG	59.8	446	INTERGENIC	--	--	--
Ca4_P1_12569665	Ca4	12569665	CTTTTT/CTTTT	ATCTCCTTTCCGGAGC AAAT	GGGGCAGTTGTAGCC TTGTA	60.0	174	DRR	Ca_04479	E	--
Ca4_P1_12571013	Ca4	12571013	GTATATA/GTATA	GGCTCACATCAGGAAT GGAT	GGCTCTTGGTCATTGG ATGT	59.9	968	DRR	Ca_04479	E	--
Ca4_P1_12571941	Ca4	12571941	AA/AATTTA	ACATCCAATGACCAAG AGCC	TTGTTTTGCATGCTCT TCCA	59.9	820	INTERGENIC	--	--	--
Ca4_P1_12572622	Ca4	12572622	TAAAAAAAA/TAAAAAAAAA	TGGAAGAGCATGCAAA ACAA	TGAGATCTTGAGGCAT GGTG	60.4	644	INTERGENIC	--	--	--
Ca4_P1_12578358	Ca4	12578358	TAT/TATACCAGCAT	AGGCTTCTTAGGCATT GGGT	ATTCTTGTAATCCCGC GTTG	60.1	346	INTRON	Ca_04480	L	--
Ca4_P1_12581069	Ca4	12581069	TAA/TA	TTTGTAGTGCCGCTT TTTG	CTTCAGGAGGGTGATA CCGA	60.2	468	INTRON	Ca_04480	L	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_12582939	Ca4	12582939	TTAATATAA/TTAA	CAAGCTGTACCTGGG GTGT	CCGAAAAAGCATCACT GGTT	60.0	503	INTRON	Ca_04480	L	--
Ca4_P1_12587309	Ca4	12587309	TT/TTGT	GCAAAACAAGGTACGGG TCAT	ACAAAAGTGTGGCGG TTTC	59.9	102	INTERGENIC	--	--	--
Ca4_P1_12588722	Ca4	12588722	ATTTTTTTTT/ATTTTTTTTT	GGTTCATCAACGCTTC CACT	CACGCATCAGATCTCG AAAG	60.1	361	INTERGENIC	--	--	--
Ca4_P1_12588936	Ca4	12588936	CTTTTTTT/CTTTTTTTTT	CTTCTCGTGGGTCTG AAGG	AGCATTACCAAATGC CACA	59.8	861	INTERGENIC	--	--	--
Ca4_P1_12589173	Ca4	12589173	ATTTTTTTTT/ATTTTTTTTT	CTTTCGAGATCTGATG CGTG	ACAACGTCTCCATTA CGCC	59.5	753	INTERGENIC	--	--	--
Ca4_P1_12589473	Ca4	12589473	G/GA	TGTGGCATTTTGGTAA TGCT	ACAACGTCTCCATTA CGCC	59.0	200	INTERGENIC	--	--	--
Ca4_P1_12591540	Ca4	12591540	CAAA/CAA	GTCCAAGCGTGTGG TTTT	ATTCGTAATGACAAAG CGGC	60.0	495	DRR	Ca_04481	R	--
Ca4_P1_12592291	Ca4	12592291	ATA/ATACAAATACTTGATGTA	TGACTGCCGCTTTGTC ATTA	TTTCGATTCAAACCA AACC	60.4	588	DRR	Ca_04481	R	--
Ca4_P1_12593132	Ca4	12593132	AT/ATGTTGT	TCACTGTAAGTCCATG CCTCC	GCCCTTGTCAAAACAA GTTGA	60.1	454	INTERGENIC	--	--	--
Ca4_P1_12593182	Ca4	12593182	TAAAA/TAAA	TCACTGTAAGTCCATG CCTCC	GCCCTTGTCAAAACAA GTTGA	60.1	454	INTERGENIC	--	--	--
Ca4_P1_12593930	Ca4	12593930	AATATATAT/AATATATATAT	TCAACTGTGTTTGACAA GGGC	TCTCCCATAGCTGCAC ACTG	60.1	733	INTERGENIC	--	--	--
Ca4_P1_12594218	Ca4	12594218	TCTCT/TCTCTCTCCCTCT	TGAAAAGGCTAAAAAC CAAACC	TCTCCCATAGCTGCAC ACTG	59.5	270	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_12594574	Ca4	12594574	TTTTTT/TTTTTTCTTTCTTTTT	CAGTGTGCAGCTATGG GAGA	TCAACATGGAGGAGCA ACAA	60.0	463	INTRON	Ca_04482	R	--
Ca4_P1_12595116	Ca4	12595116	TAA/TA	AATGGTTGCAGCCCA TAAG	GGTCCACCAGTCCAT AAAA	60.0	576	INTRON	Ca_04482	R	--
Ca4_P1_12596654	Ca4	12596654	AAGA/AA	TTTCCTAAGCCAGGCA AAAA	TCATGCATTTATCCCC ACAA	59.8	488	DRR	Ca_04482	R	--
Ca4_P1_12597000	Ca4	12597000	AT/ATCTAATGGT	CACATGGTTCCAGTT CCTT	CTTATGGCGTGGCCTT AAAC	59.8	820	DRR	Ca_04482	R	--
Ca4_P1_12604165	Ca4	12604165	CTTTTTTTTTTT/CTTTTTTTTTTT	CGATTTCACTTCCCCA ACTT	AGCAGCAGAAAGCATG GACT	59.0	209	INTERGENIC	--	--	--
Ca4_P1_12604453	Ca4	12604453	ATTTT/ATT	AGTCCATGCTTTCTGC TGCT	ATTTCACAATGGGGC TGAG	60.2	669	INTERGENIC	--	--	--
Ca4_P1_12605843	Ca4	12605843	ATTTTTTT/ATTTTTT	TGAGAAGTTTCATGGA TTCATTTT	AATGGAACAACGGAG GTGAG	59.0	154	INTERGENIC	--	--	--
Ca4_P1_12609866	Ca4	12609866	TA/TAA	ACAGGTAGTTGGCGAT GCTT	GTGGTTCCCACTGCCT AAAA	59.8	339	DRR	Ca_04483	O	TCP
Ca4_P1_12641907	Ca4	12641907	CAAAAAAAAA/CAAAAAAAAAA	TGGTGGAATGGTGG AGTT	TTTTTCGCCTGGTGGT ACTT	60.2	883	INTERGENIC	--	--	--
Ca4_P1_12644877	Ca4	12644877	CATATATATATATATAT/CATATATA TATATATATATATAT	TCACTTGTTAGTATGA CCACAACA	TTTGAGGCCATTAGTT TGGG	57.3	877	INTERGENIC	--	--	--
Ca4_P1_12660952	Ca4	12660952	ATTTTTTTTTTT/ATTTTTTTTTTTT	CCCATCTGGGTCAAT ACAT	TGATGAAGTTGTGTGC ATTTGA	59.5	713	DRR	Ca_04489	--	STAT
Ca4_P1_12665673	Ca4	12665673	ATCT/ATCTCT	TTACCCCAATCCCCTA CACA	TTTGATGAACGGA TCTTTTG	60.0	524	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_12665730	Ca4	12665730	CAAAAAAAAA/AAAAAAAAAA	TTACCCCAATCCCTA CACA	GATGAATTGATTCTC TGTGCA	60.0	642	INTERGENIC	--	--	--
Ca4_P1_12667466	Ca4	12667466	GTTTTTTTTT/GTTTTTTTTT	TCTCTTCCTAGCTTG CATCG	TGGTTGCTAGAAAATT GAACGA	59.7	633	INTERGENIC	--	--	--
Ca4_P1_12672011	Ca4	12672011	GTTTTTTTTT/GTTTTTTTTT	AGATTGGGCCACATTC ATTT	AAATCAAAATGTTGGC AGAAAA	59.2	205	INTERGENIC	--	--	--
Ca4_P1_12676299	Ca4	12676299	CATATGTGATATGTGATA/CATATGTG ATATGTGATATGTGATA	GATCTCGGGTTAGATG GTCG	TCCACTCTCGCTCTCA ATCC	59.5	740	INTERGENIC	--	--	--
Ca4_P1_12697543	Ca4	12697543	ATTTTTTT/ATTTTTTT	AACCAAGAAAGGTGC AACA	ATCGGTTAGAGCCAAC AACG	60.5	882	INTERGENIC	--	--	--
Ca4_P1_12699163	Ca4	12699163	TAAAAAAAA/TAAAAAAAA	TTGTAACCGCTTAAGC ACATTT	GCTTCACATTTAAAGC AATTTTCA	58.9	595	INTERGENIC	--	--	--
Ca4_P1_12715012	Ca4	12715012	TA/TATAGAAAGA	AGAAGCGATGCAGACA ACTTT	AGGGGCGAATATCGC TAACT	59.1	373	INTERGENIC	--	--	--
Ca4_P1_12724267	Ca4	12724267	GAAAAAAAA/GAAAAAAAAA	CCAAGTGCAATGACGA GCTA	CAAGGATATGGATCCA ATGTGA	60.0	610	INTERGENIC	--	--	--
Ca4_P1_12741131	Ca4	12741131	GTTATTATTATTATTATTATTATTA TTATTATT/GTTATTATTATTATTAT TATTATTATTATTATTATTATT	AACAACGGTTCAACCT CACG	ATACGCACATCGCCAC ATTA	61.0	681	INTERGENIC	--	--	--
Ca4_P1_12760776	Ca4	12760776	TAAAAAAAA/TAAAAAAAA	TTCTAACACATGGGA GAGAAAA	AAGGCCAAAGTCATA ACCC	59.2	215	INTERGENIC	--	--	--
Ca4_P1_12796042	Ca4	12796042	TAAAAA/TAAAAA	ATTTACGGCGCTTTTT CAGA	GCATGCTGCAAGGGA TAGTT	59.9	514	INTERGENIC	--	--	--
Ca4_P1_12832103	Ca4	12832103	GTT/GT	GCGTTTCCAATGGATG AAGT	ATGCCGAAAAAGACTG GTCA	59.9	203	DRR	Ca_04501	T	ARR-B

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_12853488	Ca4	12853488	TGCACAGCACAGCACAGCACA/TGCA CAGCACAGCACAGCACAGCACA	CCCTTGAAGGACACA AGTT	TTTGAAGGAAAGAGGC ATGG	59.0	693	INTERGENIC	--	--	--
Ca4_P1_12866217	Ca4	12866217	GGG/GGGAGCTTTATTTTTTGG	TAGACTCCACTAAGCC CCCA	CCTTCCAACGCAACAT TTCT	59.7	294	DRR	Ca_04506	T	FAR1
Ca4_P1_12885868	Ca4	12885868	ATTTTTTTTT/ATTTTTTTTT	AGGTCATTGGTGTGCA AGGT	TGAAGCTGACTGCAT TTGG	60.4	666	DRR	Ca_04508	R	--
Ca4_P1_1291755	Ca4	1291755	CTTGTTGT/CTTGTT	ATAGCCTCACGCGTT CATA	CCTCACACTTAAATT CGGCA	60.6	310	INTERGENIC	--	--	--
Ca4_P1_12929423	Ca4	12929423	AATATATATATATATATATAT/AATA TATATATATATATATATATATAT	ATATCGGCATCCCAA ATAC	TCAACTCATGTGTATC AATCGAA	59.8	506	INTERGENIC	--	--	--
Ca4_P1_13017972	Ca4	13017972	AATATATATATATATAT/AATATATA TATATATATATAT	CCAATATTGCTTTGGG ACTG	TTTGTGGAAGGGGTT ATCA	58.1	466	DRR	Ca_04523	V	GRAS
Ca4_P1_13028368	Ca4	13028368	CTTGTTG/CTTGTTGTG	TGCACGCTCCACATTA TTTC	CTTTTCTGGGGCAAT TGAA	59.7	367	INTRON	Ca_04525	T	bHLH
Ca4_P1_13068436	Ca4	13068436	AATATATATATATATATATATATAT/ AATATATATATATATATATATATA TATATATATAT	GCTCAATTTTCTTAGG GCG	TGTCGCAACAATTTGT CTCTT	59.0	432	INTERGENIC	--	--	--
Ca4_P1_1309061	Ca4	1309061	GAAAAA/GAAAAAA	AGCTACAAAATGGGCA ATGG	CCACGGTACCGAAAAA TGAT	60.0	237	INTERGENIC	--	--	--
Ca4_P1_1310245	Ca4	1310245	ATTTTTTTTT/ATTTTTTTTT	TGAAATTGCTTGATTT GCTTT	CGACCGATTTTATCCG TCTC	58.9	825	INTERGENIC	--	--	--
Ca4_P1_13133292	Ca4	13133292	ATTTT/ATATATTTTT	CAGCCGCCTCCAAC TTAC	CCATCCATGCAATTGA ACAC	59.7	408	INTERGENIC	--	--	--
Ca4_P1_13210889	Ca4	13210889	G/GCCATCTGATTCT	TTGTCTTTTGGGCTG CTCT	GGTCACACAAATGC CAAG	60.0	388	INTERGENIC	--	--	--

[illegible]

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_13604501	Ca4	13604501	TGG/TGGG	GCACCGTTGCAATCTT TGAT	GACATGCCCTGTTC ACTT	61.0	763	INTERGENIC	--	--	--
Ca4_P1_13612180	Ca4	13612180	CTAT/CTATAT	TGTTTCGACATTCCTC GTTG	CCAAATTCACGAGAAC CAAAA	59.7	782	INTERGENIC	--	--	--
Ca4_P1_13612409	Ca4	13612409	AACAATCAACACAATCA/AACAATCA	GCACCCTAACACTTCT TGCAT	CACCAAAATCACGAGA ACCA	59.3	329	INTERGENIC	--	--	--
Ca4_P1_13614309	Ca4	13614309	C/CTCACCTG	CATTTGATTCGAGTGG CACA	GTGGTCGGTTTAAAGT CGTT	60.7	373	INTERGENIC	--	--	--
Ca4_P1_13614386	Ca4	13614386	TAAAAAA/TAAAAAAA	CATTTGATTCGAGTGG CACA	GTGGTCGGTTTAAAGT CGTT	60.7	373	INTERGENIC	--	--	--
Ca4_P1_13617448	Ca4	13617448	TG/TGG	GGGCCTTTTCTTCAGC TTTT	TGCATGTTATCCGCAA TCTC	59.8	713	DRR	Ca_04579	--	--
Ca4_P1_13624309	Ca4	13624309	CTTT/CTT	CTGGAAAAGAAGAGGG GGAC	CAGGTTGGTCGAATCA TGTC	60.0	748	DRR	Ca_04580	--	--
Ca4_P1_13626293	Ca4	13626293	TTAATA/TTA	TTTCAACTCGAGCATT GTGC	AGCACCTTAACCTCCA CCCC	60.0	374	INTERGENIC	--	--	--
Ca4_P1_13629046	Ca4	13629046	AAAAATAAAAT/AAAAATAAAATAAAAT	AGCGTTTGTGGATGGA AGAC	CGAAGGTTCAAAAAGA CACGA	60.1	399	INTERGENIC	--	--	--
Ca4_P1_13630632	Ca4	13630632	AA/AAGAGTCTA	TATGCAGGCCCAAAT CTCT	TTTTCAACAATCAATGC CCAA	59.8	370	INTERGENIC	--	--	--
Ca4_P1_13631062	Ca4	13631062	GCC/GC	TTGGGCATTGATTGTG AAAA	TCGCAACTCGTATAGG ACCA	59.9	271	INTERGENIC	--	--	--
Ca4_P1_13632354	Ca4	13632354	TC/TCC	ACACTGTTTTAACGGG GCTG	TGCGGTCCTTTAATTT TATTTCA	60.0	814	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_13636270	Ca4	13636270	TAAA/TAA	CTTGGAATTGGACAC CTTT	ATTGACCCATTTCATT CCCA	60.0	570	DRR	Ca_04581	--	--
Ca4_P1_13641454	Ca4	13641454	TTATCTATC/TTATC	TTGATCAACCTCAGCC TCAA	GGCAGAGTTGGAGGA ATGAT	59.4	687	INTRON	Ca_04582	--	--
Ca4_P1_13642522	Ca4	13642522	GCACAGACCACAG/GCACAG	CTTAAGGCGCAGAAAA GCAT	AATCGCGGGTGTTAAA GATG	59.6	571	INTRON	Ca_04582	--	--
Ca4_P1_13643715	Ca4	13643715	GTT/GTTT	ATAGTTGTTGAAGGG CACG	GGGTGAAGAATGTATG CCAAA	60.0	798	INTERGENIC	--	--	--
Ca4_P1_13654399	Ca4	13654399	CAA/CA	AATCAACGACAAGGGC AAAG	TGGTTCAATGGAATGG TTGA	60.1	462	DRR	Ca_04584	--	--
Ca4_P1_13655282	Ca4	13655282	TTATA/TTATAGGATATA	AATTCACAAGGTCCAG TGGC	GGGCATGATTTTCC CTAT	60.0	790	INTERGENIC	--	--	--
Ca4_P1_13655663	Ca4	13655663	CCAAATCAAAT/CCAAAT	GGCAGCATTTGACATT TGTG	GGCAACTCAATGCAAA AACA	60.0	576	INTERGENIC	--	--	--
Ca4_P1_13657824	Ca4	13657824	ATATT/AT	TGCATGCATGAATAGT GTTTGA	TCTCCCAATGTGATTG CTCA	60.1	395	INTERGENIC	--	--	--
Ca4_P1_13663032	Ca4	13663032	TAAAAA/TAAAA	AGTACCTTCGTCGTGT TCGC	GGACTTTTCAAAACGG CTCA	60.3	231	DRR	Ca_04585	R	bHLH
Ca4_P1_13666161	Ca4	13666161	ACTG/ACTGCTG	CCCATTTCACCTCTTT GGAA	TTCCCGCAACAAATAG ATCC	59.9	840	CDS (large-effect mutations)	Ca_04586	Q	B3
Ca4_P1_13669796	Ca4	13669796	ATT/AT	AACGTTATTTAAACGA GGATTCA	CCCTTTGTGGGTTCCC TTAT	58.3	555	INTERGENIC	--	--	--
Ca4_P1_13670198	Ca4	13670198	CAAAA/CAAA	ATAAGGGAACCCACAA AGGG	CATGAGATCGTATGTC GCGT	60.0	643	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_13674474	Ca4	13674474	CTT/CT	GGTCTCGTGTCTGTCA GCAA	ATGTTGAAGGAATTC GTCTG	60.0	520	DRR	Ca_04587	Q	B3
Ca4_P1_13675043	Ca4	13675043	CAAA/CAAAAA	CGACGAATCCCTTCA ACAT	GTGGGGGATTGTGAG AGAAA	59.9	459	DRR	Ca_04587	Q	B3
Ca4_P1_13689699	Ca4	13689699	CTAAAAATACAATAAAAAACAATAA/C TAAAAATACAATAA	GTCGTGTTCCCGCTTA AGAT	GCAAATGGATAAAAGT CACATCA	59.2	684	INTERGENIC	--	--	--
Ca4_P1_13691259	Ca4	13691259	GTT/GT	CCATTTATTTCCGGCA TTTC	AGCCGACCAAACTA TTGG	59.3	271	INTERGENIC	--	--	--
Ca4_P1_13692964	Ca4	13692964	TGTATCAGTAT/TGTAT	TGTATCAAGTTCGTCC ACCG	TTGATTTACGCCTGTT TCCC	59.6	247	DRR	Ca_04590	--	--
Ca4_P1_13694721	Ca4	13694721	TA/TAA	AATGCCTTCAGGTTG TGAC	GGTTAAGTTTGCTGGG GACA	60.0	566	DRR	Ca_04590	--	--
Ca4_P1_13700242	Ca4	13700242	GCC/GC	ATTTGTTTCCCAAACC CTCC	CCTGTTGGTGCCCTTT AGAA	60.0	863	INTRON	Ca_04591	--	--
Ca4_P1_13703757	Ca4	13703757	GAA/GAATAA	CTCCTTCCTTCCCCTC AAAC	CCTGGTGGTGAGTTTC CTGT	60.0	576	INTRON	Ca_04591	--	--
Ca4_P1_13705518	Ca4	13705518	GAAAA/GAAAAA	TCTTCGAAATTCAAAT GAACAA	TCCGTGTTCCAAATCC TTTT	58.8	607	DRR	Ca_04592	R	--
Ca4_P1_13710634	Ca4	13710634	CAAAAAA/CAAAAAA	GCTCCAAATGTTGGAC CCTA	GGGTAAATGCTTGCG TGTT	59.9	855	DRR	Ca_04593	R	--
Ca4_P1_1371815	Ca4	1371815	TATAATAATAATAATAA/TATAATA ATAATAATAATAATAA	ATGAAGTTCCTCATGA GTGC	AGGCAAAAGGGAAAG ACCAC	59.9	463	INTERGENIC	--	--	--
Ca4_P1_13730284	Ca4	13730284	TTATATATATATATATATATATAT/TT ATATATATATATATATATATATAT	AACACATAACCACTTC GCCC	TGCAGCGAAATTATTC GAGA	59.9	458	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca4_P1_13731764	Ca4	13731764	GAAAATAA/GAAAATAAAAAATAA	CGTTACATGACGCACC AATC	GTCCAAGTAATCTGGC GCAT	60.0	659	INTERGENIC	--	--	--
Ca4_P1_13743876	Ca4	13743876	GAA/GAAGCATATGCAA	CTGGTTTCATGCCCTA CAAT	TCAAAGCACTAGCCAC ATGC	59.8	740	DRR	Ca_04598	R	MYB_related
Ca4_P1_13746289	Ca4	13746289	AT/A	TATTGGTCAAGCCCTT ACGC	TGGAAGAGAAAACCG TGCC	60.1	618	DRR	Ca_04599	R	MIKC
Ca4_P1_13750785	Ca4	13750785	ATTTTTTT/ATTTTTTTTT	GAGCATGTTTGATTT ACTTTGC	TTTTTATGTAAAGGAC GAGGATGA	60.0	721	INTERGENIC	--	--	--
Ca4_P1_13757687	Ca4	13757687	ACTTGC/AC	TAACCTGTTGCCATGG TTCA	AAGATGGGGAGAGGG AAAGA	60.0	649	INTRON	Ca_04600	--	NF-YB
Ca4_P1_13758154	Ca4	13758154	TCCC/TCC	TTCTTTCCTCTCCCC ATCT	TTTTGAAATGTTGGT GGCT	60.0	683	INTRON	Ca_04600	--	NF-YB
Ca4_P1_13770434	Ca4	13770434	AGTAC/AGTACGTAC	AAGCACCCATCCTGAA ATTG	TTTACC CGGATAAAA ATCA	59.9	586	INTERGENIC	--	--	--
Ca4_P1_13770493	Ca4	13770493	TAAAAA/TAAAAAA	AAGCACCCATCCTGAA ATTG	TTTACC CGGATAAAA ATCA	59.9	586	INTERGENIC	--	--	--
Ca4_P1_13770687	Ca4	13770687	TAA/TA	AAGCACCCATCCTGAA ATTG	TTTACC CGGATAAAA ATCA	59.9	586	INTERGENIC	--	--	--
Ca4_P1_13776143	Ca4	13776143	A/AG	AAGTGTGCGGCCTAAA TAGC	GTATGGAGCCCAATTT GGAA	59.4	201	INTERGENIC	--	--	--
Ca4_P1_13776936	Ca4	13776936	GTATATATATATA/GTATATATATA	TGTGTCTGCCCATGAG TGT	ATATGCGGTTTCATCC TTGC	60.2	301	INTERGENIC	--	--	--
Ca4_P1_13777793	Ca4	13777793	CAGA/CAGAGA	ATTCCCTTTAACCCCA AATG	GAAAGGCTGCAGTGAT GGAT	59.9	741	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_13779676	Ca4	13779676	CTTTTTTTTT/CTTTTTTTTTTTTTTT	CATTTTCTCGAAATG GGGA	ACCAGCCACATAAGCC AAAC	59.9	685	INTRON	Ca_04602	I	--
Ca4_P1_13792182	Ca4	13792182	T/TA	GGCAACATAGATCCTC TCACC	GCTCACTCCGTCAGGT TAGG	58.6	719	INTRON	Ca_04604	Q	--
Ca4_P1_13792402	Ca4	13792402	ATTAAATTTTAAATTTT/ATTAAATTT TT	GGCAACATAGATCCTC TCACC	GCTCACTCCGTCAGGT TAGG	58.6	719	INTRON	Ca_04604	Q	--
Ca4_P1_13795734	Ca4	13795734	TTGAT/TT	GCCGGAAATACACCGA CTAA	AAAGGGTAGGAACAAC CGCT	60.0	599	INTERGENIC	--	--	--
Ca4_P1_13798734	Ca4	13798734	GAAAAAA/GAAAAA	AATTCGGAACCTCG TGTG	TGCTAATTCACCCCTT AACCC	60.0	522	DRR	Ca_04605	R	--
Ca4_P1_13805156	Ca4	13805156	TTATA/TTA	TGGGGAAGAAGACAAG CCTA	AAGAACTTTTCATTCG ACGGTT	59.8	545	INTRON	Ca_04606	--	NF-YA
Ca4_P1_13805476	Ca4	13805476	ATTTTTTT/ATTTTTTT	TGGGGAAGAAGACAAG CCTA	AAGAACTTTTCATTCG ACGGTT	59.8	545	INTRON	Ca_04606	--	NF-YA
Ca4_P1_13807289	Ca4	13807289	TAAAAA/TAAAAA	ACAAGAAAAGCACAGG CACC	TGATCAAAGCCGTCAT GTCT	60.3	576	INTERGENIC	--	--	--
Ca4_P1_13807671	Ca4	13807671	CAAAAAA/CAAAAAA	GCCACAACGGGTAGG TTTT	GGTTTCAACTCGAGTC GTCG	59.0	885	INTERGENIC	--	--	--
Ca4_P1_13807898	Ca4	13807898	ACTTCTTCTT/ACTTCTT	TGACGGCTTTGATCAT TGTT	GGTTTCAACTCGAGTC GTCG	59.1	416	INTERGENIC	--	--	--
Ca4_P1_13808750	Ca4	13808750	A/AGTGATTGAGACTC	ATTCCACGTTCACTTCT CCG	CGCCACTCTTCTACGG TTCT	60.1	376	INTERGENIC	--	--	--
Ca4_P1_13809545	Ca4	13809545	ATT/ATTT	AAAAGGGGATGAGTTT TTCCT	TCGTAAATTAATCCACA TGAATCTGA	58.1	923	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_13810357	Ca4	13810357	CTAAGG/C	ATAAAGATCGACTGCG TGGG	GCGTCAGGCAACACC TAATC	60.1	611	INTERGENIC	--	--	--
Ca4_P1_13826117	Ca4	13826117	ATTTTT/ATTTTT	AGGTGGTTGTGCACT TTGA	CAAATTTGTTCCGCTT CACA	59.2	474	INTERGENIC	--	--	--
Ca4_P1_13826465	Ca4	13826465	TAAAAAA/TAAAAA	TGGAAGTATGTGAAGC GGAA	TTGCGGAGATCATACA TTGC	59.3	643	INTERGENIC	--	--	--
Ca4_P1_13826902	Ca4	13826902	CAAA/CAA	GCAATGTATGATCTCC GCAA	GTTGAGGAAAACGCA GGAAG	59.7	275	INTERGENIC	--	--	--
Ca4_P1_13828032	Ca4	13828032	GTTATTATTATTATTATT/GTTATT ATTATTATTATTATTATTATTATT	GTAATTGCCGGGGTCC TTAT	CAATAGTGTTCACG TGGG	60.0	430	INTERGENIC	--	--	--
Ca4_P1_13829467	Ca4	13829467	AT/ATT	TGAGAATTTGCATGCC TCAC	AGCGAAGTGCTAGCAA CACA	59.8	671	INTERGENIC	--	--	--
Ca4_P1_13833376	Ca4	13833376	TA/T	TTTGCTCAATTTGTCA TGC	AAGCAGGCATTGTTT GATT	59.7	307	INTERGENIC	--	--	--
Ca4_P1_13834744	Ca4	13834744	CAAAAAAAAAAAAAA/CAAAAAAAAA AAA	GCATTTGCTATGTAA TGCAA	TCCCAATTAGATGCCG TCTC	58.9	570	INTERGENIC	--	--	--
Ca4_P1_13836956	Ca4	13836956	GAAA/GAA	CGTGGGATGCTGACAG TAGA	AGGCTGCAAGAGCAG TAAGC	59.9	464	DRR	Ca_04608	--	--
Ca4_P1_13850248	Ca4	13850248	TAA/TA	GAAAAATAAAAGACCA TTTCCCCT	TCCACTTTTGTGGGA AAAA	60.0	548	INTERGENIC	--	--	--
Ca4_P1_13851521	Ca4	13851521	CAATA/CA	GGAAACAACATGAC ATTTTGA	TGGGTTCATATTCAA TGCTC	59.0	640	INTERGENIC	--	--	--
Ca4_P1_13862277	Ca4	13862277	AAT/AATATAT	AAAATCGGCATTGTCA GAGG	GGACAGCTAAATAAT TGCAAGC	60.1	714	DRR	Ca_04609	R	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_13865484	Ca4	13865484	T/TTTC	TCAGATGTTTATTGAT CCAGCA	CTTTGAGGATCCGTTT GTCA	59.6	590	INTRON	Ca_04610	R	--
Ca4_P1_13866963	Ca4	13866963	G/GAT	GCAGTGCCAGTTTTC TTTC	AAAGTTCGAAGACTTC CCCC	59.9	827	INTRON	Ca_04610	R	--
Ca4_P1_13885715	Ca4	13885715	GAAAAAAAAA/GAAAAAAAAA	CTCTTCTGCAAAAGG ATGC	TCCGGTGTGGGTGT ATTT	60.0	599	INTRON	Ca_04612	I	G2-like
Ca4_P1_13896280	Ca4	13896280	CGAAGAAGAAGAAG/CGAAGAAGA AGAA	TACACTGGCCCATCAT CTTG	GCCTCGTTGGAATGAT TTGT	59.5	482	INTERGENIC	--	--	--
Ca4_P1_13908536	Ca4	13908536	TC/T	CTCCTCCGATGTCTGG AAAA	CGCGGTTGCTTCAATT CTAT	60.2	232	INTERGENIC	--	--	--
Ca4_P1_13909254	Ca4	13909254	CA/CAA	CATCACGATTTGACGA GTTGA	AAAAACATGACTCCAA ACACCA	59.7	636	INTERGENIC	--	--	--
Ca4_P1_13909691	Ca4	13909691	AATATATATATATATATATA/AAT ATATATATATATATATA	TGGTGTGGAGTCAT GTTTTT	CGCTGCACGGAACTA TCTT	59.4	209	INTERGENIC	--	--	--
Ca4_P1_13909852	Ca4	13909852	GT/G	CAGCGCACAGGTTATC CACT	GGCTCATGTCCAAAC AAAT	61.3	503	INTERGENIC	--	--	--
Ca4_P1_13912134	Ca4	13912134	GTCT/GT	TTGTTCTGTTGGTGT GCGT	ACAACCAAACCCATG GCTC	60.2	448	INTERGENIC	--	--	--
Ca4_P1_13979065	Ca4	13979065	AT/ATTATT	TTTCACGCTCACGAAG TCAC	GGGAATTTACTCAAAA AGAGGC	60.0	741	DRR	Ca_04623	S	--
Ca4_P1_13988720	Ca4	13988720	TAATAAATAAATAAATAAATA/TA ATAAATAAATAAATAAATAAATA	TCATCAAATTCGTAAC GCAAA	GATCCAAATCACGTAA ACACCA	59.2	605	INTERGENIC	--	--	--
Ca4_P1_14000969	Ca4	14000969	AATATATATATATATATATATA/ATA TATATATATATATATATAT	CCTTGTGGGATTAACA GGGA	TAAAAACAGGATCCCA TGCC	59.9	542	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca4_P1_14011652	Ca4	14011652	TAA/TACAA	GCACCGACTTGCTGAT GTAA	GCCTCATGCTCCAATT TTGT	59.9	755	INTERGENIC	--	--	--
Ca4_P1_1407458	Ca4	1407458	CATTTTTCATGAT/CATTTTTCATGATT TTTCATGAT	TTCAACGTA AAACCGG GAAC	ACCGGATTTTTGGTCC CTAT	59.8	557	INTERGENIC	--	--	--
Ca4_P1_14182954	Ca4	14182954	AATATATATATATATATATATATATATA TATAT/AATATATATATATATATATATAT ATATATATATATATATAT	CACCGCATACACCCT AGAT	TAAGATCCTTGCGCCA A ACT	59.8	453	INTRON	Ca_04651	--	TALE
Ca4_P1_14196867	Ca4	14196867	CTATATATATATATATAT/CTATATATA TATATAT	CAC TCGTGTTTCCAA GGTT	TTGCAAGTGCATCCAA ATT C	60.0	584	INTERGENIC	--	--	--
Ca4_P1_14238993	Ca4	14238993	TTATATATATATA/TTATATATATA	TGCTTTACACAAGCAA GCCA	CGACAGAGACGAGGG AAGTC	60.6	170	DRR	Ca_04659	K	M-type
Ca4_P1_14396557	Ca4	14396557	TTAGTAGT/TTAGT	AGTCAGACGCTACTCG GCAT	G TGTGTGTGTGTGTGT GTGTGT	60.0	590	INTERGENIC	--	--	--
Ca4_P1_14397068	Ca4	14397068	GATACAT/GATACATACATACATATAC AT	ACACACACACACACAC ACACAC	AACACATCCGGGATCC ATTA	58.8	676	INTERGENIC	--	--	--
Ca4_P1_14397300	Ca4	14397300	GATATATATATATATATATGTATATA TATATATA/GATATATATATATATATAT ATATATATGTATATATATATATA	TAAATGCATGCTCCCC TGAT	AACACATCCGGGATCC ATTA	60.4	273	INTERGENIC	--	--	--
Ca4_P1_14405625	Ca4	14405625	TGTTGTT/TGTTGTTGTT	CGGTGGTTGCTCTCTC TTTC	GGGGTACAATGTGGA ACCAA	60.0	440	DRR	Ca_05663	E	MYB
Ca4_P1_14405755	Ca4	14405755	ATCTCTCTCT/ATCTCTCT	ATGTGCATGCCAAGTT GTGT	ACCTATAAGCCCTTTG CGCT	60.0	963	DRR	Ca_05663	E	MYB
Ca4_P1_14406037	Ca4	14406037	GTC TTT/GT	TTGGTTCCACATTGTA CCCC	TTGTTGCTGGAGTTGG ATCA	60.5	639	DRR	Ca_05663	E	MYB
Ca4_P1_14406133	Ca4	14406133	CAAA/CAAAA	TTGGTTCCACATTGTA CCCC	CCATTGTTGGGATAT GGAG	60.5	892	DRR	Ca_05663	E	MYB

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_14416755	Ca4	14416755	TTATATATATATA/TTATATATATATA	TCATTTCAAACCTTAA ACTCCA	TTGCGGTCAATTGTAT GAAGAC	59.9	392	INTERGENIC	--	--	--
Ca4_P1_14487983	Ca4	14487983	AATATATATATATATATATATA/AAT ATATATATATATATATATA	CATGTGCATATGCGTT TCAA	TTCCCTTGTCTTCG GATG	59.1	762	INTERGENIC	--	--	--
Ca4_P1_14618637	Ca4	14618637	TTATATATATATATA/TTATATATATATA TATA	TGGGGGACTATTTTCG TGAT	TTTGGTTTTAGTGCA TGCGA	59.2	665	INTERGENIC	--	--	--
Ca4_P1_14624427	Ca4	14624427	ATTTTTTTTT/ATTTTTTTTT	AAACATGCAAAACACG CAAA	ATCGCGTGCCTGTTTA ATTT	60.2	768	INTERGENIC	--	--	--
Ca4_P1_1463289	Ca4	1463289	TAAAAAAAAA/TAAAAAAAAA	CCCACTTTTACGGAAG ACGA	CCCCAACCACTTCCTC ACTA	60.1	511	INTERGENIC	--	--	--
Ca4_P1_14652419	Ca4	14652419	TTTATTATTATTATTATTATTATTA TTATTATTATTAT/TTTATTATTATT ATTATTATTATTATTATTATTATTA TTATTATTAT	ATCCAAGCCGTAAGGG TCAT	AAGTCCGACATACAC TCGTCA	60.7	733	INTERGENIC	--	--	--
Ca4_P1_14665183	Ca4	14665183	TTATATATATATATAT/TTATATATAT ATATAT	CGTGCCCTTTTATTCTT AAGGT	TGTTTATGCGTGTGGC ATTT	58.8	735	INTERGENIC	--	--	--
Ca4_P1_14677950	Ca4	14677950	CAAAAAA/CAAAAAA	TGTTGGGCAAAATAA TTGAGA	CAAACCTTACCACCGT CTTG	59.5	424	INTERGENIC	--	--	--
Ca4_P1_14771240	Ca4	14771240	ATATATATAT/ATATATATATTATATAT AT	TCAATGCGGTCTCTGA AGTG	TATTCAGATCCCTTGC CCAG	60.0	576	INTRON	Ca_05627	--	Trihelix
Ca4_P1_14800141	Ca4	14800141	TAAAAAAAAA/TAAAAAAAAA	TTGTACACGTAGTAGC GCCG	AAGATGGAATCAAGG GGCT	60.0	475	INTERGENIC	--	--	--
Ca4_P1_1482356	Ca4	1482356	TAAAAAAAAA/TAAAAAAAAA	TGGGTCTGCATACCAA TGAG	CAAGTAGGGTGGTCT GGAGG	59.5	474	INTERGENIC	--	--	--
Ca4_P1_14967549	Ca4	14967549	GTAATAATAATAATAATAATAATA ATAA/GTAATAATAATAATAATAAT AATAATAATAATAA	CAAAGTGCTTTGTAC CCCC	CCGTTGTTTTGGGAC ATCT	59.5	899	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/P1)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_14995963	Ca4	14995963	TTATATATATATATATATATATAT/TT ATATATATATATATATATATATATAT	TCAACACATACCCGCA AAAA	TTTAAGTTCAAATGCA CCCAAT	60.0	167	INTERGENIC	--	--	--
Ca4_P1_15012755	Ca4	15012755	AATATATATATATATA/AATATATATAT ATATATATA	TACTCCCAAATGGCGA CTTC	GACATTCGAACTTGA ATTTCCT	60.1	322	INTERGENIC	--	--	--
Ca4_P1_15020189	Ca4	15020189	CATATATATATATATATATATATATA /CATATATATATATATATATATATA	TTGGCCACTTGTGTTT GTGT	TGTCAAAATTGAAAAG CAAAATG	60.0	487	INTERGENIC	--	--	--
Ca4_P1_15020792	Ca4	15020792	GTTTTTTTT/GTTTTTTTTT	TTCTCCATAAAATTCC AACG	AGCCACCGGTCTCAGT AAAT	58.9	288	INTERGENIC	--	--	--
Ca4_P1_15045995	Ca4	15045995	CTATATATATATATATATATATATAT ATATATA/CTATATATATATATATATAT ATATATATATATATATATA	GAAATTATATTCTTTT CCAAATGC	GGAGGAGAGAGACGA AGGCT	58.5	402	INTERGENIC	--	--	--
Ca4_P1_15048181	Ca4	15048181	TA/TAA	CAAAAGCTGTAACACC CCGT	AATCGATTGATTCAGC CCAG	60.0	528	INTERGENIC	--	--	--
Ca4_P1_15120844	Ca4	15120844	CATATATATA/CATATATATATATA	ATTCCGGTAAAATCTC CGCT	TATTTGGATTTTGGC TCGG	59.9	688	INTERGENIC	--	--	--
Ca4_P1_15146205	Ca4	15146205	TTTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTAT TATT/TTTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTA TTATTATTATTATTATT	GGATTCTCCTTGTTTC TGCG	TTTTCCGCAAAAATTC AAAAA	59.8	690	DRR	Ca_05586	Z	--
Ca4_P1_15168496	Ca4	15168496	CAAAAAAAAA/CAAAAAAAAAAAAA	TCATTACTCCCAGTC CCAAA	TCCTCATGGAACACAT GAAA	59.4	608	INTERGENIC	--	--	--
Ca4_P1_15216075	Ca4	15216075	TAAAAAAAA/TAAAAAAAAAAAA	TGAACCAAAAATCATC GCAA	AGGCTCTTGTTAAGCG ACCA	60.1	402	INTERGENIC	--	--	--
Ca4_P1_15221737	Ca4	15221737	ATTTTTT/ATTTTTTT	AGGGTGCGATCAGGTA AATG	ACAAGTGGTGCGATT GTGA	60.0	430	INTERGENIC	--	--	--
Ca4_P1_15251377	Ca4	15251377	AATA/AATATATA	TCCTGAACAAACGCA TTCA	AAATAGGTTAGGCCGT CCGT	60.2	685	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_15252487	Ca4	15252487	GTA/GTACATATA	TTTTTGAGTGAAACCA GTTTGG	CCAACCATGTTGGTG GCTA	59.2	533	INTERGENIC	--	--	--
Ca4_P1_15272177	Ca4	15272177	AG/A	GTTTCGGCTAATGGGT TGAA	TTGCTTGTAAATTTGG GTTTTG	59.9	878	DRR	Ca_05572	A	--
Ca4_P1_15288869	Ca4	15288869	TAAAAA/TAAAAAA	TACGCTACCAGCTATC GCCT	AGAACCACCGTAACGA CCTG	60.0	556	CDS (FRAME SHIFT)	Ca_05570	R	--
Ca4_P1_15392307	Ca4	15392307	TA/TACACTAA	GGTCTCACCAACACTG TGGA	CGGTTTTGGCGTCTTT ATGT	59.6	428	DRR	Ca_05557	R	B3
Ca4_P1_15406107	Ca4	15406107	CCATA/C	TAAGCACACGGAGATT GCAT	GTGGTACCGCAGATTC TGGT	59.3	884	INTERGENIC	--	--	--
Ca4_P1_1543745	Ca4	1543745	CATATATATATATATATATATATA /CATATATATATATATATATATATA	CCTTTCCATCCCTGTG AAAA	CCACACTATAGCATTG GTGCAT	59.9	377	INTRON	Ca_07783	S	--
Ca4_P1_15473254	Ca4	15473254	TTATATATATATATATAT/TTATATAT ATATATATAT	TTGGACCGAAGAAAT GTCA	CTCCGTTAATCCTCAT GCGT	59.1	702	INTERGENIC	--	--	--
Ca4_P1_15481101	Ca4	15481101	AATA/AA	TAGTAGGGCTCTTGCT CCCA	CCAATTGTACCGGAT CTTC	60.0	933	INTERGENIC	--	--	--
Ca4_P1_15507374	Ca4	15507374	CTTTTTTTTT/CTTTTTTTTT	CACATCCACCAATGAG ATGG	TCAACAACATCAAATA AAGAATGTCA	59.8	373	INTERGENIC	--	--	--
Ca4_P1_15578288	Ca4	15578288	TTATTCTAAGGT/TT	TTTTCATCCTCCTCCAC CTG	TGGACGTAAATATAGG GCGG	60.0	689	DRR	Ca_05544	K	ARR-B
Ca4_P1_15590624	Ca4	15590624	GTATTATTATTATTATTATTATTAT T/GTATTATTATTATTATTATTATT	CGACCTTGCAATTAGCA GTGA	ATATGTCAGCCGCGCT AGC	60.0	397	INTRON	Ca_05543	E	--
Ca4_P1_15609692	Ca4	15609692	TAAAAAAAAAAAAA/TAAAAAAAAAAA AA	TTGTCTCAACAATCTC CCCC	CTCCGTCATCTGATGG GTCT	59.9	357	DRR	Ca_05541	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_15643039	Ca4	15643039	T/TTACTGTAGGGA	TGCACCGACAACTGA AGTC	ACGCGTGAGTTTGCTC ACTA	59.9	592	INTERGENIC	--	--	--
Ca4_P1_15669145	Ca4	15669145	AT/ATATATATATGTGTGT	TTCCATTCAACATTGAC ATCCT	GCATTATACAGCGAGG GCTT	59.3	513	DRR	Ca_05537	I	--
Ca4_P1_15734407	Ca4	15734407	TAGATGAAGAT/TAGAT	CAACTCCAAAATTGCC GTTTA	GGTTTGGGAATTGTGG TTCTT	60.0	208	INTERGENIC	--	--	--
Ca4_P1_15745437	Ca4	15745437	ATTTTT/ATTTTTTT	GTGAACCAAATGACGT GTGC	AAAACAAACAAGCCCA TTATTTTC	60.0	773	DRR	Ca_05530	--	--
Ca4_P1_15780356	Ca4	15780356	CATATATATATATATATAT/CATATAT ATATATATATATATA	CAACTTTAAAAAGGAC CAAAATGAA	TTGTGCCACGACCAAT TAAA	59.8	537	INTERGENIC	--	--	--
Ca4_P1_157836	Ca4	157836	GAAAAAAAAA/GAAAAAAAAA	GTAAGCCGCCTCTAAT GGGT	GGTTTGTATCGCGGAA TAAG	60.5	483	INTERGENIC	--	--	--
Ca4_P1_15881990	Ca4	15881990	TAAAAAAAAA/TAAAAAAAAA	CAAAACGTACTTTTCCA TGCC	AAAAACAACGCCAAT GCAA	59.5	465	DRR	Ca_05519	--	--
Ca4_P1_15888264	Ca4	15888264	ATT/AT	TTCTCTCTTTTAGTTAT TGGAAAA	TCCAGTTTGACATTGG AACAA	57.6	542	INTERGENIC	--	--	--
Ca4_P1_15888971	Ca4	15888971	T/TG	TGCATCAGATTTTGA GGTTG	AAATTTGGTGGCGTT GTTA	60.1	669	INTERGENIC	--	--	--
Ca4_P1_15891944	Ca4	15891944	CTTT/CTTTT	CGACGTCAACACAAAT TGC	AGATGCGCGGTGATTA GAGT	58.7	802	INTERGENIC	--	--	--
Ca4_P1_15892004	Ca4	15892004	AC/ACCGACTC	CGACGTCAACACAAAT TGC	AGATGCGCGGTGATTA GAGT	58.7	802	INTERGENIC	--	--	--
Ca4_P1_15897548	Ca4	15897548	GGAAGAAAGA/GGAAGAAAGATGAAG AAAGA	AAATCAGCCCCATT AATG	TGCCATTTGATATGAA CCACTT	59.9	577	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_15898293	Ca4	15898293	T/TA	CCTTCAAATTTGTGA GTCCG	ATGGGAATTGGTGAAT GGAA	59.6	941	INTERGENIC	--	--	--
Ca4_P1_15908669	Ca4	15908669	ATTTTT/ATTTTT	TTCTTTGACATGCACC TTCG	CAAGAGACAAATTAGC AATCTTCG	59.8	476	INTERGENIC	--	--	--
Ca4_P1_15908734	Ca4	15908734	TGAAAAGAAAA/TGAAAAGAAAAAGAAA A	TTCTTTGACATGCACC TTCG	CATCGCATGAGAATTG GTCTT	59.8	652	INTERGENIC	--	--	--
Ca4_P1_15920083	Ca4	15920083	AGGTG/AGGTGGTG	TGATTTTCATGCCTAAT GCCA	AATGAAATGGGGTCC AATG	60.0	495	DRR	Ca_05514	--	SBP
Ca4_P1_1592013	Ca4	1592013	GATATATATATATATATA/GATATATAT ATATATATATATA	CCCTAATGGGTGAGCA GTTC	GTTGGTCAATCCACTC GGTC	59.6	706	INTERGENIC	--	--	--
Ca4_P1_15925083	Ca4	15925083	TTAAAA/TTAAAAATAAAA	TCGAGATTATGAGGCA TCCA	ATGTTGCAACAGCCA GACA	59.2	545	DRR	Ca_05513	R	--
Ca4_P1_15926036	Ca4	15926036	AAAGA/AAAGAAGA	GTTCCCTTACGCCAG ATGA	GCATTGCTGTATTGTT GCAT	60.1	532	DRR	Ca_05513	R	--
Ca4_P1_15926090	Ca4	15926090	ACT/ACTCT	AGCAGCACCCACCAAA TATC	TGCTGGTGTCTAGTT GGCA	60.0	674	DRR	Ca_05513	R	--
Ca4_P1_15930046	Ca4	15930046	GAAAAAAAAA/GAAAAAAAAA	TCTCTCGAGCTGGATG GAAT	AGGTGATCATTGTGTG GGGT	59.9	702	INTRON	Ca_05513	R	--
Ca4_P1_15936591	Ca4	15936591	AC/A	AATTTTCCCCACAACC CAT	CACCAAAATCTCCCT CCAA	60.3	596	INTERGENIC	--	--	--
Ca4_P1_15937152	Ca4	15937152	AT/ATT	TTGGAGGGAGATTTT GGTG	TTGAAAATGGGGAAT GAGG	59.9	573	INTERGENIC	--	--	--
Ca4_P1_15939075	Ca4	15939075	AT/ATT	GTGCACCGGTAACGAA GTTT	TTCGTTGGAGGTTTGG ATTTC	60.0	452	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_15939183	Ca4	15939183	ATATTGGTAACCTTTATTG/ATATTG	GTGCACCGGTAACGAA GTTT	GTGGTTTCCTGGGAG GGTAT	60.0	711	INTERGENIC	--	--	--
Ca4_P1_15939264	Ca4	15939264	AAAAATAAAATAAAAAATAAAATA AAATAAAA	GTGCACCGGTAACGAA GTTT	GTGGTTTCCTGGGAG GGTAT	60.0	711	INTERGENIC	--	--	--
Ca4_P1_159440	Ca4	159440	TAGAGAGAGAGAAAGAGAGAGAGAT AGAGAGAGAGAGAAAGAGAGAGAGA	CCCAAGTCATTATGGT GTTTGA	CAATATGGCGAAGAAA ATATTGAA	59.7	718	INTERGENIC	--	--	--
Ca4_P1_15945430	Ca4	15945430	AAAA/AAAAATCAAA	AGTCCAGCCTCTGCAC AAAT	GGAGCAAGATGGAAC AATCAA	59.9	212	DRR	Ca_05512	O	C2H2
Ca4_P1_15945824	Ca4	15945824	CAAAAA/CAAAA	AGTCCAGCCTCTGCAC AAAT	CCCCAACACTAAAAAC CCCT	59.9	742	DRR	Ca_05512	O	C2H2
Ca4_P1_15948936	Ca4	15948936	TTATA/TTA	AATCTGCCACAAAACC CAAG	TTCAGTCCAATTGAAA GTCGG	60.0	795	INTERGENIC	--	--	--
Ca4_P1_15950510	Ca4	15950510	GTTATTTTATT/GTTATTTTATTATT ATTTTATT	AAAAGGGATTGTCTTC CCAGA	CAAAGGTAGCCCTGCT TCAG	59.9	601	INTERGENIC	--	--	--
Ca4_P1_15950827	Ca4	15950827	ATTTT/ATTTT	AGCGACGTGAGACTG GATCT	CAAAGGTAGCCCTGCT TCAG	60.0	303	INTERGENIC	--	--	--
Ca4_P1_15957579	Ca4	15957579	A/AT	TGTACCCAGATTCAAA CATCCA	ATGCGATCATGTGAAC CAAA	60.2	445	DRR	Ca_05511	--	C2H2
Ca4_P1_15962571	Ca4	15962571	ACTT/ACTTCTCTT	CAGGAATTTGTGCATC ATGG	TGGTGCATGACTGAAT GGTT	59.9	723	INTERGENIC	--	--	--
Ca4_P1_15963289	Ca4	15963289	TA/T	AACCATTCAGTCATGC ACCA	CAGATGCACGCTAGG AAACA	60.0	828	INTERGENIC	--	--	--
Ca4_P1_15963503	Ca4	15963503	ATTTT/ATTTTGTTTT	CCATGATCAGGCTTTT TGGT	CAGATGCACGCTAGG AAACA	59.9	747	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_15967752	Ca4	15967752	AATA/AA	GGTCCTGCACCATCAG AAGT	CACAGGCTTGTACGT GTTAGTG	60.1	220	DRR	Ca_05510	J	NF-YA
Ca4_P1_15968625	Ca4	15968625	ATTTTTTTTT/ATTTTTTTTT	CCTCCTTCGTCAACCG AATA	TGCTCACACTCCAGG ACTT	60.1	559	DRR	Ca_05510	J	NF-YA
Ca4_P1_15969051	Ca4	15969051	CAA/CA	TAAGCGTTAACTTGC ACCC	TGGTTGTGGCGATTAC AAGA	60.1	494	DRR	Ca_05510	J	NF-YA
Ca4_P1_15981742	Ca4	15981742	GGCACAA/GGCACAAGCACAA	AGGTGAGCCAAAGCAA CAAT	CTAGCATTCCTATGCT CCAT	59.7	205	INTERGENIC	--	--	--
Ca4_P1_15983115	Ca4	15983115	AATT/AATTATT	TGATGTTGATGATATG ACGTGG	ATTGTTCTGCAAATGA GGGG	59.3	729	INTERGENIC	--	--	--
Ca4_P1_15986801	Ca4	15986801	ATTTTTTTTT/ATTTTTTTTT	AGATTTTGATAAAGATT TGTTTGAAG	TCGCACATTTATCACA AGGA	57.7	285	INTERGENIC	--	--	--
Ca4_P1_15991574	Ca4	15991574	ATTTTT/ATTTTTTT	ATTTGAACTAACGGC CACG	GGAATTATATTAATAA CAGCCAAAAA	60.0	459	INTERGENIC	--	--	--
Ca4_P1_15993940	Ca4	15993940	CT/CTAT	TTCTGCTGATGCGTAC AAGG	AAGCTAAATTTTCGCC ACGA	60.0	507	DRR	Ca_05509	--	--
Ca4_P1_16000633	Ca4	16000633	TACA/TA	CGATGTGATTTTGTGTA GTCAAGC	TATTTTCCGCACACCA ATGA	58.8	392	INTERGENIC	--	--	--
Ca4_P1_16027847	Ca4	16027847	A/AG	AATTTTGGCTTTTTCG GTTG	ATCATATCCATCAAAC GGGC	60.1	536	INTERGENIC	--	--	--
Ca4_P1_16028817	Ca4	16028817	CGTGTGT/CGTGTGTGT	TGATTTTACACAAGGG TAATTTTG	CGCCGCATACTGTAAT GGTA	57.3	951	INTERGENIC	--	--	--
Ca4_P1_16033478	Ca4	16033478	ATAACTAA/ATAA	TAACCCTTTTCGGGTT TTCC	TGGTCCAAGGCTTGTG ATTT	60.2	496	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_16044624	Ca4	16044624	GTTTTTTT/GTTTTTTTATTTTGTTTT TTTTT	TTTACGTTGACGGCC TTTT	AGGTTGGTCCGATTCC TTTT	59.6	335	INTERGENIC	--	--	--
Ca4_P1_16048595	Ca4	16048595	TG/T	GACCATTTTGGTGAT TGGG	AGGTACCACCAACCAA GTGC	60.0	258	INTRON	Ca_05504	J	bHLH
Ca4_P1_16051344	Ca4	16051344	CTG/CTGTG	GAGGCATGACTTCAAC AGCA	TGGAAAAGGCACCTGT CAGT	60.0	600	INTRON	Ca_05504	J	bHLH
Ca4_P1_16055399	Ca4	16055399	AACTTAGTTG/AACTTAGTTGTAGCAC TTAGTTG	ATGTTGTGAATGCACA TGGA	CCAGTGGCGGAGAAA AATAA	58.3	345	DRR	Ca_05504	J	bHLH
Ca4_P1_16056793	Ca4	16056793	TAAAAA/TAAAAA	CTGCAATGCAACAACC AATC	TCAAAAAGATCCCGA CCTG	60.1	657	INTERGENIC	--	--	--
Ca4_P1_16057030	Ca4	16057030	GTTAATTTTT/GTTAATTTTTTAAT TTTTT	CAGGTCGGGATTCTTT TTGA	TTGCATTGAGTCACAC GTCA	60.0	344	INTERGENIC	--	--	--
Ca4_P1_16058853	Ca4	16058853	AA/AAATA	TTTGCCATAATCCACA ATGA	CGTCACTGACAGCGTA GCAC	58.9	802	INTERGENIC	--	--	--
Ca4_P1_16060305	Ca4	16060305	TAAAAAAAAA/TAAAAAAAAA	TTGGATGATACTTCTTC CGTCTC	AGAACACCTGCAGGT TCAC	59.6	559	INTERGENIC	--	--	--
Ca4_P1_16061988	Ca4	16061988	ATT/AT	TAGCCTATACCGGTGG TTGC	TTTTGTTGGAATTGAA AGAGACA	60.0	507	DRR	Ca_05503	K	MYB
Ca4_P1_16064766	Ca4	16064766	TTAAAT/TTAAATAGGAATATAAT	CAAAAATTGACATGGG TACGG	AGGTGAGGTGAGGTG ATTGA	60.1	736	INTERGENIC	--	--	--
Ca4_P1_16065621	Ca4	16065621	AT/A	TTAGTCCAATGGAAGT CGCC	ATGCAAAACCTGCTT CATC	60.1	706	INTERGENIC	--	--	--
Ca4_P1_16065708	Ca4	16065708	ACATCAT/ACAT	TTAGTCCAATGGAAGT CGCC	ATGCAAAACCTGCTT CATC	60.1	706	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_16066680	Ca4	16066680	CAAAA/CAAA	TCTCGATTGAAGTGCA TTGG	CATTAGAGTTCAC TTG GCGG	59.8	514	INTERGENIC	--	--	--
Ca4_P1_16066890	Ca4	16066890	ATTTTT/ATTTT	AGAACCGATTTTGGTG ATGC	GGGACCAGTGATT TAA TTTAGCC	59.9	705	INTERGENIC	--	--	--
Ca4_P1_16072318	Ca4	16072318	CTACA/CTACATACA	TGCGTGATCGTCTTCA GAAC	GGCTTCGGAGTAGAAT CCCT	60.0	813	INTERGENIC	--	--	--
Ca4_P1_16072416	Ca4	16072416	ACT/ACTAAGCCT	GTCACAGCTCTGATGC CAAA	GTTTGCCGACAGTTG AGTT	60.0	641	INTERGENIC	--	--	--
Ca4_P1_16072673	Ca4	16072673	AA/AACA	GTCACAGCTCTGATGC CAAA	GCGATACGGAGTGGA CATCT	60.0	787	INTERGENIC	--	--	--
Ca4_P1_16073050	Ca4	16073050	TTG/TTGTTAGCTG	TGCAAAAGGGATTTGT GTCA	TTGAAGGGAACGTTTG ATGA	60.1	736	INTERGENIC	--	--	--
Ca4_P1_16074542	Ca4	16074542	T/TTTG	GGCTGCCTAACATGGG TTTA	GACAGGCAACCCTGT GAAAT	60.0	473	INTRON	Ca_05502	T	--
Ca4_P1_16074616	Ca4	16074616	TA/TAA	GGCTGCCTAACATGGG TTTA	GACAGGCAACCCTGT GAAAT	60.0	473	DRR	Ca_05501	--	TCP
Ca4_P1_16079766	Ca4	16079766	TAAAAAAAA/TAAAAAAAA	TGGCTACTTAAGGGC CAAA	GAAAGGGATCACGTG AGGAA	59.7	916	INTERGENIC	--	--	--
Ca4_P1_16080327	Ca4	16080327	CTTTTTTTTTTT/CTTTTTTTTTTT	TTCTCACGTGATCCC TTTC	ACAATTGCTCCAACGG TCAT	60.1	567	INTERGENIC	--	--	--
Ca4_P1_16085050	Ca4	16085050	TAAAAAA/TAAAAAA	ATCGGAGTTCTATTGC ACCG	GGGGTGCTCCAAG AGATA	60.1	452	INTERGENIC	--	--	--
Ca4_P1_16088405	Ca4	16088405	ATTTATTTT/ATTTATTTTCTTTATTTT	AGCGTTGATTAAGTGC GTGA	TCCGAAAAGCAGCAAT TCTC	59.5	860	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_16088431	Ca4	16088431	GAT/GATCAT	AGCGTTGATTAAGTGC GTGA	CCCTCACTCACGATCT TTCC	59.5	906	INTERGENIC	--	--	--
Ca4_P1_16095440	Ca4	16095440	TA/TAA	AGCCCAAGAAAGAAAA CGCT	AAGGCAAAAGTCGTCC AATC	60.4	726	INTERGENIC	--	--	--
Ca4_P1_16095909	Ca4	16095909	TTAAT/TT	TACAGAATCGCTCCCT CCAC	TACATGGTTCGGTTGG GTTT	60.2	665	INTERGENIC	--	--	--
Ca4_P1_16095927	Ca4	16095927	GATAATATAATATAATATA/GATAATAT AATATAATATAATATA	TACAGAATCGCTCCCT CCAC	TACATGGTTCGGTTGG GTTT	60.2	665	INTERGENIC	--	--	--
Ca4_P1_16096225	Ca4	16096225	TA/TAA	AAACCCAACCGAACCA TGTA	TACGTGCAACAAATT GGGA	60.1	383	INTERGENIC	--	--	--
Ca4_P1_16098449	Ca4	16098449	C/CT	CAATTCCAATATGAC AACCAACC	TCATACATGAGGGGAA AGCA	59.5	528	DRR	Ca_05500	--	--
Ca4_P1_16099826	Ca4	16099826	GAAC/G	GGAAAACAAAGTTCCC AACC	TTTTGTTTGATGGCTT GCAG	58.4	748	INTERGENIC	--	--	--
Ca4_P1_16103329	Ca4	16103329	AT/ATCT	CAATCCATTTATTTGTT TCCCA	CGGATGTGAGGCTTG GTATT	58.7	786	DRR	Ca_05499	--	--
Ca4_P1_16120236	Ca4	16120236	AATATATATATATATATA/AATATAT ATATATATATA	TCGAAAGCATTCTTCT CCAAA	TGGTTTGACCTATTTA TGGTTGG	59.9	550	INTERGENIC	--	--	--
Ca4_P1_16120686	Ca4	16120686	AATATATATATATAT/AATATATATATA T	CTCCCTTTTGGGAGT TTTT	GCATTTCAAATACGCG ATCA	57.3	531	INTERGENIC	--	--	--
Ca4_P1_16121131	Ca4	16121131	GATATATATATATATATATATA/G ATATATATATATATATATATATA	CGCATCCCAGTAATGT AGCC	TTGCAGTCTCTGAATG GCTG	60.5	369	INTERGENIC	--	--	--
Ca4_P1_16131048	Ca4	16131048	TATAAATAAATAAATAAATAAATA AATAAATAAATAAATAAATAAATAA ATAAATAAATAAATAAATAAATAA	CGGTCTTAGACGAGA TGGT	TCGGTGACAAATATTC ATCTCATT	59.2	705	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_16138106	Ca4	16138106	TTTATTATTATTATTATTATTATTA TT/TTTATTATTATTATTATTATTAT TATTATT	CAATGACATTACTTGG GCCTT	GGGAGAAGAAAAGAAT GGGAA	59.0	391	INTERGENIC	--	--	--
Ca4_P1_16146645	Ca4	16146645	CTATTATTATTATTATTATTAT/CTATT ATTATTATTATTATTATTATTATTATTA TTAT	AAAGAAGCAGAGGAAG CGTG	TGGCGGTGTGTTTGAC TAAA	59.8	667	DRR	Ca_05497	I	bHLH
Ca4_P1_16168307	Ca4	16168307	ATTTTTTTTT/ATTTTTTTTT	TCCGTAAGTAAAAACA ACTATCCA	TGCAGCCCCATATTCT TACC	57.1	652	INTERGENIC	--	--	--
Ca4_P1_16186698	Ca4	16186698	T/TC	TTGTTTACAAGAGATG TTTTGTCATTT	AAACCACGACTCCAAG CAAT	59.5	372	DRR	Ca_05493	Z	--
Ca4_P1_16245511	Ca4	16245511	NNT/A,C,G,T	GTTGAAGATTGCGTGG GAAT	AAGCAGTACGTCATCG GTCC	59.9	277	INTERGENIC	--	--	--
Ca4_P1_16329274	Ca4	16329274	A/AAGCATAC	TTGGACGATAGTACCG TATTCAA	CGAAGCAAATAGCAAG ACTGC	58.6	815	INTERGENIC	--	--	--
Ca4_P1_16337268	Ca4	16337268	ATTTTTTTTTTT/ATTTTTTTTTTT	AACGTTTAGCATGGAG GTGG	TGACCGGTGATTCTTT TCCT	60.0	374	INTERGENIC	--	--	--
Ca4_P1_1637025	Ca4	1637025	TA/T	GCATTATGGCAGACAA CGAA	GGGTGGTTAAACAATC CTTTG	59.7	391	INTERGENIC	--	--	--
Ca4_P1_16430711	Ca4	16430711	ATTTTTTTTTTT/ATTTTTTTTTTTT	GGAAGGTCGTCGATTG AAAA	TTTTTCCGACTTGGTC ATTT	60.1	389	DRR	Ca_05484	A	--
Ca4_P1_16468176	Ca4	16468176	TTTATTATTATTATTATTATTATT/T TTATTATTATTATTATTATTATTAT T	ATTGGAATCCGATGCT GAAC	AAACACTGACAGGGAC AGGG	59.9	416	INTRON	Ca_05478	A	MYB
Ca4_P1_16568360	Ca4	16568360	CTTTTT/CTTTTT	GAGCATTGTAGACCTT TTCCA	TCACTTTCGTTTCTTTC CTATGC	59.2	165	INTERGENIC	--	--	--
Ca4_P1_16605966	Ca4	16605966	TTATA/TTA	GGAATCAAATTCGAAG CCAA	CCTCTGACTCCGACGC TAAC	60.0	364	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_1665800	Ca4	1665800	CATATATATATATATATATA/CATATATATATATATATATATA	CATTGAAAGCGCGTTGATAA	GGTGAATTGATTTATGCTGGAA	59.8	394	INTERGENIC	--	--	--
Ca4_P1_16670902	Ca4	16670902	T/TG	ATACAGCGGCAGACTACGT	AAACCTTGCCCATGATGGTA	60.1	936	INTRON	Ca_05457	--	--
Ca4_P1_16693431	Ca4	16693431	ATTTTTTTTT/ATTTTTTTTTT	TCGCCGAGGATCACATAAATCT	TCGATTTGGATTCTTTCGG	59.7	797	DRR	Ca_05455	E	--
Ca4_P1_16711599	Ca4	16711599	TTATATATATATATATATATATATAT/TTATATATATATATATATATATATATATATAT	GCCCTCAATACGGTACCTCAC	TATCGTTGCTTGCCAACTCA	60.8	726	INTERGENIC	--	--	--
Ca4_P1_1676869	Ca4	1676869	ATA/ATACGACATTTA	AACAATGCTATAACGC CGCT	TCACGTCGGACTAGTT TGG A	59.8	771	INTRON	Ca_07795	--	--
Ca4_P1_1677374	Ca4	1677374	TAAAAAA/TAAAAA	TCCAACTAGTCCGAC GTGA	AGCTGCTGGAGGAGT TG GTA	59.3	450	INTRON	Ca_07795	--	--
Ca4_P1_1677611	Ca4	1677611	GA/GAAGCCACTA	TCCAACTAGTCCGAC GTGA	AGCTGCTGGAGGAGT TG GTA	59.3	450	CDS (FRAME SHIFT)	Ca_07795	--	--
Ca4_P1_16785536	Ca4	16785536	CATATATATATATATATATATATATA /CATATATATATATATATA	AATATGGGCCCACTAA ACCC	TTTTGGCCTAACTGGC CTAC	59.9	611	INTERGENIC	--	--	--
Ca4_P1_16787893	Ca4	16787893	CTTTTTTT/CTTTTTTT	CCCTTTAAAATGAGAGAATTGAAG	ATCGTCACGTGCAAACAATC	57.7	628	INTERGENIC	--	--	--
Ca4_P1_16826129	Ca4	16826129	A/AAATT	TTTTATCCACCAAAAAT TC AAAA A	TGATTTTTCAGGAGG CACT	58.9	521	DRR	Ca_05439	--	--
Ca4_P1_16826292	Ca4	16826292	CAAAAAA/CAAAAAA	GCGACCATCTGTTGCA GTTA	TGATTTTTCAGGAGG CACT	59.9	459	DRR	Ca_05439	--	--
Ca4_P1_16827901	Ca4	16827901	AATATTGATTATA/AATATTGATTATATGATTATA	ACGCCAACATTTGTGA GTGA	TCGATTCACTTAGTT GCACA	60.2	853	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_16846815	Ca4	16846815	CACCTTCTTTT/CACCTTCTTTTACCTT CTTTT	ACATGTGCCTTGGGAC TAGC	GCGAAAAGTCGAAGAT CCTG	60.1	571	CDS (FRAME SHIFT)	Ca_05437	--	--
Ca4_P1_16846897	Ca4	16846897	C/CTT	ACATGTGCCTTGGGAC TAGC	GCGAAAAGTCGAAGAT CCTG	60.1	571	INTRON	Ca_05437	--	--
Ca4_P1_16870773	Ca4	16870773	ATTTTTTTTT/ATTTTTTTTT	CGTTTGAAGAAATCAC GCAA	CCTGACCTACCTGCCA TGTT	59.8	916	INTRON	Ca_05436	--	--
Ca4_P1_16925907	Ca4	16925907	TAAAAAAAAAAAA/TAAAAAAAAAAAA	TGCAAAACGTCGCTGT CTAC	TGGTCACTGGTCACTC TTGG	60.1	566	DRR	Ca_05430	R	C2H2
Ca4_P1_16933042	Ca4	16933042	TAAAAAAAAAAAA/TAAAAAAAAAAAA	CCAAATAAACTACTTTT GTGAGACGA	CACACTCTGCCTCCAC TGAA	60.0	388	INTERGENIC	--	--	--
Ca4_P1_16943222	Ca4	16943222	TATGAATGAAT/TATGAATGAATGAAT	CTCAAGCTCAGTCCCA GTCC	TGCGTTTTGTTGGTG TAGC	60.0	668	INTERGENIC	--	--	--
Ca4_P1_16960625	Ca4	16960625	GTT/GTTT	GCGAATTGCAGACTGA AACA	CTGGAAAATCCTCCTC CTCC	60.0	925	DRR	Ca_05428	--	--
Ca4_P1_16984107	Ca4	16984107	ATTTTTTTT/ATTTTTTTT	TAACAAGGGTGCCATG TGTG	ATTGATTGGCAATGG TGGT	60.4	822	INTRON	Ca_05426	U	--
Ca4_P1_16988445	Ca4	16988445	ATTT/ATT	GTGTAGGTCCGTGAGC CAAT	ATTTCTGGTTGCCACG AATC	60.0	665	INTRON	Ca_05426	U	--
Ca4_P1_16990316	Ca4	16990316	ATTTTTTTTT/ATTTTTTTTTT	TTGCCCAAGATTTTCC ATTT	TGAGGGCTTTGGGAT GTAAC	59.4	501	INTRON	Ca_05426	U	--
Ca4_P1_16999887	Ca4	16999887	AGAG/AGAGGAG	GACCAAACCATCAAAAC CACC	TTCAGGAAAATTGCTA CGGG	60.1	408	INTRON	Ca_05425	Z	--
Ca4_P1_17011803	Ca4	17011803	CTT/CTTT	TTTGCCCAAAGAAAAG CACT	TAAAGACCGTGGGACA CCTT	59.9	321	INTRON	Ca_05422	--	G2-like

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_17012786	Ca4	17012786	TAAAAAAAA/TAAAAAAAA	ATATAGAATGCACGG CAGC	CATTTCACACATAC CCCC	60.1	554	INTRON	Ca_05422	--	G2-like
Ca4_P1_17017274	Ca4	17017274	T/TC	TCCTTCTCCAACAACG TCAA	ATCGGCACAAGTCAAC TTCC	59.3	720	INTERGENIC	--	--	--
Ca4_P1_17017613	Ca4	17017613	ATTTTT/ATTTTTT	GGAAGTTGACTTGTGC CGAT	TTGTTCTGAAAGAAAC GGGG	60.1	527	INTERGENIC	--	--	--
Ca4_P1_17017739	Ca4	17017739	AATAT/AATATAT	GGAAGTTGACTTGTGC CGAT	TTGTTCTGAAAGAAAC GGGG	60.1	527	INTERGENIC	--	--	--
Ca4_P1_17027285	Ca4	17027285	CAAA/CAA	AAAGAACATCCCATGC AAGC	GCTGCATGTGGTAGCA GAAA	60.1	452	DRR	Ca_05421	C	--
Ca4_P1_17029753	Ca4	17029753	ATTTTTTTTT/ATTTTTTTT	ACCATTTCCTCCTGTG TTGC	CAAAAATTTGAGGGTT CAAACA	60.0	728	INTERGENIC	--	--	--
Ca4_P1_17030352	Ca4	17030352	TAA/TTGGAAATCAA	AAGATTTTGTGTTTGAA CCCTCA	CTTCATCGTTGAATT GGGG	59.9	596	DRR	Ca_05420	R	bHLH
Ca4_P1_17031185	Ca4	17031185	ATT/ATTT	TCTTTCCTTCGGAATT GGTG	CTAACAGTGACGGGG GAAGA	60.0	464	DRR	Ca_05420	R	bHLH
Ca4_P1_17039202	Ca4	17039202	AC/A	TTGGCGAGTCTTTCCT TGTT	TGTCTGTCCATCCCAT TTCA	59.9	674	INTRON	Ca_05419	C	bHLH
Ca4_P1_17040189	Ca4	17040189	T/TC	TGGGGTCCATCCATTA GTGT	GCAGGAGGCACAGCT TTTAG	60.1	332	INTRON	Ca_05419	C	bHLH
Ca4_P1_17043933	Ca4	17043933	CAAAAAAAAA/CAAAAAAAAAA	GTGGTGGCGTCAAGTA GGAT	GGCATTGCGTAAATT GTTT	60.0	391	INTERGENIC	--	--	--
Ca4_P1_17047766	Ca4	17047766	ATTTTTTTTTT/ATTTTTTTTTT	GAACCCAGTGCACAAC TCCT	AAGCGACCAGTTGAAG GAAA	60.2	662	DRR	Ca_05418	DA	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_17047788	Ca4	17047788	ATTTTTTTTT/ATTTTTTTTT	GAACCCAGTGCACAAC TCCT	AAGCGACCAGTTGAAG GAAA	60.2	662	DRR	Ca_05418	DA	--
Ca4_P1_17049502	Ca4	17049502	CGT/CGTGT	TTTGTATCCGTCAATG GAAGA	GCAGGAGAAGAACATT TCGC	59.5	601	DRR	Ca_05418	DA	--
Ca4_P1_17049556	Ca4	17049556	CAAAAAAAAA/CAAAAAAAAA	CATTGGAGCACAAATC AAAA	GCAGGAGAAGAACATT TCGC	59.5	381	DRR	Ca_05418	DA	--
Ca4_P1_17051753	Ca4	17051753	A/AGT	TGAACGAAGGGGAAAA ACTG	CTTCCTCCTGGCTTC TCCT	60.1	718	INTRON	Ca_05418	DA	--
Ca4_P1_17052864	Ca4	17052864	C/CAA	GGAGCCTCCATCCTCT TTTT	ATGCATGATGACAGAC CCAA	59.7	282	INTRON	Ca_05418	DA	--
Ca4_P1_17062902	Ca4	17062902	A/AG	CCTTTACCCCTCCTA GGCT	TCTCAATAACAAATCAA TCCGTTT	60.8	706	INTERGENIC	--	--	--
Ca4_P1_17063264	Ca4	17063264	ATTTTT/ATTTT	AAACGGATTGATTTGT TATTGAGA	TCACCGTATAAAGCTT TTCTTTTG	59.0	595	INTERGENIC	--	--	--
Ca4_P1_17063499	Ca4	17063499	GTTTTTTTTTATAATTTTTTTT/GTTTTT TTT	AAACGGATTGATTTGT TATTGAGA	TCACCGTATAAAGCTT TTCTTTTG	59.0	595	INTERGENIC	--	--	--
Ca4_P1_17063810	Ca4	17063810	TAAAAAAAA/TAAAAAAAAA	CAAAAGAAAAGCTTTAT ACGGTGA	TTCGGTTTATGTAGCA GCCC	59.0	558	INTERGENIC	--	--	--
Ca4_P1_17066139	Ca4	17066139	TAAAAAAAA/TAAAAAAAAA	AATGCTAAACACACGA GGCA	CCTCACCTTCTCCAT CACC	59.3	322	INTERGENIC	--	--	--
Ca4_P1_17066351	Ca4	17066351	GGAG/GGAGAG	AATGCTAAACACACGA GGCA	CGATTGAAGTCGAAC ACACA	59.3	556	INTERGENIC	--	--	--
Ca4_P1_17067066	Ca4	17067066	TAAAAAA/TAAAAAA	CGACTTCAAATCGAAC CAAA	CTCATTTTCGGATTTT CGGA	58.7	653	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_17067149	Ca4	17067149	AATAT/AAT	TTCATCCTCTTTTGTG GTTG	TCCTCATTTTCGGATT TTCG	57.7	190	INTERGENIC	--	--	--
Ca4_P1_17067171	Ca4	17067171	CATATAT/CATAT	TTCATCCTCTTTTGTG GTTG	TCCTCATTTTCGGATT TTCG	57.7	190	INTERGENIC	--	--	--
Ca4_P1_17071722	Ca4	17071722	ATTTTTTTTT/ATTTTTTTTT	GGGCTGCTACATAAAC CGAA	TCCGACATGCCATTTT GTTA	60.1	189	INTERGENIC	--	--	--
Ca4_P1_17074454	Ca4	17074454	CTCTTCTTCTTCTTCTTC/CTCTTC TTCCTTCTCTTC	TTGTTGTGTGGGAGT GAAA	AAGGACGGTGTGGCT CATAG	60.0	332	CDS (large-effect mutations)	Ca_05416	--	bHLH
Ca4_P1_17081659	Ca4	17081659	TG/TGG	TACCGGAAGATTCGGA AATG	CTGCAGGTAAGCATCC CAAT	59.9	694	INTERGENIC	--	--	--
Ca4_P1_17081756	Ca4	17081756	TTATA/TTATATA	TACCGGAAGATTCGGA AATG	CTGCAGGTAAGCATCC CAAT	59.9	694	INTRON	Ca_05415	--	--
Ca4_P1_17081772	Ca4	17081772	TAATA/T	TACCGGAAGATTCGGA AATG	CTGCAGGTAAGCATCC CAAT	59.9	694	INTRON	Ca_05415	--	--
Ca4_P1_17082004	Ca4	17082004	TGAT/TGATCGAT	TTTTGACAATGGGCAC TCAA	CTGCAGGTAAGCATCC CAAT	60.1	295	DRR	Ca_05415	--	--
Ca4_P1_17082915	Ca4	17082915	CTTTTT/CTTTTT	TCAGCTCACTCTCGCT TTGA	TGATGGAAGAATAAGG GGTCC	60.0	503	DRR	Ca_05415	--	--
Ca4_P1_17090015	Ca4	17090015	ATATTTATTTATTTATTTT/ATATTT ATTTATTTATTT	CCAACATTAACGGC CCTA	GCATTTTCACAATGTG GTGC	59.8	698	INTERGENIC	--	--	--
Ca4_P1_17094592	Ca4	17094592	TA/T	TGCTTCAAGAAAAAT CGGA	TGGGATTACCTGACCC CATA	58.5	190	INTERGENIC	--	--	--
Ca4_P1_17095065	Ca4	17095065	TAAAAAAA/TAAAAAAA	GGAGATGATTGCCCAA AGAA	CTCAATGATGACCGTT GTGG	60.0	764	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_17095718	Ca4	17095718	TAAAAAA/TAAAAA	CGGTCATCATTGAGGG CTAT	TCCATATGTGCCATT GCTA	59.9	694	INTERGENIC	--	--	--
Ca4_P1_17096036	Ca4	17096036	CTTTCAA/CTTTCAAGTTTCAA	CTGCAATTGTCAAGCT CCAA	TCCATATGTGCCATT GCTA	60.0	276	INTERGENIC	--	--	--
Ca4_P1_17096313	Ca4	17096313	AACACACACACACA/AACACACACACA	CTGCAATTGTCAAGCT CCAA	AGTGACACAACCCCTC CATC	60.0	750	INTERGENIC	--	--	--
Ca4_P1_17096800	Ca4	17096800	T/TA	GATGGAGGGGTTGTGT CACT	TCAAAGGCAAAAACCTC GACA	59.8	566	INTERGENIC	--	--	--
Ca4_P1_17097131	Ca4	17097131	AATATATATATATATATATATAT/AATA TATATATATATATATATATAT	GATGGAGGGGTTGTGT CACT	AATGTCGACAAAAAG CCAC	59.8	883	INTERGENIC	--	--	--
Ca4_P1_17101140	Ca4	17101140	TAACAAC/TAACAACAAC	TGGTTTGATTTATTGTG GTGC	CATTGGTTTTAACAAG TGTTGTTGT	58.4	472	DRR	Ca_05414	--	--
Ca4_P1_17101199	Ca4	17101199	A/AC	TGGTTTGATTTATTGTG GTGC	GTTCTTTGAAATTGCA CGAATA	58.4	812	DRR	Ca_05414	--	--
Ca4_P1_17101268	Ca4	17101268	TAAAAAA/TAAAAAAA	TGGTTTGATTTATTGTG GTGC	TCGAGAGTTGGGTCAT GGTC	58.4	881	DRR	Ca_05414	--	--
Ca4_P1_17101334	Ca4	17101334	TACAACAACA/TACAACA	TGGTTTGATTTATTGTG GTGC	GTCGAGAGTTGGGTC ATGGT	58.4	882	DRR	Ca_05414	--	--
Ca4_P1_17101437	Ca4	17101437	TAAAAAAA/TAAAAAAA	TTGAAAAACGTCAAAA GTACGTG	GTCGAGAGTTGGGTC ATGGT	59.3	787	DRR	Ca_05414	--	--
Ca4_P1_17101583	Ca4	17101583	AG/A	TGATGTTAACTGACAA ATGCTGTTT	GTCGAGAGTTGGGTC ATGGT	60.0	322	DRR	Ca_05414	--	--
Ca4_P1_17101658	Ca4	17101658	ATTTT/ATTTT	TGATGTTAACTGACAA ATGCTGTTT	GTCGAGAGTTGGGTC ATGGT	60.0	322	DRR	Ca_05414	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_17115270	Ca4	17115270	ATTTTT/ATTTT	GGGACCGTTCGTTTCA AATA	AACATGATTGGAATTC AATTTCTC	59.8	221	DRR	Ca_05412	CR	Nin-like
Ca4_P1_17129875	Ca4	17129875	CAT/CATTAT	CCCATCCTCTAAAGCA CAGC	GCTAGGGATGAAGGA AGCCT	59.8	530	INTRON	Ca_05411	CR	Nin-like
Ca4_P1_17131392	Ca4	17131392	TC/T	CATGCCTTCTAACACA GCGA	AAATTGCCGAGTCATC GAAC	60.0	300	INTRON	Ca_05411	CR	Nin-like
Ca4_P1_17131868	Ca4	17131868	GTTTTTTTTT/GTTTTTTTTT	AATTGTTCGATGACT CGGC	GCGCTATGGCAAAGA AAAA	60.1	662	INTRON	Ca_05411	CR	Nin-like
Ca4_P1_17137650	Ca4	17137650	C/CCTCACCA	AGTGTGGTGGCACATC GTAA	TTGTGTTGAAAAGGTT GGCA	60.0	544	INTERGENIC	--	--	--
Ca4_P1_17137872	Ca4	17137872	ATTTTTT/ATTTTTTT	AGTGTGGTGGCACATC GTAA	TTGTGTTGAAAAGGTT GGCA	60.0	544	INTERGENIC	--	--	--
Ca4_P1_17141313	Ca4	17141313	T/TC	TTTCAATCGTATCAAGT TTTTGC	AAACTGAAAGGCCTAA TTCCAA	58.4	682	DRR	Ca_05410	CR	Nin-like
Ca4_P1_17141850	Ca4	17141850	TAA/TAACAA	TTGGAATTAGGCCTTT CAGTTT	ATAATTTGGCAGGGTT CGTG	59.2	646	DRR	Ca_05410	CR	Nin-like
Ca4_P1_17143680	Ca4	17143680	TAAAA/TAAAAA	TTCGACCAAGCATGAT TTTG	GGTTAGGATTCAAGGA GGCA	59.7	736	INTRON	Ca_05410	CR	Nin-like
Ca4_P1_17147517	Ca4	17147517	G/GACGCTCATCA	ATTTCCCAACAAGATTC CCC	GGCGTTCCAAGTGAAT GTTT	60.0	627	DRR	Ca_05409	K	--
Ca4_P1_17157766	Ca4	17157766	TTAAT/TTAATAAT	AGAACCTTGCTATGCG TCGT	CATGGTGTGGACAAGA TTGG	59.9	501	DRR	Ca_05407	--	--
Ca4_P1_17159337	Ca4	17159337	G/GC	GCCACGCTCTAGGTTG AGAT	CCTCAGGCCTGCAACT GTAT	59.5	222	DRR	Ca_05407	--	--

[illegible]

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_17206399	Ca4	17206399	ATTTTT/ATTTTT	AACCGTTTGATGCGAA AAAT	ATCTATTGCCATCTGC CAGG	59.5	925	INTERGENIC	--	--	--
Ca4_P1_17206661	Ca4	17206661	T/TA	AATCAATCAACCAAGA ACGGA	ATCTATTGCCATCTGC CAGG	59.4	598	INTERGENIC	--	--	--
Ca4_P1_17206719	Ca4	17206719	ATTTTTTTTT/ATTTTTTTTTT	AATCAATCAACCAAGA ACGGA	ATCTATTGCCATCTGC CAGG	59.4	598	INTERGENIC	--	--	--
Ca4_P1_17206854	Ca4	17206854	GAIAAAAAAAAAAAAAA/GAIAAAAAAAAA A	CCTGGCAGATGGCAAT AGAT	GAAGGGGAACGTGTA CGAGA	60.1	529	INTERGENIC	--	--	--
Ca4_P1_17206969	Ca4	17206969	TAAAAAAAA/TAAAAAAAA	CCTGGCAGATGGCAAT AGAT	GAAATGGATCCGACG AAGA	60.1	593	INTERGENIC	--	--	--
Ca4_P1_17207193	Ca4	17207193	TA/T	CCTGGCAGATGGCAAT AGAT	GAAATGGATCCGACG AAGA	60.1	593	INTERGENIC	--	--	--
Ca4_P1_17208586	Ca4	17208586	TACAC/TACACAC	TGTAAGATGGGTGTGG CTCA	GGTCCCTAATGCAGTT GACC	60.1	487	INTRON	Ca_05402	C	--
Ca4_P1_17209722	Ca4	17209722	CT/CTT	CCATTTCAGAAAAGGCG AAGA	AAGCCTCGGGTAAAAT TGGT	60.2	442	INTRON	Ca_05402	C	--
Ca4_P1_17210535	Ca4	17210535	CTT/CT	TTCAGGGAGTTCCATC AACC	TAGCCTTCTGAATTCC CCCT	59.9	448	INTRON	Ca_05402	C	--
Ca4_P1_17210802	Ca4	17210802	ATG/ATGGTG	AGGGGGAATTCAGAAG GCTA	CCTCTTCTCCACCTG CATA	60.0	581	INTRON	Ca_05402	C	--
Ca4_P1_17214540	Ca4	17214540	A/ATATAG	GCTTTTTAGGCTGGGG AATC	TTGGTCAATGCGGAAG TGTA	60.0	627	DRR	Ca_05402	C	--
Ca4_P1_17219514	Ca4	17219514	CTTATTATTATTTAT/CTTATTATTT ATTTATTTATTTAT	GGAATGAGAGAGAGC GTTGG	TTATGCGATGCCAATT CAAA	60.0	563	INTRON	Ca_05401	O	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_17226014	Ca4	17226014	GTTTTTTTTT/GTTTTTTTTT	GCTTGGCAGCTTAGA ATGG	ACGCTCTGCTAACCT GGTA	60.0	322	INTRON	Ca_05400	YU	--
Ca4_P1_17235137	Ca4	17235137	CAAAAAAAAA/CAAAAAAAAA	CATTTTCATGCAACCTT GGTG	TAGTCTTCATTGTGCG CAGG	60.0	369	INTRON	Ca_05400	YU	--
Ca4_P1_17238317	Ca4	17238317	CTTTATTT/CTTTATTTATTT	AAAAATGGGTGGATG AACA	TTCCAATGTTGCAGAA GCAG	60.0	439	DRR	Ca_05400	YU	--
Ca4_P1_17242170	Ca4	17242170	GTCAT/GT	CTACATGAAGGGGCTC AACC	TCCAAGGACCGAGCT CATT	59.6	515	INTERGENIC	--	--	--
Ca4_P1_17242500	Ca4	17242500	T/TAA	CTTGATGGCTTCAACT TGGG	AACATAATTTTGGTTC CACTATTTTT	60.6	766	INTERGENIC	--	--	--
Ca4_P1_17243538	Ca4	17243538	AT/A	TTCACACATGCATTGT TACCA	TGCAAACTGCTCTAC CCAA	59.9	422	INTERGENIC	--	--	--
Ca4_P1_17244811	Ca4	17244811	CGTC/CGTCCATCAATTAAGTC	AACAACAAAGCCAGGC CATA	CCCCGATTAACAAAT AACCA	60.5	138	INTERGENIC	--	--	--
Ca4_P1_17247653	Ca4	17247653	GAAAAAAAA/GAAAAAAAAA	TTTATGTTTGGCCAAC TCCC	TTTTTAGGGACGCAAT TCAAA	59.8	539	INTERGENIC	--	--	--
Ca4_P1_17247848	Ca4	17247848	TAAAAAAAA/TAAAAAAAAA	TTTATGTTTGGCCAAC TCCC	TTTTTAGGGACGCAAT TCAAA	59.8	539	INTERGENIC	--	--	--
Ca4_P1_17247905	Ca4	17247905	GT/G	CAAGACATTGGGGACA AACA	TCTGGCCAAAATTAG CTTCA	59.4	851	INTERGENIC	--	--	--
Ca4_P1_17248318	Ca4	17248318	G/GA	TTTGAATTGCGTCCCT AAAAA	TTTTGGCATGAATTTG GGAT	59.6	653	INTERGENIC	--	--	--
Ca4_P1_17250847	Ca4	17250847	ATTTT/ATTT	GCCGAAAAACCAAGT GTGT	CGTTGGATTCTTTCC TCTC	60.0	514	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_17251218	Ca4	17251218	TTTT/TTTTACATCTCGATT	GAGAGGAAAGGAATCC AACG	CAAATTGTCGAACCAT GTCC	58.7	653	INTERGENIC	--	--	--
Ca4_P1_17251694	Ca4	17251694	T/TAATC	GCTCGATAAAGCAGTC GTCC	GCCAAATCGAACCAAC TTTT	60.0	577	INTERGENIC	--	--	--
Ca4_P1_17252021	Ca4	17252021	ATTT/ATT	GCTCGATAAAGCAGTC GTCC	CAACGTAACACGCCTC TTGA	60.0	661	INTERGENIC	--	--	--
Ca4_P1_17253546	Ca4	17253546	CAAAAAAAAA/CAAAAAAAAA	CGGTTTTCAACAGAAA ACCAA	TTTTTCGACATAAAAA GTTTCCA	60.0	673	INTERGENIC	--	--	--
Ca4_P1_17253834	Ca4	17253834	AAATAA/AAA	TGCAATATCATTTTCAT GTTCTTG	TGATGAAGTGAGTCGC TTGG	59.0	843	INTERGENIC	--	--	--
Ca4_P1_17253939	Ca4	17253939	T/TA	TCAACATCTAGTTAGA GGTGCAAAA	TGATGAAGTGAGTCGC TTGG	59.4	780	INTERGENIC	--	--	--
Ca4_P1_17254027	Ca4	17254027	TAATT/TAATCAATT	TGGAACTTTTTATGTC GAAAAAT	TGATGAAGTGAGTCGC TTGG	58.3	470	INTERGENIC	--	--	--
Ca4_P1_17254750	Ca4	17254750	GTAATAA/GTAA	CAAATATTGTGCCAGC CAAA	TCTTAATCTTGACCAG CCCG	59.6	898	INTERGENIC	--	--	--
Ca4_P1_17255615	Ca4	17255615	AT/A	CGGGCTGGTCAAGATT AAGA	TCGGCAGGAAATACCA AAAG	60.2	678	INTERGENIC	--	--	--
Ca4_P1_17257056	Ca4	17257056	ATTTT/ATTT	CCAACAAGCATTACAT TGCG	ACGTTGACATTCCAGC ATGA	60.1	423	INTERGENIC	--	--	--
Ca4_P1_17257974	Ca4	17257974	AATA/AATATA	ACATGGCAGGTTGGAT TCAT	TCATGGGTACCCACC TTAG	60.2	605	INTERGENIC	--	--	--
Ca4_P1_17259358	Ca4	17259358	TAAA/TAAAA	ATGGGTGCATTGTTT CAGA	GCCTGAGTTTGGCATA CGAT	59.0	338	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_17260936	Ca4	17260936	CTT/CT	AGCAACCGAATAACGA AACG	GCAGGGACGCTTATG AAGAA	60.1	453	INTRON	Ca_05398	R	--
Ca4_P1_17264905	Ca4	17264905	TACA/TA	ACTGCCTTCAATGGGA GATG	AATACAGCCATCAAGC CACC	60.1	250	INTRON	Ca_05398	R	--
Ca4_P1_17266850	Ca4	17266850	GCATTGAGTG/GCATTGAGTGGTAAA ACATTGAGTG	CATTGCATCCAACAA GTCG	TGAACGGTGCATCTTC TGAC	60.1	519	DRR	Ca_05397	S	--
Ca4_P1_17267236	Ca4	17267236	GT/GTT	GCTTAATGTGCCTTGG GCTA	ATAGGAGGAGGAGCA CGGAT	60.2	274	DRR	Ca_05397	S	--
Ca4_P1_17267471	Ca4	17267471	T/TC	ATCCGTGCTCCTCCTC CTAT	CCCGGAAAAATGAAGA ACAA	60.1	507	DRR	Ca_05397	S	--
Ca4_P1_17271006	Ca4	17271006	CAAAAAAAAA/CAAAAAA	GCATCCTGACCCACA AAT	CGTCTACCTTCTTCCA AGCG	60.7	734	INTRON	Ca_05397	S	--
Ca4_P1_17271174	Ca4	17271174	GATAATAATAATAAT/GATAATAAT AATAAT	GAGAGGCGTCGATGA GAAAG	CGTCTACCTTCTTCCA AGCG	60.1	191	INTRON	Ca_05397	S	--
Ca4_P1_17284874	Ca4	17284874	GATA/GA	TTGAATATGAGCCTCC AAGAGA	CTTGTTGAGGCTTTGG GTGT	58.9	794	DRR	Ca_05393	R	--
Ca4_P1_17285160	Ca4	17285160	ACT/A	CATTTCCTTTGAGTCAT GAGAGG	CTTGTTGAGGCTTTGG GTGT	60.1	310	DRR	Ca_05393	R	--
Ca4_P1_17286530	Ca4	17286530	TA/T	GGCCCCGTGTATCCCT AAAG	CTAGGGACCATCGCAA GTTC	59.8	551	INTRON	Ca_05393	R	--
Ca4_P1_17286686	Ca4	17286686	CATTGGATTGGATTG/CATTGGATTG	TGCATTTGATGCCTTT GCTA	TGATTAGCCCGTATTT TGGG	60.4	648	INTRON	Ca_05393	R	--
Ca4_P1_17287338	Ca4	17287338	AC/A	CCCAAAATACGGGCTA ATCA	TCTTCACTTGGCTGGA AAGC	59.8	508	INTRON	Ca_05393	R	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_17289085	Ca4	17289085	GAAA/GAAAAA	TGGGGTTAAACTTGAA GAATGC	GGAGCATGGAGTTGT TGGT	60.3	629	INTERGENIC	--	--	--
Ca4_P1_17290871	Ca4	17290871	GTTTAATT/GTTTAATTTTAATT	CCAAGTATGGCAGGTG GAAT	TCATGAGCTAGAATGG TTGTAAAAA	59.8	615	INTERGENIC	--	--	--
Ca4_P1_17291290	Ca4	17291290	TAAAAA/TAAAAAA	AAAATTATCGCGTGAC GCTT	TAGATCACCCACACCA ACGA	59.7	590	INTERGENIC	--	--	--
Ca4_P1_17293581	Ca4	17293581	GTAT/GTATAT	TCACATCCGTTGAACG AAGA	TTTGTTTTATTAGTTTT GGTGTGG	60.2	652	DRR	Ca_05392	R	--
Ca4_P1_17297028	Ca4	17297028	TA/TAA	TTTGCTCAGCTGTGT TGAC	TCATCAGCTGGACAAC TTCG	60.0	607	INTRON	Ca_05392	R	--
Ca4_P1_17313521	Ca4	17313521	TAAA/TAA	GCTAGACAGGTTTGGC TTCG	AAGGCTCCTGCAAGCA TTTA	60.0	966	INTERGENIC	--	--	--
Ca4_P1_17314228	Ca4	17314228	CAAAAAA/CAAAAAA	TAAATGCTTGACGAGG CCTT	CCTTTTGTCTCAATC GCGT	60.0	366	INTERGENIC	--	--	--
Ca4_P1_17314621	Ca4	17314621	ATTTTT/ATTTTT	ACGCGATTGAGAACAA AAGG	CTTCCCCACTCACAGT CCAT	60.2	604	DRR	Ca_05390	M	--
Ca4_P1_17314777	Ca4	17314777	TAAAAA/TAAA	ACGCGATTGAGAACAA AAGG	CTTCCCCACTCACAGT CCAT	60.2	604	DRR	Ca_05390	M	--
Ca4_P1_17314848	Ca4	17314848	CAA/CAAAACCGAACTAGAA	TTGTAAAACTGCATCA ATCGAA	CTTCCCCACTCACAGT CCAT	59.7	488	DRR	Ca_05390	M	--
Ca4_P1_17315192	Ca4	17315192	TAAA/TAAAA	ATGGACTGTGAGTGGG GAAG	TTGGTCCAACAGCTTG ATGA	60.0	716	DRR	Ca_05390	M	--
Ca4_P1_17318086	Ca4	17318086	A/AG	CTCAAAAGTGGGATAG GGCA	ACAGCGTGAAACAAGA TCCC	60.1	429	INTRON	Ca_05390	M	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_17321001	Ca4	17321001	AATGGTATG/ATGGTATGGTATG	CATCGGCAAGACTGA GTGA	CGATGGTGCAGATAG CAGAA	60.0	582	INTERGENIC	--	--	--
Ca4_P1_17324120	Ca4	17324120	TTTATTATTAT/TTTATTATTATTAT TATTAT	TGAACCCACAACCAC AAGA	CCCGACTTCTTTCTCA GCAC	60.0	567	INTERGENIC	--	--	--
Ca4_P1_17324609	Ca4	17324609	TGTC/TGTCCTGTTTCCGTC	GTGCTGAGAAAGAAGT CGGG	TGTCGACTTGTCTTT CGTG	60.0	339	INTERGENIC	--	--	--
Ca4_P1_17325230	Ca4	17325230	C/CATAT	TCCTCTAACACCACGA AAGGA	TCACCAATAATATAAA AACATGGGA	59.7	889	INTERGENIC	--	--	--
Ca4_P1_17325708	Ca4	17325708	CCAATT/C	TCCCATGTTTTATATT TATTGGTGA	GAATCCGTTGTTGTGT GCAA	59.8	124	INTERGENIC	--	--	--
Ca4_P1_17327182	Ca4	17327182	CAAAAAAAAA/CAAAAAAAAA	ATTGGTGCATTTGAAG TGGG	CGAGATCTTATCGTTG TGTTTCG	60.8	352	INTERGENIC	--	--	--
Ca4_P1_17329245	Ca4	17329245	TCACA/TCA	GGCATGATAAGAGGG AGGA	TAACTCTCACGTGCA ATCG	59.1	386	INTERGENIC	--	--	--
Ca4_P1_17332259	Ca4	17332259	GAAAAAAAAAAAAA/GAAAAAAAAAAAAA	CGGC AAAATTACATCT GTGG	GCGCATTGTCTAGCAT TGAA	59.0	704	INTERGENIC	--	--	--
Ca4_P1_17339892	Ca4	17339892	ATTT/ATT	TTTTGGGGAACACAAC CTTT	GACATTTCTCATAGGG GCGA	59.3	297	INTERGENIC	--	--	--
Ca4_P1_17343658	Ca4	17343658	GTT/GT	GCATGAGACCAAGCTA AGCC	GACCATGCTTGTGTTG TTGG	60.0	408	DRR	Ca_05389	A	--
Ca4_P1_17353052	Ca4	17353052	ATTTTTTTTT/ATTTTTTTTT	TGCTTTAAGGCCAAAT TCAAA	CGATCCATTATTTTCAG TGGA	59.7	625	INTERGENIC	--	--	--
Ca4_P1_17353713	Ca4	17353713	A/AGAATA	TCCCACTGAAATAATG GATCG	TTGGTGTCCACAGAAG AACAA	59.8	770	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_17354782	Ca4	17354782	TAAAAAAA/TAAAAAA	TATTGATTCGGTCAATT ATGACA	TGGATTAGGCCTTGAA GCAT	57.1	728	INTERGENIC	--	--	--
Ca4_P1_17360464	Ca4	17360464	TTATATATATATATAT/TTATATATAT ATATATATATATATATAT	GTGTGCGATTGAGTTG AACG	CTTGCTGGGCTTTTCA AGAC	60.3	579	INTRON	Ca_05388	T	NAC
Ca4_P1_17360539	Ca4	17360539	TAA/TAAA	GTGTGCGATTGAGTTG AACG	CTTGCTGGGCTTTTCA AGAC	60.3	579	INTRON	Ca_05388	T	NAC
Ca4_P1_17364120	Ca4	17364120	CAA/CAAA	AAATTTTCAGATCCACC CCC	CTTTGTGCAGTTTCAT CCCT	60.0	550	INTRON	Ca_05388	T	NAC
Ca4_P1_17365284	Ca4	17365284	TA/TAA	CCCCGGCTTACACATT CTTA	TATTGGTGAACCGAA CGCA	60.0	557	INTRON	Ca_05388	T	NAC
Ca4_P1_17366666	Ca4	17366666	ACTCATAATG/A	GTGAGCCCAAAGTTGA TCGT	TGGCACTCTCCTTTAG CTGC	60.1	852	INTERGENIC	--	--	--
Ca4_P1_17366794	Ca4	17366794	CTTTATCTTT/CTT	AAGCACGATGTAATGC GATG	TGGCACTCTCCTTTAG CTGC	59.7	652	INTERGENIC	--	--	--
Ca4_P1_17367149	Ca4	17367149	AATAT/AAT	GCAGCTAAAGGAGAGT GCCA	AGACAGTTCGCTCGCA AATC	60.7	506	INTERGENIC	--	--	--
Ca4_P1_17367667	Ca4	17367667	AC/ACC	TAAATGTGATTTCGA GCGA	ATGCATGGAGGTGATG ATGA	60.4	284	INTERGENIC	--	--	--
Ca4_P1_17368867	Ca4	17368867	CTATA/CTA	GCTTTTCAGCCGATTT TGTC	GGGACATCATTCTCGC TCAC	59.8	380	INTERGENIC	--	--	--
Ca4_P1_17369103	Ca4	17369103	GATATAT/GATAT	GTGAGCGAGAATGATG TCCC	TGACTTAGCATCTTCC CCGA	60.6	243	INTERGENIC	--	--	--
Ca4_P1_17376716	Ca4	17376716	ATTTTTTTTT/ATTTTTTTTTT	CCCCCATCTTCAAATG TGTT	AGATGTAGCAACGCAA ACCA	59.6	698	DRR	Ca_05387	R	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_17388357	Ca4	17388357	TAAAAAAAAAAAAA/TAAAAAAAAA	AAATCGCCATTGGAA CTTG	CACGATCATGTGTTCC ACAA	59.9	308	INTERGENIC	--	--	--
Ca4_P1_17395103	Ca4	17395103	TAAAAA/TAAAAAA	GCGTGGGTAGCACTT TCAT	TCGATGGTCATTTTTG TTGC	60.1	378	INTRON	Ca_05386	K	--
Ca4_P1_17396241	Ca4	17396241	GTTT/GTT	CCAAGCATGGTTAGT GGCT	TTTCTCTGGCCACCAT TTTC	60.1	371	INTRON	Ca_05386	K	--
Ca4_P1_17420097	Ca4	17420097	TA/TAA	TCGTTCAACCATTGCA TCAT	TCCGAATGAGTGACCA AAATC	59.9	612	INTERGENIC	--	--	--
Ca4_P1_17420687	Ca4	17420687	GAAAAA/GAAAAA	GATTTTGGTCACTCATT CGGA	AACCTCCAACAACCTCA CGGG	59.9	837	INTERGENIC	--	--	--
Ca4_P1_17421137	Ca4	17421137	GT/GTT	CCCGTGAGTTGTTGGA AGTT	ATGCCCTCATTGGAAC TTGA	60.0	351	INTERGENIC	--	--	--
Ca4_P1_17421248	Ca4	17421248	G/GTTTAA	CCCGTGAGTTGTTGGA AGTT	TCGATAATTGAAACC GCCT	60.0	569	INTERGENIC	--	--	--
Ca4_P1_17423254	Ca4	17423254	ATAAGATT/ATAAGATTAAGATT	GTGTGGGTTGGCTTTC ATCT	GAAACGCTATGATGCC GTAAA	60.0	492	INTERGENIC	--	--	--
Ca4_P1_17423293	Ca4	17423293	TTATATA/TTA	GTGTGGGTTGGCTTTC ATCT	GAAACGCTATGATGCC GTAAA	60.0	492	INTERGENIC	--	--	--
Ca4_P1_17423564	Ca4	17423564	TC/T	TATTTTGCATTGTTTGC GGA	TCCATCCCTCATCACT CACTC	60.1	719	INTERGENIC	--	--	--
Ca4_P1_17425855	Ca4	17425855	C/CT	AGAGCATTGGAGTCGT GACC	GAATTGAATTCGATG TCGC	60.3	527	INTERGENIC	--	--	--
Ca4_P1_17430506	Ca4	17430506	GTTTTTTT/GTTTTTTT	TGTTGCTTTTGCATCC TCTG	CAAGGTTAAGAGCGC CITTG	60.0	485	INTRON	Ca_05384	K	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_17431572	Ca4	17431572	GC/G	TCTGTCATTCTGCCA TTTTT	TCGCAATGTAGCTCCC TCTT	59.6	858	INTRON	Ca_05384	K	--
Ca4_P1_17431622	Ca4	17431622	TG/TGG	TGTCCCTCATTATAAG CACCC	TCGCAATGTAGCTCCC TCTT	58.9	606	INTRON	Ca_05384	K	--
Ca4_P1_17432501	Ca4	17432501	AC/A	ATTCTTCGGATGGTGC TTTG	CTCATTTCTGTTCCCC TCCA	60.1	531	INTRON	Ca_05384	K	--
Ca4_P1_17436350	Ca4	17436350	CTTTTT/CTTT	AAGATCCTGCCCTCA AGAT	TGCTCCAAGTGTGG TGAC	60.0	459	INTRON	Ca_05384	K	--
Ca4_P1_17439269	Ca4	17439269	T/TCTA	TCCTCACCAAGTCCGA AATC	GGGTGTGGGGATAGT TGATG	60.1	534	INTRON	Ca_05384	K	--
Ca4_P1_17443455	Ca4	17443455	TAA/TA	GTTGGTGTGGCTTTT GCTT	ACATAGAGCTGTGCGT GGTG	60.2	246	DRR	Ca_05384	K	--
Ca4_P1_17448021	Ca4	17448021	TATTTTCATTTTC/TATTTTCATTTCA TTTTC	GAGTTGAGGAAACA TATGTCAA	TTCTTTTCTGCGATT CTCG	58.7	654	INTERGENIC	--	--	--
Ca4_P1_17448099	Ca4	17448099	TAAAAAAA/TAAAAA	TCGTTGATTATTGGTAT TGCTTTTC	CGACGGTAGCCCTAC AATC	59.7	460	INTERGENIC	--	--	--
Ca4_P1_17461972	Ca4	17461972	TAAAAAAAAA/TAAAAAAAAA	TCCAATTTGAATTTGAT GGG	TCATGTACATCAACA AATCCTAAAA	58.3	301	INTERGENIC	--	--	--
Ca4_P1_17462763	Ca4	17462763	CAAAA/CAAA	TGATGGCATAGTGACA TAATAACA	TTCAGACCGTATCAAA TTCCAA	58.5	890	INTERGENIC	--	--	--
Ca4_P1_17470871	Ca4	17470871	GTGGCTA/GTGGCTAATGGCTA	GTCCCACCAAGAAAG CAAA	CAC TTGAAGAGGCTCC ATCC	60.1	343	DRR	Ca_05380	AB	--
Ca4_P1_17470896	Ca4	17470896	TTACTACTATTA/TTATTA	GTCCCACCAAGAAAG CAAA	CAC TTGAAGAGGCTCC ATCC	60.1	343	DRR	Ca_05380	AB	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_17471120	Ca4	17471120	C/CCTTAA	CACAGTGGCTGAGAGT GGAA	CGGATACACCCATTGG CTAC	60.0	502	DRR	Ca_05380	AB	--
Ca4_P1_17475440	Ca4	17475440	GT/GTTGTTATT	CGGGCAGTAGCATTAG ATGG	GGATGAATGGGAGGT GGTTA	60.6	210	INTERGENIC	--	--	--
Ca4_P1_17484481	Ca4	17484481	ATTTTTTTTT/ATTTTTTTTTT	TCGCCTGATGCTTGTA CTTG	AGGAGGCTTTTCCACA GGTT	60.0	361	INTRON	Ca_05379	O	--
Ca4_P1_17487582	Ca4	17487582	TAATA/TAATAAATA	TGGGAAATTGCAAGAC AACA	TCTTCCACGGATCCT GTTT	60.1	291	INTRON	Ca_05379	O	--
Ca4_P1_17491763	Ca4	17491763	TAAAA/TAAAAA	TTTTCCGTAGATTCC ATGC	GCTGGAGAAAGAGTT GGTGC	59.9	705	INTRON	Ca_05378	--	--
Ca4_P1_17494891	Ca4	17494891	GAAAAAAAAA/GAAAAAAAAA	AGATCTCCGACGATG ATGG	AAGCAACCCCACTTC ACAC	60.0	245	DRR	Ca_05377	R	B3
Ca4_P1_17495331	Ca4	17495331	TATACTCA/TA	GTGTGAAGTGGGGTTT GCTT	CGAAATTCATGCATTC AACG	60.0	476	DRR	Ca_05377	R	B3
Ca4_P1_17495949	Ca4	17495949	C/CTT	TCATTGCTGAAGAGCA CGAT	TGCTCAACAACAGGAA GTGG	59.6	728	DRR	Ca_05377	R	B3
Ca4_P1_17518444	Ca4	17518444	TAAAAAAAAA/TAAAAAAAAA	CAATTTGGGGGTGTTG GTAG	TGGTGTGTTGGATGTTA CCTTTTC	60.1	440	INTERGENIC	--	--	--
Ca4_P1_17524638	Ca4	17524638	GTATTATTATTATTA/GTATTATTATTA TTATTA	GGAGATGGAGATGGCT GTGT	GGGTATCAAGCCGAAT CAAA	60.1	862	DRR	Ca_05374	R	NAC
Ca4_P1_17532742	Ca4	17532742	TAAAA/TAAAAA	CCCATCTTGTTTGGTT CACA	CTGAAAGGCATAAAG GCAA	59.4	954	INTERGENIC	--	--	--
Ca4_P1_17533392	Ca4	17533392	CTT/CTTT	CTTTTGTGGTGCCA TTTT	GGCATTGTGCTGAGT GATTTT	60.1	679	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_17533529	Ca4	17533529	GT/G	CTTTTGTCTGGTGCCA TTTT	TGCAAGAAGAAGGAAG CCAT	60.1	713	INTERGENIC	--	--	--
Ca4_P1_17534928	Ca4	17534928	TAAAAAAAA/TAAAAAAAA	TTTTTGTGTGTGTGCG GTTT	TGTGTCAAAGATGGTA TTTCAATG	60.1	410	INTERGENIC	--	--	--
Ca4_P1_17535175	Ca4	17535175	ACT/ACTCT	TTTTTGTGTGTGTGCG GTTT	GGCTGGAAGTGAGCT AGTGG	60.1	811	INTERGENIC	--	--	--
Ca4_P1_17535397	Ca4	17535397	TG/T	CATTGAAATACCATCTT TGACACA	GGCTGGAAGTGAGCT AGTGG	58.9	425	INTERGENIC	--	--	--
Ca4_P1_17545627	Ca4	17545627	TAAAAAAAA/TAAAAAAAA	AGTTTAGGGGCAAGCA CTGA	TGCATCGGAGATCACA TCTT	59.9	363	INTERGENIC	--	--	--
Ca4_P1_17552174	Ca4	17552174	GTT/GTTT	AAGTGAGGCCACTGGA AAGA	ATGTGTTGGAACTTT CCGC	59.8	204	INTERGENIC	--	--	--
Ca4_P1_17600797	Ca4	17600797	TC/T	AAGGGTGATGGACGAA AAAC	TTAAATGGTCGCATAG AGCAA	58.9	682	INTERGENIC	--	--	--
Ca4_P1_17600811	Ca4	17600811	TAAAAA/TAAAAAA	AAGGGTGATGGACGAA AAAC	TCCAACAACATCAAT TCATCC	58.9	951	INTERGENIC	--	--	--
Ca4_P1_17601510	Ca4	17601510	TC/T	GGATGAATTTGATGTT GTTGGA	CCGTGTCTATCCCAT TTTG	59.7	515	INTERGENIC	--	--	--
Ca4_P1_17601888	Ca4	17601888	TAAA/TAAAA	CAAAATGGGGATAGAC ACGG	TTTCAAATGAACGTTT GCTACA	60.2	440	INTERGENIC	--	--	--
Ca4_P1_17602358	Ca4	17602358	GT/GTT	TTTGAATGTGTATTGTA GCAAAACG	CCTATTCTCGAGAGCA ACCG	59.2	322	INTERGENIC	--	--	--
Ca4_P1_17606665	Ca4	17606665	ATTTTT/ATTTTTT	GCATTGTGAACAAATT ATCGTAGC	GCGGAAGTAGCGATC TCAAG	59.9	767	DRR	Ca_05371	S	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_17609228	Ca4	17609228	CTA/CTATA	TACACAAGAACGGGT GACA	GCAGGGCTATTCCAAA AACA	60.0	890	DRR	Ca_05370	O	--
Ca4_P1_17610544	Ca4	17610544	TC/T	TGGTGTGATTTTCATCA TGGC	TGAACCGAACTGGTTT TTCA	60.3	379	DRR	Ca_05369	E	--
Ca4_P1_17613177	Ca4	17613177	CAAAAAAAAA/CAAAAAAAAAA	CATTGGCGCAACAATA TGAC	TGGCATATCAGGTGAG TGGA	60.0	354	INTRON	Ca_05369	E	--
Ca4_P1_17617805	Ca4	17617805	GAAAAAAAA/GAAAAAAAA	CATCTAGTGTGGGGA ATGTGA	ACGTTTCGCCCTACAT CATT	59.9	838	INTERGENIC	--	--	--
Ca4_P1_17618031	Ca4	17618031	TAAAAAAAA/TAAAAAAAA	GAAATGTAGGGCGAAA CGTC	TCGAGTTCAGTTTGG TGTGTC	59.6	828	INTERGENIC	--	--	--
Ca4_P1_17618568	Ca4	17618568	TAAAAAAAA/TAAAAAAAA	TAATGATGTAGGGCGA AACG	GGTTGAAGTTGAAGAT CGGC	58.7	693	INTERGENIC	--	--	--
Ca4_P1_17618987	Ca4	17618987	TATCATCAT/TATCAT	GCCGATCTTCAACTTC AACC	TCGAGCTAGAAGCACC AACA	59.7	470	INTERGENIC	--	--	--
Ca4_P1_17619173	Ca4	17619173	TAAAAAAAA/TAAAAAAAA	GCCGATCTTCAACTTC AACC	TCGAGCTAGAAGCACC AACA	59.7	470	INTERGENIC	--	--	--
Ca4_P1_17622678	Ca4	17622678	ATTTTT/ATTTTT	CCTGAAAGGCATGGCT GTAT	TGCTTCCTTCCTTGAA GCAT	60.1	289	INTRON	Ca_05368	F	--
Ca4_P1_17624755	Ca4	17624755	ATTTTTTTTT/ATTTTTTTTTT	TGAATTAGCTGCATGC TTGG	TTATTTGGCGGTTTAT TGCC	60.0	312	DRR	Ca_05368	F	--
Ca4_P1_17626407	Ca4	17626407	AGGT/AGGTGGT	TGTCCCTTTCTCGTGC TCTT	GTCCAACTCCGGTTTA ATGC	60.0	285	DRR	Ca_05368	F	--
Ca4_P1_17626510	Ca4	17626510	ATTT/AT	TGTCCCTTTCTCGTGC TCTT	CGGAAGAGTGTGAATC TCCA	60.0	809	DRR	Ca_05368	F	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_17629803	Ca4	17629803	ATTTTTTT/ATTTTTTTTTTT	CTTTTCGCGAACACA TTTT	GTACATACATGGACGC GACG	60.1	587	INTERGENIC	--	--	--
Ca4_P1_17631582	Ca4	17631582	GTT/GTTAGAATT	TGCACTTTTCATCGCTT TTG	ACATGGGATGGGATCT GTGT	60.0	347	INTRON	Ca_05367	Z	WRKY
Ca4_P1_17636026	Ca4	17636026	C/CCAAGATATA	GGCCTCATCTCTAGCC AATG	CCAAGGAAGTTTCACC AGGA	59.8	297	INTRON	Ca_05367	Z	WRKY
Ca4_P1_17637226	Ca4	17637226	CTATT/C	ACACAAGTTAGGTGGG GCAG	CTGCATCTGTAGTGAG GCCA	60.0	346	INTRON	Ca_05367	Z	WRKY
Ca4_P1_17637458	Ca4	17637458	GAC/G	ACACAAGTTAGGTGGG GCAG	GCATGGCTTGATGTGA GAGA	60.0	475	INTRON	Ca_05367	Z	WRKY
Ca4_P1_17637631	Ca4	17637631	CTCTTAGGT/CT	CCAAGCCTTCCATTCA ACAT	CGCAAACTTTTGGTGA GACA	59.9	724	INTRON	Ca_05367	Z	WRKY
Ca4_P1_17638859	Ca4	17638859	TC/T	GTTGCTTCAGGGTTA CCAA	GACAAGCTGCAGCATCA ATGG	60.0	301	INTRON	Ca_05367	Z	WRKY
Ca4_P1_17640054	Ca4	17640054	TTTATTATTATTATTATT/TTTATTA TTATTATTATT	TATGAGTGCTGTTTG AGCG	GAACCCTTTCCATCGA GTCA	60.0	779	DRR	Ca_05367	Z	WRKY
Ca4_P1_17640423	Ca4	17640423	CTTTTTT/CTTTTTT	CAAGAAGAAGTGGTGG GGAA	GAACCCTTTCCATCGA GTCA	60.1	524	DRR	Ca_05367	Z	WRKY
Ca4_P1_17640878	Ca4	17640878	T/TC	GACTCGATGGAAAGGG TTCA	AGCCAACAAAACCACC AAAG	60.1	634	DRR	Ca_05367	Z	WRKY
Ca4_P1_1764308	Ca4	1764308	AT/ATGT	AGAGGCATTGCTCATC AACC	TCGAAAAGATGCAAGA CCAA	60.2	754	INTERGENIC	--	--	--
Ca4_P1_17649020	Ca4	17649020	TTTTAAA/TTTTAAATTTAAA	CCAAAGAGCTGAAATG CACA	GGAAGCCGAAAACTA AGGC	60.0	399	DRR	Ca_05365	H	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_17652245	Ca4	17652245	ATTTTTTTTT/ATTTTTTTTT	CAGGTATGGGGTTGTTG	GAGAAATGCTGCGGA GAAAC	60.1	774	INTRON	Ca_05364	S	--
Ca4_P1_1765263	Ca4	1765263	CTTTTA/C	GGTCATGCGTGGGCTA CTAT	TTTTCTGAAATTTTGG TGAATG	60.0	497	INTERGENIC	--	--	--
Ca4_P1_17654597	Ca4	17654597	TCACACAC/TCACACACAC	TCCAATTGACACCACT GCTC	TTTTCAACATTCTAAAA ATGGGC	59.7	542	DRR	Ca_05364	S	--
Ca4_P1_17654627	Ca4	17654627	AT/ATAAACTTT	TCCAATTGACACCACT GCTC	TTTTCAACATTCTAAAA ATGGGC	59.7	542	DRR	Ca_05364	S	--
Ca4_P1_17656569	Ca4	17656569	GATA/GATATA	AATTGGGGCGTTACA AACA	GTGCAAGATCCGCTAC CAGT	60.2	427	INTERGENIC	--	--	--
Ca4_P1_17656991	Ca4	17656991	ATTTTTTTTT/ATTTTTTTTT	ACTGGTAGCGGATCTT GCAC	GAACCAACAACTCTA ATGCC	60.3	276	INTERGENIC	--	--	--
Ca4_P1_17658038	Ca4	17658038	A/ACTATCCACCACAATAG	TCTTGTGCTCCCTT CATC	GGCCCAACGATGAGT GATAA	60.2	475	INTERGENIC	--	--	--
Ca4_P1_17658409	Ca4	17658409	GT/GTT	TCTTGTGCTCCCTT CATC	ACACACGTGCATTCGG TAAA	60.2	702	INTERGENIC	--	--	--
Ca4_P1_17661910	Ca4	17661910	ATTTTT/ATTTTTTT	AACATGTGAAATGGGA AGGC	TTAACGGTTCGTTTT CAGG	59.8	982	DRR	Ca_05363	R	WRKY
Ca4_P1_17662474	Ca4	17662474	ATTATTGTTATT/ATTATT	TTATCCTGGAACGA ACCG	GCGATTAAGCGAAGAA CCTG	59.9	477	DRR	Ca_05363	R	WRKY
Ca4_P1_17663581	Ca4	17663581	CGTGGTGGTGGTGGTGG/CGT GTGGTGGTGGTGGTGG	TGCCGTGTGGACATGA GTAT	CCAAGTGGCAAAAGC TTCG	60.0	338	CDS (large-effect mutations)	Ca_05362	O	--
Ca4_P1_17665452	Ca4	17665452	A/AC	AAGGTTACAGCGTTT ACCG	GTGGAGAATGGCCAC TTGAT	60.2	782	DRR	Ca_05362	O	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_17666197	Ca4	17666197	CAAAAAAAAA/CAAAAAAAAAA	CATTCTAAGCACCAT GCCA	TCTTACCATATTGCC CCAC	59.7	912	DRR	Ca_05361	--	--
Ca4_P1_17666821	Ca4	17666821	A/ATT	TTCACATGCAAGCCAT GTTT	GCATTCACACATAACC CCGT	60.1	215	DRR	Ca_05361	--	--
Ca4_P1_17666834	Ca4	17666834	C/CT	TTCACATGCAAGCCAT GTTT	GCATTCACACATAACC CCGT	60.1	215	DRR	Ca_05361	--	--
Ca4_P1_17667851	Ca4	17667851	T/TC	GACATGTCAATCGAAC GTGG	ACCTGCAGTGAGATTG GGAC	60.0	540	INTRON	Ca_05361	--	--
Ca4_P1_17670952	Ca4	17670952	T/TG	TGTTGACTCTTGCGTG TTGC	CGACATCATGGATTGT TTGG	60.0	659	INTERGENIC	--	--	--
Ca4_P1_17673781	Ca4	17673781	GAAAAA/GAAAAA	TGCCATGTCACCAAGG TTTA	CCATTCAAGTTTCTTC CCCA	60.0	878	DRR	Ca_05360	--	--
Ca4_P1_17674751	Ca4	17674751	A/AC	TGCTCCCAATCTCAAT TTCC	GCCTGATTCTTCAGGC AAGT	60.0	474	INTRON	Ca_05360	--	--
Ca4_P1_17678728	Ca4	17678728	ATTTTTTTTT/ATTTTTTTTTTTTTTT	CACCATGAAACCTTGC TCCT	GTTGCAGAGATGAATG GGGT	60.1	499	INTERGENIC	--	--	--
Ca4_P1_17690587	Ca4	17690587	TGGG/TGGGG	CGTTCTCAGAGGGAAA TGGA	TCCCAAAGTGAAATGC ATCA	60.2	611	INTRON	Ca_05356	TU	--
Ca4_P1_17697196	Ca4	17697196	TAAAAAAA/TAAAAAAA	GGAAATTGGAAAGTT GGCA	ATAAGGTTCCCCCTGC AATC	59.9	564	INTERGENIC	--	--	--
Ca4_P1_17705462	Ca4	17705462	GAAAAA/GAAAAA	GTGCTTTCCCAAGCAA TCAT	TCTGAGATGGGTTTGC CTTT	60.1	885	DRR	Ca_05355	R	SBP
Ca4_P1_17707066	Ca4	17707066	ATTTTT/ATTTTTTT	TTGCATGCTTGATTCA AAAA	CCATCGAAAAGGAATG GCTA	60.2	413	DRR	Ca_05354	O	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_1771183	Ca4	1771183	TATATATA/TATATATAACATATATA	GATCAATATCTCATG CGGG	GTTGGGCACCGTCATA AAGT	60.3	423	INTERGENIC	--	--	--
Ca4_P1_17713411	Ca4	17713411	TAA/TA	TCCGTCGTTTATTCTTT GGC	TGAATCGTTTTGGAAA ATTCTG	60.1	673	INTERGENIC	--	--	--
Ca4_P1_17715218	Ca4	17715218	GAAAAAAAAA/GAAAAAAAAA	CTGTTCTCACATCAC GCAT	GGAGTCACCTCCAAA TTGA	59.7	143	INTERGENIC	--	--	--
Ca4_P1_17715291	Ca4	17715291	CTT/CT	TCAATTTGGAGGGTGA CTCC	TACCAGCTTTGGTTTC TGCC	59.9	250	INTERGENIC	--	--	--
Ca4_P1_17715354	Ca4	17715354	AATAA/AATAACAATATTCATAA	TCAATTTGGAGGGTGA CTCC	TACCAGCTTTGGTTTC TGCC	59.9	250	INTERGENIC	--	--	--
Ca4_P1_17715629	Ca4	17715629	AT/ATATATT	TCAATTTGGAGGGTGA CTCC	GCGCTGATGCAATACA TACAC	59.9	532	INTERGENIC	--	--	--
Ca4_P1_17717044	Ca4	17717044	TGG/TG	TCTGTCAAAGTCGGTG CAAG	ATAATGGCGCCACAGA AAAG	60.0	821	INTERGENIC	--	--	--
Ca4_P1_17717288	Ca4	17717288	T/TG	GCAACATGTTAACCA GCGA	ATAATGGCGCCACAGA AAAG	59.7	577	INTERGENIC	--	--	--
Ca4_P1_17720367	Ca4	17720367	CTGATCTTGATC/CTGATCTTGATCTT GATC	ACCCTCAGCATGGTCA AAAG	TAGTGGTGGCTCCCT AATG	60.1	480	DRR	Ca_05352	KL	bHLH
Ca4_P1_17721817	Ca4	17721817	AGCCAACTTG/AG	CACAATTTGGCAGGGA TTTT	TAATTTGCGGGTATGC TTCC	59.8	874	DRR	Ca_05352	KL	bHLH
Ca4_P1_17735002	Ca4	17735002	T/TA	TTTTTAAAGGGCCCGA TTG	TGGACGGTCAAAAATA GAAGAAA	59.9	345	INTERGENIC	--	--	--
Ca4_P1_17735379	Ca4	17735379	ATATT/AT	TTTTTAAAGGGCCCGA TTG	TGATTGTCACGTATC AAAATTC	59.9	554	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_17735574	Ca4	17735574	T/TA	TCACGATCGAAAAACC TATTTG	AAACATGACAAAAGTT GATGTTGAA	59.1	916	INTERGENIC	--	--	--
Ca4_P1_17735792	Ca4	17735792	TC/TCC	AAGAATTTTGATGACG TGACAATC	TGGGAGTGCATAATGT TTGA	59.4	787	INTERGENIC	--	--	--
Ca4_P1_17738735	Ca4	17738735	A/AT	GGAGTCATGGAATTTG GTCG	TTGCTGTATCAAGTGG CAAAA	60.3	810	INTERGENIC	--	--	--
Ca4_P1_17740594	Ca4	17740594	GTTTTTTTT/GTTTTTTT	ATATGGCAAGGAACAA CGGA	TACCTTGAATTGGCT GGTC	60.3	664	INTERGENIC	--	--	--
Ca4_P1_17742132	Ca4	17742132	CTTTTT/CTTTTT	CAGCTTCACCGGAGAA AAGA	ATCACGGAATTGATT TGGG	60.5	569	INTERGENIC	--	--	--
Ca4_P1_17742452	Ca4	17742452	A/ATAAT	CCCAAAATCAATTCG TGAT	GTTGACGATCCATCTC AGCA	59.6	391	INTERGENIC	--	--	--
Ca4_P1_17743058	Ca4	17743058	ATGATTGAT/ATGATTGATTGAT	ATGTTACAGGGCTTTG GTGC	TGATGTGGTTGTGGT GTGA	60.0	353	INTERGENIC	--	--	--
Ca4_P1_17748105	Ca4	17748105	GTTT/GTTTT	CCCATTTACGAAGAAT CCGA	CGTACCTTTCGTTGCC ATTT	59.9	287	INTERGENIC	--	--	--
Ca4_P1_17752864	Ca4	17752864	CTACTTACTT/CTACTT	ACGTTGGAGCGCACTA GATT	TCTATTGCATTGTCCG TCCA	59.9	723	INTERGENIC	--	--	--
Ca4_P1_1775612	Ca4	1775612	TT/TTTCAATTTTGCT	GAGAAATGGAGAGGG AAGGG	TCGCTCTGACACCACCA ACAT	60.0	718	DRR	Ca_07800	K	HSF
Ca4_P1_17757375	Ca4	17757375	T/TC	TAAACCAACCCACAC CATT	ACAATGCCTTTTGCC ACTC	59.9	252	DRR	Ca_05349	O	--
Ca4_P1_17758892	Ca4	17758892	GTTTTTTTT/GTTTTTTT	TTTGATGCAACAAGT TCCTG	CGATGAAGGAGTTCTC AGCC	58.8	499	DRR	Ca_05349	O	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_17765512	Ca4	17765512	GAA/GA	TAAACCGTGGTAAAGG CTGG	TCCGATCCCGATGTAC TCTC	60.0	602	INTRON	Ca_05349	O	--
Ca4_P1_17766305	Ca4	17766305	TAAAAAA/TAAAAAAA	ATGCGACCAATGTTTA AGCC	ACAAGTGGAGCACAAT GCAA	60.0	366	DRR	Ca_05348	--	--
Ca4_P1_17766593	Ca4	17766593	TAAAA/TAAA	ATTGCATTGTGCTCCA CTTG	AGGGGTTGGTATAGTA GAAGGAA	59.7	512	DRR	Ca_05348	--	--
Ca4_P1_17766645	Ca4	17766645	CTTTTT/CTTTTTT	ATTGCATTGTGCTCCA CTTG	GGCTCTGTTTGATACA GCCA	59.7	744	DRR	Ca_05348	--	--
Ca4_P1_17766999	Ca4	17766999	TAA/TAAA	TTCCTTCTACTATACCA ACCCCT	AAAGCCACACAGGAT GGAC	57.4	421	DRR	Ca_05348	--	--
Ca4_P1_17768735	Ca4	17768735	ATTT/ATT	ATGATATGCACGGCCT TCTC	TCATCTTTTGAATGG GCTC	60.1	278	INTRON	Ca_05348	--	--
Ca4_P1_17769133	Ca4	17769133	TAAAAA/TAAAAAA	GAGCCCATTCCAAAG ATGA	ACATCCGTCCCATCAA AGAC	60.0	708	INTRON	Ca_05348	--	--
Ca4_P1_17769321	Ca4	17769321	GAACAAACAACAACAACAA/GAAC AAACAACAACAACA	GAGCCCATTCCAAAG ATGA	TTCAGCCTCGACCAGT TTTT	60.0	814	INTRON	Ca_05348	--	--
Ca4_P1_17772365	Ca4	17772365	AAC TT/AAC TTACTT	TCTCATCCCGATTCCA AAAG	CGTAAGTTTCCCGTTC CAAA	60.0	387	INTRON	Ca_05347	R	--
Ca4_P1_17774752	Ca4	17774752	ATTTTTTTTT/ATTTTTTT	ACATTGTGTTTCACTCC GGC	TGCAGCCACGTGTTTA TTTC	60.0	736	DRR	Ca_05347	R	--
Ca4_P1_17775093	Ca4	17775093	A/A C	AAGAGTTGCCAAAGTG GTGC	ACGCGGAGAAATTG C TATT	60.3	519	DRR	Ca_05347	R	--
Ca4_P1_17775890	Ca4	17775890	TAAA/TA	TGCATT CAGCAAAAAG TACCA	GGCACTGCCGTCAAAA GTAT	59.4	525	DRR	Ca_05347	R	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_1777571	Ca4	1777571	TTTATTATTATTATTATTATT/TTTA TTATTATTATTATTATTATTATT	TTTGATTCTCTCTTAG GGG	TGCAGATAAATGGCCA AACA	59.2	863	INTERGENIC	--	--	--
Ca4_P1_1777647	Ca4	1777647	CATCTGAATCTGAA/CATCTGAA	CCTTAGGGGAGATTG CATTG	TGCAGATAAATGGCCA AACA	59.9	852	INTERGENIC	--	--	--
Ca4_P1_17778073	Ca4	17778073	GTTGATTTG/GTTGATTTGATTTG	AAGATTGGTTCTGGT GTGG	ATTACCAGGTTCCCA ATCA	59.8	660	INTERGENIC	--	--	--
Ca4_P1_17778807	Ca4	17778807	TG/T	TGATTGGGAACCTGGT GAAT	CATGCCAAAATCAACA GCAC	60.2	671	INTERGENIC	--	--	--
Ca4_P1_17786377	Ca4	17786377	T/TG	CGCGCCAACTTTACTT CTTC	TTTGGTAACGGTCTTC TGCC	60.0	176	INTERGENIC	--	--	--
Ca4_P1_1780181	Ca4	1780181	GAAAAA/GAAAA	AATTCAAGAAGACTGG GGGAA	TTTTTGCCGGTTGAAC TGAG	59.9	444	INTERGENIC	--	--	--
Ca4_P1_1780772	Ca4	1780772	TTAATTAT/TTAATTATAATTAT	CAGTTCAACGGCAAA AAGT	TGTGGTGGAAAGGAG AAACC	60.1	801	INTERGENIC	--	--	--
Ca4_P1_17819452	Ca4	17819452	T/TTGAGAAGA	ACGAAGAAAACGGCAG AAGA	TGAGGGAGTGCACGA TACAA	60.0	294	INTERGENIC	--	--	--
Ca4_P1_17821019	Ca4	17821019	AAGA/AA	GGAAGTGTCTATTGT TCCCA	AGATGTGGGCATGTGT TTCA	59.8	805	INTERGENIC	--	--	--
Ca4_P1_17822319	Ca4	17822319	TAA/TA	CCAAGTTGGAACGCTA AAGG	AAAAATACCAGCGTGG TTGG	59.7	464	INTERGENIC	--	--	--
Ca4_P1_1782351	Ca4	1782351	TAA/TA	TGTTTTGGATTGGAG CTGT	TAGATCCGGAATGAAG ACCG	60.5	361	INTRON	Ca_07801	T	--
Ca4_P1_17824069	Ca4	17824069	ATTTTTTTTT/ATTTTTTTT	TTGACCAATTCAC TTC GTG	TTGAGGGACCAAAACT GGAG	57.2	630	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_17825598	Ca4	17825598	ACC/ACCC	AATCCATCAAACCTCG TTGC	GGGCCCCGTAAGTATT CAGT	59.9	679	INTERGENIC	--	--	--
Ca4_P1_17825940	Ca4	17825940	CGGGG/CGGG	AAAAGGCCAACCAAT AGCA	CCTCAATTCTCGATT CCCA	59.6	555	INTERGENIC	--	--	--
Ca4_P1_17825981	Ca4	17825981	ATTTTTTTT/ATTTTTTTT	GGGGCCCCATAATCAT ATTT	CCTCAATTCTCGATT CCCA	59.7	164	INTERGENIC	--	--	--
Ca4_P1_17826443	Ca4	17826443	ATTTTT/ATTTTT	TGGGAAATCGAGAATT GAGG	AAACATCCCACGACAA AAGC	60.0	552	INTERGENIC	--	--	--
Ca4_P1_17827610	Ca4	17827610	A/AT	TCAACTTCGGTGCTTG ACAG	TTGGGTACACGAACA ATGA	60.0	141	INTERGENIC	--	--	--
Ca4_P1_17830486	Ca4	17830486	ATTTTTTTT/ATTTTTTTT	TGGCTTGATTCTCAT TCAG	TTGGATGCATAGGCC ATTT	59.9	296	INTERGENIC	--	--	--
Ca4_P1_17831112	Ca4	17831112	TAA/TA	CACTCCAAGCCTCTTA TGGG	GGAAAGATGGACACAC GAAAA	59.7	605	INTERGENIC	--	--	--
Ca4_P1_17842849	Ca4	17842849	CTTTTTTT/CTTTTTT	GGCAAATCATAAAGCA AGCC	TTGTGCCTATGGGAAT CCTT	59.7	858	INTERGENIC	--	--	--
Ca4_P1_17845214	Ca4	17845214	TAAAAAAA/TAAAAAAA	TACCATTACCCGTTCT ACCT	CTGGGTCATTTTGGAA GAAA	60.2	535	DRR	Ca_18621	J	--
Ca4_P1_17846018	Ca4	17846018	AAATA/AA	TTCACCAAATTCATGTC AAAGC	ACAACATGGGTCGGTC TCTC	60.0	737	DRR	Ca_18621	J	--
Ca4_P1_17847500	Ca4	17847500	CTCCTTTTCATC/CTCCTTTTCATCCTT TTCATC	TGAACGATGGTGAAA GACA	GCAGAGCTCTTTGGCA GAGT	60.1	391	INTRON	Ca_18621	J	--
Ca4_P1_17849398	Ca4	17849398	AGGG/AGGGG	AGTGTAAAGTGCCCAAG GTGG	CCGTTTCGTTAAGTGCG AAAT	60.0	156	INTRON	Ca_18621	J	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_1785807	Ca4	1785807	A/AC	AGCTTCCGCTCTGATC ATGT	ACAATCGCGTACAAC TCCC	60.0	423	INTRON	Ca_07801	T	--
Ca4_P1_17862487	Ca4	17862487	CTTT/CTT	TTTTCTTCGGATGGAA ATGC	ACAAAAATGGCAATGC ACAA	60.0	571	INTRON	Ca_18623	--	WOX
Ca4_P1_17862773	Ca4	17862773	AGT/AGTGT	TTTTCTTCGGATGGAA ATGC	ACAAAAATGGCAATGC ACAA	60.0	571	INTRON	Ca_18623	--	WOX
Ca4_P1_1786291	Ca4	1786291	GTTAGTTAGTT/GTTAGTTAGTTGTT ATTAGTTAGTT	AAATCGTGCAACCGC TACC	ATCGTCGTCTCTCAC ATCC	60.0	870	INTRON	Ca_07801	T	--
Ca4_P1_17863620	Ca4	17863620	CTTATTGGAATTATTGGAATTATT/C TTATTGGAATTATT	TTTGATTGTGGCTTTT GCAG	ACGAGCTAAAGGATG GGTTG	59.8	540	DRR	Ca_18623	--	WOX
Ca4_P1_17864334	Ca4	17864334	ATTTTTTT/ATTTTTTTT	GAGGCATGATTGGCAG ATTT	TCGTCAATCCAAATAG CGAC	60.0	536	DRR	Ca_18623	--	WOX
Ca4_P1_17864537	Ca4	17864537	GTTTTTT/GTTTTTTT	GAGGCATGATTGGCAG ATTT	CGGCGACTTTCCATAT GATT	60.0	872	DRR	Ca_18623	--	WOX
Ca4_P1_17865546	Ca4	17865546	TAAAAAA/TAAAAAA	GAGGTGTTTTATTGCC TCGG	TGTTAATCCCAATTCA ATATCCC	59.6	133	INTERGENIC	--	--	--
Ca4_P1_17866250	Ca4	17866250	TAAAAA/TAAAAA	GACTTTTGTATGATGG AGATTGC	AGGTAATCGTAATCGG CACG	58.3	448	INTERGENIC	--	--	--
Ca4_P1_17871181	Ca4	17871181	TAAAAA/TAAAAA	GGGGTATTTGGACGAA TGTG	CGAAAGCGATTGTTTA CGGT	60.1	651	DRR	Ca_18624	TU	WOX
Ca4_P1_17872084	Ca4	17872084	TGA/TGAATGCAGA	TTGTGTTGAGCGAAAA CGTC	AGCCTATGACCACAT TTCG	59.9	738	INTERGENIC	--	--	--
Ca4_P1_1789480	Ca4	1789480	ATT/ATTT	TCAAATCAGGATGAGG GAGG	CTGGTTGCCTTGAGT GAAT	60.0	270	INTRON	Ca_07801	T	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_1791824	Ca4	1791824	GA/G	CGATATTGTCAAATGG CGTG	TTTTGGATTCTCCCT CCTT	60.0	644	INTRON	Ca_07801	T	--
Ca4_P1_1791916	Ca4	1791916	AGTTAGTTTGTTA/AGTTAGTTTGTTA GTTTGTTA	CGATATTGTCAAATGG CGTG	CAATGATCACACCAAG GTCG	60.0	741	INTRON	Ca_07801	T	--
Ca4_P1_1794143	Ca4	1794143	TAA/TAAA	TTGGTAGCAAAGGACC CAAC	CAGCTTCTTCCACTG AGGG	60.0	385	INTRON	Ca_07801	T	--
Ca4_P1_17942733	Ca4	17942733	CTATATATATATATAT/CTATATATATA TATATAT	CATCGTCAGCACATCA CAAA	CTTAGGAGGTCTTGCC CCTC	59.2	447	INTERGENIC	--	--	--
Ca4_P1_1795184	Ca4	1795184	AATAT/AATATAT	GGTTTGAAAGATCCAC CCAA	CAACCCATCATCCCAG TTTC	59.8	317	INTRON	Ca_07801	T	--
Ca4_P1_17954288	Ca4	17954288	CAAAAAAAAA/CAAAAAAAAA	GGCCAAATGAATGGAA GAGA	TCGTAGTCACGCACC GTTA	60.0	823	INTERGENIC	--	--	--
Ca4_P1_18033913	Ca4	18033913	CT/CTT	CTGAGTGACCTCCCTT CCAA	TCATTCCAGAAGGAGA TGGG	60.2	433	INTRON	Ca_18645	--	--
Ca4_P1_18060757	Ca4	18060757	CTTTTTTTTT/CTTTTTTTTTTT	GAAGCGACCACCTGAA GAAC	AACGGGTCAAAACAAA TGATG	59.9	482	INTERGENIC	--	--	--
Ca4_P1_18101227	Ca4	18101227	GTTTTTTTT/GTTTTTTTTTT	TTCTCACCAGACGTTA CCCC	TGGTTTCAGGCTGGG AGTAG	60.0	874	INTERGENIC	--	--	--
Ca4_P1_18110946	Ca4	18110946	ATTTTTTTTT/ATTTTTTTTT	TTCTTTGGAGACTGAG TTGGTTC	GACTCGATGAAAATGA TGGTGA	59.8	377	INTERGENIC	--	--	--
Ca4_P1_18121565	Ca4	18121565	TAAGAAG/TAAG	GCTGCACCATGAGATC TTGA	ATGGTGCTGGAAGTTG CTTT	60.0	440	INTRON	Ca_18652	--	--
Ca4_P1_18178929	Ca4	18178929	GATATATATATATATATATATATATAT TAT/GATATATATATATATATATAT	TGTATGCAGGCTGTAC CCAA	TTCATTATACGTGGCC GTGA	60.1	415	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca4_P1_1818459	Ca4	1818459	CACAGAGAGAGAGAGAGAGAGAGAGAGAGA/CAGAGAGAGAGAGA	CCCTAAACCCAGAAAGCAA	GGTGTCCAACACCAACAG	59.2	590	INTERGENIC	--	--	--
Ca4_P1_1818718	Ca4	1818718	AATATATATATA/AATATATATA	TTGCACTGTTTGGTGAAAGG	CAACCGATCCAACCTCAACA	59.7	218	INTERGENIC	--	--	--
Ca4_P1_18196212	Ca4	18196212	ATTT/ATTTAATCTTTTT	GTGGTCCAGATTCTCCCAAA	TGTCGCTTCAGCAAAAAGAA	59.9	549	INTERGENIC	--	--	--
Ca4_P1_1819824	Ca4	1819824	T/TA	TCTGGACCACTCCTACAGTCC	ATTGCATTTGGAACCCTGAC	59.2	513	INTERGENIC	--	--	--
Ca4_P1_1824490	Ca4	1824490	ATTTTTTTT/ATTTTTTTT	TTGAATTTTCATTGGTCAAAA	CGAGCCAAAACCGTACAAAT	59.3	788	INTERGENIC	--	--	--
Ca4_P1_18247265	Ca4	18247265	A/ATCACTTT	TGGCATGTTGCTTTTGTTGT	CACGCAGAGGATCATGCTTA	60.2	280	INTRON	Ca_18659	S	--
Ca4_P1_1825530	Ca4	1825530	TAAAAAAAAAAAA/TAAAAAAAAA	TCACACCTTGCATCCTTCAA	TGTTGCAATGTTGGTCTTCA	60.2	926	INTERGENIC	--	--	--
Ca4_P1_1828978	Ca4	1828978	AGGGGG/AGGGG	TTGAATGTGAATTGCCGCGT	CATCGTGAGCAAACCAAATG	60.3	914	INTRON	Ca_07803	T	--
Ca4_P1_18295337	Ca4	18295337	A/ATT	TTCCTATTGCTCACCCCTTG	GAAAAACAAGACCCGCATATA	60.1	539	DRR	Ca_18662	--	--
Ca4_P1_1831456	Ca4	1831456	TTA/TTATA	TCCAATAAGGTTGCCTAAGGA	GAGATTAAGCCGGAA GACCC	58.7	256	DRR	Ca_07804	--	--
Ca4_P1_1831550	Ca4	1831550	AGATG/AG	GGGTCTCCGGCTTAATCTC	TCAACCTTTCTCTCCCTTT	60.0	357	DRR	Ca_07804	--	--
Ca4_P1_1836494	Ca4	1836494	TTT/TTTATT	GTGACATGATGCGTTC AAGG	GTTTCAACCGTTTTGC CATT	60.1	572	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_18388650	Ca4	18388650	ATATTA/ATA	AGTTATCGATCACGGA TGCC	CGTGATATTCGCGCA CTCA	59.9	514	INTERGENIC	--	--	--
Ca4_P1_18407838	Ca4	18407838	AATATATATATATATATATATATA/A ATATATATATATATATATATATATA	TAATAGGAACCCACAC CCCA	ATGCTCCGGTGAACAA TCTC	60.0	360	INTERGENIC	--	--	--
Ca4_P1_1840930	Ca4	1840930	CTTTTTTT/CTTTTTT	AGCCAGCAGATGGAAG AGAA	CAAGCGACCTCCAAC TTGT	60.1	150	DRR	Ca_07805	--	--
Ca4_P1_1841092	Ca4	1841092	TTC/T	AGCCAGCAGATGGAAG AGAA	GCCAAAGCATTTGACA TTGA	60.1	638	DRR	Ca_07805	--	--
Ca4_P1_1843195	Ca4	1843195	GAAAAAAAA/GAAAAAAAA	AGGTAAGAGCGGAGG TTGGT	TTCTGAGATGCCACA CTTG	60.1	850	DRR	Ca_07806	R	WRKY
Ca4_P1_18446227	Ca4	18446227	GTTTTTT/GTTTTTT	TCTCACGGTTGTGAGG ACTG	GGTGGAGGTGAAGT AAACAA	59.9	304	INTERGENIC	--	--	--
Ca4_P1_1847483	Ca4	1847483	CACCT/CACTTTACTT	TTCACAATAGCCGATG ACGA	TCAAGAAGATCCGACT TGCC	60.2	796	INTRON	Ca_07806	R	WRKY
Ca4_P1_1848187	Ca4	1848187	TATAATAATAA/TATAATAATAATAA	AGAAGCAAAAGAGCCC TTCC	ATAGGAATATAGCGCG GGGT	60.0	323	INTERGENIC	--	--	--
Ca4_P1_1849410	Ca4	1849410	TAAAAAA/TAAAAAA	CCTCTTTGTTCTCAG CGAT	ATCAACTGAAACGACC TGGC	60.4	879	INTERGENIC	--	--	--
Ca4_P1_1849451	Ca4	1849451	CTTTTTTT/CTTTTTTTTT	GGATTTTCCATGAGAA AGGCTA	ATCAACTGAAACGACC TGGC	59.6	689	INTERGENIC	--	--	--
Ca4_P1_1849594	Ca4	1849594	CT/CTAAT	GGATTTTCCATGAGAA AGGCTA	ATCAACTGAAACGACC TGGC	59.6	689	INTERGENIC	--	--	--
Ca4_P1_18515805	Ca4	18515805	TATAAAATAAATAAATAAATAAAT/ TATAAAATAAATAAATAAATAAATA AAT	TTTTTGAGATTGGTAC GGGA	TCAGCGTTTGTGTT GACTT	58.1	738	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_18518709	Ca4	18518709	ATTTTTTTTTTTTT/ATTTTTTTTTT T	ATGTGACACGTTAGCC ACCA	TGCATTCGGAACCTT CCAT	60.0	569	INTERGENIC	--	--	--
Ca4_P1_18530309	Ca4	18530309	TTAATAATAATAATAAT/TTAATAA TAATAATAATAATAATAAT	TGCGTTGATAATCCAG AGGA	AGGTAACAAGGCAAT GACG	59.2	403	INTERGENIC	--	--	--
Ca4_P1_1855105	Ca4	1855105	TTTAT/TTTATTAT	CACGACCCCTTCGATT GTTT	AAACCAGCTGCCAATT CTGT	60.0	430	INTERGENIC	--	--	--
Ca4_P1_1856395	Ca4	1856395	CACATACTA/CA	CAAACCTTTGACTTCCT TTCTCAA	TCCATATTCGGTAGCC GTTT	59.0	435	INTERGENIC	--	--	--
Ca4_P1_18620373	Ca4	18620373	TAAAAAAAA/TAAAAAAAA	GCATATGCATTGGGTA GAAAA	ATCGGTCACTCCACGC TCTA	59.0	837	INTERGENIC	--	--	--
Ca4_P1_1863645	Ca4	1863645	TGA/T	CCCAATATTGAATGG GCAC	CCCAACATGGAACCCA TTAG	60.0	336	INTRON	Ca_07807	P	MIKC
Ca4_P1_18649901	Ca4	18649901	AATATATATATATATATATATATA TATAT/AATATATATATATATATAT ATATAT	CTCTTTGGTTCTACGG CTGC	TATGGCTTACGAGGGA CTGG	60.0	911	INTERGENIC	--	--	--
Ca4_P1_18674772	Ca4	18674772	ATATATAT/ATATATATCTATATAT	CATGAGGGTTAGGTTT CGCT	ACTTGCATCCACGTAC TCCC	59.2	649	INTERGENIC	--	--	--
Ca4_P1_186963	Ca4	186963	AATATATATATATATATATATATA T/AATATATATATATATATATATAT ATAT	CACGTCAAGTTTGCAA TCAG	TTTTCAAGTGGTAGA GCCG	57.9	156	INTERGENIC	--	--	--
Ca4_P1_18705110	Ca4	18705110	AAT/AATTAT	TTGTGCATTCGACAAC ATCC	ATGCACAATCAAAAAC AGCG	60.5	553	INTERGENIC	--	--	--
Ca4_P1_18746243	Ca4	18746243	T/TG	CTGATGTATGGGGTCC TGCT	TCCTTTCTGCAATCCC ATTCT	60.0	305	INTRON	Ca_13979	M	MYB_related
Ca4_P1_18781017	Ca4	18781017	TAAAAAAAA/TAAAAAAAA	GAGAAACAACGCAGGG AAAC	ATTATTGCCCAATT CAAA	59.7	350	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/P1)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_18821207	Ca4	18821207	CATTATTATTATTATTATTATTATT CATTATTATTATTATTATTATTATT ATT	AAAGTCGCATTCTGGG GATA	ATGTGCCAACTTCGAC AATG	59.5	722	INTERGENIC	--	--	--
Ca4_P1_18853639	Ca4	18853639	CTT/CTTT	TTTGTGTCAAGGCTGC AAAG	CAACACCTCCTGTAGG GGAA	60.0	681	INTRON	Ca_13984	J	Nin-like
Ca4_P1_18860078	Ca4	18860078	TTATATATATATATATATATATAT/TT ATATATATATATATATATATATATAT ATAT	GAGAACTCCGCTCTT GTGG	GAACCCCCGTCCAAC ACTA	60.0	700	INTERGENIC	--	--	--
Ca4_P1_18917609	Ca4	18917609	T/TCCC	ATGGGTTTAGAGCGCT GTTT	TGGCAAAGTTGGTATG ACGA	59.3	502	DRR	Ca_13990	G	--
Ca4_P1_18918605	Ca4	18918605	GTATATATATATATATATATATATAT ATAT/GTATATATATATATATATATATA TATATATATATATAT	TGCTTAAAAATTCGGC AACA	TTCCAATCTTCATCC CAGC	59.3	791	DRR	Ca_13990	G	--
Ca4_P1_18919761	Ca4	18919761	GTTATTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTATTAT T/GTTATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATT	CTCCGACTCATTGAAT TGACA	GCGTGCACCGATTITT ATTT	58.7	545	INTERGENIC	--	--	--
Ca4_P1_18943390	Ca4	18943390	TATAATAATAATAATAATA/TATAATAA TAATAATAATAATA	CGACCATCACATACTG TGCC	TTGAAATATTGGGCTC AGGC	60.0	700	DRR	Ca_13992	--	--
Ca4_P1_18993059	Ca4	18993059	GTTTTTTT/GTTTTTTT	CGTTAAGAATGCGTTG CAGA	TCGCAACTTTTGTTGG TTTTT	60.0	302	INTERGENIC	--	--	--
Ca4_P1_19045820	Ca4	19045820	A/AT	GGGCTTGCTTGGTTTG AATA	TCAACTGCACGTGTTA AATGC	60.1	825	INTERGENIC	--	--	--
Ca4_P1_19046060	Ca4	19046060	CAAAAAA/CAAAAAAA	TGAAAATGAGATTAGA ACCACCAA	TCTTCACCTGCATCGA AATG	59.9	677	INTERGENIC	--	--	--
Ca4_P1_1907150	Ca4	1907150	TATAAAAAATAAAAA/TATAAAAAATAA AAAAATAAAAA	AAAGAGTTTAAAGGCG GGGA	GCGGTCATATTCGAA TGAA	60.1	437	INTERGENIC	--	--	--
Ca4_P1_19081618	Ca4	19081618	CAATAATAATAATAATAATAA/CAA TAATAATAATAATAATAATAA	CGACACTTCAACACAA AATTCA	TGTTGAAAACAACATG TTCCC	58.7	893	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_19090156	Ca4	19090156	CTCATTTCATTTCATTTCATTTC A/CTCATTTCATTTCATTTCATTCA	GTTGCAGCAGATGCAT ATGA	ATTGCAGGGAAGGTGT TTTG	60.0	561	INTRON	Ca_14010	R	C2H2
Ca4_P1_19119005	Ca4	19119005	CAAAAAAAAA/CAAAAAAAAA	GCACGTGGGAAATGA GACT	TAACGCCCAATTTT TGAT	60.1	442	INTERGENIC	--	--	--
Ca4_P1_1913477	Ca4	1913477	T/TATTATTATTATG	AAGCTTTTGGCCGTCA ATTG	CAAGCGTCATTTCACA TCTCA	59.3	708	INTERGENIC	--	--	--
Ca4_P1_19138283	Ca4	19138283	TAAAAA/TATATAAAAAA	AACCCATGTTAATCGT TAAAGC	CCTAATTGGGAGGTA CGCA	57.3	673	INTERGENIC	--	--	--
Ca4_P1_19159916	Ca4	19159916	GTG/GTGTGAGAACTATGATTG	ACGTGTTGAGAGTGC GTTG	CCTTTCAGTATCAGC GAGC	59.9	297	CDS (large-effect mutations)	Ca_14014	L	--
Ca4_P1_19186411	Ca4	19186411	CATAAATTTATTAATAAATTTATTA/C ATAAATTTATTA	GCAATTCACCTTCAT TCGT	GTCAAATACGTTGTT CGCC	59.9	645	DRR	Ca_14018	S	--
Ca4_P1_19198535	Ca4	19198535	CTTTTTTTTT/CTTTTTTTTTTTT	AGAGGCGGGTGAGAA ATTGT	CGTGCTATTCGGCAAT CATA	61.0	707	INTRON	Ca_14019	O	--
Ca4_P1_19228202	Ca4	19228202	TATG/TATGATCGTGATG	GCAATCTGGAAAGATG GGAA	AAATTCGCCCTGTGTT TTTG	60.0	288	CDS (large-effect mutations)	Ca_14021	T	WRKY
Ca4_P1_1928030	Ca4	1928030	AATATATATATATATATATATATATA TA/AATATATATATATATATATATAT ATATATA	CAATTCCTTCATCGAT CCACT	ACAACCCATTCACCCT GGTA	59.0	475	INTERGENIC	--	--	--
Ca4_P1_19294536	Ca4	19294536	TTATATATATATATATATATATATAT/ TTATATATATATATATATATATATAT ATATAT	GCATACTCTGCTCTT CGTCC	GGCTGCCATCACTTCA TCTC	58.8	586	INTERGENIC	--	--	--
Ca4_P1_19331435	Ca4	19331435	GCTTCTTCTTCTTCTTCTTCTTCTTCT TCTTCTTCTTCTTCTTCTTCTTCTTCT CTTCTTCTTCTTCTTCTTCTTCTTCTT CTTCTTCTTCTTCTTCTTCTTCTTCTT	CCAACTCCACACGAGA AGCA	ACGAGCGTAATCCAAA CACC	60.0	680	CDS (large-effect mutations)	Ca_14030	R	MYB_related
Ca4_P1_19342121	Ca4	19342121	TAAAAAAA/TAAAAAAA	TTCCGAAAATTCACAT GCAC	GAATTTGGATTATTCG ATTCTCTGA	59.5	388	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_19369951	Ca4	19369951	CAAAAA/CAAAAAA	CCCATGTTTAAGGGT GTTG	AATTTTTCACGACCT CTTCAA	60.1	561	INTERGENIC	--	--	--
Ca4_P1_19397426	Ca4	19397426	GAAAA/GAAA	GCCAACATATGCTTGA TGGA	TTGAACTTTCTCCGTT TGGG	59.5	667	INTERGENIC	--	--	--
Ca4_P1_19406743	Ca4	19406743	AAAACCAATACACACTACAA/AAAAC CAAAATACACACTACAAACCAATACAC ACTACAA	ACCATCCGTCACAAAA ACAA	CAACTCCACCAAACCA CCTT	58.9	576	INTERGENIC	--	--	--
Ca4_P1_1943645	Ca4	1943645	CATATATATATATATATATATAT/CA TATATATATATATATATATAT	GCACATGGTGGAAC TGCT	TTGGGGAGATGGAAG AAAAA	59.8	662	INTERGENIC	--	--	--
Ca4_P1_19445900	Ca4	19445900	GA/GAA	ACAGATTCGTGGAGGT GGAG	ATGCCAAGCGTTTCAC TTTT	60.1	429	INTERGENIC	--	--	--
Ca4_P1_19468672	Ca4	19468672	TAAAAAAAAAAAA/TAAAAAAAAAAAA	CATGAAATTGAAATAAA ACGCA	TTGCGAAACCAAGAA AAGG	57.8	469	INTERGENIC	--	--	--
Ca4_P1_19565032	Ca4	19565032	GTTTTT/GTTTT	GGTCTTTTACTCCGT GGCA	GGCCAAAAGTCAATTC GCTA	60.1	454	INTERGENIC	--	--	--
Ca4_P1_19642653	Ca4	19642653	TAA/TA	TCAAACTTTTGGTGCC ATTG	GGTAGACCTCCACCT GGAT	59.6	389	INTERGENIC	--	--	--
Ca4_P1_19643688	Ca4	19643688	CTTTTT/CTTTTT	GGTGCAGTTGTTGAT GCAC	ATGCGATTTACATGGT TGGC	60.2	255	INTERGENIC	--	--	--
Ca4_P1_19678061	Ca4	19678061	CAA/CGGCTGGTACAAAA	ATTTTGGCAACGGCTG ATAC	CCACAATCCTCCGTTG TCTT	60.0	492	INTERGENIC	--	--	--
Ca4_P1_19680920	Ca4	19680920	AATATATATATATATATAT/AATATA TATATATATATATAT	TTTGTTCACTTTTATGA TGTGGTG	TTATATAGCCCCAGCC GTTG	59.0	610	DRR	Ca_14054	S	--
Ca4_P1_19708013	Ca4	19708013	TAAAAAAAAAAAA/TAAAAAAAAAAAA	CAATTGCCAGAAGTTG TTGG	GATTGCTGGATTTGGA AGGA	59.2	842	DRR	Ca_14058	J	NF-YB

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_19780699	Ca4	19780699	CTTGTAATTTGTAATTTGT/CTTGTAAT TTGTAATTTGTAATTTGT	AGCAAACCAACAAC ACAA	TTTGTGACCACCACTT CCAA	60.0	484	INTERGENIC	--	--	--
Ca4_P1_19808086	Ca4	19808086	CAAAAAAAAAAAAAAAAA/CAAAAAA AAAAA	CTAGGGGATTGCACTC CAAA	TTGGAATTGGTGGAAC AACA	60.1	561	INTERGENIC	--	--	--
Ca4_P1_19825308	Ca4	19825308	T/TTATTATTATTAA	AATTTTGGGAAAAACC CCAG	TCACGACCAAAATTGT CAAAA	60.0	749	INTERGENIC	--	--	--
Ca4_P1_19883616	Ca4	19883616	ATTTTTTT/ATTTTTTT	CATGTGCAATTTCTTGT GGG	TTTTTGTGTGCAGAGA TGGG	60.0	572	INTERGENIC	--	--	--
Ca4_P1_20051846	Ca4	20051846	GTAT/GTATGTGATTAGTGACTAT	CACGAAGCGTATTGAC TCCA	AAATTTGAAGGCGCTT TTTG	59.9	432	INTERGENIC	--	--	--
Ca4_P1_20097108	Ca4	20097108	GTTTT/GTTT	CAAGGTAAGGCTTTT TCCC	AATCGCTAGCCACTTA GGCA	59.9	591	INTERGENIC	--	--	--
Ca4_P1_2013087	Ca4	2013087	CTATATATATATATATATATATATAT ATATATATAT/CTATATATATATATATA TATATATATATATATATATATATATA T	GCGCAGGACTAGAAAT CTGC	TCATAGAAGCGGGAC CAATC	60.1	441	DRR	Ca_07820	--	B3
Ca4_P1_20155743	Ca4	20155743	TTTATTATTATTATTATTATTATTA TTATTATTATTATT/TTTATTATTATTAT TATTATTATTATTATTATTATTATT ATT	TCGGTTACGGTTGTAA ATTTCG	CATCAGCTTTGCGATC ATGT	59.9	660	INTERGENIC	--	--	--
Ca4_P1_20212880	Ca4	20212880	AATCAT/AAT	TGAAAGAAATTATAAAT GGATTGACAT	TCAGCCAAAAAGCTGA TGTG	58.5	481	INTERGENIC	--	--	--
Ca4_P1_2022623	Ca4	2022623	AAATAATAATAATAATAATAATAAT AATAATAA/AAATAATAATAATAATAAT AATAATAATAATAA	AACGTGTTTGAGTGCG AAAA	TCGAGATGCGATTATG TGGA	59.4	819	INTERGENIC	--	--	--
Ca4_P1_2030157	Ca4	2030157	GAAAAAAAA/GAAAAAAAA	TGAAAGTGCCAGAAAA CCCT	CGAATGTTTATGGTTG GGGT	59.7	354	INTERGENIC	--	--	--
Ca4_P1_2032207	Ca4	2032207	TC/T	TGCTGAGTTCGAGGAA AGGT	CACATCTCTTGTTCGC TCCA	60.0	517	CDS (FRAME SHIFT)	Ca_07822	D	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_2032547	Ca4	2032547	CTGTGTGTGT/CTGTGTGT	TGCTGAGTTCGAGGAA AGGT	CACATCTCTTGTTCGC TCCA	60.0	517	INTRON	Ca_07822	D	--
Ca4_P1_2034424	Ca4	2034424	CTTTT/CTTTT	ACCAGATACCGCACCA AAAG	TTCTGCATACTTGCTC CACG	60.0	352	INTRON	Ca_07822	D	--
Ca4_P1_2034667	Ca4	2034667	GA/GATA	ACCAGATACCGCACCA AAAG	AGTTGGCAAGTTTGTG AGGC	60.0	570	INTRON	Ca_07822	D	--
Ca4_P1_2035282	Ca4	2035282	GTTTTT/GTTTTTT	CGCGCCAGAAGTATGT GATA	TGGGCAGCTTAGACTG GACT	59.9	275	INTRON	Ca_07822	D	--
Ca4_P1_2035697	Ca4	2035697	ATTT/AT	AGTCCAGTCTAAGCTG CCCA	TGGAATCATGCCATGC TAGA	60.0	436	DRR	Ca_07823	R	MYB
Ca4_P1_2035798	Ca4	2035798	A/AGTGT	AGTCCAGTCTAAGCTG CCCA	TGGAATCATGCCATGC TAGA	60.0	436	DRR	Ca_07823	R	MYB
Ca4_P1_20425177	Ca4	20425177	TTTATTATTATTATTATTATTATTA TTATTATTATTATTATTATT/TTTATTAT TATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATT	AATGAAAAACCGTGCA AAGC	ATTGGTGAATGGCAAT TGGT	60.1	529	INTERGENIC	--	--	--
Ca4_P1_20510049	Ca4	20510049	GAAAA/GAAA	TCCTAGGGTCATTGTT TGACG	TGTCGCAGATGAGATC CAAG	60.0	567	INTERGENIC	--	--	--
Ca4_P1_2052943	Ca4	2052943	GATATATATATATATATATATATAT/ GATATATATATATATATATATAT	ACAAAATGGTCAGTGG TGGC	TCAAAATTGTGAGCAT CAAACA	60.8	693	INTERGENIC	--	--	--
Ca4_P1_20650435	Ca4	20650435	TTATATATATATATATATATATAT/TT ATATATATATATATATATATAT	CGTGTGAGAAAACCTC GACA	CACCCTTACAAGTCGC CAIT	59.9	733	INTERGENIC	--	--	--
Ca4_P1_20675480	Ca4	20675480	CATTATAA/CA	TTTCCGGCTAAAGTCC AATG	CGAATTGGATTAGGTG ACCG	60.1	776	INTERGENIC	--	--	--
Ca4_P1_20709240	Ca4	20709240	ATTTTTTT/ATTTTTTTT	ACTTTGCCCATCAGTT TTGC	TCCGTTGGTGAAAGTT TGAA	60.1	251	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_20714850	Ca4	20714850	AAAAATGATTTTT/AAAAATGATTTTT TAACAAATGATTTTT	CATGTGGAAAGTAGG GTGAA	ACAACGTCCTCTGAG GTCT	59.8	930	INTERGENIC	--	--	--
Ca4_P1_20738577	Ca4	20738577	GGCTTATG/GG	CTCCCTCCATGAGGT TACA	ACGCCACAAGGATTAA CAGC	59.9	818	INTERGENIC	--	--	--
Ca4_P1_20773849	Ca4	20773849	CTTATTATTATTAT/CTTATTATTATTAT TAT	TCTCGGCTGAAGGAAC AGAT	AGCGGAACAACGACAA GATT	60.0	524	INTRON	Ca_17170	--	E2F/DP
Ca4_P1_20798644	Ca4	20798644	AAAAAAATA/AA	ACCTCGACTTAGGAGC CTCG	TTTGTCTGGGAAAT GCTC	60.9	593	INTERGENIC	--	--	--
Ca4_P1_20798832	Ca4	20798832	TTTTATTATTATTATTATT/TTTTATTAT TTTATT	TAGTGCTTTTGCATGC CTCA	TTTGTCTGGGAAAT GCTC	60.5	316	INTERGENIC	--	--	--
Ca4_P1_20845396	Ca4	20845396	CAAA/CAA	CCATAAGCATAAGGCG CAAT	TGCCACCCACTTTCAA TGTA	60.1	590	INTERGENIC	--	--	--
Ca4_P1_20870966	Ca4	20870966	ATTTTTTTT/ATTTTTTT	ACTCATTGTGTGGCT TTCG	GTGGATGAAGGGGT AGGTT	58.8	776	DRR	Ca_19043	--	--
Ca4_P1_20884635	Ca4	20884635	T/TATATA	TCGGTTATAGAGATTA AACTCGGG	CAGAAAAAGAAACGG AAAATTCG	59.9	391	INTERGENIC	--	--	--
Ca4_P1_20954508	Ca4	20954508	CTATTATTATTATTATTATCATTAT TATTATCATTAAATATTATTATTATTAT ATTATTATTATGATTATTATTATTATTA TTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTATTAT	TGAGAAAAATGTTCCCT CTGATTC	TCGTTTATGTTAAATTA CACCATGC	59.6	248	INTERGENIC	--	--	--
Ca4_P1_20962865	Ca4	20962865	TTATATATATATATATATATATAT/TT ATATATATATATATATATATAT	AAGAAAGGAGAATGAT AAGATCTCAA	GCCAACTGCTTCAGCT TTTC	59.3	827	INTERGENIC	--	--	--
Ca4_P1_21028273	Ca4	21028273	AATATATATATATATATATAT/AATATA TATATATATATAT	CCACCACTTGGTTCCA ATCT	AGGCCATCTAGCTAAG CACAA	59.8	380	INTERGENIC	--	--	--
Ca4_P1_2103061	Ca4	2103061	A/ATAAT	TGTTTGCAATGTTATG ATGAATG	ACGGCAAAGATGTTTT TACG	59.8	834	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_21047816	Ca4	21047816	TATAATAATAATAATAATAA/TATA ATAATAATAATAATAATAA	CCTACCGGACCGTTT TCTA	GCAGATCAATTTAAC GCATT	60.0	711	INTERGENIC	--	--	--
Ca4_P1_21057684	Ca4	21057684	AATATATATATATA/AATATATATAT ATATATA	TTTAGAGGTCGCTTCA CCGT	CCTTGGGGTAGACAAA GCAA	59.9	475	INTERGENIC	--	--	--
Ca4_P1_21060178	Ca4	21060178	GC/G	GGATGATAACTCCTTC AAAGCG	TGCTCATTTAATTTGA CTGGGA	60.1	711	INTERGENIC	--	--	--
Ca4_P1_21071879	Ca4	21071879	T/TA	AATTGAGTGATCGAGT CGGC	ATGACGCGTGCCAAT TACA	60.2	837	INTERGENIC	--	--	--
Ca4_P1_21072127	Ca4	21072127	AG/A	TCTGTTTGGCAAGAAG AAGAAA	ATGACGCGTGCCAAT TACA	59.1	716	INTERGENIC	--	--	--
Ca4_P1_21076747	Ca4	21076747	CTGATGA/CTGA	GGCTTCAGTTAGGCAA CAGC	GTCCAACAATGTTTTG TGCG	60.0	886	CDS (large-effect mutations)	Ca_19050	O	--
Ca4_P1_21098858	Ca4	21098858	GTTTTTTTTT/GTTTTTTTTT	TGATCTTTTCCCCAC TTCA	AGCCATTTTCTCCCAT TCCT	60.4	445	INTERGENIC	--	--	--
Ca4_P1_21122569	Ca4	21122569	CAAAAA/CAAAA	AGGTTTAAAGTGCAGAG GTGC	CTATAAGCCCCTGACG GACA	59.4	701	INTERGENIC	--	--	--
Ca4_P1_21127401	Ca4	21127401	A/AAGTG	TGTTCAACCGTTTGATC TTCG	GGTCGGTGAAAATGA GGCTA	59.7	510	DRR	Ca_19054	R	MYB
Ca4_P1_21175269	Ca4	21175269	C/CG	GACACCAGGAGGCAT GTTTT	GGAAGGCTTGTCAGCT TGAG	60.0	386	DRR	Ca_19056	--	--
Ca4_P1_21181744	Ca4	21181744	A/ATGG	GAGGGAGATGATCGTG GAAA	GCTTCTTGAAAAAGC GTTG	60.0	294	INTERGENIC	--	--	--
Ca4_P1_2121744	Ca4	2121744	TCCC/TCCCC	TGCCATAAGCAAATCA CCAA	ACTGGAAAACCGTGCA 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/P1)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca4_P1_21226048	Ca4	21226048	AAA/AAAAAGGAACCAA	CACGGCTCTACGAAGG AAAG	TGAACACCCCAAGGT TAAG	60.0	287	INTERGENIC	--	--	--
Ca4_P1_21230858	Ca4	21230858	CATATATATATATATA/CATATATAT ATATATA	GGTCTGCATTTTACAC CGCT	AGTGCCCTCGTCAAAC AAAT	60.1	920	DRR	Ca_19058	--	Trihelix
Ca4_P1_21248655	Ca4	21248655	TAAAAAAAAA/TAAAAAAAAA	CAGGTTTAATTGTGGA GGTGC	TGCATTGCAGTGTGAA ACG	59.5	102	INTERGENIC	--	--	--
Ca4_P1_21253893	Ca4	21253893	T/TA	CACAATTGCGAGATTT TCCA	CCCAACGACCAATGA GTTT	59.7	598	INTERGENIC	--	--	--
Ca4_P1_21257917	Ca4	21257917	CAATAATAATAATAATAA/CAATAA TAATAATAATAATAA	TATCGGCAAAAGATGA GGGA	CCGGAAATTTGCCAC TAAA	60.5	551	INTERGENIC	--	--	--
Ca4_P1_21261688	Ca4	21261688	AATATATATATATATATATATATATA TATATATA/AATATATATATATATATAT ATATATATATATATATATATATATA	GAAAAATTTGCTGAGC TGGTG	TGCGACAGAATCTTAA TGTGC	59.9	485	INTERGENIC	--	--	--
Ca4_P1_21308758	Ca4	21308758	CAAAAAA/CAAAAAA	TTGCTCCTCTGCTCCT CACT	CGTTCAACGTTCTCCA TTTTT	60.0	854	INTERGENIC	--	--	--
Ca4_P1_21376315	Ca4	21376315	CATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTA/CAT TATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTA	CCCCCTCTAAACCAAC GTAA	CATTGGACTTGTGGCT TGTG	58.9	575	INTERGENIC	--	--	--
Ca4_P1_2139392	Ca4	2139392	TCCCCC/TCCCCC	TATCTGGAACGACGAC ATGC	TCGTTCCGCATTAAAG AGGT	59.7	558	INTERGENIC	--	--	--
Ca4_P1_2140233	Ca4	2140233	AATATATATATATATATATAT/AAAT TATATATATATATATATATAT	AACGTATTGGAAATTT GAATGG	TAGTACTCGTACCGGT GCCC	57.9	655	INTERGENIC	--	--	--
Ca4_P1_21404398	Ca4	21404398	ATTTTTTTTT/ATTTTTTTTT	TGCTCACATTCAGT TCTC	CAAGAAAATGACGCGT TTGA	60.0	860	INTERGENIC	--	--	--
Ca4_P1_2141158	Ca4	2141158	T/TATTACCGACACGG	CTATAGTACTGCCCC GCAC	TGCGATTGAGCTGGTA CTTG	59.8	956	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_21426612	Ca4	21426612	ATTTTT/ATTTTT	TGCAGATAAATGGCCA AACA	AGAACGGTTGCCAGA GAAGA	60.1	370	INTERGENIC	--	--	--
Ca4_P1_21514634	Ca4	21514634	ATGT/ATGTGT	TTGGAATCATGAGTTG ATCTCG	AGAAGAACCACGACAA AGGC	60.1	656	INTERGENIC	--	--	--
Ca4_P1_21529168	Ca4	21529168	CAAAA/CAA	TGGGGGATTGTATTC AAAA	TATGGAATGGACCTCC TGCT	60.0	499	INTERGENIC	--	--	--
Ca4_P1_21529241	Ca4	21529241	TATGAATGAA/TATGAA	TGGGGGATTGTATTC AAAA	TATGGAATGGACCTCC TGCT	60.0	499	INTERGENIC	--	--	--
Ca4_P1_21529316	Ca4	21529316	T/TA	TGGGGGATTGTATTC AAAA	TGAAATCGTCACCGTC TCAA	60.0	886	INTERGENIC	--	--	--
Ca4_P1_21581476	Ca4	21581476	TTTATTATTATTATTATTATTATTA TTATTATTATT/TTTATTATTATTATTAT TATTATTATTATTATTATTATTATT	CTGGGATGCCACCATC TACT	TTTGACTAAAATGCCG CACA	60.0	549	INTERGENIC	--	--	--
Ca4_P1_21622022	Ca4	21622022	T/TTGTG	GCCTTGAAATCCAAGC AGAA	TGATATATTGATTGGG TGTGCG	60.3	682	INTERGENIC	--	--	--
Ca4_P1_21622678	Ca4	21622678	ATGTG/ATGTGTG	CGTGTATATACGCACA CCCAA	GTTTTGGCGTTGGTTT CACT	59.4	805	INTERGENIC	--	--	--
Ca4_P1_21651072	Ca4	21651072	TTATATATATATATATATATATATAT AT/TTATATATATATATATATATATAT ATATATATAT	TCCGTCTCAAACGTG ACAG	GTGCACACCGTCGATA CAAT	59.9	584	INTERGENIC	--	--	--
Ca4_P1_21657242	Ca4	21657242	GTGAAAGAAAAT/GT	CGAGAGCTTTGAAGAC TTTGC	CGGAGTTCCAATCTCA CAGA	59.4	211	INTERGENIC	--	--	--
Ca4_P1_21657934	Ca4	21657934	TTATATATATATATATATATATATATA TATATATATATATATATA	AAATGTGAAAGCCACA ACCC	CCATGTAGCATGGCAA CAAC	59.8	570	INTERGENIC	--	--	--
Ca4_P1_21703194	Ca4	21703194	AATATATATATATATATATATAT/AA TATATATATATATATATATATATAT	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/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_21703903	Ca4	21703903	GTTTTTTTTTT/GTTTTTTTTTTT	CGTATACACGTGCACA CACAA	GGACACACAAGCGAA GATGA	59.1	943	INTERGENIC	--	--	--
Ca4_P1_21725823	Ca4	21725823	ATTTTTTT/ATTTTTT	TGACACTCATTGCTCC TCCA	CAACATTTGAATGAGG TGGC	60.4	531	INTERGENIC	--	--	--
Ca4_P1_21726235	Ca4	21726235	TAAAAAAA/TAAAAAAA	CGACATTCATTGTTAC CCCA	TGGAGGAAGAACCGTT ATCAA	59.2	739	INTERGENIC	--	--	--
Ca4_P1_21731178	Ca4	21731178	TAAGAAGAAGAAGAAGAAGAAGA AGAAGAAGAA/TAGAAGAAGAAGAA GAAGAAGAAGAAGAAGAA	TGCTGCACTGTAGAAA ACCG	TGATGGACTTCGTGCT CTTG	60.1	273	INTERGENIC	--	--	--
Ca4_P1_21770743	Ca4	21770743	TTATATATATATATATATAT/TTATATAT ATATATATATATATATATATATAT	TGCATTCTCCTTGGC TTTT	TTGCATTATTTCTTCT GGGG	59.8	536	INTERGENIC	--	--	--
Ca4_P1_21790580	Ca4	21790580	CAAAAAAAAA/CAAAAAAAAAAAAA	GGGGAATTTAGAAAT CGTGC	CACCATCTGCATGTG AATC	59.8	921	INTERGENIC	--	--	--
Ca4_P1_21804779	Ca4	21804779	CTGT/CTGTTATGT	CCGCATCATAACAGC CTTT	CTAAAGCTGGTGCTTT TGGC	60.1	159	INTERGENIC	--	--	--
Ca4_P1_21907907	Ca4	21907907	AATATATAT/AATATAT	TGAGGATCCCTTCAA ATTCA	GAGCAATGGATGTTGG GTCT	59.5	781	INTERGENIC	--	--	--
Ca4_P1_21910161	Ca4	21910161	ATTTTTTTTTTT/ATTTTTTTTTTT	TGCCCGTAGTTGTACC ATGA	CGATGCAAACGTGGAT TATG	60.0	383	INTERGENIC	--	--	--
Ca4_P1_21933188	Ca4	21933188	GAAAAAAAAA/GAAAAAAAAA	GTTGGGCAATGGATCT GAAT	TGCTCACCGTTTGATC TTTG	59.8	862	DRR	Ca_20146	--	--
Ca4_P1_22042786	Ca4	22042786	ATTTTTTTTTTTTT/ATTTTTTTTTTT TTT	GCAGCTCTCCGCTTA AAGA	GTTTCGGTTCTGTGTA CGTT	59.9	508	INTERGENIC	--	--	--
Ca4_P1_22097668	Ca4	22097668	ATTTTTTTTTTT/ATTTTTTTTTTT	TGAAGCACCTTTGATG AGGA	GACGTGATAACATGAA GGATGC	59.4	850	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_22134995	Ca4	22134995	CATAT/CAT	GCACCTATGGTGGCAA AAAC	TTTGATGCCACATTG AAGA	60.4	506	DRR	Ca_20134	J	--
Ca4_P1_22135412	Ca4	22135412	ATTT/ATTTTTT	TCTTCAATGTGGGCAT CAAA	CCTCTGTTCAGGTAT CCACA	60.0	596	DRR	Ca_20134	J	--
Ca4_P1_22187580	Ca4	22187580	GCC/GCCTGTGTCC	GTCTCCCTTGTGAGC TGAG	GGTGATGGTAGTACG GTGGC	60.0	179	INTERGENIC	--	--	--
Ca4_P1_22309344	Ca4	22309344	ATTTTTTTTT/ATTTTTTTTTT	TGCTTTGTTCATTGCT TGC	AGTGCCAAAGTAAGTT GCTGA	60.0	566	INTERGENIC	--	--	--
Ca4_P1_22323554	Ca4	22323554	ATTTTTTTTT/ATTTTTTT	ATGGAATTGGTGTCCG AGAG	GAGGTGATTTCGAACC AAAAA	59.9	363	INTERGENIC	--	--	--
Ca4_P1_22324512	Ca4	22324512	TAAAAAAAAAAAA/TAAAAAAAAAAAA	CGCTGATTCATCTTT CGT	TTGAACTCCTTTCTGG GTGG	60.2	937	INTERGENIC	--	--	--
Ca4_P1_22381273	Ca4	22381273	AATATATATATATATA/AATATATAT ATATATATATA	CAGTGGCGAAATCTGC ATTA	TGGACGTAGTTGTTG TGGA	59.8	702	INTERGENIC	--	--	--
Ca4_P1_22441886	Ca4	22441886	CTA/CTATA	TCCAATGGTGGAAT AAACG	TCAATCACAAATTTCAA GGAGG	59.7	848	INTERGENIC	--	--	--
Ca4_P1_22476710	Ca4	22476710	CTTC/CTTCATTC	CCGGTGTCAAATGATA GGGT	AAGGAGACCAATGGG TTTGA	59.7	123	INTERGENIC	--	--	--
Ca4_P1_22499567	Ca4	22499567	AACACGACGCTAAAATACCC	ATGCAATGCGTATATG CCAA	TACATGGTGACCGCGA TAGA	59.9	352	INTERGENIC	--	--	--
Ca4_P1_22508434	Ca4	22508434	CATATATATATATATATATATATAT/ CATATATATATATATATATATATA TATATATATATAT	TGGAAGGAAACAATC GAGG	GCATTGCAATAATCCA TCCA	60.0	647	INTERGENIC	--	--	--
Ca4_P1_22535036	Ca4	22535036	ATTTT/ATTTTT	TTTGAGTGTGCGATCC CATA	TCACGGCTTCATGGAT GTTA	60.1	722	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca4_P1_22546535	Ca4	22546535	AATATATATATA/AATATATATAT ATA	CATTTTGGTTCAAAG CCGT	CCAGGGGATGAGATC ATAGG	60.0	714	INTERGENIC	--	--	--
Ca4_P1_22601747	Ca4	22601747	TAAAAAAAA/TAAAAAAAAA	GTCGCGCTTCCATT ATTT	GATTTTCCCTTGTC CAATCA	60.1	229	INTERGENIC	--	--	--
Ca4_P1_22601909	Ca4	22601909	TG/T	TCGCGCTTCCATT TTTC	CGATTTATGAATTGC AAATGT	61.1	626	INTERGENIC	--	--	--
Ca4_P1_22656603	Ca4	22656603	GAAGATTCATTAAAGATT/GAAGATT T	TTCTGGCTTCAAAG AAAA	ACCTGACAACCCAAA TTGA	59.8	967	INTERGENIC	--	--	--
Ca4_P1_22656873	Ca4	22656873	TA/TAGAAAAGCAGA	GACACTCAAGGCTGA GTAGAAAA	ACCTGACAACCCAAA TTGA	59.1	246	INTERGENIC	--	--	--
Ca4_P1_22663018	Ca4	22663018	ATTTTTTT/ATTTTTTTT	ACCCCTCTTCTCGT TTTT	AGGCTCAGGCAACT GGGAT	60.0	536	INTERGENIC	--	--	--
Ca4_P1_22664879	Ca4	22664879	AA/AAGA	TCGCGTTCGATTGTT CATA	GGTCATTCTTATTGAT TGACCCA	60.2	570	INTERGENIC	--	--	--
Ca4_P1_22674188	Ca4	22674188	CAAAAAAAAA/CAAAAAAAAA	AATGCATGTTGCACCA CAGT	GCTGAAAAGGAAGG AAAGG	60.0	292	INTERGENIC	--	--	--
Ca4_P1_22675724	Ca4	22675724	TTT/TTTCTT	CACAGAAAAGTGAAC GCGA	ATGGCAATTAGGGTGT GCTC	60.0	325	INTERGENIC	--	--	--
Ca4_P1_22685908	Ca4	22685908	AC/ACC	AAGCTTGATTGTTGTT CCGA	CTCAAGGACCAAGAC CAAA	59.7	195	INTERGENIC	--	--	--
Ca4_P1_22695676	Ca4	22695676	GATCGTTCATCGTTCATCGTTCATCG TTC/GATCGTTCATCGTTCATCGTTC	ATCAAGCATTTCCTCC AACG	AAGAATGAATCGGG CAAG	60.1	411	INTERGENIC	--	--	--
Ca4_P1_22702418	Ca4	22702418	AAGTTATA/AA	GTCATTGAAACGTGG GCTT	CATGTTGGAGGGGCT AAAAA	60.0	717	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_22702676	Ca4	22702676	T/TAA	GGCTTAAGAGAGGGG GTTCA	TGCATTACGTCAAAG AAGC	60.6	728	INTERGENIC	--	--	--
Ca4_P1_22702886	Ca4	22702886	AAATTGAATA/AA	CTGGGGCCAATTTAGA GGAT	TGCATTACGTCAAAG AAGC	60.3	410	INTERGENIC	--	--	--
Ca4_P1_22703169	Ca4	22703169	ATTTTT/ATTTTTTT	GTGCAAAAGGAGCA ACAA	GCCTCCAATCCATGTC TGAT	59.9	322	INTERGENIC	--	--	--
Ca4_P1_22706706	Ca4	22706706	TCC/TC	CCAACAAATTGGGTGG AAAA	TGCTGCAACCAATAA ATGA	60.6	776	INTERGENIC	--	--	--
Ca4_P1_22716804	Ca4	22716804	TC/T	ACGAACCCCTCTGTG CTAA	TGCGATACGAATTTGG TGAA	59.7	677	INTERGENIC	--	--	--
Ca4_P1_22719475	Ca4	22719475	A/AT	ACACGTCAATTTGTTT GCA	TGTTGCAATAGAAGGT CGCA	60.0	390	INTERGENIC	--	--	--
Ca4_P1_22719677	Ca4	22719677	TATAAA/TAA	TTTTGGCACGTCTTCT CAACT	CATCGACGATTGTACC AAAAA	59.9	548	INTERGENIC	--	--	--
Ca4_P1_22723833	Ca4	22723833	TGGGGG/TGGGGGG	TCTAACCCGGCAACA TCAA	AGGCCACGAAAGTGAA GAGA	60.1	527	DRR	Ca_14476	--	--
Ca4_P1_22727877	Ca4	22727877	TAAA/TAA	TTGGTTCCTTTATTAAC TAATTTTGG	GGGACAAACGTTTTTG CTATG	59.3	809	INTERGENIC	--	--	--
Ca4_P1_22727990	Ca4	22727990	TAAAAA/TAAAAA	AACCTATTTATCCAAC AACAAATGTC	GGGACAAACGTTTTTG CTATG	57.4	257	INTERGENIC	--	--	--
Ca4_P1_22735575	Ca4	22735575	AAAA/AAAAATAA	TTGAAGTTGTGCATCC CCTC	CATATTCAACGCAACA ACGC	60.1	553	DRR	Ca_14475	T	FAR1
Ca4_P1_22744609	Ca4	22744609	ACCC/ACC	GCCATCTCGAGTCAAC AACA	CATTGGTGGCTAGCAT GAGA	59.8	343	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_22746108	Ca4	22746108	ACC/ACCC	GGAAGAAGCATGTGG GTTGT	TTGGCCTTGAGACCAG CTAT	60.0	721	INTERGENIC	--	--	--
Ca4_P1_22750911	Ca4	22750911	CTAATTAAT/CTAAT	CAAGTGCTCATTGCA AATTCA	CCGAGGCCTCTTATTC TCAA	58.8	955	INTERGENIC	--	--	--
Ca4_P1_22755158	Ca4	22755158	ATTTTTTT/ATTTTTTTT	CTATGTGCGTCGTCAG GAAA	CCAAAAACGGTTTCAC CAGT	59.9	595	INTERGENIC	--	--	--
Ca4_P1_22755286	Ca4	22755286	CT/CTTT	CTATGTGCGTCGTCAG GAAA	CCAAAAACGGTTTCAC CAGT	59.9	595	INTERGENIC	--	--	--
Ca4_P1_22764594	Ca4	22764594	TAGA/TA	TCGATTGGATTGGAC TTTC	ATGTGGCCTTAGGAG GAGGT	60.0	670	INTERGENIC	--	--	--
Ca4_P1_22765355	Ca4	22765355	TAAAA/TAA	TGTTTCGTAATCAATG CCCA	TAGGCCCAACCAAT CAAG	59.9	603	INTERGENIC	--	--	--
Ca4_P1_22765396	Ca4	22765396	GTTTTTTTTTTTTTT/GTTTTTTTTTT T	TGTTTCGTAATCAATG CCCA	TAGGCCCAACCAAT CAAG	59.9	603	INTERGENIC	--	--	--
Ca4_P1_22765623	Ca4	22765623	CTT/CTTT	TGGGGACCTTCCCAAT ATAC	TATGGCCGATGCTACA ACAA	58.6	219	INTERGENIC	--	--	--
Ca4_P1_22765942	Ca4	22765942	AGACG/AGACGACG	TAATTACTTTCCGCGG ATGC	GGTGTAGCCTTTGCTT GGAG	60.1	424	INTERGENIC	--	--	--
Ca4_P1_22766072	Ca4	22766072	AATATA/AATATATATA	TAATTACTTTCCGCGG ATGC	GGTGTAGCCTTTGCTT GGAG	60.1	424	INTERGENIC	--	--	--
Ca4_P1_22766863	Ca4	22766863	T/TGG	GCATAATCAAAAGCAT TGGC	ATCGATTCTCAGTTGG ACCG	58.3	756	INTERGENIC	--	--	--
Ca4_P1_22767329	Ca4	22767329	AACAC/AAC	CCAACTGAGAATCGAT GGGT	TCTCCTTTTCAAATTC TCCAA	59.9	274	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_22780826	Ca4	22780826	TA/T	TCTATTTTGTATGATG TGCGTT	TCCACACGTTTTTGA TATTG	58.7	495	INTERGENIC	--	--	--
Ca4_P1_22783764	Ca4	22783764	ATTTT/ATTTT	CCTACAGAACAGATA AAAACGG	ACTTTGATCCCCTTGC ACAT	57.1	907	INTERGENIC	--	--	--
Ca4_P1_22790242	Ca4	22790242	TC/T	AGATAATCCCCCTGAC ACCC	AAAGGGGCAACACTT GCTA	60.0	396	INTERGENIC	--	--	--
Ca4_P1_22792612	Ca4	22792612	ATTT/ATT	CCTTGAGTGAGTTTGA CAGGAA	AAACCATAAGCCCCA AACC	59.4	577	DRR	Ca_14472	--	--
Ca4_P1_22793993	Ca4	22793993	ATTT/ATT	CGAGTGGCAGAATTC AAAA	GAATTATGCCGCAAGT ACGA	59.0	318	DRR	Ca_14472	--	--
Ca4_P1_22799504	Ca4	22799504	AAATAA/AAA	CCAACACACCAAGACA GTGG	TCACACACAAATCACA CCGA	60.0	213	INTERGENIC	--	--	--
Ca4_P1_22799819	Ca4	22799819	TAAAAAA/TAAAAAA	CCAACACACCAAGACA GTGG	TTCGATCAATCGGTCA CAAA	60.0	807	INTERGENIC	--	--	--
Ca4_P1_22799910	Ca4	22799910	AAAA/AAAAATTAAA	TCGGTGTGATTGTGT GTGA	GTGCAATCATGCAATC AAGG	59.5	672	INTERGENIC	--	--	--
Ca4_P1_22803782	Ca4	22803782	TA/T	CCAAGTTCCTCAAAAG CAGG	ATCCTGCCGTCATATG CTTC	59.8	682	INTRON	Ca_14471	Q	Nin-like
Ca4_P1_22809155	Ca4	22809155	AAAA/AAAAATAATAA	GCCGTAAATTTCACT GGGA	TTGAGACAGTTGCTT CCCT	59.9	651	DRR	Ca_14471	Q	Nin-like
Ca4_P1_22818473	Ca4	22818473	GTATATATAT/ATATATATATAT	CAATTGCATGTTGAAA TGGTG	TGGCCATATTGTTTT GCAT	59.8	821	INTERGENIC	--	--	--
Ca4_P1_22819150	Ca4	22819150	TAAAAA/TAAAAA	TGGCCAACTTCAAATA ATCG	TCTAATAAAATGGCG GTCCA	58.6	374	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_22822736	Ca4	22822736	CTTTTTT/CTTTTTT	CGAAAGTTTCACATTC ATCCAA	TTACCAAGTGTGGAT TGGG	60.0	765	INTERGENIC	--	--	--
Ca4_P1_22824281	Ca4	22824281	AAA/AAAGTAA	ACATGCACCAGAGTTA ATGTTTT	GCTTCAACACCGGGAA TAGA	57.8	167	INTERGENIC	--	--	--
Ca4_P1_22824306	Ca4	22824306	TCCC/TCC	ACATGCACCAGAGTTA ATGTTTT	TGGGATTATTTTGATT GGACG	57.8	284	INTERGENIC	--	--	--
Ca4_P1_22824416	Ca4	22824416	CCGT/CCGTACGT	TCTATTCCTGGTGTG AAGC	TGCACTCTAATGGGAT TATTTTGA	60.1	147	INTERGENIC	--	--	--
Ca4_P1_22824456	Ca4	22824456	TA/T	TCTATTCCTGGTGTG AAGC	TTGACAACACAAATGT TTTAGAGGA	60.1	333	INTERGENIC	--	--	--
Ca4_P1_22825034	Ca4	22825034	TAAAAA/TTAAAAA	TCCTCTAAACATTTGT GTTGTCA	TCACTCTTACTATG GAAGCCAA	58.7	609	INTERGENIC	--	--	--
Ca4_P1_22837128	Ca4	22837128	ATTTT/ATT	TGTGTCGGGAAGTATG GTGA	TCACCATGGCAAGTTG AAAA	60.0	521	INTRON	Ca_14468	--	--
Ca4_P1_22837601	Ca4	22837601	CAAAAA/CAAAA	TTGAAATGGCAAAGAG GGTC	ATGCATGGGTTGAAAT ACCC	60.1	556	DRR	Ca_14468	--	--
Ca4_P1_22837669	Ca4	22837669	TAA/TAAAAA	TTGAAATGGCAAAGAG GGTC	ATGCATGGGTTGAAAT ACCC	60.1	556	DRR	Ca_14468	--	--
Ca4_P1_22837725	Ca4	22837725	AAATAATAA/AAATAA	TTGAAATGGCAAAGAG GGTC	ATGCATGGGTTGAAAT ACCC	60.1	556	DRR	Ca_14468	--	--
Ca4_P1_22848996	Ca4	22848996	TAAAAAA/TAAAAAA	TTCATTATCTGTTCCCT CCCA	ACGACTGGCTAAGGT GCTGT	59.4	546	INTERGENIC	--	--	--
Ca4_P1_22849031	Ca4	22849031	TAAAAAA/TAAAAAA	TTCATTATCTGTTCCCT CCCA	ACGACTGGCTAAGGT GCTGT	59.4	546	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_22854055	Ca4	22854055	GT/G	TCAAAACACATTGGAG GCAC	AAATGGCACAAGGCA AACT	59.5	858	INTERGENIC	--	--	--
Ca4_P1_22855998	Ca4	22855998	TATCCGAT/TAT	CCTGTCAACTCCAAGA ATCTCC	AAAGCCATATTTTAAAC CCAAAA	60.1	666	INTERGENIC	--	--	--
Ca4_P1_22856677	Ca4	22856677	TAAAAA/TAAAAAA	TTTTTGGGTAAAATAT GGCTTT	AAAAATGGAATTACGT CCAATGA	58.2	415	INTERGENIC	--	--	--
Ca4_P1_22864646	Ca4	22864646	TAGAGAGA/TAGAGA	TGAGACTGCAATTTGG CTTG	ACGACGATGTTCAATC CACA	60.0	914	DRR	Ca_14466	S	--
Ca4_P1_22867454	Ca4	22867454	GAAAAAAAA/GAAAAAAAA	GATCTTCATCCCCTGC AGAC	CACCACCACCACAAA CACT	59.6	292	INTERGENIC	--	--	--
Ca4_P1_22869602	Ca4	22869602	TAAAAAAAA/TAAAAAAAA	TTGCCGTGAAATAATC CTCA	TTGTGTAGGACACAC CCGA	59.1	294	INTERGENIC	--	--	--
Ca4_P1_22884702	Ca4	22884702	CAAAA/CAAA	TTTGGTACCCAATTTT CCA	GGTGAAAGCGTTTGAT GGAT	60.0	564	INTERGENIC	--	--	--
Ca4_P1_22889620	Ca4	22889620	TATAAAATAAAATAAA/TATAAA TAAAAATAAAATAAA	GGGTCAGGATACTTAC AACCCA	TCCACCCCAATTTT ATCA	60.1	717	INTERGENIC	--	--	--
Ca4_P1_22891439	Ca4	22891439	GAAAAA/GAAAAA	AGTAAATGCAAGTTGC GCCT	AAGTTGCTTGAGGTT TGCT	59.9	756	INTERGENIC	--	--	--
Ca4_P1_22896917	Ca4	22896917	GTTTTTTTTT/GTTTTTTTTT	CGATGCGCATGATAGA AAGA	AACGGAACCCCACTTA AAGG	59.9	590	INTERGENIC	--	--	--
Ca4_P1_22897920	Ca4	22897920	ATTTTTTTTT/ATTTTTTTTT	GTTTGGCTTGATGATC CCAT	TGCTTGTTGCTGAAA CCTG	59.9	463	INTERGENIC	--	--	--
Ca4_P1_22898673	Ca4	22898673	CAAAA/CAA	AACCCCACTTAAAGGG CAAC	AGGGTGAAGAAGCTC ACACAA	60.2	684	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_22901962	Ca4	22901962	CAAAA/CAAA	AGGGACTCAGTTTCT GCGA	CAGACAAGCCTCTCGA TTCC	60.0	593	INTERGENIC	--	--	--
Ca4_P1_22910353	Ca4	22910353	ATTT/ATT	TCGGCGAAGATTGAG AACT	TTTTTGGGCTCCTATG CAAT	60.0	691	DRR	Ca_14463	R	NAC
Ca4_P1_22911497	Ca4	22911497	AC/A	TTTGTGCAATTTGTTT CTTCG	GAAGACTCTCCACCGT CAGG	60.1	441	DRR	Ca_14462	J	--
Ca4_P1_22914105	Ca4	22914105	GTTTTTTT/GTTTTTTTTT	AAAACCCCTTTGCTTC CGTT	TCCTACCAAAACCTC ATTCAAA	60.0	458	INTERGENIC	--	--	--
Ca4_P1_22914458	Ca4	22914458	CTTT/CT	ATTGCGCTTGCATCAT CTTT	CCAAAGTTTCAACTTC GAGACA	60.8	671	INTERGENIC	--	--	--
Ca4_P1_22920774	Ca4	22920774	ACAA/ACAATGTTTCGGAAC TCA	CCGCAACTCAACCCAG TTAT	CACGTGAAGTTTCGACA AGGA	60.0	509	INTERGENIC	--	--	--
Ca4_P1_22921547	Ca4	22921547	TAA/TAAAAATAAATAAAAA	TCGTCCGAACACAATC ACAT	TGATCTCGTGCTTCTA CGTGTT	60.0	311	INTERGENIC	--	--	--
Ca4_P1_22922451	Ca4	22922451	GA/GAA	CACCGTCCGAATACCA AAAC	AGTCATTTGCATGTGG GACA	60.2	391	INTERGENIC	--	--	--
Ca4_P1_22933272	Ca4	22933272	CAAAATAAAAAATAAAAT/CAAATAAA AAAT	CTATAGTGACCGCACT CCGC	TTCCAAATTCAGGAA TCGC	60.8	774	INTRON	Ca_14461	--	--
Ca4_P1_22933918	Ca4	22933918	CTGAACAATT/CTGAACAATTGCGGTG AACAATT	AGAAACCCAAAAGGGG AAGA	TTTGAACCCAAGCTTC AACC	59.9	750	INTRON	Ca_14461	--	--
Ca4_P1_22938166	Ca4	22938166	ATTGTTG/ATTG	GATCTTTTTGGGCCAG TCAA	CCAAGATGGTTCTTGC CATT	60.1	343	INTRON	Ca_14461	--	--
Ca4_P1_22954544	Ca4	22954544	TG/TGG	GGTCCTATCCAGCTTC TCCC	CAAACCTTTGTGGCC AATT	60.0	532	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_22955278	Ca4	22955278	GAAAAAAAA/GAAAAAAAAA	CAGCCATTGCACCAAT AAAA	TTTCGCTGAAGCTTG GACT	59.6	772	INTERGENIC	--	--	--
Ca4_P1_22965696	Ca4	22965696	TAAAAAAAAA/TAAAAAAAAA	CGGCTTTGTCACATT GTTG	AATTCAAACCCCACTT CCTT	60.1	369	INTERGENIC	--	--	--
Ca4_P1_22970347	Ca4	22970347	CCTT/C	CAGCCTTCATGTTTT GACG	CAACTGAAGCCTTCTT TGCC	59.3	787	INTRON	Ca_14460	--	--
Ca4_P1_22973152	Ca4	22973152	TTAAATGTAAATGT/TTAAATGT AAATGTAAATGT	ATTTTATTGGCATCGG CATT	TGCGAATGTGCTTTCT GTCT	59.3	672	DRR	Ca_14460	--	--
Ca4_P1_22973209	Ca4	22973209	TAAAAAAAAA/TAAAAAAAAA	ATTTTATTGGCATCGG CATT	TGCGAATGTGCTTTCT GTCT	59.3	672	DRR	Ca_14460	--	--
Ca4_P1_22974231	Ca4	22974231	ATTTTTTT/ATTTTTTT	TGATTGTATATCGGG GTCG	ATTGTCAAAGGATT CGCC	60.5	537	DRR	Ca_14460	--	--
Ca4_P1_22974338	Ca4	22974338	A/AAT	ATTTTGGGCGAAATCC TTTT	GAACCACTCATCCTCC CAAA	59.8	442	DRR	Ca_14460	--	--
Ca4_P1_22978212	Ca4	22978212	TATGAT/TAT	GAGCAAATGAGGCACA ATGA	TCAAGGGGCTTGAG GTAGA	59.8	510	INTERGENIC	--	--	--
Ca4_P1_22980114	Ca4	22980114	CAAAAAA/CAAAAAA	TCGCACAAGGCTACAA TCAG	CTCGAAAAATCGAAGG GACA	60.0	749	INTERGENIC	--	--	--
Ca4_P1_22980181	Ca4	22980181	TAATAATAATAAT/TAATAATA ATAATAAT	TCGCACAAGGCTACAA TCAG	CTCGAAAAATCGAAGG GACA	60.0	749	INTERGENIC	--	--	--
Ca4_P1_22980878	Ca4	22980878	CTTTTTTT/CTTTTTTTT	CGACGAAACGCCTTAA AAAG	AAACGACGAAATCGC AAAT	59.9	332	INTERGENIC	--	--	--
Ca4_P1_22981123	Ca4	22981123	ATTTTTTT/ATTTTTTTTTT	CGACGAAACGCCTTAA AAAG	TTTGTGTCATGTTGCG AGGT	59.9	797	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_22981258	Ca4	22981258	TAGATTAA/TA	TCCGCCGTTCTAAATT CTTG	CAAGCCCTCTCCCTCT CTTC	60.2	874	INTERGENIC	--	--	--
Ca4_P1_22981343	Ca4	22981343	ATTTTTTTT/ATTTTTTT	TCCGCCGTTCTAAATT CTTG	CAAGCCCTCTCCCTCT CTTC	60.2	874	INTERGENIC	--	--	--
Ca4_P1_22982428	Ca4	22982428	AGGGGG/AGGGG	GAGCTGACAAACGACC ATGA	AAAGAACGTCGGAAC CGTG	59.8	576	INTERGENIC	--	--	--
Ca4_P1_22984796	Ca4	22984796	GTTTA/GTTTAAACTTTA	CAAATTCCTTTAGTG CCACA	TGCTTATGTGTTCCAT TTGCTC	60.0	802	INTERGENIC	--	--	--
Ca4_P1_22985522	Ca4	22985522	CAAAATCAAAATCAAA/CAAAATCAAAAT CAAAATCAAA	GTCATGAAATGGAAG GCAT	CTTAGATGGGCCACCG AATA	59.8	729	INTERGENIC	--	--	--
Ca4_P1_23002548	Ca4	23002548	ATTATTTTATTTTATTTTATT/ATTATTT TATTTTATTTTATTTTATT	TCGATCGCTGATGTCA AACT	TGGGCTTGACCTATGT GTGT	59.4	147	INTERGENIC	--	--	--
Ca4_P1_23002623	Ca4	23002623	TTTACTATTACTATT/TTTACTATTACT ATTACTATT	TTTATGGCGGCTGTT TTAC	ACGATGCATTTGATTG ATGTT	60.0	546	INTERGENIC	--	--	--
Ca4_P1_23012710	Ca4	23012710	AGGG/AGG	ATAACTCACACACACC CGCA	TCTTGTGTTGGCGTT GTTT	60.0	359	INTERGENIC	--	--	--
Ca4_P1_23018299	Ca4	23018299	AATG/A	ATTTCGGTTTGTCTT CGAG	TTTTAAAAAGATTACA TGCACTAA	59.2	549	INTERGENIC	--	--	--
Ca4_P1_23018550	Ca4	23018550	GAAAAAA/GAAAAAA	TCAGAGAGAATGCAG ACATTT	GGCCTGACGACACAG CTAAT	59.9	774	INTERGENIC	--	--	--
Ca4_P1_23018576	Ca4	23018576	A/AT	TCAGAGAGAATGCAG ACATTT	AGTTGGGAGCACTTC ATCT	59.9	812	INTERGENIC	--	--	--
Ca4_P1_23018840	Ca4	23018840	AA/AATTA	CAAAATAAATCAAATGA TTGAAGTGA	GGCCTGACGACACAG CTAAT	58.6	651	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_23019320	Ca4	23019320	CTTTTTTTT/CTTTTTTT	AGATGAAGTGCTGCC AACT	TTTGAATTTCCGTCC AAAA	59.9	461	INTERGENIC	--	--	--
Ca4_P1_23020256	Ca4	23020256	TTAT/TT	TCATGACCAAGAAACA ACGG	TCACATATCAAATGTT GGCACA	59.5	354	INTERGENIC	--	--	--
Ca4_P1_23020397	Ca4	23020397	TAGTAATAACA/TA	TCATGACCAAGAAACA ACGG	TCGAAGGACAAAGGG AAGTG	59.5	946	INTERGENIC	--	--	--
Ca4_P1_23020630	Ca4	23020630	CAAAAAAAAA/CAAAAAAAAA	CGCATCAGCAATTATG CGT	TCGAAGGACAAAGGG AAGTG	60.8	650	INTERGENIC	--	--	--
Ca4_P1_23027444	Ca4	23027444	T/TC	CCATTGGGAATTAGGC ATTG	AAGGTTGTGGATCGAT TCGT	60.1	868	INTERGENIC	--	--	--
Ca4_P1_23027613	Ca4	23027613	AGG/AGGG	GATGTTGGGAAGGGT GGTTA	AAGGTTGTGGATCGAT TCGT	59.6	622	INTERGENIC	--	--	--
Ca4_P1_23027836	Ca4	23027836	CAAAAAA/CAAAAAA	TGCGTCTTTGTTGATT CTCC	TGCCAATCACTATTCT CCCA	58.9	666	INTERGENIC	--	--	--
Ca4_P1_23030943	Ca4	23030943	CTTTTTTTT/CTTTTTTTTTT	TGGACGTGAGTGTTTC ACAT	AACATGTGTGAAACAT TAAATATCTGT	60.0	652	INTERGENIC	--	--	--
Ca4_P1_23034487	Ca4	23034487	CAAAAAA/CAAAAAA	TGGGAATGACAACCTG GACA	GGTTGCCAACAGTAG CCAT	59.9	758	INTERGENIC	--	--	--
Ca4_P1_23049719	Ca4	23049719	AAATAA/AAATAATAA	CCTCCCGATCGTTCAA AATA	CCTCATCAAGGGTTGC CTTA	59.9	564	INTERGENIC	--	--	--
Ca4_P1_23050771	Ca4	23050771	A/AAAT	TTTACCACGAACCACA ACCA	TTAGCTCTGCCGTACG AGGT	59.9	430	INTERGENIC	--	--	--
Ca4_P1_23050902	Ca4	23050902	TAAAAAAAA/TAAAAAAAA	ACCTCGTACGGCAGAG CTAA	TGGATTTCGGTGTCT CCTC	60.0	159	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_23055017	Ca4	23055017	T/TG	GTGTGCTTGGAAAGTC GTTG	TTTGATGTTGTTGGAG ATGAAAA	59.3	485	DRR	Ca_14459	--	--
Ca4_P1_23055098	Ca4	23055098	CTTTATTTTATTTTATTTTATTTT/CTTT ATTTTATTTTATTTT	GTGTGCTTGGAAAGTC GTTG	TTTGATGTTGTTGGAG ATGAAAA	59.3	485	DRR	Ca_14459	--	--
Ca4_P1_23055622	Ca4	23055622	TAAGAA/TAAGAAAGAA	TGAATTAAAGGATTGC ATGAACA	CCGTTGAATGGAAAT CACC	59.5	530	DRR	Ca_14459	--	--
Ca4_P1_23056430	Ca4	23056430	TAAAAAAA/TAAAAAAA	ATGAATAGCATGCCAC GACA	TCATGTGGGCTCATT GGTA	60.1	771	INTERGENIC	--	--	--
Ca4_P1_23056577	Ca4	23056577	TAAAAAAA/TAAAAAAA	ATGAATAGCATGCCAC GACA	TCATGTGGGCTCATT GGTA	60.1	771	INTERGENIC	--	--	--
Ca4_P1_23058519	Ca4	23058519	ATCT/AT	CGGATATGAGTTTAT GGACGA	CTCCCTTTTGCAACA CACA	59.0	434	INTERGENIC	--	--	--
Ca4_P1_23059712	Ca4	23059712	CTTTT/CTTT	TCATTGTTTGTGCAG TTTTG	TTTAATTCCTGCAC CCCT	59.8	612	INTERGENIC	--	--	--
Ca4_P1_23060171	Ca4	23060171	AATG/AATGCATG	TGCATTTGGCAATTTG AAGA	TCAACGCATGTGACTG CATA	60.2	254	INTERGENIC	--	--	--
Ca4_P1_23060568	Ca4	23060568	ATTTTTTTTT/ATTTTTTTTT	ATGGGCATTATGCAGT CACA	TTTGCCAAATTATCAT GTTTGC	60.0	766	INTERGENIC	--	--	--
Ca4_P1_23067339	Ca4	23067339	GACAAAAACAAAAA/GACAAAA	GCAATATCGAAGCAG ACAA	ATTGCGGTGAGTTATT TCCG	59.8	148	INTRON	Ca_14458	R	--
Ca4_P1_23067690	Ca4	23067690	GTTTTTTTT/GTTTTTTTTT	CGGAAATAACTGACCG CAAT	GGAATCGAAAGTCGTG GAAA	60.0	373	INTERGENIC	--	--	--
Ca4_P1_23077402	Ca4	23077402	TAAAAAAA/TAAAAAAA	ACCAAAGAATCCATCG GTTG	TGAATTCATGTGTATT GTCGGA	59.8	842	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_23077586	Ca4	23077586	ATTTTT/ATTTTTT	AAGAAAAGGTTGCGT TTGA	TGAATTCATGTGATT GTCGGA	59.7	644	INTERGENIC	--	--	--
Ca4_P1_23078030	Ca4	23078030	GAAAAA/GAAAAAAA	TTTGAAGAACCAGAGT TTGAAGAA	TTCAATGCCCATAATC GTGA	59.5	656	INTERGENIC	--	--	--
Ca4_P1_23078082	Ca4	23078082	CTTTTT/CTTTTTT	TTTGAAGAACCAGAGT TTGAAGAA	TTCAATGCCCATAATC GTGA	59.5	656	INTERGENIC	--	--	--
Ca4_P1_23079294	Ca4	23079294	ATCTTCTT/ATCTT	TAAATAGCATTTCGCG TCCC	TTTTTCTTCGATTTC GTCC	59.9	508	INTERGENIC	--	--	--
Ca4_P1_23079340	Ca4	23079340	CAAA/CAAAA	AATTGCAAGTGGACTG GACC	CCGAGCCAAATCCAA AATA	60.0	787	INTERGENIC	--	--	--
Ca4_P1_23080112	Ca4	23080112	CAAAAA/CAAAAAA	CGGTGAATCCTTTACG GAGA	CACCGTAGTGTGGTG GTGAG	60.1	491	INTERGENIC	--	--	--
Ca4_P1_23098190	Ca4	23098190	TC/T	GGCGGTCGAGAGTTTA TGTG	TGAGTGCCAACAAGCT GAAC	60.7	495	DRR	Ca_14457	R	MYB
Ca4_P1_23098234	Ca4	23098234	GTTTT/GTTTTT	GGCGGTCGAGAGTTTA TGTG	TGAGTGCCAACAAGCT GAAC	60.7	495	DRR	Ca_14457	R	MYB
Ca4_P1_23098796	Ca4	23098796	GGA/GGAGA	GTTTCAGCTTGTGGCA CTCA	TCATGAACCTCAACGA ACGA	60.0	558	INTERGENIC	--	--	--
Ca4_P1_23103638	Ca4	23103638	ATTTTT/ATTTTTT	CATTTTGCATGCCATC TTTG	TGTCGGACCGAAAATG TAAA	60.1	680	INTERGENIC	--	--	--
Ca4_P1_23104080	Ca4	23104080	AGGGG/AGGGGG	TTTTGTTAAGCATTGTT GGGC	GCCGTTTAGTCGAAGT TTGG	60.0	343	INTERGENIC	--	--	--
Ca4_P1_23104118	Ca4	23104118	TA/T	TTTTGTTAAGCATTGTT GGGC	ATTCCAAACGTGAATC CGTC	60.0	594	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_23134474	Ca4	23134474	ATTGTTGTTGT/ATTGTTGT	ATGCTGCGAAATTGTT GAAA	AAAAGCGTTGTAAATT GGATTGA	59.3	342	INTERGENIC	--	--	--
Ca4_P1_23135482	Ca4	23135482	GAAAAAA/GAAAAA	ATTCAGCAATGAGAGG TCCG	GATGATGCATGCCATT TGAG	60.2	752	INTERGENIC	--	--	--
Ca4_P1_23145891	Ca4	23145891	ATTTTTTTTT/ATTTTTTTT	GCTTGAGGATTCAGTA GGCG	GAGTGGAGGACCACA TGTC	60.0	408	INTERGENIC	--	--	--
Ca4_P1_23217567	Ca4	23217567	AATATATATATATATATAT/AATATATA TATATATATATAT	CTCTAGGGAAGCGACC TCCT	CCAAACCACTTGTGG GAGT	60.0	633	INTERGENIC	--	--	--
Ca4_P1_23264893	Ca4	23264893	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA AAAA	TTAACCGGAAACAAT GCAA	TTTAAAGCATTGGGGT TTGG	59.1	742	INTERGENIC	--	--	--
Ca4_P1_23272983	Ca4	23272983	ATTTTTTTTT/ATTTTTTTT	ACCACATCGGAAGAAA CGAC	GGACGAAGTAGAACG GACCA	60.0	596	INTERGENIC	--	--	--
Ca4_P1_23363366	Ca4	23363366	GAAAAAAAAAAAAA/GAAAAAAAAAAAAA A	GTTAACGTTGCCCTAA CGGA	TCCAGGTAACCTTTTG GTCC	60.0	114	INTERGENIC	--	--	--
Ca4_P1_23366959	Ca4	23366959	GATATATATATATATATATATATATA TATATATATA/GATATATATATATATAT ATATATATATATATATATATATATAT ATATA	GGGAGTCATGTTGACC GTCT	TAGTGTGTAACCCGTG CGTC	60.0	227	INTERGENIC	--	--	--
Ca4_P1_23378919	Ca4	23378919	CATATATATATATATATA/CATATATAT ATATATATATA	TGGGCCAAAGATCCAT TAAC	AACAAGCGACCATTTCG ATTT	59.8	781	DRR	Ca_14444	--	ERF
Ca4_P1_23419838	Ca4	23419838	TA/TACA	AGGAAGAGTGGAGTTG CGAA	TTAACCTTGGAGTGAT CGGC	60.0	623	INTERGENIC	--	--	--
Ca4_P1_23525491	Ca4	23525491	GTTTTTTTTT/GTTTTTTTTT	TGAGATTATATGCACG CGGA	TGAATCGCGAAAGTAG TCCC	60.2	574	INTERGENIC	--	--	--
Ca4_P1_23606765	Ca4	23606765	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA	TTGCCCATTTGCTCTT TAAC	TGTGGAGGAAATGGAA CACA	60.1	709	DRR	Ca_14435	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca4_P1_2366778	Ca4	2366778	AATATATATATATATATATATATATA TATAT/AATATATATATATATATATAT ATATATATATATATATAT	ATCCGTCTCCACGCTA ATTG	TATGGGACCTTCTGGC TCTG	60.1	482	INTRON	Ca_07858	Q	Nin-like
Ca4_P1_23721197	Ca4	23721197	TAAACA/TAAAAACAAAACA	ATTGTGTGCATTTCG CTGA	TGGCAATCGACTGAC TAAA	60.1	353	INTERGENIC	--	--	--
Ca4_P1_23756124	Ca4	23756124	TGTAG/T	TTGGAACGTAATTTGA TGCG	CACAATTCATTGTGT GGCCT	59.6	611	INTERGENIC	--	--	--
Ca4_P1_23756363	Ca4	23756363	TTATATATATATATATATA/TTATATATA TATATATATATA	TTGGAACGTAATTTGA TGCG	CCCCTTGCTTCTGTAT GCTT	59.6	872	INTERGENIC	--	--	--
Ca4_P1_23828073	Ca4	23828073	G/GACATCGG	TGTTGAAAACGGTCCG TACA	CTTCATCCGAAGAGGC AGAG	60.0	744	INTERGENIC	--	--	--
Ca4_P1_2388178	Ca4	2388178	GTAATAATAATAATAATAATAATA ATAATA/GTAATAATAATAATAATAATA ATAATAATAATAATAATA	GCCATGGCATAAACC TAGA	ATCAGGGAACACGGAA CTTG	59.9	591	INTERGENIC	--	--	--
Ca4_P1_23960230	Ca4	23960230	AAATAATAATAATAATAATAAT/AA ATAATAATAATAATAATAATAAT	GTCGTGATTGTGTC AACG	AGGCCAATGAGGCAA GAGTA	60.2	617	INTERGENIC	--	--	--
Ca4_P1_23977698	Ca4	23977698	AATTATTATTAT/AATTATTATTATTAT	CAAAGCAAGCAACGCA TAAA	TGGATATTTGTTAATAA TCACGGA	60.0	439	INTERGENIC	--	--	--
Ca4_P1_24073846	Ca4	24073846	ATTTTTTTTT/ATTTTTTTTTT	GCGTGTTTTAAATTTG GTGGA	ATTGATTGCAATGCCT TGAA	59.9	495	INTERGENIC	--	--	--
Ca4_P1_24100684	Ca4	24100684	AATATATATATATATATATATATA/A ATATATATATATATATATATATATA	AATGGTCCAAGGAAA AGGG	ATCCCCAATTGGAACC TACC	60.2	753	INTERGENIC	--	--	--
Ca4_P1_24115337	Ca4	24115337	ATATAT/ATATATATCTATAT	CACACGTGCATGGATA GAGG	TTCACCGTGGATGAAT TTGA	60.1	341	INTERGENIC	--	--	--
Ca4_P1_24140540	Ca4	24140540	AT/ATATT	TTATTTACCCTCGTCTG TCCA	TTGTGTGTTGCCGAT TTTA	60.0	234	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_24148555	Ca4	24148555	ATATTATTATTATTATTATTATTAT TATTATTATTATTATTATTAT/ATAT TATTATTATTATTATTATTATTAT ATTATTATTATTAT	TTCATCTTTGTCGCT GCAC	TTCGGGAGTCGATTAC GAGT	60.0	597	INTERGENIC	--	--	--
Ca4_P1_24166868	Ca4	24166868	TA/TTTATTAA	GTCTGACCTGGCCTGA CCTA	GAACGGCTACCGAATA TGGA	60.3	296	INTERGENIC	--	--	--
Ca4_P1_24268223	Ca4	24268223	ATTTTTTTTTTT/ATTTTTTTTTTT	CGAACATTCTCTCCAT CCGT	GGCTCTTCCGTAGAC CCTT	60.1	565	INTERGENIC	--	--	--
Ca4_P1_24273906	Ca4	24273906	TTATATATATATATATATATATAT A/TTATATATATATATATATATATA	GGGGGAGTTGTTATTC GGTT	GAAAAGTGTTGTCGTG TGTGC	60.1	646	INTERGENIC	--	--	--
Ca4_P1_24279827	Ca4	24279827	ATATTATTATTATTATTATTATTAT TATTATTATTATTA/ATATTATTATTAT ATTATTATTATTATTATTA	TGGTCCATATCCTGGG TTGT	GTACCCCGACTAAGCA CCAA	60.1	720	INTERGENIC	--	--	--
Ca4_P1_24326964	Ca4	24326964	TAAAAAAAAA/TAAAAAAAAA	CTGGGCAAGGGATCTG AATA	AATGCCACCCATAAT TTCA	60.0	646	INTERGENIC	--	--	--
Ca4_P1_24359275	Ca4	24359275	TAAAAAAAAA/TAAAAAAAAA	GGGAGGGTGGGAGTA AATGT	TGTGGCTTTCCAATGT ACGA	60.1	571	INTERGENIC	--	--	--
Ca4_P1_24368839	Ca4	24368839	TAAAAAA/TAAAAAA	TTTTCCGACTTGCTC CTTT	GGACTTTGGTTCTCTT GGCA	58.7	381	INTERGENIC	--	--	--
Ca4_P1_24390102	Ca4	24390102	TAAAAAA/TAAAAAA	AATCCTTCTGAGTGAG CGGA	CCTCCAACAGCTTCTT CACC	60.0	339	INTERGENIC	--	--	--
Ca4_P1_24397169	Ca4	24397169	GAAAAAAAAA/GAAAAAAAAA	TGTTTCAATCCTCCCT CACA	TGGTCATTGTTGATGC GATT	59.1	853	INTERGENIC	--	--	--
Ca4_P1_24427573	Ca4	24427573	GTT/GTTT	CTGGAAAAATCCTCCTC CTCC	TTCGTCTCAACAATCT CCCC	60.0	346	INTERGENIC	--	--	--
Ca4_P1_24438141	Ca4	24438141	CAAAAA/CAAAAA	CCGCTCTGGAAATCAT TCAT	AAGACTCGGGATAATG GCCT	60.0	551	DRR	Ca_20867	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_24442934	Ca4	24442934	GCA/GCATTCA	TCGCCTTCAAAGAAAA CCAC	GGCATGAAATCCATCA CCTT	60.2	568	DRR	Ca_20866	R	NAC
Ca4_P1_24453845	Ca4	24453845	A/AT	TCCTTCGCAACCATAT CACA	GTTTCCGGAAGCAATC GAAG	60.1	282	INTERGENIC	--	--	--
Ca4_P1_24455402	Ca4	24455402	TTATATATATATATAT/TTATATATATAT ATATAT	AGCACCAAAGCCACCA TTAC	AGCCTCTTTTGGGAC CACT	60.0	236	INTERGENIC	--	--	--
Ca4_P1_2445623	Ca4	2445623	AATATATATATATATATATATATATATA TATATATATAAATATATATATATATATAT ATATATATATATATATA	GGAGGTCACAACCACT CCAA	CGGACTTTCGACTTTC TTGC	61.0	654	INTERGENIC	--	--	--
Ca4_P1_24473624	Ca4	24473624	T/TA	GAGCTTAGACCGCCAC AAAG	TTGTAGTTGAGTTGCG ACAAAAA	60.0	743	INTERGENIC	--	--	--
Ca4_P1_24478956	Ca4	24478956	CAA/CAAA	CGGTTCTACACAAGTT GCGA	TCGATTATGCGTAGGG AAGG	59.9	746	INTERGENIC	--	--	--
Ca4_P1_24479035	Ca4	24479035	ATTTTTTT/ATTTTTTTTT	CGGTTCTACACAAGTT GCGA	TCGATTATGCGTAGGG AAGG	59.9	746	INTERGENIC	--	--	--
Ca4_P1_24505723	Ca4	24505723	TAAAAAAAAA/TAAAAAAAAA	GTTTCGTTCCGCAAC TTTC	TGCCCTGATTGATGAC CATA	59.7	768	INTERGENIC	--	--	--
Ca4_P1_24510502	Ca4	24510502	CTGGAACATTGGAACATTG/CTGGAA CATTG	CTGCAAAAGCCCTCAC AAAT	TCCTCTTGACACCAC AAGA	60.2	969	INTERGENIC	--	--	--
Ca4_P1_24553735	Ca4	24553735	GATTAT/GAT	TGGTGCGATTGTGGAA AATA	GAGTAGATGTCCAAC AGCG	59.9	361	INTERGENIC	--	--	--
Ca4_P1_24553809	Ca4	24553809	ATTTTTTT/ATTTTTTTTT	TGGTGCGATTGTGGAA AATA	TTCTTTGGTGGTTGAA TTTTGTT	59.9	695	INTERGENIC	--	--	--
Ca4_P1_24554220	Ca4	24554220	T/TA	GTGCGGATTATGTCGG GTAT	ACTAGATGGTCGCATC CTGG	59.7	751	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_24572568	Ca4	24572568	AA/AACA	ACAACACAATCACCA GCCA	GTGGAAGAAAAGCGT CCAAA	60.0	935	INTERGENIC	--	--	--
Ca4_P1_24581547	Ca4	24581547	AATTA/AA	TTCCATTTCTCCACAA AGC	TCATTCCAGAAGGAGA TGGG	60.1	548	INTRON	Ca_20859	--	--
Ca4_P1_24597173	Ca4	24597173	TAAAAAAAAA/TAAAAAAAAA	TGTCACGACAATATTG GATGATT	CCTTTAGAGGACCACC AATGTC	59.2	482	INTERGENIC	--	--	--
Ca4_P1_2460361	Ca4	2460361	CATGTTAGTTAATGTTAGTTAATG/CA TGTTAGTTAATG	TTCAACCGACAAAATG CAAA	TGTTTTAAAGCATGCA AAGAGTTT	60.1	786	INTERGENIC	--	--	--
Ca4_P1_24624996	Ca4	24624996	CTTTTTTTTT/CTTTTTTTTT	GTGTGCCTTGGAAATG TTCA	CATTTGCCAACTCACC AAAA	59.5	461	INTERGENIC	--	--	--
Ca4_P1_24626037	Ca4	24626037	AAATAATATAATAATAATAATAATAA TATAATAATAATAATAATAATAATAA/ AAATAATATAATAATAATAATAATAA TATAATAATAATAATAA	TGGAGGATGTGGCATG AATA	TGCTCTCTCTTTAA CAACTTC	59.9	620	INTERGENIC	--	--	--
Ca4_P1_24628315	Ca4	24628315	AATATATATATATATATATATATATA TATATATATATATATATATATATATAT ATATATATATATATATATATATATAT ATATATATAT	TATTTTGGATTTTGGCT CGG	AGGAAGAGTGGAGTT GCGAA	59.9	540	INTERGENIC	--	--	--
Ca4_P1_24676114	Ca4	24676114	AAAAATGTT/A	ACCAGGGACTGTCCAT CAAG	TTTTTGTCCGTCTTCC AAGT	60.0	624	INTERGENIC	--	--	--
Ca4_P1_24681027	Ca4	24681027	TTCTCTCTCTCTCTCTCTCT/TTCT CTCTCTCTCTCTCT	ATAAAAGGCGCGCTGT AAAA	TGGTTTGTAGATGTGC CGAA	59.9	383	INTERGENIC	--	--	--
Ca4_P1_24745546	Ca4	24745546	AATATATATATATATATATATATATA TATATATATATATATATATATATATAT ATATATAT	CGAGAAGCTTGATTGC TTCA	TTCAACCTAAGCCCAT TACGA	59.3	787	INTERGENIC	--	--	--
Ca4_P1_24748380	Ca4	24748380	GTTATTATTATTATTATTATTATTA TTATTAT/GTTATTATTATTATTATTAT ATTATTATTATTATTAT	TGTTTTAATGCCAATG CGA	TTTCTCACAGATGTGG TCGTG	60.1	546	INTERGENIC	--	--	--
Ca4_P1_2477995	Ca4	2477995	AATATATATATATATATATA/AATAT ATATATATATATATATATATA	GCCATTTGGCTTGTAG GTTG	AGCGCTGTTGTATCCT TCGT	60.5	570	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_24786287	Ca4	24786287	GTTAATTTAATTTAATTTAATTT/GTTA ATTTAATTTAATTT	CTTCACTGCGTCCCTT CTTC	CTTTTGCTTCTTGCC AGCC	60.0	749	DRR	Ca_20850	--	--
Ca4_P1_24828297	Ca4	24828297	ATTTTTTTTT/ATTTTTTTTTTT	TGGAATTCAGACTGC CTTG	GGGCACGAAGAAGCA CTATC	58.8	716	INTERGENIC	--	--	--
Ca4_P1_24839816	Ca4	24839816	AATATATATATATATATATAT/AATATA TATATATATATATATAT	GGAATTGGGAAAGATG GGAT	GCAACGTCACCTTTGGG ATTT	60.0	238	INTERGENIC	--	--	--
Ca4_P1_24897433	Ca4	24897433	GAAAAAAAA/GAAAAAAAAA	TGCACAAACCTTCAAT GCT	TTTTTGAATTTTGAACG AAACA	59.3	775	INTERGENIC	--	--	--
Ca4_P1_24905267	Ca4	24905267	CTATA/CTA	CCCATGACTGATTGGT ATGCT	GGAAGATCACCCAAA ATGG	59.8	559	INTERGENIC	--	--	--
Ca4_P1_24905867	Ca4	24905867	ATTTTTTTTTTT/ATTTTTTTTTTT	GCAATTTGCAGAACA TGGA	CCTTTCAGCCTTTTGG TTGG	59.7	140	INTERGENIC	--	--	--
Ca4_P1_24911942	Ca4	24911942	ATTTTTTTTTTT/ATTTTTTTTTTT	ACACCGAGTAAACGGT GGAG	CCTTGTCTCACAAA ACCCA	60.0	481	INTERGENIC	--	--	--
Ca4_P1_24940280	Ca4	24940280	GAAAAAAAAA/GAAAAAAAAA	TTGTTGTCGCAATGGA ATGT	TGCTTGGTCACTTTGG CATA	60.0	315	INTERGENIC	--	--	--
Ca4_P1_2495002	Ca4	2495002	ATCTCTCTCTCTCTCTCTCTCTCTCTC TCTCT/ATCTCTCTCTCTCTCTCTCTC TCTCTCTCTCTCTCTCTCT	GAGGTCCTTGATGTGC GAAT	AATTGGAGGCAACATT GAGG	60.1	812	INTRON	Ca_07866	S	--
Ca4_P1_24983663	Ca4	24983663	TTATATATATATATATATATAT/TTAT ATATATATATATATATATATATAT	TTTTAGTGGGCAAGTG CAAA	GCTTTGCATGCCATT TCTA	59.3	635	INTRON	Ca_20841	--	FAR1
Ca4_P1_25036918	Ca4	25036918	TAAAAAAAA/TAAAAAAAAA	ATCCAAGTTGAGCAAG CATT	CATTGAGACTTTGCCA CGAA	57.4	605	INTERGENIC	--	--	--
Ca4_P1_25070539	Ca4	25070539	TTTTATTATTATTATTATTATTATT/TT TTTTATTATTATTATTATTATT	TTTGCAAAACCAATG AATACCT	GTTTTGAGCCATTCA CGAT	57.8	596	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_25071336	Ca4	25071336	CA/C	TGAGACTGCTTGGCTA CCCT	ATCTGAATCATCCAA GCCA	60.0	488	INTERGENIC	--	--	--
Ca4_P1_25077515	Ca4	25077515	AATATATATATATAT/AATATATATA TATAT	GTCAATTGAGTTGCGA CGAA	TTGTTATGGCTGGGGC TAAG	59.8	308	INTERGENIC	--	--	--
Ca4_P1_25088043	Ca4	25088043	CCT/CCTCCTTCTTCT	AACCTTCGCAAGAACC CTTC	ATCAATCTCGTTTTTCC TGGG	60.6	219	INTERGENIC	--	--	--
Ca4_P1_25097629	Ca4	25097629	CAAAAA/CAAAAAA	TCAATGATGGTGACTION GGGA	TACCCATTGGTCTTG GGTC	59.9	820	INTERGENIC	--	--	--
Ca4_P1_25101214	Ca4	25101214	ATTTTTTTTT/ATTTTTTTTT	TGTGTGTACGTGTGAT TTGCC	ACAAGCAAGTGTGGCA AAAA	60.5	368	INTERGENIC	--	--	--
Ca4_P1_25109282	Ca4	25109282	ATT/ATTT	ATGCATCACAAATATG CACTCT	TGGTTTATTGAATTG AAAAGAATGA	57.3	953	INTERGENIC	--	--	--
Ca4_P1_25137117	Ca4	25137117	TAGATGTCAAAGA/TAGATGTCAA GATGTCAAAGA	GCATTGTGGAACAAGG AACC	TAAGGCTGCCTAGTCC TTGC	60.4	114	INTERGENIC	--	--	--
Ca4_P1_25152424	Ca4	25152424	ATTTTTTTTTTT/ATTTTTTTTTTT	GGTTTGGATGATTTTG GTGG	TGGCAACACATGAACC TGAT	60.0	361	INTRON	Ca_16561	Q	B3
Ca4_P1_25154078	Ca4	25154078	TA/T	AGAAAACAGTGGCTGC TCGT	GGATCTGTCCATGTGC TGTG	60.1	612	DRR	Ca_16561	Q	B3
Ca4_P1_25177814	Ca4	25177814	CAGAGAGA/CAGAGA	TCCTTGATCGGTTAAG TCGG	TAAAGGACCAAGTCGG GAAA	60.1	373	INTERGENIC	--	--	--
Ca4_P1_25186812	Ca4	25186812	TAAAAA/TAAAAA	CCACAGGGTTAAGTTT CCGA	GCCAACTCTCTCCC TACC	60.0	657	INTRON	Ca_16562	--	--
Ca4_P1_25190584	Ca4	25190584	ATTTTTTTTT/ATTTTTTTTTTT	TCACCTCCTTTGGTTC CACT	CAGTTTACTCAGGTGG CGGT	59.5	285	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_25205443	Ca4	25205443	TAGATTGGCACAAAAGATTGG/TAG ATTTGG	GATGGAGGATCAGCCA CATT	ATGGTGGAATGCCTCA AAAG	59.9	648	INTERGENIC	--	--	--
Ca4_P1_25213751	Ca4	25213751	GAG/GAGATCATAG	TCATTCAACGTCATCG TATCAA	TGTGTTTGATCAATAT CGAAGGC	59.0	562	INTERGENIC	--	--	--
Ca4_P1_25228841	Ca4	25228841	AATATATATATAT/AAATATATATA TATAT	ATGATTACCTCGGCAT GGAG	AGCACGAGATCAAAGC ACAA	59.9	349	INTRON	Ca_16565	--	--
Ca4_P1_25235619	Ca4	25235619	G/GA	CAAAGGAAAACAATGG GGAG	TACTCTTGCTTTTGGC ACCC	59.4	530	INTERGENIC	--	--	--
Ca4_P1_25237777	Ca4	25237777	ATTTTTTTTT/ATTTTTTTTT	TGTCTCTCGACCAA CCAT	GCAAATTTTAACTG GGCG	60.5	530	INTERGENIC	--	--	--
Ca4_P1_25237972	Ca4	25237972	ACC/AC	ATGAACAAACACGCC AGTT	GGGTGCAACCCTATT GTCA	60.4	567	INTERGENIC	--	--	--
Ca4_P1_25239132	Ca4	25239132	TTGG/TTGGATGG	TGCATCATGAGCTAGC CAAC	GGTGCTGGTCTTGGAT TTGT	60.0	567	INTERGENIC	--	--	--
Ca4_P1_25275335	Ca4	25275335	T/TTCCAAA	TCTGCACCAATTGCCA TAAA	TCTTCAAGTGGGTGA ATCC	60.1	577	INTERGENIC	--	--	--
Ca4_P1_25287465	Ca4	25287465	CAAAAAAAAA/CAAAAAA	CTAGCGCCACTCCTGT AACC	TCCGATGGACACAAGT CTCA	59.9	330	INTERGENIC	--	--	--
Ca4_P1_25287739	Ca4	25287739	TC/T	CTAGCGCCACTCCTGT AACC	AAGCATGTAACCTTCG AAAATG	59.9	843	INTERGENIC	--	--	--
Ca4_P1_25290328	Ca4	25290328	GTTTTTTTT/GTTTTTTT	TCACACCGTGAGATT TCCA	GAGGCTCCAGATCGA AGTTG	60.1	629	INTERGENIC	--	--	--
Ca4_P1_25291746	Ca4	25291746	CTT/CTTT	GCATGGGTGGGTGTCT AATC	TTGTGGAGCAACATG TGGT	60.2	432	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_25292705	Ca4	25292705	GTTAATTAA/GTTAA	GGCAGAAATTTGAACG TGGT	GGACAAAAGAAGAGCA AAAAGG	60.0	227	INTERGENIC	--	--	--
Ca4_P1_25301998	Ca4	25301998	TTTC/TTTCTTC	TTTTTCAATCTCCAATG GGC	AAAAATGTTGGGGCAA GATG	59.9	377	DRR	Ca_16570	--	Dof
Ca4_P1_25303619	Ca4	25303619	GTTTTT/GTTTTTT	TTGAGGCAGGAACCTC AACT	CATTTCCTTAAGCCCC ATGA	59.8	601	INTERGENIC	--	--	--
Ca4_P1_25340691	Ca4	25340691	GAA/GA	GGTTGTAGATGGGTGG TTGG	TGACCACCACGATCAT CATT	60.1	202	INTERGENIC	--	--	--
Ca4_P1_25347533	Ca4	25347533	GTTTTTTTTT/GTTTTTTTTTT	CTGTGGAAAAGGCACC TGAT	CGCCCTTTGCAAATAG TAAAA	60.1	354	INTERGENIC	--	--	--
Ca4_P1_25348751	Ca4	25348751	TCCC/TCCC	GGCAAATGCTAACCCA TGTT	TTGCTTACAATCCGAG ACGA	59.8	224	INTERGENIC	--	--	--
Ca4_P1_25348827	Ca4	25348827	AGGGGGG/AGGGGGG	GGCAAATGCTAACCCA TGTT	TTGCTTACAATCCGAG ACGA	59.8	224	INTERGENIC	--	--	--
Ca4_P1_25349261	Ca4	25349261	TCCC/TCC	TTCGTCTCGGATTGTA AGCA	CGTGTCAAACCAAAG AGCA	59.4	716	INTERGENIC	--	--	--
Ca4_P1_25352179	Ca4	25352179	CCTCTC/CCTC	CACTGCTATAAGCCGC ACAA	TGAATCAACGAGCTAT CGAATG	60.0	382	INTERGENIC	--	--	--
Ca4_P1_25352495	Ca4	25352495	GGTT/G	GGAAATGGTTCTTTGA AAGCC	AGCCTTACGCATGTAT TGCC	59.9	719	INTERGENIC	--	--	--
Ca4_P1_25352610	Ca4	25352610	T/TA	GGAAATGGTTCTTTGA AAGCC	AGCCTTACGCATGTAT TGCC	59.9	719	INTERGENIC	--	--	--
Ca4_P1_25353133	Ca4	25353133	GAAAAAAA/GAAAAAAA	CGTCGCTACTAAGACGA TGAA	GGGTAAGGGTACGTT GAGTCC	60.0	415	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_25353195	Ca4	25353195	GT/GTT	CGTCGCACTAAGACGA TGAA	GGGTAAGGGTACGTT GAGTCC	60.0	415	INTERGENIC	--	--	--
Ca4_P1_25353812	Ca4	25353812	A/AG	AAGTCCATAACGGTGT TTCCC	TTGCCCAAGAGGTCTC AAGT	60.1	404	INTERGENIC	--	--	--
Ca4_P1_25358015	Ca4	25358015	AG/AGATG	AAAATTCTGTTTGGGG GACC	ATTACACGCTTGCAGA CGAA	60.0	886	INTERGENIC	--	--	--
Ca4_P1_25358106	Ca4	25358106	TTAAATAAATAAATAAATAA/TTA AATAAATAAATAAATAA	GGGACTACTTTCGCGA TTCA	ATTACACGCTTGCAGA CGAA	60.2	842	INTERGENIC	--	--	--
Ca4_P1_25358567	Ca4	25358567	ATTTTTTTTT/ATTTTTTTT	TTTCGTCTGCAAGCGT GTAA	TGTTGTACGCCAAAT TTCA	60.6	396	INTERGENIC	--	--	--
Ca4_P1_25365917	Ca4	25365917	ATTTT/ATT	AATTTTGTGCCCTC CAAT	TGCTATGGCACAAGTC TCCA	60.5	547	INTERGENIC	--	--	--
Ca4_P1_25367189	Ca4	25367189	A/AT	TTTATTGTAGGTGGAG GCGG	GGCCAAATTGATGCAA AGTT	60.0	271	INTERGENIC	--	--	--
Ca4_P1_25369632	Ca4	25369632	TA/T	CTGGTGTGAGGTTGCG TTTA	CTCAGGTGCCTTTTCC ACAT	59.8	474	INTERGENIC	--	--	--
Ca4_P1_25370682	Ca4	25370682	CAAA/CAAAAA	TTTTGCAACGACGACA TTCT	CCCCACTTTGCACAAA GACT	59.3	766	INTERGENIC	--	--	--
Ca4_P1_25370722	Ca4	25370722	ATATTATTATTA/ATATTATTATTATTA	TTTTGCAACGACGACA TTCT	CCCCACTTTGCACAAA GACT	59.3	766	INTERGENIC	--	--	--
Ca4_P1_25392312	Ca4	25392312	AGGG/AGG	TGACAAGCTCGATTGG ACAC	ATAGCTTATCCCGCC CAGT	59.8	892	INTERGENIC	--	--	--
Ca4_P1_25393702	Ca4	25393702	TACACA/TACACACA	TAAAAATGAGCCCTTG CACC	TTCCAGCACCAGAGGA TAGC	60.1	679	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_25434230	Ca4	25434230	AACACA/AACA	GATTATCCTCTGCGG TCAA	TCGCTCCTTACCATC ACTC	60.0	797	DRR	Ca_16576	O	MIKC
Ca4_P1_25434376	Ca4	25434376	TAAAAAAAAA/TAAAAAAAAA	TTTGTCCACCAAGAAA AGGC	TCGCTCCTTACCATC ACTC	60.1	732	DRR	Ca_16576	O	MIKC
Ca4_P1_25447723	Ca4	25447723	GAAAAAAAAA/GAAAAAAAAA	GATACGTGGAAGCGCA ATTT	TCACGCATCTGACTTT CGAC	60.1	535	INTERGENIC	--	--	--
Ca4_P1_25456544	Ca4	25456544	GA/G	TTTGCTTTCAAACCG AAATC	TCGATGATAAAATGA TCGAGTG	59.2	723	INTERGENIC	--	--	--
Ca4_P1_25457334	Ca4	25457334	ATTTTTTT/ATTTTTTT	CATTTTACTCATCGATC TTTGTGG	TGGACAAAATCATGTC TCTTTGA	59.9	336	DRR	Ca_16577	--	--
Ca4_P1_25457701	Ca4	25457701	AATATATATATATATATATATATATA /AATATATATATATATATATATATATA ATATA	TCAAAGAGACATGATT TTGTCCA	TCACTTGTCTTTGTGT GTCTCA	59.6	524	DRR	Ca_16577	--	--
Ca4_P1_25466972	Ca4	25466972	TAAAAAAAAA/TAAAAAAAAA	TATAGGGAGCGGAACA CACC	TCTAACTCCAGGTAAC GCCG	60.0	840	INTERGENIC	--	--	--
Ca4_P1_25467705	Ca4	25467705	ATTTTTTT/ATTTTTTT	CGGCGTTACCTGGAGT TAGA	TTTTCCATCACATTGT ATTTTGAA	60.3	436	INTERGENIC	--	--	--
Ca4_P1_25468253	Ca4	25468253	ATTTTTTT/ATTTTTTT	CAAAATACAAATGTGAT GGAAAAA	TTTTTGTTTCCTTATTG TTTGACA	58.0	648	INTERGENIC	--	--	--
Ca4_P1_25470351	Ca4	25470351	CTTTTTTT/CTTTTTTTTT	TGCAATTATCCAAAGAT GTATGAAA	TCCTTTTGCCGTCGT CTCT	59.8	479	INTERGENIC	--	--	--
Ca4_P1_25472660	Ca4	25472660	CAAAAAAAAA/CAAAAAAAAAA	TGCACATAGCATGTCA CTTTCA	GTTTGCCAATACATCG TCCC	60.3	619	INTERGENIC	--	--	--
Ca4_P1_25478172	Ca4	25478172	TAAAA/TAAAAA	TGTGATGCAGTTGCTC CATT	GACCTTGCTCTTTGA TGGG	60.3	703	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_25501013	Ca4	25501013	TAAAAAAAA/TAAAAAAAA	GGGCATTGGTAACCTC AAAA	CCAATTGTCTCTCCT CTCC	59.8	909	INTERGENIC	--	--	--
Ca4_P1_2550484	Ca4	2550484	CT/CTGGAATTAGAATGTGTGT	ATTGTTTGTCCAGCGA TTCC	TCTGCAATGACCCTCT TGTC	59.9	433	INTERGENIC	--	--	--
Ca4_P1_25512047	Ca4	25512047	CTTTATT/CTTTATTTTATT	GCCACTGAATTGTCGG AGAT	ACCCCAATGAATGAA AACA	60.1	324	INTRON	Ca_16579	S	--
Ca4_P1_25519864	Ca4	25519864	GAAAAAAAA/GAAAAAAAA	GGGTCTCGATCAAG AGGT	TGTCAGTTGAGCTCCT GTCG	60.5	417	INTERGENIC	--	--	--
Ca4_P1_25523236	Ca4	25523236	TAAAA/TAA	TGTGGTGGTGATCCTT GAAA	GATTCTGCATCTGCT AGGC	59.9	786	INTERGENIC	--	--	--
Ca4_P1_25527044	Ca4	25527044	TAAAAAAAA/TAAAAAAAA	ATTGAAGCGGCACCTA TTGA	GCAAATTGTAAAGTA GTCITTGAGC	60.6	706	DRR	Ca_16580	--	--
Ca4_P1_25527454	Ca4	25527454	TAAAAAAAAAAAAAAAAA/TAAAAAAAAA AAAAAA	TCATGTGTAATTTTAT CTCAAGGAA	GGCTTGATTGATTCAC ATCCT	58.3	743	DRR	Ca_16580	--	--
Ca4_P1_25527696	Ca4	25527696	TAAAAAAAAAAAA/TAAAAAAAAAAAA	TTGCAACTTGAAATTGA AAACCTT	GACCTCTAATGAGGG GAGAA	60.0	612	DRR	Ca_16580	--	--
Ca4_P1_25534530	Ca4	25534530	TTAT/TT	ATGATTTGGGACAATG TGGG	GATCGAGGAGCTAGG AGCAA	60.4	503	INTERGENIC	--	--	--
Ca4_P1_25535456	Ca4	25535456	ACACCTTGAGTTTGGTCCA/ACACCTT GAGTTTGGTCCACCTTGAGTTTGGTC CA	TGTGGGATGCATGTCC TTTA	TTGAAATTGAACCAAT CCGA	59.9	682	INTERGENIC	--	--	--
Ca4_P1_25537627	Ca4	25537627	TAAAAAAAAAAAA/TAAAAAAAAAAAA	AGTGAGCCGATCAAT GGAC	TGAAGCGGGATAAAG GATG	60.1	647	INTERGENIC	--	--	--
Ca4_P1_25543797	Ca4	25543797	TTTTTTTT/TTTTTTTCTTCTTTTTT	AGGACTTTCGACCACC ACAC	TACCCTTGCTAGCCC CTTT	60.0	415	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_25565357	Ca4	25565357	TAAAAAAAAA/TAAAAAAAAA	GGCGGCAACGGTAAT CTAA	GCCACAATTGCATGT TCAC	60.0	345	INTERGENIC	--	--	--
Ca4_P1_25579370	Ca4	25579370	TAAAAAAAAA/TAAAAAAAAA	AAATCGGCTCCTTTTA AAACAATA	TCTTCTCGACGTTTT TGGC	59.5	699	INTERGENIC	--	--	--
Ca4_P1_25596032	Ca4	25596032	TTAT/TTATAT	AGTGATGTGGCAACA ATGA	TGCATTTACAGCGCT TTTG	60.0	515	INTERGENIC	--	--	--
Ca4_P1_25612150	Ca4	25612150	ATTTTTTTTT/ATTTTTTTTT	TGAGTACGTGCTCGAT TTGC	AAACTGCGGCATAATA ACCG	60.0	672	INTERGENIC	--	--	--
Ca4_P1_25623331	Ca4	25623331	CATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTA TTAT/CATTATTATTATTATTATTAT TATTATTATTATTATTATTATTAT ATTATTATTAT	CACCGGAACCAAGCTT TTTA	GAGGAGGTTTGTTGG ATGGA	60.1	376	INTERGENIC	--	--	--
Ca4_P1_25630011	Ca4	25630011	AT/A	AGTAGACTTGCCTCCC GGTT	CCTTGTTGTGGAGTGT GGTG	60.1	788	INTERGENIC	--	--	--
Ca4_P1_25651231	Ca4	25651231	CTTTTTTTTT/CTTTTTTTTTTT	CGTTTGCTGTGAAAT GGGA	CAAGCGGTAAGCACTA GGGA	59.5	825	INTRON	Ca_16590	G	--
Ca4_P1_25711562	Ca4	25711562	GTTTATTTATTTTATTTTATTT/GTTTA TTTTATTTTATTT	CTAATCCCAACACGT GACC	ACTCATTCATGTTTC CGCC	60.2	274	INTERGENIC	--	--	--
Ca4_P1_25720958	Ca4	25720958	AAAGAAAGAGATA/AA	ACCACGCCATTCAAAA TAGG	AGGACTTGACGTAACC CACG	59.8	738	INTERGENIC	--	--	--
Ca4_P1_25725898	Ca4	25725898	ATTTTTTTTT/ATTTTTTTTTTT	ACTCTATGGTCCGTG CGAT	GGTGACGGGTAGAAT CCTCA	59.6	312	INTERGENIC	--	--	--
Ca4_P1_25739354	Ca4	25739354	TCCACCACCACCACCACC/TCCA CCACCACCACCACCACCACC	TATCATGTTTTTGACGC CGA	TTGAATCATGCTAGGA GGGC	60.1	457	DRR	Ca_16595	--	--
Ca4_P1_25758155	Ca4	25758155	CAAGTAAGT/CAAGT	TTGGTCCTCGTCATTT CCTC	TCCAAACTTCCATGTG ATTCC	60.1	422	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_25758636	Ca4	25758636	CTTTT/CTTTTTT	TGCACTTCAGTTAAATT GGGC	AGAACTTGC GTGTGA TTCC	60.1	530	INTERGENIC	--	--	--
Ca4_P1_25768326	Ca4	25768326	TAAAAA/TAAAAAA	ATGTTTCGTGCAATGG TCAA	CACATGGCTGAACGA GAAGA	60.0	382	INTERGENIC	--	--	--
Ca4_P1_25771593	Ca4	25771593	CTTTTTTT/CTTTTTTT	GTGCAACAACCTGAAG CAGG	ATCTGAGGGAGGGAC CAAAC	59.5	176	INTERGENIC	--	--	--
Ca4_P1_25774052	Ca4	25774052	TAAAAAAAAA/TAAAAAAAAA	TGTCAAATCCAACGCA AAGA	TGCAACCAACAAG CATA	60.2	661	INTERGENIC	--	--	--
Ca4_P1_25776089	Ca4	25776089	G/GAC	TGGAATGAGAGGGGAA GATG	TCCGAGACAGGTATT TGGC	60.0	366	INTERGENIC	--	--	--
Ca4_P1_25780080	Ca4	25780080	A/AG	GCAGTGCTGAATTTTG CTGA	TCCCAACTCCCAATA GTCC	60.1	342	INTERGENIC	--	--	--
Ca4_P1_25783388	Ca4	25783388	CTTTT/CTTTTT	GCGTGATGCATGATCT AGGA	TCTTTTGATCCGAGT TGGG	59.8	658	INTERGENIC	--	--	--
Ca4_P1_25790471	Ca4	25790471	CAAACGAAACGAAACGAAAC/CAAAC GAAAC	CCTCAAATCCAATTGT GCC	TCATCCTCACCCCAG TTAG	60.3	646	INTERGENIC	--	--	--
Ca4_P1_25802153	Ca4	25802153	GAAAAAAAA/GAAAAAAAA	TGATGAATTTGATGTT GTTGGA	GCACACGTGGTCCCTT AACT	58.9	290	INTERGENIC	--	--	--
Ca4_P1_25812288	Ca4	25812288	CT/C	ATGGTTGTTGCAAGTT TCCC	CCTTGAAGACATATGG TGGCA	59.8	522	INTRON	Ca_16599	R	--
Ca4_P1_25819571	Ca4	25819571	TTATATATATATATATA/TTATATATA TATATATATATATATATATA	TACGGGATGCATTTTT GTGA	CATTGCAACTTGGAGC TGAA	59.9	504	DRR	Ca_16599	R	--
Ca4_P1_25822023	Ca4	25822023	ATTTTTTTTT/ATTTTTTTTT	ACGCAAGAGCAACATC TACG	TGAAGTCTCGGGTTCA AACA	59.1	617	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_25822369	Ca4	25822369	CAAAAAA/CAAAAAA	TGTTGAACCCGAGAC TTCAC	CGTGGCATTGAAAA GCAT	60.1	611	INTERGENIC	--	--	--
Ca4_P1_25832753	Ca4	25832753	ATTTTTTTTT/ATTTTTTTTTT	ATTCAGGGCGGATCT TAGT	CAAGTTTTATTGGGG ACCA	59.9	388	INTERGENIC	--	--	--
Ca4_P1_25834950	Ca4	25834950	AAGACGTTCCGTAA	TCGCTGCTTATTCATG TTCA	ACCACCAGTGAGGATT TTGC	58.0	336	INTERGENIC	--	--	--
Ca4_P1_25844453	Ca4	25844453	AATTATTATTATTATTATTATT AATGTTATTATTATTATTATTATTA TT/AATTATTATTATTATTATTATTA TTATTATTAATGTTATTATTATTAT TATTATTATT	CACTTGGGTCACTGCT GAAG	GATGCTGCATGTGTTG ATCC	59.5	662	DRR	Ca_16601	R	--
Ca4_P1_25847698	Ca4	25847698	T/TG	CATGCTACCAAGCGA TTGA	ATCGATTTCGCGAGTC TTGT	59.8	370	INTERGENIC	--	--	--
Ca4_P1_25854405	Ca4	25854405	ATATTATTATTATTATTATTATT TATTATTATTATTATTATTA/ATATTATT ATTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTAT TA	GGGAAGTGAAGAACCA CCAA	TGGGGACTAAACAGCA ACTCA	59.9	927	DRR	Ca_16602	R	--
Ca4_P1_25854498	Ca4	25854498	T/TA	TGTTTACCGGACATT TCTGT	TGGGGACTAAACAGCA ACTCA	59.3	856	DRR	Ca_16602	R	--
Ca4_P1_25861719	Ca4	25861719	C/CAAATGTCTAGT	TCAAAGGTCCACCCT CACT	TTTGGCCTCCAATAAT CTCG	59.5	380	INTERGENIC	--	--	--
Ca4_P1_25863826	Ca4	25863826	GTTTTTTT/GTTTTTTTTT	CATGGAGATTGAAGTC ATCAAAA	GTTGGTTGTTGGAGTG ATGC	59.1	481	INTERGENIC	--	--	--
Ca4_P1_25867798	Ca4	25867798	TG/T	TGCATTTCCCTCTTAAT GCAA	TTTGGGTGCGTGGTAA AACT	60.6	397	INTERGENIC	--	--	--
Ca4_P1_25884525	Ca4	25884525	TA/T	AGCAACCAAATCGAAA CACC	GGGAAATTTTGAACC AATG	60.0	307	INTERGENIC	--	--	--
Ca4_P1_25890171	Ca4	25890171	AT/ATT	ACTGGTCCGTCTTGGT CAAC	CCACCAACAATACT TGCAT	60.0	872	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_2589224	Ca4	2589224	CAGTTGCAAGTTGCAAG/CAGTTGCA AGTTGCAAGTTGCAAG	AAGATCGATCAGTTCC ACCG	ATTGGGAACCAACTGA CGAG	60.1	396	INTERGENIC	--	--	--
Ca4_P1_25897872	Ca4	25897872	GGTGTACCGTGTA/GGTGTA	AGTGCCCAACTTTCAC CTTC	TCACGATGCACCCAAG AATA	59.2	493	INTERGENIC	--	--	--
Ca4_P1_25916811	Ca4	25916811	CTTTTTTTTT/CTTTTTTTTTTTT	ATGGTAACAGATATCG CCGC	ATTGTAGCATTGCCCA AAGG	60.0	627	DRR	Ca_16606	I	--
Ca4_P1_25924178	Ca4	25924178	ATTTTT/ATTTTTT	TGATGATGTCATTGAT GTGTTG	CTTGTAAAGTTGAGGC GGGC	59.3	778	INTERGENIC	--	--	--
Ca4_P1_25925243	Ca4	25925243	GAAAAAAAAA/GAAAAAAAAA	TTTCGCACAGCATAGG ACAG	CAACGGCGCTGAGATT TATT	60.0	661	INTERGENIC	--	--	--
Ca4_P1_25927650	Ca4	25927650	AGG/AGGG	ATCACAACGGGAACC CAAA	AAGCTCCAAGACCAGA TGGA	60.2	470	INTERGENIC	--	--	--
Ca4_P1_25936338	Ca4	25936338	GTTTTTTTT/GTTTTTTTTT	GAGGTTTCGATTCCTC CACA	AAATTGCAATAGGTGC TCCG	60.1	705	INTERGENIC	--	--	--
Ca4_P1_25937535	Ca4	25937535	GC/GCTTTTGCTC	TCGACGTTGTCCATT GTGT	ACACGAGCGTTTGAGC TTTT	60.0	621	INTERGENIC	--	--	--
Ca4_P1_25941878	Ca4	25941878	CAA/CAAAA	CGATCGTTGTTGGTAT GTCG	CCGTTTTTCTTGCGAT TCTC	60.0	899	INTERGENIC	--	--	--
Ca4_P1_25943779	Ca4	25943779	CAAAA/CAAAA	CCTGGGGTATTCTCGA CAGA	TGAAACCCCTTCAAG GTGC	60.1	474	INTERGENIC	--	--	--
Ca4_P1_25945228	Ca4	25945228	CTTTTT/CTTTTTT	ATTGCGCAAGGATAA GATG	AACGGAGAAAAACGGT GTTG	60.2	824	INTERGENIC	--	--	--
Ca4_P1_25947033	Ca4	25947033	CAAAAAAAAAAAAAAAAA/CAAAAAAA AA	CACTAGAAGCGCGTGT CAGA	TTGTGAACGCCAATGG TAAA	60.3	924	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_25954241	Ca4	25954241	A/ATTC	TTGCAAGAATCCATCC ATCA	TTGAGCATTTCAGCAG AAGC	60.0	493	INTERGENIC	--	--	--
Ca4_P1_25956176	Ca4	25956176	ATTTTTTTTTTTT/ATTTTTTTTTT	ATATTGGGACCGTTA AGGG	TTTGGGTGTGTTGACT GCAT	59.9	784	INTERGENIC	--	--	--
Ca4_P1_25957806	Ca4	25957806	A/AGT	CCTGGCTTACGTCAAT TCATC	TCTTTCGTTTGGGTGG AAGT	59.6	269	INTERGENIC	--	--	--
Ca4_P1_25958010	Ca4	25958010	TTATATATATAT/TTATATATATAT	TCGGGGAAATCAATTC GTTA	TGGAAGTCATCGACCC ATTT	60.3	673	INTERGENIC	--	--	--
Ca4_P1_25958150	Ca4	25958150	TTAAG/TTAAGTAAG	TCGGGGAAATCAATTC GTTA	TGGAAGTCATCGACCC ATTT	60.3	673	INTERGENIC	--	--	--
Ca4_P1_25958849	Ca4	25958849	AACACA/AACA	CAATGGGTGATGAC TTCC	TTGCCCTCTTCTTCAT CTTCA	60.3	473	INTERGENIC	--	--	--
Ca4_P1_25959897	Ca4	25959897	AAACAA/AAA	CGTAATTTGGCCCC TTAT	CTGATTCGTAATTTTG GCCG	60.0	625	INTERGENIC	--	--	--
Ca4_P1_25962811	Ca4	25962811	GTATATATAT/GTATATATATAT	TGGTTGGAAGCTCCAG AAGT	GAAAAGGTGAGGAATC GCTG	59.8	275	DRR	Ca_16607	--	B3
Ca4_P1_25962938	Ca4	25962938	CTT/CT	TGGTTGGAAGCTCCAG AAGT	GTGGTAAGTTGTGTGG CCCT	59.8	577	DRR	Ca_16607	--	B3
Ca4_P1_25963240	Ca4	25963240	GAAAAAA/GAAAAAAA	AATCCAAGCACCAAAA GCAC	GTGGTAAGTTGTGTGG CCCT	60.1	353	DRR	Ca_16607	--	B3
Ca4_P1_25963279	Ca4	25963279	TTTTATTT/TTTT	AATCCAAGCACCAAAA GCAC	GTGGTAAGTTGTGTGG CCCT	60.1	353	DRR	Ca_16607	--	B3
Ca4_P1_25963788	Ca4	25963788	TAAA/TAAAA	GCCACACAACCTACCA CCCT	TCAAGGCCGAAGAAGA AAAA	59.9	855	DRR	Ca_16607	--	B3

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_25965378	Ca4	25965378	ACCCCC/ACCCCC	GGTGTGCAAGAGGACT GGAT	GGTCCAAGAATATGCC CAAA	60.1	481	INTERGENIC	--	--	--
Ca4_P1_25966069	Ca4	25966069	ATTT/ATTTT	GGCATGGACAACCTTCA CCTT	CGAAATCCTCAAAATC GGAA	60.0	484	INTERGENIC	--	--	--
Ca4_P1_25967972	Ca4	25967972	ATTTTTTTT/ATTTTTTTTTT	TTGTACCCTTGTGCAAC CAA	TGGTTGGATACTTGCA ATGG	60.0	180	INTERGENIC	--	--	--
Ca4_P1_25968820	Ca4	25968820	GTTT/GTTT	TTCTTCTGCCAAAAAT GCT	CCTCAAGCAGACCTTT GGAG	59.8	412	INTERGENIC	--	--	--
Ca4_P1_25969511	Ca4	25969511	ACC/AC	TCCCTTGCCTCTAGCC AGTA	GCAGATGTTCTCAACA GCCA	60.0	350	INTERGENIC	--	--	--
Ca4_P1_25970159	Ca4	25970159	AC/A	TGGTTGGGTCTTGGTT TGTT	CACCTGCTATGGATGC AATG	60.2	709	INTERGENIC	--	--	--
Ca4_P1_25971096	Ca4	25971096	TAAAGTTCGAA/TAA	GGTTCACCCAAAGATG GCTA	ACGATCATCAAAGGGA TTGG	59.9	374	INTERGENIC	--	--	--
Ca4_P1_25971278	Ca4	25971278	GATTGAAGAA/GA	GCTTCGCCAAGCTTAC AATC	CCAACGATCATCAAAG GGAT	60.0	268	INTERGENIC	--	--	--
Ca4_P1_25975114	Ca4	25975114	TGGGG/TGGGGG	ACACATGTTGGCCAAT GAGA	GAGTCCGATTTCATG AGGA	60.0	621	CDS (FRAME SHIFT)	Ca_16608	--	--
Ca4_P1_25975332	Ca4	25975332	GTTTTTT/GTTTTTTTT	GCCAATGAGAAAAGAG ACGC	GAGTCCGATTTCATG AGGA	60.0	611	CDS (FRAME SHIFT)	Ca_16608	--	--
Ca4_P1_25978445	Ca4	25978445	CT/CTTT	TGCCTCAAAGGCTTCA TCTT	AGCACTCATCCTCGGG TAGA	60.0	435	INTERGENIC	--	--	--
Ca4_P1_25979689	Ca4	25979689	TG/TGG	GTCCTCGTCAGGAGT TGAG	CCACTGTTGCTGGCAG ATAA	59.8	707	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_25981495	Ca4	25981495	GCT/G	CCTTTGATGACCGTTG GAAT	GGTCCAGCAAAGTTGA AAGC	59.8	464	INTERGENIC	--	--	--
Ca4_P1_25983794	Ca4	25983794	A/A	TGACAACCCAGATTG TTGA	TGGGTCCATGTTCCAA TTTT	59.9	671	INTERGENIC	--	--	--
Ca4_P1_25984075	Ca4	25984075	TA/TAA	CGATTTTAAACAGCGT GGGT	TGGGTCCATGTTCCAA TTTT	60.0	276	INTERGENIC	--	--	--
Ca4_P1_25984201	Ca4	25984201	AG/A	CGATTTTAAACAGCGT GGGT	TTTGGGCTTTGCTCTC AAAT	60.0	539	INTERGENIC	--	--	--
Ca4_P1_25984442	Ca4	25984442	TGAGAG/TGAGAGAG	AGATCCTGTTGACACG GCTT	CGGTTGTTGTTGTGAT TTGC	59.7	524	INTERGENIC	--	--	--
Ca4_P1_25985391	Ca4	25985391	TCAC/TCACGATCACCAC	CCAAGGTGCAATCTCT CACA	TAGCGGTGGGATAA CTCTG	59.8	875	INTERGENIC	--	--	--
Ca4_P1_25986950	Ca4	25986950	CATATATATA/CATATATATATATA	TCAGTAGCATCGTAGC GTGG	TGAGCTGCGACGAGA GTAGA	60.0	379	INTERGENIC	--	--	--
Ca4_P1_25987244	Ca4	25987244	AATATATATAT/AATATATATATATATA TAT	TCTACTCTCGTCGCAG CTCA	TGCTTAGGCATTACC CCAG	60.0	250	INTERGENIC	--	--	--
Ca4_P1_25987622	Ca4	25987622	TCC/TC	TTCAACTGGGGTAAAT GCCT	TGTTCTAGTCCAGATC AAAACGA	59.4	323	INTERGENIC	--	--	--
Ca4_P1_25988978	Ca4	25988978	AAAGAAGAAGAAG/AAAGAAGAAG	AAGCTGGATGTGGACT TTGC	AGTTCCAATTGGCCTC CTTT	60.3	404	INTERGENIC	--	--	--
Ca4_P1_25989281	Ca4	25989281	TCCCC/TCCC	AAGCTGGATGTGGACT TTGC	AGTTCCAATTGGCCTC CTTT	60.3	404	INTERGENIC	--	--	--
Ca4_P1_25989322	Ca4	25989322	GTTTTT/GTTTTTT	GTACGCGATCTAGTCC CCAA	CCGGGGAGAAAAGTTC TAGTG	60.1	168	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_25994447	Ca4	25994447	G/GT	ATCCACAACCGAGTTA GCGT	TACCCACACCCCTCAA TCTT	59.6	389	INTERGENIC	--	--	--
Ca4_P1_25994543	Ca4	25994543	GTTTTTT/GTTTTTTT	TTAAGATTGAGGGGTG TGGG	CACCACTTCATTCGGG ACTT	59.8	516	INTERGENIC	--	--	--
Ca4_P1_25994721	Ca4	25994721	AC/A	TTAAGATTGAGGGGTG TGGG	CACCACTTCATTCGGG ACTT	59.8	516	INTERGENIC	--	--	--
Ca4_P1_25995802	Ca4	25995802	ATTTT/ATTT	CCCTAAATCAAAGCAG CGTC	TGCACTGTTGTTGTTG CTGA	59.8	470	INTERGENIC	--	--	--
Ca4_P1_25995977	Ca4	25995977	GTTTTTTTTT/GTTTTTTTTT	CCCTAAATCAAAGCAG CGTC	TGCACTGTTGTTGTTG CTGA	59.8	470	INTERGENIC	--	--	--
Ca4_P1_25996238	Ca4	25996238	GAAAAAAAAA/GAAAAAAAAA	CCCTAAATCAAAGCAG CGTC	AACGTTGGAGGAACAA AACG	59.8	949	INTERGENIC	--	--	--
Ca4_P1_25998410	Ca4	25998410	TTA/TTATGTA	TATTGTTGCCCTGCAT GTGT	TGGAGGCCAATTTGTT TCTC	60.0	531	DRR	Ca_16609	--	B3
Ca4_P1_26002044	Ca4	26002044	ATTTTTTT/ATTTTTT	TAGGGAGGATGCATTT TTGG	TGCCTGTGATCCAGGA ATTT	59.9	809	INTRON	Ca_16610	C	--
Ca4_P1_26009631	Ca4	26009631	A/AC	GGAACCTTCTTTGTGG CAGC	TATTCCTCTGATTGGG TCGC	60.0	148	INTERGENIC	--	--	--
Ca4_P1_26011159	Ca4	26011159	AT/AACAGAACTCCT	GAAACCCCAACAACAA ATGG	AGCATCATGGATTTCT TCCG	60.1	438	DRR	Ca_16611	C	--
Ca4_P1_26014657	Ca4	26014657	TAAAAA/TAAAAAA	CGATCGACCAAGGTTT TTGT	AGGGTTGGAATTTCAA GAATC	60.0	385	INTERGENIC	--	--	--
Ca4_P1_26015617	Ca4	26015617	AATAAATATA/AATA	TGCGAGGGCTAGCTTA AAAA	TGAGACAAAAGTTTGC GGTG	60.1	635	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_26018351	Ca4	26018351	TAAAAAAAA/TAAAAAAAA	AGAACATGGTGGATGC ACAG	TCCAAGAGCTTGGTCT GACA	59.6	373	INTERGENIC	--	--	--
Ca4_P1_26020819	Ca4	26020819	GAAAAAA/GAAAAAA	CGTTTGCAATTTCTTT GGG	TGGCAATATGTCGTTG AGGA	60.5	716	INTERGENIC	--	--	--
Ca4_P1_26030952	Ca4	26030952	A/ACAAAC	CCGTACCGTTTACCA GGTG	ACCGAATTTACTCACG GTGC	60.3	806	INTERGENIC	--	--	--
Ca4_P1_26032276	Ca4	26032276	TAAAAAAAAA/TAAAAAAAAA	CCGAGCCAAATCCAA AATA	AGAAATGGACATGCA AGGG	59.9	357	INTERGENIC	--	--	--
Ca4_P1_26051855	Ca4	26051855	CTTTTTTTTTTT/CTTTTTTTTTT	TTTAACGGACGTGTA GGGC	CTTCCACGGGATGTGT TTCT	60.0	448	INTERGENIC	--	--	--
Ca4_P1_26058753	Ca4	26058753	TAAA/TAAA	AGGAACCAATCCTACC AGCC	TCTGGTCATGCATCCT TTGA	60.3	433	INTERGENIC	--	--	--
Ca4_P1_26065058	Ca4	26065058	TTAATAATAATAATAATAATA/TTA ATAATAATAATAATAATAATA	CTCTCTGGAGGATTCA TCGC	TTGTTCCGAAAACCT GAGG	59.9	248	INTERGENIC	--	--	--
Ca4_P1_26074274	Ca4	26074274	C/A/C	AGACCGCATTGTGAAC TGTG	TTTGCTTGCTGAGTGA TTGG	59.8	235	INTERGENIC	--	--	--
Ca4_P1_26074517	Ca4	26074517	GTTTA/GTTTAAATAAAATATTTTA	CCAATCACTCAGCAAG CAAA	CGAAGCATCCTGCATT TAAG	60.0	354	INTERGENIC	--	--	--
Ca4_P1_26075846	Ca4	26075846	TAAAAA/TAAAAA	TTTAACAAATCAAACA AACAGGA	AAGTGAAAAATATGTG TCCCGTACT	57.9	220	INTERGENIC	--	--	--
Ca4_P1_26076803	Ca4	26076803	TAAAAAAAAA/TAAAAAAAAA	ACTTGGCCCTTATTTG TCATT	TGTGTCATTTGTTACG TGTTTTTG	57.6	480	INTERGENIC	--	--	--
Ca4_P1_26078815	Ca4	26078815	GTTTTTTTT/GTTTTTTTTTTT	TTATTGTGAGTCCGTG CAGC	GCTTTCAGACAAACCC TTGG	59.9	348	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_26091418	Ca4	26091418	CATATATATATAT/CATATATATATAT T	AGGTGCATTTCTGAAG GTGG	GGGGCATTTTGTGCA TATT	60.1	729	INTERGENIC	--	--	--
Ca4_P1_26091461	Ca4	26091461	GAAAAAAAAA/GAAAAAAAAA	AGGTGCATTTCTGAAG GTGG	GGGGCATTTTGTGCA TATT	60.1	729	INTERGENIC	--	--	--
Ca4_P1_2609181	Ca4	2609181	T/TGTGCTATA	GCTTCTGCTAGGCATC CATC	ATGCATGTGCTGATGC TTGT	59.9	907	DRR	Ca_12062	--	--
Ca4_P1_26091969	Ca4	26091969	CTTTTTTTTT/CTTTTTTTTT	CACCCAATCAATTGTG ATGC	TGATAGCCCCACATGC TACA	59.8	369	INTERGENIC	--	--	--
Ca4_P1_26094743	Ca4	26094743	AATATATATATATATATATATATATA /AATATATATATATATATATATATAT ATATA	AGGATCTTGATAGGGA CGGG	ATCTTAAAGCTCGGA GGGC	60.3	115	INTERGENIC	--	--	--
Ca4_P1_26096805	Ca4	26096805	ATTTTTTT/ATTTTTTT	AATCACTTGACCACAT GCCA	TGTTGGTGATGAACCA AGATAAA	60.0	700	INTERGENIC	--	--	--
Ca4_P1_26108181	Ca4	26108181	CTTTTTTTTT/CTTTTTTTTT	TATGGATCTCTTGGG CCAG	TGCACTGCTAATTGCC TCTG	60.0	785	INTERGENIC	--	--	--
Ca4_P1_26110333	Ca4	26110333	TCCC/TCCCC	CCAACAATCTCCCCCT TTTT	GCATCTGGTTGCAGTT CTCA	60.2	583	INTERGENIC	--	--	--
Ca4_P1_26118906	Ca4	26118906	CTTTTTTTTT/CTTTTTTTTT	CTGGATTCCAACAATC TCCC	TTCTTTGCTTTTGCGC TTTT	59.3	851	INTERGENIC	--	--	--
Ca4_P1_26123905	Ca4	26123905	GCACACACACACAC/GCACACACA CACAC	TTGGATTAGCCTGAAA TCGG	ATGGCTACACCAATGC ATCC	60.0	170	INTERGENIC	--	--	--
Ca4_P1_26135507	Ca4	26135507	CAGCTAG/CAG	TCCACAAATAATGCAA CACAAA	ATGCCATATCTCCCTG CTCA	59.0	700	INTERGENIC	--	--	--
Ca4_P1_26169276	Ca4	26169276	ATTTTTTT/ATTTTTTT	TTTTTGTTTGCCCTTT TGG	TTAAAGCGTGAAAA CGGA	60.0	130	INTRON	Ca_16612	--	HD-ZIP

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_26176783	Ca4	26176783	TAAAAAAAAA/TAAAAAAAAA	CACAATCAATCACGCC CTTA	TGTCATTTTGGCGTA GTGC	59.5	500	INTERGENIC	--	--	--
Ca4_P1_26176935	Ca4	26176935	GAAAAAAA/GAAAAAAA	CACAATCAATCACGCC CTTA	TGTCATTTTGGCGTA GTGC	59.5	500	INTERGENIC	--	--	--
Ca4_P1_26199378	Ca4	26199378	GAAAAAAA/GAAAAAAA	TTTTCGGATTAAAGG GCAA	CAATGCCATTGACAT CATC	59.5	166	INTERGENIC	--	--	--
Ca4_P1_26201717	Ca4	26201717	AATTATTATTATTATTATT/AATTAT TATTATTATTATTATTATT	TCGCTAAGGAATTAGG GCAA	TCCCTGGGAATCCAT ATCA	59.8	738	INTERGENIC	--	--	--
Ca4_P1_26203930	Ca4	26203930	TTATATATATATATAT/TTATATATAT ATATATATATATAT	TTGGAAATAAGGACAA AACACC	TCCAAATTTGCTGGAA TCCT	58.0	626	INTERGENIC	--	--	--
Ca4_P1_26204274	Ca4	26204274	CAAAAAA/CAAAAAA	GAACATGAGAAGGCAAA TTTCG	AAGGCGTTTACCCAC AATG	59.7	432	INTERGENIC	--	--	--
Ca4_P1_26230345	Ca4	26230345	GTTTT/GTTT	CCTACATGCTTAGCTT CGCC	GAGTGTATGCCGCAA GGGT	60.0	676	DRR	Ca_16615	F	--
Ca4_P1_26232772	Ca4	26232772	T/TG	TAGCAGCCATTTCCCA AATC	GAGCAGGACTTTAGGA GCCA	60.0	443	INTERGENIC	--	--	--
Ca4_P1_26236726	Ca4	26236726	TAAAAAAAAA/TAAAAAAAAA	GTTACGATTGTGTCG GCCT	TAATCTCACTGCGCAC CTTG	60.0	368	INTERGENIC	--	--	--
Ca4_P1_26251759	Ca4	26251759	CTTTTTTT/CTTTTTTTTT	TAAAACGCAATCGGAA GACC	GAGAAACTTCCGCTG CTTG	60.1	545	INTERGENIC	--	--	--
Ca4_P1_26251857	Ca4	26251857	ATTTTTTTTT/ATTTTTTTTTTT	AGCTTTCATGTAACAC CCCG	GCCCTCAGATGAGAGT CAGG	60.0	453	INTERGENIC	--	--	--
Ca4_P1_26276734	Ca4	26276734	ATAATTAA/ATAA	GGTGCTACAGTGTCGA AGCA	TGCATTTTACAGCGCT TTTG	60.1	725	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca4_P1_2628635	Ca4	2628635	TTTTATTATTATTATT/TTTTATT ATTTATTATTATT	TGGATTCCGGATCAAGG AAAG	TTTATCCCCCAAAAG AGGG	60.0	468	INTRON	Ca_12066	A	G2-like
Ca4_P1_26302087	Ca4	26302087	TAAAAAAAA/TAAAAAAAAA	AGCTTCCCCAGTACT GTCA	TGACGCGTCCAAATT ATCA	59.7	494	INTERGENIC	--	--	--
Ca4_P1_26304368	Ca4	26304368	ATTTTTTTT/ATTTTTTTT	CCGATTAACTTAAC GCCA	TTTAAAGTCCGACCC ATGA	60.0	508	INTERGENIC	--	--	--
Ca4_P1_26304414	Ca4	26304414	GAAAAAAAA/GAAAAAAAA	CCGATTAACTTAAC GCCA	TTTAAAGTCCGACCC ATGA	60.0	508	INTERGENIC	--	--	--
Ca4_P1_26308021	Ca4	26308021	CTTTTT/CTTTTT	ATAAACATCATCGGG CGAC	TTCAGTGGCATTGAGA CATTG	59.8	405	DRR	Ca_25307	S	--
Ca4_P1_26313553	Ca4	26313553	TAAAAAAAA/TAAAAAAAAA	TGAGGTATGCCAAG AAGG	TTTTGAAACATGAATT CGGA	60.1	319	INTERGENIC	--	--	--
Ca4_P1_26326139	Ca4	26326139	GAAAAAAAA/GAAAAA	CTCCAACAGCATCAAT TCCA	GATCCTGGGATTGTGA GCAT	59.6	724	DRR	Ca_25306	R	--
Ca4_P1_26343731	Ca4	26343731	CG/C	GCTGTGGAAGTGTGA AGCA	GGCTTTTCATCAACAA AGCA	60.0	224	DRR	Ca_25304	S	--
Ca4_P1_26354768	Ca4	26354768	AGGG/AGGGG	TGCTGGCAGTTTATG TTTG	TCACTGCCCTTCCTTAC GAGG	59.7	534	DRR	Ca_25303	I	--
Ca4_P1_26363618	Ca4	26363618	T/TTTAC	GCCAAAATTCCTTCG TTGA	ATTCCCCAAGAACATC ACCA	60.1	613	INTERGENIC	--	--	--
Ca4_P1_26363648	Ca4	26363648	CCTC/CCTCTC	GCCAAAATTCCTTCG TTGA	ATTCCCCAAGAACATC ACCA	60.1	613	INTERGENIC	--	--	--
Ca4_P1_26366710	Ca4	26366710	ACT/A	TCATTGGTCCATCCCA TTTT	ACATCAGGCCTGTTAT TGCC	60.0	365	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_26368645	Ca4	26368645	ATTT/ATTTT	AACTTTGCAAATGGAC GGAC	TCCATTCAAATGCAC AGAA	60.0	545	INTERGENIC	--	--	--
Ca4_P1_26371050	Ca4	26371050	T/TA	TTCATTAGAAGAAACG ATGTGC	AGGCGCGTAAAAAGAC AAAA	57.1	638	INTERGENIC	--	--	--
Ca4_P1_26381536	Ca4	26381536	TGGG/TGGGG	GGACATCTCCATCTCC CAGA	GCTGAAGAATTTTGCC GAAG	60.0	584	INTRON	Ca_25302	--	SAP
Ca4_P1_26389354	Ca4	26389354	TTATATATATATAT/TTATATATATATAT AT	AGGAAGAGTGGAGTTG CGAA	TCATATTCGGTAGCCG TTCC	60.0	759	INTERGENIC	--	--	--
Ca4_P1_26410577	Ca4	26410577	TGGAGGAG/TGGAG	ATGGCATGTGATTGAG TGGA	GATGACTCTTCGTGGG GGTA	59.9	425	INTERGENIC	--	--	--
Ca4_P1_26417128	Ca4	26417128	CAAAA/CA	AGGAGGTAGGGACTGT CGGT	TTGCATGATAAGGGTT GCAG	60.0	538	DRR	Ca_25299	--	--
Ca4_P1_26461127	Ca4	26461127	CAAAAA/CAAAA	TTTGCCCATGTTTTCT CTC	GGGCGTAAATCCAAC ACAT	60.1	486	INTERGENIC	--	--	--
Ca4_P1_26468706	Ca4	26468706	CTCGATTCTGA/CTCGATTCTGATTCTGA	ATCTTCCCCTCACTAA ACCT	CTTCGCAGAAGGGCTA AATG	60.0	362	INTERGENIC	--	--	--
Ca4_P1_26483173	Ca4	26483173	TAAAAAA/TAAAAAA	TTTTGAAAACCAATGCA CCA	CGCTATATCACAGCTT GGCA	59.9	413	INTRON	Ca_25006	O	C2H2
Ca4_P1_26489826	Ca4	26489826	AC/A	TTGGTTGATCGGCTAA TTGA	TCCGAGTAACCCGTTT TGAC	59.1	435	INTERGENIC	--	--	--
Ca4_P1_26493282	Ca4	26493282	TAAAAA/TAAAAA	ATTAATGGCTTCGGCA CAAC	CCTTAGCCGTTTTCGA ATGT	60.0	327	INTERGENIC	--	--	--
Ca4_P1_26495554	Ca4	26495554	GAAAGTTGTTT/GAAAGTTGTTCAAAG TTGTTC	AACGATTATCTGGT CCCC	CCCGAATACAAACCA AGTC	60.0	844	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_26507557	Ca4	26507557	AATATATTATA/AATATATTATATT TATA	AAAAACACTTCTCGC TTGG	CGTATTCAGATGGCTC CGTT	60.3	762	INTERGENIC	--	--	--
Ca4_P1_26515466	Ca4	26515466	ATTTTTTTTT/ATTTTTTTTT	AGGCTTCTAGACCGGA CCAA	TGCAAGCGTGTTAAG GATG	61.1	677	INTERGENIC	--	--	--
Ca4_P1_26519944	Ca4	26519944	CATTATTATTATT/CATTATTATTA TT	GGCAGCGGTACGTA AAATA	CATTGTGCAACAATG AGGG	60.0	414	INTERGENIC	--	--	--
Ca4_P1_26523546	Ca4	26523546	GTTTTTTTTT/GTTTTTTTTT	TTTTCTTTCGTTTCATG GCA	CAACCTGGCCCTCTAT TTCA	59.3	806	DRR	Ca_25004	P	--
Ca4_P1_26529457	Ca4	26529457	ATCTCTCTCTCTC/ATCTCTCTC TCTCTC	ATAGCAGCAATTCCA TCCG	GTCCACGAAGTAAGT CCCA	60.1	286	INTERGENIC	--	--	--
Ca4_P1_26542242	Ca4	26542242	TAAAAA/TAAAAA	GCACGGAAGAAGACGA GTTT	GGCACACGTAATGCA CATC	59.5	185	INTERGENIC	--	--	--
Ca4_P1_26582216	Ca4	26582216	TAAAA/TAAA	GGAGAAGGAGGAGA AATGG	TGAGGAGACACATGCT GAGG	60.0	881	DRR	Ca_25001	--	--
Ca4_P1_26597381	Ca4	26597381	CAAAAAAAAA/CAAAAAAAAA	TCTCTGCAAAAGGCA ACCT	CCAGAATGTGCTCCTT CACA	60.0	718	INTERGENIC	--	--	--
Ca4_P1_26597868	Ca4	26597868	CTTTTTTTTT/CTTTTTTTTT	TGTGAAGGAGCACATT CTGG	TTCCGTTAAGCACATG TTGG	59.8	425	INTERGENIC	--	--	--
Ca4_P1_26608127	Ca4	26608127	TTATATA/TTATATATA	TTTGTTTTGGTCTCGC AATG	CAAGATTTTGATGTTG CAGGC	59.7	629	DRR	Ca_25000	E	bHLH
Ca4_P1_26616894	Ca4	26616894	AACATTTTATACATTTTATACATTTTAT ACATTTTA/AACATTTTATACATTTTAT ACATTTTATACATTTTATACATTTTA	TTGCTGGATTGAAAC CCTC	CCAAAACCCATCATAA TCCG	60.1	881	INTRON	Ca_25000	E	bHLH
Ca4_P1_26620467	Ca4	26620467	A/AGTAATT	CCGAAACCGAACA GATT	TGGGAACAAAACACAG CAAG	60.0	819	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_26622087	Ca4	26622087	ATTTTTTTTT/ATTTTTTTTT	TACCCCAATCAAATG ACCC	TGCACCAACAGTATCG AACAA	59.5	363	INTERGENIC	--	--	--
Ca4_P1_26623137	Ca4	26623137	TAAAAA/TAAAAAAA	TGGCTGTTGTCCATTG TGTT	CTTGAGGTTTTGTCCC TCCA	60.0	954	INTERGENIC	--	--	--
Ca4_P1_26624241	Ca4	26624241	C/CG	CCAAAAGTCCAACGAT TGCT	TGTGCATGGTGCTTTT TGAT	60.1	447	INTERGENIC	--	--	--
Ca4_P1_26648113	Ca4	26648113	ATT/ATCTGAATTATCTT	TCGAACAGAAACCTGA GCCT	GATTCGGGAGTTGGTT GATG	60.0	440	INTRON	Ca_24999	L	--
Ca4_P1_26648267	Ca4	26648267	ATTTTTTTTT/ATTTTTTTT	TCGAACAGAAACCTGA GCCT	GATTCGGGAGTTGGTT GATG	60.0	440	INTRON	Ca_24999	L	--
Ca4_P1_26652549	Ca4	26652549	AATATATATATATA/AATATATATAT ATATATA	AAGAGGTTGATCGGCG ATAG	TGGTTCGGGTATTGGA TTTT	60.2	222	INTERGENIC	--	--	--
Ca4_P1_26653534	Ca4	26653534	GAAAAAAAAA/GAAAAAAAAA	TGTGGCATTGAGGTT GTGT	CCCAAAATTTTAGG GGCT	60.0	497	INTERGENIC	--	--	--
Ca4_P1_26653751	Ca4	26653751	TTTTTTTTTAATTTTTTTA/TTTTTTT TA	AGTCCACATGTTGGAG GGAC	AGATTCAGGCACAACC AACC	59.8	568	INTERGENIC	--	--	--
Ca4_P1_26662668	Ca4	26662668	ATTTTTTTTT/ATTTTTTTTT	GTGACGTGGGGAGT TAAGA	CAACGACCTTAACATT TGTTG	60.0	799	INTERGENIC	--	--	--
Ca4_P1_26664091	Ca4	26664091	TAAAAAAA/TAAAAAAA	TGATACAATTGATTCG GCCA	TTTTTGTACGCGGAGC TCTA	59.9	371	INTERGENIC	--	--	--
Ca4_P1_26665824	Ca4	26665824	TA/T	TCGCGTGGCAACAATA TTTA	TGAATTTGACATCATTT TGTTTGA	60.1	387	INTERGENIC	--	--	--
Ca4_P1_26666119	Ca4	26666119	CTTTTTTT/CTTTTTTT	ACGCAAAACACAAGAT CGGT	TTGGTCCAAATGGTAA GGGA	60.6	738	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_26671228	Ca4	26671228	TAAAAA/TAAAA	CGTTTATACAGTAAAA TCGA	CATTTTACCCACAT TCGC	57.9	484	INTERGENIC	--	--	--
Ca4_P1_26672746	Ca4	26672746	ATTTTTTTTT/ATTTTTTTTT	TGCTCAATTGAACCTG GAGA	CCATCCATCTGGGACA ATTG	59.4	523	INTERGENIC	--	--	--
Ca4_P1_26672920	Ca4	26672920	CTTTT/CTTT	ACGGATGTCGTAGGGT GCTA	AAGACCCGAATCAGCA TTTG	60.5	438	INTERGENIC	--	--	--
Ca4_P1_26739311	Ca4	26739311	TAAAAAAAAA/TAAAAAAAAA	TCCATGATTGGTGGT TCCT	TTCTTCAGCAATGGTC CTCC	60.2	492	INTERGENIC	--	--	--
Ca4_P1_26740649	Ca4	26740649	TAATTAATTAAT/TAATTAATTAATCAA TTAATTAAT	TTGACCACAGGTCCAC AAGA	TTTTAGTGCGCATT ACCC	60.1	250	INTERGENIC	--	--	--
Ca4_P1_26741168	Ca4	26741168	GATAT/GATATGATATATATATAT	GGGTAAATGCGCACCT AAAA	ACTGAACGTGCAACAA CTGC	60.0	660	INTERGENIC	--	--	--
Ca4_P1_26746302	Ca4	26746302	ACCCCC/ACCCCC	GATCAATGAAGAGCCC CAAA	CGGACCATCCGTGATA AAGT	60.0	777	INTERGENIC	--	--	--
Ca4_P1_26748572	Ca4	26748572	GAAAAAAAA/GAAAAAAAA	GGGTGTGAGTTGAAAT GACG	TTTGTGCAACAACAC CATT	59.0	858	INTERGENIC	--	--	--
Ca4_P1_26751558	Ca4	26751558	CAAAA/CAAA	TGGGGGAGCTTGAAAT AAAA	TGATATGCGGACAGTG TCAAA	59.5	235	INTERGENIC	--	--	--
Ca4_P1_26752184	Ca4	26752184	ATTTTTTTTT/ATTTTTTTTT	TTGGGATCATAGAATC ATTTGGT	TGATACGGTCACTCC AAAG	59.6	475	INTERGENIC	--	--	--
Ca4_P1_26752542	Ca4	26752542	CATATATA/CATATATATA	TGAAGACTTTGGAGTG ACCG	CCGAAGATTTTGCAG TGTT	58.9	267	INTERGENIC	--	--	--
Ca4_P1_26753050	Ca4	26753050	GAA/GAAA	AACACTCGCAAATCT TCGG	ATTGTTTGAGTTGCCG CTCT	60.2	623	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_26753796	Ca4	26753796	G/GATTTA	AGAGCGGCAACTCAAA CAAT	TGCAGGGGACATCTCT TACC	59.9	613	INTERGENIC	--	--	--
Ca4_P1_26763494	Ca4	26763494	TAAAAAAA/TAAAAAAA	AAAAATACGCGTCAT TTCATT	TCGCTCAAAAACACAA CGAG	59.8	572	INTERGENIC	--	--	--
Ca4_P1_26765991	Ca4	26765991	GAAAAAAAA/GAAAAAAAA	AGTTTTGGCCCTTTT GATT	AAAACTCGCACACAA CTGTTA	59.8	508	DRR	Ca_20437	K	MYB
Ca4_P1_26766647	Ca4	26766647	ATTTTTTT/ATTTTTTTT	AACAGTTGTGTGCGAG TTTTT	TGTAAGGGCAAAAGCA AACA	57.5	683	DRR	Ca_20437	K	MYB
Ca4_P1_26769049	Ca4	26769049	TC/T	TTGTGGTGCCTAAC CCTC	ATACGGGTAGCGGC TATTT	60.0	654	INTERGENIC	--	--	--
Ca4_P1_26774204	Ca4	26774204	ATTTTTTTTTTT/ATTTTTTTTTTT TTTT	CGGAAATCTTTTGC TACC	CGAATTCGAACTCAAA ACCTC	59.6	441	INTERGENIC	--	--	--
Ca4_P1_26784175	Ca4	26784175	ATTTTTTT/ATTTTTTTT	CCCCCAATACCTAATT TTCCA	CGTTTAGAATGGTCGT CGCT	59.1	450	INTERGENIC	--	--	--
Ca4_P1_26787145	Ca4	26787145	CTTTTTTTTT/CTTTTTTTTTT	GCGACTATGTCCGTCA ACTG	TCGAAGCATGAAAGAA AAGGA	59.3	803	INTERGENIC	--	--	--
Ca4_P1_26795108	Ca4	26795108	TAAAAAAAAA/TAAAAAAAAA	AATTGAAAAGCTTGAG CCGA	GCTCCATCAACAAGT CAAAGA	60.0	609	INTERGENIC	--	--	--
Ca4_P1_26805280	Ca4	26805280	TAAAAAAAAA/TAAAAAAAAA AAA	AAACATCATCCAAATC ATCCA	AAGCTAGCCATCCTCA ACGA	59.1	389	DRR	Ca_20438	--	--
Ca4_P1_26816326	Ca4	26816326	CGGG/CGGGG	TTTCCCGACTTGGTCC TTTA	GCTTTTCGTTTCTTGT TCGC	59.5	639	INTERGENIC	--	--	--
Ca4_P1_26836955	Ca4	26836955	CAAAAA/CAAAAAA	AGAAGGGGTTGGCTG TTTT	TCACTGCTCACTACCC ACCA	60.0	713	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_26847079	Ca4	26847079	AAAAATAAAATAAAATAAAATA/AAAAA TAAATA	GGAGAACGTTAAGGCA GCAG	GTGGTGTAAGTTTCGA TCCG	60.0	689	INTERGENIC	--	--	--
Ca4_P1_26847495	Ca4	26847495	A/A/C	AGCTTCAAGTCGGATC GAAA	AAAAATCTTGTGGGAA TAATTCAA	60.0	216	INTERGENIC	--	--	--
Ca4_P1_26850722	Ca4	26850722	TAA/TAAA	GGAGAACGTTAAGGCA GCAG	GTGGTGTAAGTTTCGA TCCG	60.0	726	INTERGENIC	--	--	--
Ca4_P1_26850744	Ca4	26850744	TTTATTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTAT ATTATTATTATTATTATTATTATTATTA	GGAGAACGTTAAGGCA GCAG	GTGGTGTAAGTTTCGA TCCG	60.0	726	INTERGENIC	--	--	--
Ca4_P1_26853441	Ca4	26853441	ATTTTTTTT/ATTTTTTTTT	TGAGATTGTCAATGTT GGCG	TGGAAATGAAATCTTG AGGTATGA	60.7	393	INTERGENIC	--	--	--
Ca4_P1_26876873	Ca4	26876873	ATTTTTTTTTT/ATTTTTTTTTTT	CCACCGTGTGCCTCT TATT	GCCAGAGAATGATCGA GAGG	60.0	439	INTERGENIC	--	--	--
Ca4_P1_2688293	Ca4	2688293	AT/A	AGCATGCTCCACAAA GGAT	TTGGAGGTTGTGTTGT TGGA	59.7	532	DRR	Ca_12072	--	--
Ca4_P1_26898145	Ca4	26898145	CTTTTTTTTTT/CTTTTTTTTT	CGAAACTCAAAACAA CGGG	CGGCCCAATTCAAACT AAAA	60.5	588	INTERGENIC	--	--	--
Ca4_P1_26903304	Ca4	26903304	T/TG	ACTCGATTGGTCCATG CTTC	ATGTTTTGGACGCACA CAGA	60.1	532	INTERGENIC	--	--	--
Ca4_P1_26905366	Ca4	26905366	TAAAAAAAAA/TAAAAAAAAA	TGAAGCCCAAAACTA ATCAAGA	ATTGCTCGGTCGGTTT AGTC	60.1	471	DRR	Ca_20443	R	G2-like
Ca4_P1_26908402	Ca4	26908402	CATATATATATATATATATA/CATAT ATATATATATATATATATA	CCTTATTGAGGCCGAA AACA	TGGTCGTATGGGTTT GGAT	60.1	379	INTRON	Ca_20443	R	G2-like
Ca4_P1_26918578	Ca4	26918578	GA/G	TTGTGCTGGTTACCTT GCTG	TGCCTCCATCATTCAA ACAA	59.9	370	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_26942878	Ca4	26942878	CTTTTTTTTT/CTTTTTTTTTT	CCACATGGTTGAGACT TGAGG	TGGGAGGGAGCTCTA AGATG	60.6	559	INTERGENIC	--	--	--
Ca4_P1_26947230	Ca4	26947230	AATTATATTATATTATA/AATTATATTAT A	CGTTTCTTCAAAAAGC GAGC	AGACGAGTTCGACGA CATCC	60.1	513	DRR	Ca_20451	R	--
Ca4_P1_26966651	Ca4	26966651	TAAAAAAA/TAAAAAAA	GCATAAGCGAATGTGA GAAGC	CCAACAATCACAATTC AACTCG	60.0	259	INTERGENIC	--	--	--
Ca4_P1_26967509	Ca4	26967509	TAAAAAAA/TAAAAAAA	TTGGTGGGTTGTGTGT AATGA	TGAATGGGAAATGGAG GAAG	59.7	582	INTERGENIC	--	--	--
Ca4_P1_26991333	Ca4	26991333	ATTTTTTTTT/ATTTTTTTTTT	ACAAGGAAGCGCACCT CTAA	GTGCGACGAGCAAGA ATGTA	60.0	762	INTERGENIC	--	--	--
Ca4_P1_27007761	Ca4	27007761	TAAAAAAA/TAAAAAAA	TGTGATTCCTTGCTCG AGTG	TGCGCACATTATCAT TTAGTCA	60.0	445	INTERGENIC	--	--	--
Ca4_P1_27017251	Ca4	27017251	GTTTTTTTT/GTTTTTTTTT	CCTTTCATCTCAGGG ACAT	TGAGACCGGGTTTGA GTACC	60.1	453	INTERGENIC	--	--	--
Ca4_P1_27067931	Ca4	27067931	ATTTTTTTTT/ATTTTTTTTTT	AACCTCCATTAATTTT GCCA	CATTTGCAATTCAAGC GAAC	58.5	438	INTERGENIC	--	--	--
Ca4_P1_27074666	Ca4	27074666	GAAAAAAA/GAAAAAAA	ATTGGCATCAGAGCCA GTCT	TTTCCAAGAGAGCGC ATTT	59.8	566	INTERGENIC	--	--	--
Ca4_P1_27079794	Ca4	27079794	AAA/ACAA	AAACACTACCCGGCAT CAAG	CAATTTCTGCACTCT CGCA	60.0	516	INTERGENIC	--	--	--
Ca4_P1_27079917	Ca4	27079917	AA/AATATA	AAACACTACCCGGCAT CAAG	CAATTTCTGCACTCT CGCA	60.0	516	INTERGENIC	--	--	--
Ca4_P1_27087434	Ca4	27087434	TA/TAAA	TTATTGCGATGCCGAC TATG	AATGATGTGGCTGGGT TAGC	59.7	656	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_27139983	Ca4	27139983	ACC/AC	CGTTCGTCTTTTCCTC TTGC	CATGATTGAGGGGCAA ATCT	60.0	443	INTERGENIC	--	--	--
Ca4_P1_27149358	Ca4	27149358	ATTTTTTTT/ATTTTTTT	CGATGATGCTACCAGA GGGT	CGGGGATTCCCATATC ACTA	60.1	611	INTERGENIC	--	--	--
Ca4_P1_27163385	Ca4	27163385	GTTTTTTTTT/GTTTTTTTTT	TTGAACACACTAACCA CCCAA	TCCTGGTAAGGAATTG TGGG	58.9	450	INTERGENIC	--	--	--
Ca4_P1_27168549	Ca4	27168549	CAAAAA/CAAAAA	AGGGCCAAGGGACAAT AAGT	TGGTTGTGCAATGTC CCTA	59.8	523	INTERGENIC	--	--	--
Ca4_P1_27174775	Ca4	27174775	TTGTTTCAA/TTGTTTCAAAGGATG TTTCAA	ACCAAAAAGCTGGAGA GCAA	CCAAGCTCTTGGTGCT TGTT	60.0	512	INTERGENIC	--	--	--
Ca4_P1_27184150	Ca4	27184150	AAATAATAATAATA/AAATAATAAT AATAATAATA	TTTCTTGTTGCCTGG TGTG	TAGAAACCGGTTGCCA AGAA	59.7	744	INTERGENIC	--	--	--
Ca4_P1_27184445	Ca4	27184445	GAAAAAAAA/GAAAAAAAA	TGCAAAAATAACCTT GTGC	TAGAAACCGGTTGCCA AGAA	58.7	189	INTERGENIC	--	--	--
Ca4_P1_27184800	Ca4	27184800	CATTAATTAATT/CATTAATT	TTATCGTTTCTTGCCAA CCG	CAATTGCATGAAGGAG GGAT	61.0	502	INTERGENIC	--	--	--
Ca4_P1_27186691	Ca4	27186691	GTTTTTTTTT/GTTTTTTTTT	TTATTGGGATTGGATG CAGA	TTCTCACTTGACGTT TTTGAA	58.9	346	INTERGENIC	--	--	--
Ca4_P1_27193093	Ca4	27193093	GTTATTTTTATTTTTATTTTT/GTTA TTTTTATTTTTATTTTTATTTTT	GTAGAATGCCCAACA AAGC	TTTCATCTGCAATGT GTGA	59.6	463	INTERGENIC	--	--	--
Ca4_P1_27196099	Ca4	27196099	GAT/GATAT	CTGAAAACCTCACAGGT GCCA	TCTTCCTCTAACTCGC GGTC	59.9	591	INTERGENIC	--	--	--
Ca4_P1_27197635	Ca4	27197635	TAAAAAAAA/TAAAAAAAA	TTCAGGTTGCACCACA AAAC	TCAAATGCTACCGTTG GACA	59.6	691	DRR	Ca_20458	--	NF-YB

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_27198549	Ca4	27198549	ACCCCC/ACCCCCC	TGCTTCCAAAAATCATC GTG	AAGGCTTCGAAGGTTT GACA	59.7	520	DRR	Ca_20458	--	NF-YB
Ca4_P1_27217904	Ca4	27217904	CAAAAAAAAA/CAAAAAAAAAA	TGTAGTGGCATGTTT GCAT	TTTGGAGGACTTTTGG GTTG	60.0	662	INTERGENIC	--	--	--
Ca4_P1_27232925	Ca4	27232925	T/TG	CCAACGCTATTGGTT TCAG	TTGATTCTCTCATAC CTTGTA	60.5	475	INTRON	Ca_20460	--	--
Ca4_P1_27234831	Ca4	27234831	AGTTTGAAATGTTTGAAATG/AGTTTG AAATG	CTGGGAAGCCAGAAAA ATCA	ATGGTTGTGACCATGG GACT	60.2	384	INTRON	Ca_20460	--	--
Ca4_P1_27241081	Ca4	27241081	CTTTTTTTTT/CTTTTTTTTTTTTT	AAGGACCAAGTCGGGA AAAA	AGGTTTGTATGTGTTT GACGG	60.8	705	INTRON	Ca_20460	--	--
Ca4_P1_27258927	Ca4	27258927	ATTTTTTTTT/ATTTTTTTTT	AGCGCGGAGAGATAGT TGAA	TGGGTGACTTCATTTG GACA	60.1	393	INTERGENIC	--	--	--
Ca4_P1_27261165	Ca4	27261165	T/TC	CGTGGTTGCTCCAAT TTCT	AATTGAGCCAGAAAA CCCT	60.1	872	INTERGENIC	--	--	--
Ca4_P1_27267123	Ca4	27267123	TAAAAA/TAAAA	CCCTCAACTCACTGA GATCC	TGCATTGGTTGAATT TGGA	58.7	568	DRR	Ca_20461	R	--
Ca4_P1_27283830	Ca4	27283830	GTTT/GTTTT	TATTGGTCGTCAAGCA GCAG	TTTCCCAATCGATTG CTTC	60.0	681	DRR	Ca_20463	--	--
Ca4_P1_27285679	Ca4	27285679	G/GAA	TATTCGAGGGCGTAC CAAC	CCAGCCTACCCCTTTT ATCTG	60.0	549	INTERGENIC	--	--	--
Ca4_P1_2729716	Ca4	2729716	A/AGACATCAT	AGGGCTTGTAATGCCC TTTT	TTGGCTTCACAAGATA CCCC	60.0	654	INTRON	Ca_12075	Z	--
Ca4_P1_27312714	Ca4	27312714	ATA/ATAATTA	AGTGGATTTTGTGGCT GCTT	TGATGGCGACTCATTT TTCA	59.7	546	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_27314909	Ca4	27314909	C/CG	TGCACCTTCAATTGGC ATTA	TGGCCTTTGCTTCTTG AACT	60.1	452	INTERGENIC	--	--	--
Ca4_P1_27317731	Ca4	27317731	CAAAAA/CAAAA	GACATTTGCTCCAGTG ACCA	TGATGTCAAGTCTGGA AGCG	59.7	686	INTERGENIC	--	--	--
Ca4_P1_27322564	Ca4	27322564	ATTTTTTT/ATTTTTTTT	ATCCTAATCGGTAGGG GTGG	AGGAAATCCTCATGGT GCAA	60.0	685	INTERGENIC	--	--	--
Ca4_P1_27331831	Ca4	27331831	A/AG	CAACAATCCCAACCA ACAA	ATGGTGGTCAACGTCC CTTA	59.3	398	INTERGENIC	--	--	--
Ca4_P1_27332287	Ca4	27332287	TTGTGTGT/TTGTGT	TAAGGACGTTGACCA CCAT	GGGTGTGATGGGTAA ACCTG	60.2	379	INTERGENIC	--	--	--
Ca4_P1_27354720	Ca4	27354720	C/CA	TAGACGCAACAACG CAAC	CCCGATTGAGGAGTC GATTA	59.9	710	INTERGENIC	--	--	--
Ca4_P1_27354842	Ca4	27354842	TAAAAAAA/TAAAAAA	TAGACGCAACAACG CAAC	GAACTTGTGCTGTCCG GTTT	59.9	821	INTERGENIC	--	--	--
Ca4_P1_27355192	Ca4	27355192	CGGG/CG	TGCATAATCATTGCATT CACC	GAACTTGTGCTGTCCG GTTT	59.4	242	INTERGENIC	--	--	--
Ca4_P1_27357133	Ca4	27357133	GAAAA/GAAA	TTGATTTGGTGACAT CCAT	TAAAACCTGTCCCAA CCCC	59.8	561	INTERGENIC	--	--	--
Ca4_P1_27365094	Ca4	27365094	GAAAAAAAAA/GAAAAAAAAA	TTGCAATGGAAAAGGA GCTT	TAGCCATCTAACCATT CGGC	59.8	138	INTERGENIC	--	--	--
Ca4_P1_27365149	Ca4	27365149	AT/ATT	TTGCAATGGAAAAGGA GCTT	TAGCCATCTAACCATT CGGC	59.8	138	INTERGENIC	--	--	--
Ca4_P1_27367807	Ca4	27367807	CTTTT/CTTT	GCATCCTTGCTCACAA CTCA	TAAAGGCCCAAGAAG CAAA	60.0	415	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_27368649	Ca4	27368649	ATTTTTTT/ATTTTTTT	GGAAGACCATGTGCA AAAT	TTGTTCCAAGCCCTAA ATGC	59.8	543	INTERGENIC	--	--	--
Ca4_P1_27369042	Ca4	27369042	ATGTGTG/ATGTGTGTGTG	GCATTTAGGGCTTGGA ACAA	CTTTTGACAACACCA CCCA	60.1	378	INTERGENIC	--	--	--
Ca4_P1_27374248	Ca4	27374248	CTTTT/CTTTTT	GAGGCGGCAAAAATA TTGA	TGGAGAGTTTGTGCG AGTG	60.0	847	INTERGENIC	--	--	--
Ca4_P1_27376069	Ca4	27376069	TAA/TAAA	ATCCTCTCCATTCCT GCCT	TTGCTTTCACAGTCCA ATGC	60.0	304	INTRON	Ca_21323	--	--
Ca4_P1_27377254	Ca4	27377254	CT/CTGT	TAAAGGACTTCCGTT CGTG	TAGCAGACACCGCAT AGTG	60.1	587	DRR	Ca_21322	--	--
Ca4_P1_27379933	Ca4	27379933	CAAAAAA/CAAAAAAA	ATGGTACAAAGTGGA AGGC	GAGAAAAGCAGGGTG AATGC	60.0	748	DRR	Ca_21323	--	--
Ca4_P1_27380010	Ca4	27380010	ATTT/ATT	ATGGTACAAAGTGGA AGGC	GTGGACTGCAGTGGG TCTTT	60.0	909	DRR	Ca_21323	--	--
Ca4_P1_27383955	Ca4	27383955	GTTTTTTT/GTTTTTT	CGTCGATGTTGATTCC CTCT	TTTCGCATCTTGCTTC ACTG	60.1	927	INTERGENIC	--	--	--
Ca4_P1_27384260	Ca4	27384260	ATTTT/ATTT	GGTGCCATCACTGTAA GCAA	AAAGAGCGCGTTGTTG TTCT	59.7	699	INTERGENIC	--	--	--
Ca4_P1_27388787	Ca4	27388787	T/TA	TGTATTGTCGGATCTG CTGC	AGGCAAAAACAGGGA GGAAT	59.8	520	INTERGENIC	--	--	--
Ca4_P1_27395838	Ca4	27395838	TT/TTGT	AAGTTTTGGGTTGCTC ATGG	TTGTCCCCAAGCAACA ATTA	60.0	627	INTERGENIC	--	--	--
Ca4_P1_27398676	Ca4	27398676	CTTTTTTTTT/CTTTTTTTTT	GAGCGGGTCAATCATC CTAA	AATCCAGGGATCATGT TCGT	60.0	250	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_27402844	Ca4	27402844	TAAAAAAAA/TAAAAAA	CGAGTAGCGAAATCGA CCAT	TATTTTGCTTCGTTGT GCG	60.2	447	INTERGENIC	--	--	--
Ca4_P1_27403176	Ca4	27403176	GTTTTTT/GTTTTTTT	CGCAACAACGAAGCAA AATA	GCACGGTTGAGTGAAA AAGG	59.9	579	INTERGENIC	--	--	--
Ca4_P1_27403298	Ca4	27403298	CA/CAA	TAGATGGACGCAACAA CGAA	TGGTTGCCTCTGTTTT CCTC	60.3	854	INTERGENIC	--	--	--
Ca4_P1_27405634	Ca4	27405634	TTATATATATATAT/TTATATATATAT	GAGTTGGTATTTTCATT GTTCCG	GTGGTTAAGATGGACC ACCG	59.8	531	INTERGENIC	--	--	--
Ca4_P1_27405693	Ca4	27405693	TAAAA/TAAAAA	GAGTTGGTATTTTCATT GTTCCG	GTGGTTAAGATGGACC ACCG	59.8	531	INTERGENIC	--	--	--
Ca4_P1_27406421	Ca4	27406421	ACTCTC/ACTC	TTTGATGGTTCGAAAT CGTT	CGCAAAATAAGAGAAA AGACGC	58.1	593	INTERGENIC	--	--	--
Ca4_P1_27409351	Ca4	27409351	TG/TGG	TGGATTCAATGGGTT GGTT	AATTGGGCCCGGTAA GTATC	60.0	285	INTERGENIC	--	--	--
Ca4_P1_27409638	Ca4	27409638	TG/TGG	ATAGGGTTCAACGGGG TAGG	ATCGTGCTTATTGGGC AGTC	60.1	892	INTERGENIC	--	--	--
Ca4_P1_27474037	Ca4	27474037	TAAAA/TAA	GAACATTGAAACCTTA TGCCA	CCCACCTTTAAGCGCA CTTCT	59.8	413	INTERGENIC	--	--	--
Ca4_P1_27483001	Ca4	27483001	ATTTTT/ATTTTTTT	GAAATCCAAGCCATTC TCCA	TGGTTGCGGAAATAAA CACA	60.0	485	INTRON	Ca_21318	--	--
Ca4_P1_27491121	Ca4	27491121	ATTTTTTT/ATTTTTTT	ATGCAGCACCTAGTTT TGGC	CATGTTCTGTCGCTCTC ATGT	60.3	531	INTERGENIC	--	--	--
Ca4_P1_27491848	Ca4	27491848	ATTTTTTT/ATTTTT	TACGCGCTTTCTTTCAT TCA	CGTCCCTTCTCTCAA CATA	59.6	503	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_27496407	Ca4	27496407	CTG/CTGTG	TCGGAAACGAATTGGG AATA	GGAGTTTGAGAAAGG GGTCC	60.3	750	INTERGENIC	--	--	--
Ca4_P1_27499064	Ca4	27499064	CAAAAAAAAA/CAAAAAAAAA	TTTGAGCATGGCTGTT GAAG	ACTGGTGGGCGCTAG ATCAT	60.0	426	INTERGENIC	--	--	--
Ca4_P1_27503266	Ca4	27503266	AG/AGG	GGGGTTCTCCTTGAAC CACT	CCTGCCATTTTCTTCC AAAA	60.3	343	INTERGENIC	--	--	--
Ca4_P1_27506038	Ca4	27506038	CAA/CAAA	GAGATCATTGCATCCC AGGT	CACCTGAAACCCCTTT TGAA	59.9	819	INTERGENIC	--	--	--
Ca4_P1_27507215	Ca4	27507215	ATTT/ATT	TGGCCTAGCTGAAAGG AGAA	CCACCTTGCCTTTGAT AGGA	60.1	331	INTERGENIC	--	--	--
Ca4_P1_27512574	Ca4	27512574	CAAAAAAAAA/CAAAAAAAAA	GTTGGCTGGGTGAAA TCTA	ATACGCGCTCCCTTAA CTTG	59.9	806	INTERGENIC	--	--	--
Ca4_P1_27513599	Ca4	27513599	ATTTTTTT/ATTTTTTTT	TGATGGGGTTTTGTGT GAGA	ATGCATTACACGACCG CATA	59.9	612	INTERGENIC	--	--	--
Ca4_P1_27514350	Ca4	27514350	GTCTCT/GTCT	TGGTGCTCTCAACCAT TGAA	TTATCCATCGCCTAAG TCGG	60.2	754	INTERGENIC	--	--	--
Ca4_P1_27523055	Ca4	27523055	TTA/T	TCATGTGCTTGACAGT TTCT	CCTGCAAAATCAAAGG GAAA	59.7	552	INTERGENIC	--	--	--
Ca4_P1_27530914	Ca4	27530914	TCC/TC	TTCGAAGGTTGGGTTG AATC	CCATTAATTTTCGCCCC ATTA	59.9	635	INTERGENIC	--	--	--
Ca4_P1_27537181	Ca4	27537181	AGTGTGTGTGTGT/AGTGTGTGTGTG TGT	TTTCATCCTCTCTCAC GGCT	TCTTCATGGCAACACT TCCA	60.0	478	INTERGENIC	--	--	--
Ca4_P1_27548804	Ca4	27548804	TAAAA/TAAA	TTCCCCATTCTTAACAC CCA	TTCGCAACTCCACTCT TCCT	60.2	672	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_2755654	Ca4	2755654	CAAAAA/CAAAAAA	AATTCGTTGCACAATT GGTT	GCATGCTAAATGCCAT CGTA	59.4	801	INTERGENIC	--	--	--
Ca4_P1_27562480	Ca4	27562480	GTTTTTTTTT/GTTTTTTTTTTT	TCAATCTGGGGTTGTT AGGC	CTGAAGGTGCAAACAC GAGA	59.9	388	INTRON	Ca_21314	--	--
Ca4_P1_27574473	Ca4	27574473	ATTTTTTTTT/ATTTTTTTTT	CACCCTTACCTTGACC CCTT	GCTCGTATGCGTCAAT TCAA	60.2	571	INTRON	Ca_21314	--	--
Ca4_P1_27576276	Ca4	27576276	GAA/GAAA	TCGCACAAAAGGTTAG GTCA	GCAACCAATTCGCTGA AAGT	59.3	698	INTRON	Ca_21314	--	--
Ca4_P1_27580274	Ca4	27580274	GAAAAAAAA/GAAAAAAAAA	TGGGGTCCATGTACCA CTTT	AAGAAATGTGCCTCAG GTGC	60.1	305	INTRON	Ca_21314	--	--
Ca4_P1_27582209	Ca4	27582209	TGG/TG	AGGTGCAACACAAGA AGGG	AATGTGTGGTGTGCTT TCAA	60.1	329	INTRON	Ca_21314	--	--
Ca4_P1_27593574	Ca4	27593574	GTTATTATTATTAT/GTTATTATTATTA TTAT	TGCAACGCTTGATCGT TAAT	ACTCGAATCGTTTTGC AAGG	59.3	301	INTRON	Ca_21314	--	--
Ca4_P1_27594072	Ca4	27594072	CTTTTTT/CTTTTTTTTT	ATCAGAGGTTGCGCAA AAAT	TTTCCTCCAAATTTAC GCC	59.7	668	INTRON	Ca_21314	--	--
Ca4_P1_27599972	Ca4	27599972	T/TG	ACGTCCAGTCGCTTCA AACT	AGAGCAGCCCTCATTG AAAA	59.9	343	INTRON	Ca_21314	--	--
Ca4_P1_27604352	Ca4	27604352	AAATGTTGATAAT/AAAT	ATTAGGAGTCTTGCTG CCCA	CCCTCCGAACCTCTCAA ACAG	59.8	320	INTRON	Ca_21314	--	--
Ca4_P1_27624221	Ca4	27624221	ATTTTTTT/ATTTTTTT	GGCGAAGGAAGAGAG AAAGG	GCAACATCAATGCTGC AACT	60.5	767	INTRON	Ca_21312	--	--
Ca4_P1_27634641	Ca4	27634641	CTTTTTT/CTTTTTTT	ACGAAGCAGAAGCGAA CATT	CACGAGGTGTAGAATT GCCA	60.0	534	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_27637430	Ca4	27637430	TG/TGG	TTTGGAGTGGTGGTTC TCAA	CCAATGATTTTCATGC CACA	59.1	482	DRR	Ca_21310	--	--
Ca4_P1_27649411	Ca4	27649411	TTTTATTT/TTTT	AAAATAAGGCATGGTG TTGGA	TAGTTTGTAAACCCGTG CGTC	59.3	256	INTERGENIC	--	--	--
Ca4_P1_27649729	Ca4	27649729	TAAAAAAA/TAAAAA	TTAAATCGTTGTTTCC GTGC	ATTGGTGTGGGTTCG GTCTA	60.0	693	INTERGENIC	--	--	--
Ca4_P1_27656025	Ca4	27656025	TAAAAAAA/TAAAAAAA	TTTTAATGCGAGCAT GAGAAG	AGACTCCCGATGTCA AACA	59.5	101	INTERGENIC	--	--	--
Ca4_P1_27656062	Ca4	27656062	TAAAAAAAAA/TAAAAAAA AAA	GCGAGCATGAGAAGT GTTG	TTTAAATAGACTCCC GATGTCA	59.6	101	INTERGENIC	--	--	--
Ca4_P1_27657337	Ca4	27657337	ATTTTT/ATTTTT	TGTTTGTCAATTGAAT TATAGTTATG	TCCATTTATGGTGAGT AATGACG	58.6	506	INTERGENIC	--	--	--
Ca4_P1_27682658	Ca4	27682658	T/TACTTAAG	AGACGGCGCAAGTAGA GAAC	TGTTTTCTTGCGTTG CTTG	59.6	262	INTERGENIC	--	--	--
Ca4_P1_27698175	Ca4	27698175	CAAAAAAAAA/CAAAAAAAAA	CTAACCTTGCATGGGG AAAA	ATTCATGGTGCTTCT TGGC	59.9	274	DRR	Ca_21307	--	--
Ca4_P1_27746278	Ca4	27746278	CTTTTTTTTT/CTTTTTTT	AGTTTTCTGTTGGTTC ACCG	TGCCACATCACCTAA ATCA	60.0	546	INTERGENIC	--	--	--
Ca4_P1_27787881	Ca4	27787881	CAAAA/CAA	ACCTGCAAAATACACA GCC	GTTACAAGGATCCTCC CACG	60.0	523	INTRON	Ca_21303	--	GATA
Ca4_P1_27814253	Ca4	27814253	T/TA	TGGGTCCCATTGACCA TTTT	CACGCAAGAATCCTCA GTCA	59.9	510	INTERGENIC	--	--	--
Ca4_P1_27859134	Ca4	27859134	ATTTTTTTTT/ATTTTTTTTT	ACCCTCTTTTAGTG TGCC	GGGAGATTGGGGTTT TGAT	60.4	569	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/P1)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_27865338	Ca4	27865338	AAATAATAATAATAATAATAAT AATAATAATAATAA/AAATAATAAT AATAATAATAATAATAATAA	TCCTAAAACAATGCA CCCA	TTAGGCTTGATGCC GACC	59.0	557	INTERGENIC	--	--	--
Ca4_P1_27873116	Ca4	27873116	TTTTATTATTATTATTATTATT ATTT/TTTTATTATTATTATTATT ATTT	GCATGCGAACAAGAT GAAG	GTTCAACTCCCGTTGG AAAA	59.6	693	INTERGENIC	--	--	--
Ca4_P1_27876725	Ca4	27876725	AGGGG/AG	TCTCCCTCCATGTCCA AAAC	AATGGACGAGGCAGA TATGG	59.9	476	INTERGENIC	--	--	--
Ca4_P1_2787682	Ca4	2787682	TTTATTATTATTATTATTATTAT TT/TTTATTATTATTATTATTAT T	ACCTGCCGAAACAAAT AACG	TGCAATTAAATAAAG GGAGTTG	60.0	512	INTERGENIC	--	--	--
Ca4_P1_2788113	Ca4	2788113	TTTATTATTATTATTATTATTAT TTATTATTATTATTATT/TTTATT TATTATTATTATTATTATTATT ATTATTATT	TGTGGCAAAACAAAT AGCG	ATATCCCGGAACCAA TTCT	59.7	734	INTERGENIC	--	--	--
Ca4_P1_27902426	Ca4	27902426	T/TC	CTGATTGGCTCTGAT GGCT	ATCATAGATCGCGAGC ATCC	60.4	686	INTERGENIC	--	--	--
Ca4_P1_27920147	Ca4	27920147	GTATATATATATAT/GTATATATA TATATATAT	GCCCATCAAAACCCAC ATAC	CACAATCCTTTTCAAC CGCT	60.1	466	INTERGENIC	--	--	--
Ca4_P1_27921168	Ca4	27921168	TTAT/TT	TTCCGTCTATTTTCG GTTC	ACGGGCATGACCTAA TGTA	60.1	595	INTERGENIC	--	--	--
Ca4_P1_27923862	Ca4	27923862	CTATATATATATATAT/CTATATA TATATATAT	CATTAATTTTGCAGG AGGC	AATGGGTCTAAGTGCA TGGC	59.7	783	DRR	Ca_21301	--	C2H2
Ca4_P1_27928820	Ca4	27928820	CACAAC/CACAACAAC	AGCGATGCATGTCTA AGTG	AGCGCTTTGTGACCTC CTTA	60.0	754	INTERGENIC	--	--	--
Ca4_P1_27929931	Ca4	27929931	GTTTT/GTTTT	CCTTCTCATTGCGAAC CCTA	TGGTTGCCACCATTT GACT	60.2	427	INTERGENIC	--	--	--
Ca4_P1_27943723	Ca4	27943723	ATTTTT/ATTTTT	CGATTGAATTAAGCCC AGGA	TCTCCATTTTCGTCCG TAGG	60.0	403	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_27950194	Ca4	27950194	ATAATATAACTTTTAATATAACTTTTA/ ATAATATAACTTTTA	TTGGGATTGCCAATT GTTT	ATCATGGGGGAGGTTA CACA	60.2	883	INTERGENIC	--	--	--
Ca4_P1_27950659	Ca4	27950659	ATTT/ATT	ACCTCAGTTGCAATAT CCGC	TATTTTGGTCTTTTG GCCG	60.1	459	INTERGENIC	--	--	--
Ca4_P1_27951126	Ca4	27951126	CTT/CTTTCATTT	TGTGTAACCTCCCCCA TGAT	AAAGGGCACCAATAC TCCA	60.1	858	INTERGENIC	--	--	--
Ca4_P1_27956988	Ca4	27956988	TCCCCCCC/TCCCCCCCC	ACTCCACTTCAAACAA CCGC	TTTAAAGCCACACCAC ACCA	60.2	603	INTERGENIC	--	--	--
Ca4_P1_27962102	Ca4	27962102	TA/T	TTTCCAAAACCGGTCA TTTT	AGTGGTGAATCCCCA TAAA	59.3	756	INTERGENIC	--	--	--
Ca4_P1_27969810	Ca4	27969810	ATTTTTTTTT/ATTTTTTTTTTT	ATCGAGAAGAGGGTG GTGG	GGGGCCCATAGTCC AACTA	60.1	607	INTERGENIC	--	--	--
Ca4_P1_27971871	Ca4	27971871	GCTTCAC/G	TGTGTTTCGAGTTTC GCTG	TGCCATGACAGAACCA ATGT	60.0	412	INTRON	Ca_21299	T	--
Ca4_P1_27993812	Ca4	27993812	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA	TTGTCTTGACAATTTTC ATTGTTG	TGGGGGTGGATTAC ATATC	59.1	541	INTERGENIC	--	--	--
Ca4_P1_27994370	Ca4	27994370	ATTTTTTTTT/ATTTTTTTTT	TTCCGGAATTTTCTTG GTG	TCCCACGATTGAAGCT TACC	59.9	654	INTERGENIC	--	--	--
Ca4_P1_27998494	Ca4	27998494	CTTTTTTTTT/CTTTTTTTTT	AAGGAGGAGGAGGTG AAGGA	GAAAAGGGAGCCACA AATGA	60.2	533	INTERGENIC	--	--	--
Ca4_P1_27999477	Ca4	27999477	AATATATATATATATATATATATATA TATATA/AATATATATATATATATA	TCGTTTGCCTTTGACA ACAT	TTCCCTCCCTTTGTCC TCTT	60.2	772	INTERGENIC	--	--	--
Ca4_P1_28019097	Ca4	28019097	TAA/TAAA	TTCAACGTTTTTGAATC GGA	CCAACTCAACTTAATG CGGT	59.1	533	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_28019581	Ca4	28019581	TTGT/TT	CGCATTAAAGTTGGATT GGGT	TTGAGGTTGAACATGG TTGG	59.8	439	INTERGENIC	--	--	--
Ca4_P1_28020842	Ca4	28020842	GTTT/GTTTT	CCCGTGACGTAGGTCT CATT	CCAACCATTTGTTGCTT CCTT	60.0	335	INTERGENIC	--	--	--
Ca4_P1_28022542	Ca4	28022542	GCC/GC	TGGAACATTGTGGCTG TGTT	GTTAGGTGCTGGGCTT TTTG	60.0	497	INTERGENIC	--	--	--
Ca4_P1_28023593	Ca4	28023593	GAAAAAAAAA/GAAAAAAAAA	CTCAAACCATTTAGGC CAGT	AATCTGCATCCCAAAA TTGC	60.1	487	INTERGENIC	--	--	--
Ca4_P1_28027624	Ca4	28027624	CA/C	TGAAAAAGCACAGCG ACAC	GAGGGATGTATTTGAG GCCA	60.0	190	INTERGENIC	--	--	--
Ca4_P1_28042488	Ca4	28042488	T/TG	GTCCTTTTCCTTTGGC CTTC	CCTGAGGATAGCCTC GTGAA	60.1	159	INTERGENIC	--	--	--
Ca4_P1_28042758	Ca4	28042758	TC/T	GTCCTTTTCCTTTGGC CTTC	CACCCCTCCTCATATC CATT	60.1	361	INTERGENIC	--	--	--
Ca4_P1_28044154	Ca4	28044154	GAAAAAA/GAAAAAA	GCCTTAGTCGTTGAAG CACC	CTTGATTCCGACGAG GATA	59.9	521	INTERGENIC	--	--	--
Ca4_P1_28057637	Ca4	28057637	CTTTTTTT/CTTTTTT	TTGGTGGTTCAAACTA GGGC	AATTTTCAAAACCGGT TGCTT	60.0	189	INTERGENIC	--	--	--
Ca4_P1_28057936	Ca4	28057936	GTTTTTTTTT/GTTTTTTTTT	TTGGTGGTTCAAACTA GGGC	CATTTGCAACATTAAC GGGG	60.0	654	INTERGENIC	--	--	--
Ca4_P1_28062057	Ca4	28062057	GT/GTT	TCACAATTGTAATTGA CTATCAACG	TATAGCCCGATCAGTC AGGC	59.4	771	INTERGENIC	--	--	--
Ca4_P1_28071470	Ca4	28071470	CAAAAAAAAA/CAAAAAAAAAA	GATGAGCAATTGGGGC TAAA	ACTTGATGGTCGATTC CTGG	60.0	171	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_28071934	Ca4	28071934	CTTTTTTTTT/CTTTTTTTTTTT	CCAGGAATCGACCATC AAGT	CTATTTGACTTGGCTC GGGA	59.9	681	INTERGENIC	--	--	--
Ca4_P1_28086943	Ca4	28086943	GTAGAA/GTAGAATAGAA	TTTTGCATACGTCGGA ATCA	ACGACGTTGATTGATC CAAA	60.1	577	INTERGENIC	--	--	--
Ca4_P1_28093890	Ca4	28093890	GAA/G	GAGAGTGCTCCTTTGG GAAA	GGGAAAAATTGCTTGG TGAA	59.4	300	DRR	Ca_23175	--	--
Ca4_P1_28108572	Ca4	28108572	TAAAAAAAA/TAAAAAAAAA	GCAATGTTGGCGAAG TACA	AGTGTGTGCTTGTGG GATCA	59.7	301	INTERGENIC	--	--	--
Ca4_P1_28109349	Ca4	28109349	ATTTTT/ATTTTTTT	CGGGGTAGGGTTTGA GAGA	GCTGCTTGTTGTGCT ATGA	60.3	491	INTERGENIC	--	--	--
Ca4_P1_28112328	Ca4	28112328	ATTTTT/ATTTTTTT	TTTTGTGGATGACAAA GACGA	CGAGACAAGACGTCCA ACCT	59.2	461	INTERGENIC	--	--	--
Ca4_P1_28120280	Ca4	28120280	TAAAAAAAA/TAAAAAAAAA	TAGGGTGAAGGAGAAC GGTG	TTTTTGTCGTTTGAC TGATG	60.1	822	INTERGENIC	--	--	--
Ca4_P1_28120543	Ca4	28120543	TAAAAA/TAAAAAA	CCAACCTCCCTCCCT TTTA	CAATACGAGCACCTGG CTCT	60.3	994	INTERGENIC	--	--	--
Ca4_P1_28120712	Ca4	28120712	ATTTTTTTTT/ATTTTTTTT	CATCAGTCAAACGCAC AAAAA	CAATACGAGCACCTGG CTCT	59.8	433	INTERGENIC	--	--	--
Ca4_P1_28121722	Ca4	28121722	TAAAAAAAAAAAAAAAAA/TAAAAA AA	TGAACTCTTCTTGGG TGGG	ATACGCATAATCGACT CCCG	60.1	643	INTERGENIC	--	--	--
Ca4_P1_28122657	Ca4	28122657	GAAAAAAAAA/GAAAAAAAAA	CCCCGAGTTTGAGAAA TTGA	CCTCCCGTCCTCTTTC TTTC	60.0	393	INTERGENIC	--	--	--
Ca4_P1_28122747	Ca4	28122747	GAAAAAAAAA/GAAAAAAAAA	CCCCGAGTTTGAGAAA TTGA	GCCACACGCTTGTTC TTCC	60.0	474	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_28125674	Ca4	28125674	CTTTTTTTTT/CTTTTTTTTT	GAACAAGTTTCTCTTC GCGG	TTTTGCTGCAGTTTT GTGA	60.0	799	INTRON	Ca_23174	--	bHLH
Ca4_P1_28131693	Ca4	28131693	TT/TCGGTGGCT	TAGCAAGAACACCATC GCAA	TTAACCTCAATTGCC GTTC	60.4	463	INTERGENIC	--	--	--
Ca4_P1_28143040	Ca4	28143040	ATTTTTTTTTTTTT/ATTTTTTTTT TTT	TCAAACAATGCCAAGT CCAA	TGATATTGTGTGGGA ATGC	60.1	479	INTERGENIC	--	--	--
Ca4_P1_28146492	Ca4	28146492	TT/TTAT	TTGTGTGTGGGTTT TTGA	AATCCTGTATGGGGA AAGG	58.4	430	INTERGENIC	--	--	--
Ca4_P1_28146874	Ca4	28146874	T/TACA	CCTTCCCCCATAACG GATT	CCATTGAGGCACTGTA GGGT	60.0	186	INTERGENIC	--	--	--
Ca4_P1_28147858	Ca4	28147858	AT/ATTTAATAATTT	GGGAAAAGCCCCAAAC TAAG	TCCAACGTCGATTATG ACCA	59.9	424	INTERGENIC	--	--	--
Ca4_P1_28148756	Ca4	28148756	AT/ATCGCT	TGCATAAAAGTACGGA TCACCA	CTGCAAGCAGCAGAA GAACA	60.4	383	INTERGENIC	--	--	--
Ca4_P1_28153242	Ca4	28153242	CAA/C	TTGGCAGTGGTTCAAT TTCA	AAAAGCTTGCGAACAT CACC	60.1	365	INTERGENIC	--	--	--
Ca4_P1_28159857	Ca4	28159857	TAAAAAAAA/TAAAAAAAAA	TTTGGGGGTACAAGGG AAAT	TGCAACCTCATACTGG GAAA	60.4	645	INTERGENIC	--	--	--
Ca4_P1_28160415	Ca4	28160415	GAAAAA/GAAAAA	CAAAATGCCCTTTGGC ACTA	TGACACGTGTTTGT TTGACA	61.0	457	INTERGENIC	--	--	--
Ca4_P1_28162271	Ca4	28162271	TAAAAA/TAAAAA	AAACAAGTGGTTCTGG GCAC	CGAACTTTGCATGCA TCTC	60.0	553	INTERGENIC	--	--	--
Ca4_P1_28167031	Ca4	28167031	CAAAAA/CAAAAA	TTGAGATGGTTGCTTT GCAG	GCCCATGGAGATTGA AAAA	60.0	661	DRR	Ca_23172	--	Dof

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca4_P1_28167305	Ca4	28167305	GGT/GGTGT	GCAACTTTGCCAACTC ACAA	TTTGTAGCTAGTGTGT GCCG	59.9	552	DRR	Ca_23172	--	Dof
Ca4_P1_28174652	Ca4	28174652	TG/T	TTGCAACATTGTATGA CGAA	GAAAAGAAAATCACA CCGCA	58.7	154	INTERGENIC	--	--	--
Ca4_P1_28179566	Ca4	28179566	AGGGG/AGGGGG	TGGGTAAAGTTCTGCC CACT	TAGCATGCTCGAAAAC GAAA	59.6	129	INTERGENIC	--	--	--
Ca4_P1_28180097	Ca4	28180097	ATTTTTTTTT/ATTTTTTT	TCGAGCATGCTATAGT CCGA	ACCAATGTCCAACGGG AATA	59.5	869	INTERGENIC	--	--	--
Ca4_P1_28180264	Ca4	28180264	TAAAA/TAAA	GGAAGAGCGAGAAGG GAGAT	ACCAATGTCCAACGGG AATA	59.9	325	INTERGENIC	--	--	--
Ca4_P1_28180995	Ca4	28180995	CT/CTT	GTGATCATGGAGGCGA GTTT	GAGCAGACCAACAG GGAAG	60.1	801	INTERGENIC	--	--	--
Ca4_P1_28183509	Ca4	28183509	GC/G	ACTGGCAGCCATTAC TCTT	TGACAACCCCAAACCT GTGA	59.9	745	INTERGENIC	--	--	--
Ca4_P1_28184807	Ca4	28184807	ATTT/ATTTT	GACCTTTGTTGACCTT GCGT	TGTTGAGTTGGAGATG AAGCA	60.2	595	INTERGENIC	--	--	--
Ca4_P1_2819881	Ca4	2819881	TAAAAA/TAAAAAA	TTGTTACCTCAATCGT GGGG	TTCGCCCCACAACATA CCAC	60.7	674	INTERGENIC	--	--	--
Ca4_P1_28201306	Ca4	28201306	C/CAAAT	AAAATCGAGAAAGGGG GAGA	TCCTTTTCTGTTGTTT TTCG	60.0	179	INTERGENIC	--	--	--
Ca4_P1_28201530	Ca4	28201530	ATTTTTTTTT/ATTTTTTTT	AAAATCGAGAAAGGGG GAGA	AAAATTTACAAATTCG AGAATCAA	60.0	562	INTERGENIC	--	--	--
Ca4_P1_28205048	Ca4	28205048	TA/T	GGCAACAATGTCTCAA AGCA	CACGTTGAATTCACC TTCA	59.8	539	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_28205282	Ca4	28205282	CAAAAAA/CAAAAAA	GGCAACAATGTCTCAA AGCA	CACGTTGAATTCACC TTCA	59.8	539	INTERGENIC	--	--	--
Ca4_P1_28207311	Ca4	28207311	TAAAAA/TAAAA	TTTTGTTTTGTATTTGA CGATGC	TTAGCTCCGTTTCATG GACA	59.1	794	INTERGENIC	--	--	--
Ca4_P1_28208368	Ca4	28208368	TC/T	TGATGTGCGGTATGCT TTTC	TTCCCTCCAAAGTTGG ACAC	59.7	670	INTERGENIC	--	--	--
Ca4_P1_28208396	Ca4	28208396	TAAAAAA/TAAAAAAA	TGATGTGCGGTATGCT TTTC	TTCCCTCCAAAGTTGG ACAC	59.7	670	INTERGENIC	--	--	--
Ca4_P1_28208787	Ca4	28208787	CTTTTTTTTT/CTTTTTTTTT	GTGTCCAACCTTTGGAG GGAA	TTCCCATCGGACAACA AAAT	59.9	286	INTERGENIC	--	--	--
Ca4_P1_28209971	Ca4	28209971	T/TA	ATTGATGGAGCGAATC GAAC	AATTCCTCTTTTGGTG GGCT	60.0	891	INTERGENIC	--	--	--
Ca4_P1_28212107	Ca4	28212107	TCCC/TCC	TGCAGACATTTTCCAA CGAG	TTTAATCTGCGTATCT CCCCA	59.8	232	INTERGENIC	--	--	--
Ca4_P1_28242856	Ca4	28242856	AGGGGGG/AGGGGGGG	ATTGGGAAGTGGGA GACTT	CCATCTTTGGGTGAAC CAGT	59.8	677	INTERGENIC	--	--	--
Ca4_P1_28254483	Ca4	28254483	CAACAA/CAACAAGACAAACAA	GGGGAACCTCTCAAGT CACA	CGTGGAACCAACCTT GTCT	60.1	703	INTERGENIC	--	--	--
Ca4_P1_28274294	Ca4	28274294	GAAAAAAAAA/GAAAAAAAAA	CCAGAAGCAGAAAAAC CAGG	TTTGAAACTGTCGCGA CTCA	59.8	631	INTERGENIC	--	--	--
Ca4_P1_28274340	Ca4	28274340	CAAAAAAAAA/CAAAAAAAAA	CCAGAAGCAGAAAAAC CAGG	TTTGAAACTGTCGCGA CTCA	59.8	631	INTERGENIC	--	--	--
Ca4_P1_28277172	Ca4	28277172	GAAA/GAA	ATTTTCAGTGGCCTAC ACGC	TGTGGATCAGGTTTGG AGAA	60.1	210	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_28281945	Ca4	28281945	CTTTTTTT/CTTTTTT	ATGCAAGTGCCAAA GAAC	GCTGCCACATGAATAC AACC	60.1	673	INTRON	Ca_23166	TR	FAR1
Ca4_P1_28282247	Ca4	28282247	ATTTTTT/ATTTTTT	TCCAGAAGGCATTCT TGGT	AGGTAGTTGGAGCGT TTGAA	59.7	430	DRR	Ca_23166	TR	FAR1
Ca4_P1_28283679	Ca4	28283679	TATTTAATTT/TATTT	ATGGGGATGTTGTGTG TGTG	TGAGAGTTGCTTGATC GGG	60.1	670	DRR	Ca_23166	TR	FAR1
Ca4_P1_28295619	Ca4	28295619	ATT/AT	CAACCATCCCCTTTCT TTGA	CCACTTGACCCAATTA AGCA	59.9	545	INTERGENIC	--	--	--
Ca4_P1_28296518	Ca4	28296518	ATC/A	TAGCTGCTCACACTGC CAAC	GGTTGTTGTGCCCAGA GATT	60.2	527	INTERGENIC	--	--	--
Ca4_P1_28297192	Ca4	28297192	ATTTTT/ATTTT	AATCTCTGGGCACAAC AACC	TAGGTTGGACGTCTTG TCCC	60.0	764	INTERGENIC	--	--	--
Ca4_P1_28306538	Ca4	28306538	CTTTTTTT/CTTTTTTTT	GGGTTTGTCTTTTGC AGAA	AATTGTCCCATCCCTT ACCC	60.2	772	INTERGENIC	--	--	--
Ca4_P1_28306771	Ca4	28306771	CAAAAAAAAA/CAAAAAAAAAA	TGATGGTCCATGAAT GACAT	CGAGCCAAATCCAAA ACAT	58.8	430	INTERGENIC	--	--	--
Ca4_P1_28321521	Ca4	28321521	CCGTACAGGCGTACA/CCGTACA	TCGAGTTGTGAAATTG AGCG	GCTGAAGAACCCGAG AAAGA	60.0	202	INTERGENIC	--	--	--
Ca4_P1_28331028	Ca4	28331028	CAAAAAAAAA/CAAAAAAAAAA	CTTGAAGGGACGGCTA GATG	TTGCCATAATGTTGAG AAGGG	59.8	458	INTERGENIC	--	--	--
Ca4_P1_28336605	Ca4	28336605	CAAAAAAAAAAAAA/CAAAAAAAAAA AA	CAAAGCAGGGAGTTTC CATC	TGGTTTAAGTCTCTCG CTGT	59.7	723	INTERGENIC	--	--	--
Ca4_P1_28337463	Ca4	28337463	AGTCTAT/A	ACAGCCGAGGACTTAA ACCA	GACCATCTGGTCAACG CTTC	59.7	768	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_28338388	Ca4	28338388	TAAAAA/TAAAAAA	TGACTCGGGCTGCAG TTAT	CACCGGTGGTCTTCC TTTA	60.8	432	INTERGENIC	--	--	--
Ca4_P1_28338433	Ca4	28338433	GTTT/GTT	TGACTCGGGCTGCAG TTAT	GCTTTGAGCCCATGA AATA	60.8	739	INTERGENIC	--	--	--
Ca4_P1_28342637	Ca4	28342637	GCCC/GCCCC	TCACAAATCCTGGTG TTGA	GGAGAAAGCAATGGT GGAA	59.9	359	INTERGENIC	--	--	--
Ca4_P1_28346696	Ca4	28346696	A/AT	ACCACAGGTGAAAGAA ACCG	TTTTCAACTCTATCCG TAGCCC	60.0	340	INTERGENIC	--	--	--
Ca4_P1_28348918	Ca4	28348918	TATTTA/T	CTTTGCGATCAAATGG TCAA	TCAAGCTCAAAACGTG ATGC	59.7	592	INTERGENIC	--	--	--
Ca4_P1_28351338	Ca4	28351338	TATA/T	GGCAGAAATTGTGTCC GTTT	CAACAAGTAGTCTCAT GATTTCCC	60.0	346	INTERGENIC	--	--	--
Ca4_P1_2835298	Ca4	2835298	TATAATAATAATAATAATAAT/TAT AATAATAATAATAATAAT	TTCCGTCAACCAAGTT TTAGG	TTGGGTTTAAGTGTGA GTGGC	59.1	562	INTERGENIC	--	--	--
Ca4_P1_28358498	Ca4	28358498	GAAAAAA/GAAAAAA	GTGCACAAGCCTTGAT TGAA	CGACCAAGACTCGTGT GAAA	59.8	488	INTERGENIC	--	--	--
Ca4_P1_28358687	Ca4	28358687	AAA/AAAGAA	GTGCACAAGCCTTGAT TGAA	CATTGAGCAACAAAGC TCCA	59.8	751	INTERGENIC	--	--	--
Ca4_P1_28360925	Ca4	28360925	TTTATTATCTTAT/TTTAT	CTCCGGTTACCAAAA TGAC	TGACCACCTGAAAACA AGGA	60.4	509	INTRON	Ca_23163	AYT	MYB
Ca4_P1_28362055	Ca4	28362055	GTTTTTTTT/GTTTTTTTTT	CAGCTGTTAGAGGGTG AGGG	TGTTCAAATATCATTCT TCCACG	59.9	149	INTRON	Ca_23163	AYT	MYB
Ca4_P1_28362288	Ca4	28362288	TA/T	CAGCTGTTAGAGGGTG AGGG	TTCCATAATTCCTGCT TCTTCC	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/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_28364496	Ca4	28364496	CAAA/CAA	TCCCAATCGATTGTT GGAT	TCAGGCAACAAGCAG ACAC	60.1	475	INTRON	Ca_23163	AYT	MYB
Ca4_P1_28369830	Ca4	28369830	ATTTTTTTTT/ATTTTTTTTT	CCATCTTGAATTGGT TCAA	TGTCATGCCAAATGAA AAATTC	59.5	526	INTERGENIC	--	--	--
Ca4_P1_28372180	Ca4	28372180	TATGTAATGT/TATGT	TTTGATAAACCCCGTG ATCC	TGGAGCAGTTTTTCAA CCAA	59.6	572	INTERGENIC	--	--	--
Ca4_P1_28372820	Ca4	28372820	ATTTT/ATTTTT	TAAGGGAAGGGGCTCT AGGA	CCCTAAAATTTAAAA GGCCC	60.2	389	INTERGENIC	--	--	--
Ca4_P1_28374499	Ca4	28374499	GAAAA/GAAAAA	GAAGGAACACTGCAAA GCAA	ACACATCCTCAATTCA CCGA	59.1	552	DRR	Ca_23162	C	--
Ca4_P1_28377332	Ca4	28377332	TAAA/TAA	CATGGAACAGGTGA CACG	AACCCAGCAAATACCA ATGC	60.0	364	INTRON	Ca_23162	C	--
Ca4_P1_28380287	Ca4	28380287	ATTTT/ATTTTT	ACTTTTCTCATTTTAA GTCATCAAAT	CTTCAAAGTTGCCGT GATT	57.3	919	INTERGENIC	--	--	--
Ca4_P1_28384863	Ca4	28384863	CTTTT/CTTTTTT	TCAAGCTGGAGAAGGT TCAGA	TTGCTTTGTATTCCTC AACC	60.1	601	INTERGENIC	--	--	--
Ca4_P1_28390462	Ca4	28390462	TAA/TAAA	GTCATCAAAAGCCGAC GAAT	GGCCCACAATTTTGAA GAGA	60.1	786	INTERGENIC	--	--	--
Ca4_P1_28401988	Ca4	28401988	TAATTAA/TAATTAATTAATAAAATTA A	ACTTGGATGAAGGGAA AGGG	GCATTCGCAAAATTT TGAA	60.3	561	INTERGENIC	--	--	--
Ca4_P1_28402307	Ca4	28402307	GAAA/GAA	TGCTGACTATGCTTGT CGGA	TTGCCCACTTAATGAA GAAGAA	60.6	799	INTERGENIC	--	--	--
Ca4_P1_28404551	Ca4	28404551	AAG/AAGAG	GGAATTCAATTGATTG GGGA	CGTGTGATGAACCAT CATTG	59.6	460	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_28406467	Ca4	28406467	TC/T	CGAGGATAAACTCGAG GACG	TGCAAGATGAATGGT TCTCA	59.8	465	INTERGENIC	--	--	--
Ca4_P1_28407155	Ca4	28407155	ATTTTTTT/ATTTTTTTT	TTGGAACAATGGCCAC CTAT	CCTGGTTCCTTTATG ACCA	60.2	456	INTERGENIC	--	--	--
Ca4_P1_28407636	Ca4	28407636	C/CTT	ACACCTAATTCACCCC CTCC	TCCCTTTTCCAACCAC TTTG	60.1	517	INTERGENIC	--	--	--
Ca4_P1_28408105	Ca4	28408105	AAAAGAAA/AAAA	TCAAAGTGGTTGGAAG AGGG	CCCAACAATTGAAGT GGCT	59.9	179	INTERGENIC	--	--	--
Ca4_P1_28410297	Ca4	28410297	GAAAAA/GAAAA	TTTTGGGATCTCAAGG TGAAA	ATCGTGGCAAAGATGA CACA	59.5	613	INTERGENIC	--	--	--
Ca4_P1_28414370	Ca4	28414370	ATTTTTTTTTTT/ATTTTTTTTTT	CCAGTAGTGGTTGCAG CCTT	ATTAAGCACAAACATG GGGC	60.3	377	INTERGENIC	--	--	--
Ca4_P1_28414876	Ca4	28414876	CAAT/CAATAAT	GCCCCATGTTTGTCG TAAT	GGATTGAGCATCCGTC AAGT	59.8	741	INTERGENIC	--	--	--
Ca4_P1_28417839	Ca4	28417839	CAA/CAATAGAA	TGCCTTGAAGAGGCT TTTA	TGAAAAATAGCCCAAT GGTGA	60.0	715	INTERGENIC	--	--	--
Ca4_P1_28418179	Ca4	28418179	ATTTTTTTTT/ATTTTTTTT	TGCAAGGCCATTCTGT CTAA	GCAGGTTAGATGGGG AATCA	59.4	649	INTERGENIC	--	--	--
Ca4_P1_28420944	Ca4	28420944	TAAAGTTAGAAGAA/TAA	GTGTGGGCGGAAAAAT CTAA	CACAGTGAAAAACCGA TGGA	59.9	693	INTERGENIC	--	--	--
Ca4_P1_28421324	Ca4	28421324	AA/AAACA	CCATCCATCGGTTTT TCAC	TGCATGGAAAGCTGTG GTAG	60.2	472	INTERGENIC	--	--	--
Ca4_P1_28422575	Ca4	28422575	ATGTGTTT/AT	TGAAGGAAACTTTGAT GCCA	TTGGTTTAACGGCAAA GTGA	59.2	596	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_28422969	Ca4	28422969	TA/T	TCACCTTGCCGTTAA CCAA	ACACCACATGGGAAA CCTA	59.2	213	INTERGENIC	--	--	--
Ca4_P1_28423269	Ca4	28423269	T/TA	TAGGTTTCCCATGTG GTGT	AGCACTTGCCCCTTAG GAGT	60.1	697	INTERGENIC	--	--	--
Ca4_P1_28439809	Ca4	28439809	GTTTTTTT/GTTTTTTT	TATGCCAATGCGAAAT GAAA	GCGCAACAAGAGAAT AGGC	60.0	642	INTERGENIC	--	--	--
Ca4_P1_28440300	Ca4	28440300	TG/TGCAAAATTGATAG	TTGTTTGCGCTTCAGT ATGG	TGCTACCCCTTTGTTG GAAG	59.9	257	INTERGENIC	--	--	--
Ca4_P1_28440649	Ca4	28440649	AT/ATT	CTTCCAACAAGGGGT AGCA	CCCTCATTCTCATGT TTGC	60.1	406	INTERGENIC	--	--	--
Ca4_P1_28447880	Ca4	28447880	ATTTTTTT/ATTTTTTT	TCTTCTGTGTAGCGG ATTG	GCTCAACCTTGAGACC AAGC	60.0	252	INTERGENIC	--	--	--
Ca4_P1_28449436	Ca4	28449436	A/AT	CCAAATCTGGTGAAAG GGAA	CCATGTGGTTAGCATA GGGC	59.9	616	INTERGENIC	--	--	--
Ca4_P1_28454605	Ca4	28454605	TTGCTG/T	GCCATTTGCCTAACCA AAAA	CTTGTTCCAACAATC TCCC	59.9	493	INTERGENIC	--	--	--
Ca4_P1_28457671	Ca4	28457671	TCTCTA/TCTCTATTTAACTCTA	TACAAAGCACCTGACC CTCC	CCCAAATCAAAGCAAG CAAT	60.1	765	INTERGENIC	--	--	--
Ca4_P1_28497094	Ca4	28497094	TAAAAAA/TAAAAAA	GGTATCGGATCGAAAC CAGA	CCCCAAGAATACATGA AAATTGA	59.9	841	INTERGENIC	--	--	--
Ca4_P1_28501292	Ca4	28501292	AAATATTTTATTATT/AAATATTTTATTA TTAATATTTTATTATT	GCACGCACACATAT ACCC	TTTGCAAGCACAAAAG ACAG	59.9	747	INTERGENIC	--	--	--
Ca4_P1_28504169	Ca4	28504169	CAA/CA	GCTGGCGGGAATTAGT ATGA	GCTTCCCCACTATCAC TCCA	60.1	132	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_28505491	Ca4	28505491	TAAAAAAAA/TAAAAAAAAA	GGATTTCACGGTGGTC TTTT	TCACACACCTCAAAAC CCCT	58.9	433	INTERGENIC	--	--	--
Ca4_P1_28510451	Ca4	28510451	TAAAAAAAA/TAAAAAAAAA	AGGAAATTCGCCCCA GAAC	GCACATTTTCCAAGGG CTTA	60.4	427	INTERGENIC	--	--	--
Ca4_P1_28519731	Ca4	28519731	AA/AAGA	GCCATGAAGTGGCCTA ACAT	TCACGGTTTTGTAGAG CGGT	60.0	620	INTERGENIC	--	--	--
Ca4_P1_28522324	Ca4	28522324	CTTT/CTT	ATGCATTACGTTGTT GCCA	TTTGTGCATGCCAAT TTGT	60.0	522	INTERGENIC	--	--	--
Ca4_P1_28534748	Ca4	28534748	ATTTTTTTTT/ATTTTTTTTT	TGGTCAACATGCCAA GAAA	TTGTTTTCTCCTCAA CAAATG	60.1	958	INTERGENIC	--	--	--
Ca4_P1_28535714	Ca4	28535714	TTT/TTTATT	GCCAGCTCCAATTACA ATGC	CATGTCTTTGAATTT GATCAGC	60.6	816	INTERGENIC	--	--	--
Ca4_P1_28541959	Ca4	28541959	TAAAAAAAA/TAAAAA	TTGCATCGGCCTACT TCTT	CGGATTCATCCAAAG TTCAA	59.8	637	INTERGENIC	--	--	--
Ca4_P1_28543411	Ca4	28543411	ATTTTTTTTT/ATTTTTTTTT	TCAAGTTTCGAACCT CTCGC	GGAATGGAATGCGAA GAAAA	59.7	323	INTERGENIC	--	--	--
Ca4_P1_28555463	Ca4	28555463	GTTTTTTTTTTT/GTTTTTTTTTTT	GAGGGAGAGGAAGAG GCAGT	ATTAAATTCGGGGAC AGGG	60.0	433	INTERGENIC	--	--	--
Ca4_P1_28581947	Ca4	28581947	TAAAAAAAA/TAAAAAAAAA	CATTTCCCCACACCAA TTTC	AAGGATGATGATTGTG CATGT	60.0	379	INTERGENIC	--	--	--
Ca4_P1_28581991	Ca4	28581991	CAAAAAAAAA/CAAAAAAAAA	CATTTCCCCACACCAA TTTC	AAGGATGATGATTGTG CATGT	60.0	379	INTERGENIC	--	--	--
Ca4_P1_28583861	Ca4	28583861	ATT/AT	AGAGGGAGGGACCAA AACTT	CTGGAGCAAGCTTCC AAAC	59.0	524	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_28586798	Ca4	28586798	ATTTTT/ATTTT	GCCCAAAGCATACGACAT	TTGGGGGATAATTGTTTGGA	60.1	516	INTERGENIC	--	--	--
Ca4_P1_28590176	Ca4	28590176	CTTTTT/CTTTTTT	CCACCTCCACCATTCCTCTA	CAGCACCACAAACATCCAAG	59.9	476	INTERGENIC	--	--	--
Ca4_P1_28616334	Ca4	28616334	GTTTTTTTTT/GTTTTTTTTT	ATTGCATGTTGGAGGAAGC	GGTGATACATGTGACAAAGCG	60.1	752	INTERGENIC	--	--	--
Ca4_P1_28623056	Ca4	28623056	A/AGAAATTGG	ATATGGTTGCGCACAAATGA	TGTCCGAAACATTAAACCCA	60.0	704	INTERGENIC	--	--	--
Ca4_P1_28714992	Ca4	28714992	GATAT/GAT	AGAGCCAACGCTCATAGGAA	TTAAATTCCTCCTCCTGGCT	60.0	531	INTERGENIC	--	--	--
Ca4_P1_28771989	Ca4	28771989	CTTTTTTTT/CTTTTTTTTT	AGAGGTCTATGGTGCCAGGA	ACCACCTTCTCGCACAACACT	59.7	658	DRR	Ca_23696	--	--
Ca4_P1_28783547	Ca4	28783547	CTTTTTTTT/CTTTTTTTTT	TGGAAAGCTTGCTCTCTCAT	CAAGTGATGTTGCCTATTCTGG	60.0	124	INTERGENIC	--	--	--
Ca4_P1_28791900	Ca4	28791900	TCACA/T	TGCCCCCATGTTATCCTA	CACAGAGTTCGACACCGCTA	60.3	580	INTERGENIC	--	--	--
Ca4_P1_28793395	Ca4	28793395	TAA/TAAAAACAA	CCAAAATTACACCAACGGTTC	TTGTTGCATGCTCATTCTC	59.2	275	INTERGENIC	--	--	--
Ca4_P1_28802024	Ca4	28802024	GTTTT/GTTTTT	TGAGTGGGTGAATGAGATGTG	TTCCACAGTCCAAACCAACA	59.5	244	INTERGENIC	--	--	--
Ca4_P1_28802275	Ca4	28802275	AT/A	TTGTGGTTTGGACTGTGGAA	TTAGTGCAAGTGTGGATGG	60.0	645	INTERGENIC	--	--	--
Ca4_P1_28806476	Ca4	28806476	T/TA	TGTTTGTTTTGAAGCAGG	GCAAGAAGCCATCCACAAGT	59.9	351	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_28822607	Ca4	28822607	TAAAA/TAAA	CTTCTTCGCAAATGG TGTT	TGTATTACCATGATTTT GTTGACTGA	60.1	448	INTERGENIC	--	--	--
Ca4_P1_28828876	Ca4	28828876	GTTTTTTTTTTT/GTTTTTTTTTTTTTTT	GTGGCCTAAGCCCTCA CAA	TCTTTATTTGTGGCGG TCAA	61.2	108	INTERGENIC	--	--	--
Ca4_P1_28834019	Ca4	28834019	AA/AAGA	TTTGTTCCTCCATGT GATTTTT	ATAGTCTTCCATTGGC GTCCG	59.7	795	INTERGENIC	--	--	--
Ca4_P1_28848955	Ca4	28848955	GTATAT/GTATATAT	AGAGGAAATGATGCCA CAATG	AAACACTTGCGTAACC TGGC	59.9	794	INTERGENIC	--	--	--
Ca4_P1_28849010	Ca4	28849010	GAAAAAAAA/GAAAAAAAAA	AGAGGAAATGATGCCA CAATG	AAACACTTGCGTAACC TGGC	59.9	794	INTERGENIC	--	--	--
Ca4_P1_28850439	Ca4	28850439	ATTATTTTATTTT/ATTATTTTATTTT TATTTT	GTCAGAGGCAGTGAG CCTTC	TTTGTAGCTTCCAACG CCTG	60.1	500	INTERGENIC	--	--	--
Ca4_P1_28853222	Ca4	28853222	CAAAAAAAAA/CAAAAAAAAAA	TCCATTTTGGTCCATG AGAA	TTTTTCTTCTTCGTCCT CGC	58.9	435	INTERGENIC	--	--	--
Ca4_P1_28856354	Ca4	28856354	ATTTTTTT/ATTTTTTTT	GCGCGAATATCTCAAC CAAT	TCCACCAACAACAAGA TCCA	60.1	212	INTERGENIC	--	--	--
Ca4_P1_28856754	Ca4	28856754	ATT/AT	TGCCGTATTGATGGAT CTGA	ACAAGGATGAGTTTGG CACC	60.0	923	INTRON	Ca_23701	T	E2F/DP
Ca4_P1_28870444	Ca4	28870444	A/AAT	TGAGGAGGCTTCTTGG AGTG	AAAACGACTTCGAGGC ATGT	60.5	817	INTERGENIC	--	--	--
Ca4_P1_2888123	Ca4	2888123	AAGGAG/AAGGAGGAG	GCAAAGGGAAAATCAT TGGA	GACACAGGTTCAAAC CGCA	59.9	400	DRR	Ca_12085	P	ERF
Ca4_P1_28887918	Ca4	28887918	TAAAAAAAA/TAAAAAAAAA	TGCCCTATTTTGTGTC CAGG	TGCGTTTGGCTGATGT TAAG	60.9	573	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_28894593	Ca4	28894593	CCTTC/CCTTCTTC	AGGAGCATTGGAGTT CTCG	AAATGTAAACTCGT CTCGC	59.4	645	INTERGENIC	--	--	--
Ca4_P1_28901728	Ca4	28901728	TC/T	GATGTTTCATCATGCG ATCA	CCAAAGCTTTCAAGGT CCAA	58.0	145	INTERGENIC	--	--	--
Ca4_P1_2890812	Ca4	2890812	GA/GAATTA	ACTCAAACCTCAAACGC GGAG	TAAAGGTGGCACCAC AACA	60.4	500	INTERGENIC	--	--	--
Ca4_P1_28908427	Ca4	28908427	ATCTT/ATCTTCTT	CGTGGGAAAAGGGGT AATT	ATTTCCCGATTGGAC CTTT	60.0	531	INTERGENIC	--	--	--
Ca4_P1_28909780	Ca4	28909780	CAAAAA/CAAAAA	TGAAAATTGTTTTAAC GCCA	CCAGTTTGAAGGAA ACAG	58.3	781	INTERGENIC	--	--	--
Ca4_P1_28910424	Ca4	28910424	ATTTTCTTTTCTTTTCTT/ATTTTCTT TTTCTT	CTGTTTCCTTCCAACT GGG	TGTAGAGGAATGTCTC GCCC	59.6	393	INTERGENIC	--	--	--
Ca4_P1_28910579	Ca4	28910579	A/AC	CTGTTTCCTTCCAACT GGG	TGTAGAGGAATGTCTC GCCC	59.6	393	INTERGENIC	--	--	--
Ca4_P1_28913518	Ca4	28913518	TATATATATA/TATATATATAATATAT ATA	TTCAGTGGATCCCTCA AACC	CAACGTCTCCCATT GTTT	59.9	951	INTERGENIC	--	--	--
Ca4_P1_28913641	Ca4	28913641	AAATAATAATAATAATAAT/AAATA ATAATAATAATAAT	TACGTCGCTCCATGCA AATA	CAACGTCTCCCATT GTTT	60.2	822	INTERGENIC	--	--	--
Ca4_P1_28914437	Ca4	28914437	GA/GAAA	AAACAAATGGGAGGAC GTTG	TGTTCCAGATATTTG CCGA	59.8	508	INTERGENIC	--	--	--
Ca4_P1_28914633	Ca4	28914633	GTAATAATAATAATAATAATAATA A/GTAATAATAATAATAATAATAA	TCGGCAAAATATCTGG AACA	TGCGATCATGTGGAAC ATTT	59.1	573	INTERGENIC	--	--	--
Ca4_P1_28914767	Ca4	28914767	TTTATTATTATTATTATTA/TTTATTATT ATTATTATTATTA	TCGGCAAAATATCTGG AACA	TGCGATCATGTGGAAC ATTT	59.1	573	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_28915111	Ca4	28915111	TAAAAAAAA/TAAAAAAAAA	AAATGTTCCACATGAT CGCA	TCCAAAAATAACGTTT GCCA	59.9	400	INTERGENIC	--	--	--
Ca4_P1_28915187	Ca4	28915187	GTTTTTTTT/GTTTTTTTT	AAATGTTCCACATGAT CGCA	TCCAAAAATAACGTTT GCCA	59.9	400	INTERGENIC	--	--	--
Ca4_P1_28916016	Ca4	28916016	TTAT/TTATAT	TTCTCCAGCCAAAAAC ACAA	GAGAGGATCAAACTC CGCA	59.3	433	INTERGENIC	--	--	--
Ca4_P1_2891639	Ca4	2891639	A/AG	TGTTGTGGTGCCACCT TTTA	TAATACACACGGCCAA GCAA	60.0	823	INTERGENIC	--	--	--
Ca4_P1_28925061	Ca4	28925061	CAAAAA/CAAAAAAA	GGGGTGGTTTTAGCT TGGT	TAGCCAGTTTGGAAG GAAA	60.2	773	INTERGENIC	--	--	--
Ca4_P1_28925610	Ca4	28925610	TAA/TA	TTTCTTCCAACTGG GCTA	AATGCGGTCTTCCCT AAGT	59.7	622	INTERGENIC	--	--	--
Ca4_P1_28929142	Ca4	28929142	GGGG/GGGGAGGG	ATCTCTGTGATCCCC TTTG	GAGGACTGGACGTAC CCTTG	59.9	325	INTERGENIC	--	--	--
Ca4_P1_28932452	Ca4	28932452	GAAAAAAAA/GAAAAAAAA	GAGCGGATTACCCCAA AAAT	TTGGAGTTGTGCAAT GTGT	60.2	742	INTERGENIC	--	--	--
Ca4_P1_28933902	Ca4	28933902	GTT/GT	GATGGACACTCATGTC AATGAAG	TGGCCAACTGATGAT TCAA	59.5	574	INTERGENIC	--	--	--
Ca4_P1_28936010	Ca4	28936010	TTTTATTATTATTATTAT/TTTTAT TTATTATTATTATTATTATTAT	TTTGTCTTGTTGGGTG ACCA	TGGCTGAATTGTGGAT TCTTT	60.0	816	INTERGENIC	--	--	--
Ca4_P1_28936822	Ca4	28936822	CTT/CT	TAAAGACATTGGGTGG AGGC	TGGACTTTGATGACTG CTCG	59.9	415	INTERGENIC	--	--	--
Ca4_P1_2894996	Ca4	2894996	GAAAAAAAA/GAAAAAAAA	AAAAGAAACGGAGGAA GTGTCA	TAAATACGGTGATCGG CCTC	60.1	127	DRR	Ca_12086	P	ERF

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_28950587	Ca4	28950587	TTAT/TT	TCCCCAAGTGAAACCC ACTA	TCTGGCAGCCATTCTC TTTT	60.3	168	INTERGENIC	--	--	--
Ca4_P1_28955300	Ca4	28955300	GAAAAAAAA/GAAAAAAAAA	CTTGCTGTGTGCAAG ATGA	ATTCCTTCACGTGGG TCAA	60.0	209	INTERGENIC	--	--	--
Ca4_P1_2897791	Ca4	2897791	ATATTTATTTATTTATTTATTT/AT ATTTATTTATTTATTTATTTATTT	AAAAAGACATGCTTTC AATTGG	AAGCCTTGTGGAGCA GTTGT	59.5	948	INTERGENIC	--	--	--
Ca4_P1_28986690	Ca4	28986690	ATCGTCGT/ATCGT	AACAATGCAAAGTTGT CTCACA	AAAAATGGTGATGAGC AAAAA	58.3	423	INTERGENIC	--	--	--
Ca4_P1_28988768	Ca4	28988768	TAAAAAAAA/TAAAAAAAAA	AAAAGTCGACAGTTTT GGTTCA	ACTGGGTTGTCAATTG CCTC	58.8	681	INTERGENIC	--	--	--
Ca4_P1_28990312	Ca4	28990312	CAAAAA/CAAA	GTTTCGCAATCTGGGT TTGT	AACACGTGTAGCAAAG CACG	60.0	770	INTERGENIC	--	--	--
Ca4_P1_28992327	Ca4	28992327	TC/T	CAAGTCCATGCAGTAA GCGA	GGAACCTGGAACACC GTAGA	60.0	836	INTRON	Ca_23706	--	NF-YB
Ca4_P1_28993304	Ca4	28993304	ACAA/ACAATTTTCAA	GGATGGTTGTAAAAGG CGAA	TTTGATGCACATCATT GGGT	59.9	894	INTRON	Ca_23706	--	NF-YB
Ca4_P1_28994820	Ca4	28994820	CTGTT/CTGTTGTT	GCCCACTCTGCAAAAC GTAA	CTAAGCGCAGCACAAAC TGAG	59.9	725	INTRON	Ca_23706	--	NF-YB
Ca4_P1_28996493	Ca4	28996493	TTTGTGTTGTT/TTTGTGTTGTTGTT	GCACCCCTTTAGTGT GGAA	ACAAGCAAACAAAGGG GACA	60.0	643	DRR	Ca_23706	--	NF-YB
Ca4_P1_28996676	Ca4	28996676	A/ATTT	TTTTTATGCTTGGATTG GGC	AACGGATACTCCCTCC GTCT	59.9	613	DRR	Ca_23706	--	NF-YB
Ca4_P1_29008246	Ca4	29008246	GTTTT/GTTT	CCTACAATCCCAAGAC AAGGA	ATTAATGCCCATGAAG GCAC	59.0	252	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_29008405	Ca4	29008405	CTTTTTT/CTTTTTTT	CCTACAATCCCAAGC AAGGA	ATTAATGCCCATGAAG GCAC	59.0	252	INTERGENIC	--	--	--
Ca4_P1_29031157	Ca4	29031157	A/A/C	AAGGACCAATAAAGG TTGGG	TTGATGCTCATGCACT GATTG	59.2	749	INTERGENIC	--	--	--
Ca4_P1_29034648	Ca4	29034648	AAAGTAAG/AAAG	CCTGAGAGTGGATGCT CACA	CCGGAAGAGTCGTCA ACAAT	60.0	599	INTERGENIC	--	--	--
Ca4_P1_29037043	Ca4	29037043	GAAAA/GAAAAAAA	CCATTGAGCTACACTG TGCG	TTGGACAACGCTTCAA ACTG	60.5	434	INTERGENIC	--	--	--
Ca4_P1_29037899	Ca4	29037899	TAA/TAAA	GAGCTGAAACATGCGA ACAA	TGATACCTTGCAATGA ACAAATTC	60.0	716	INTERGENIC	--	--	--
Ca4_P1_29049755	Ca4	29049755	TTA/TTAAGCGAGAAATA	GGTTTTATAGGGCATG CTGG	TCCCAAGAAATCAATG CTCC	59.4	749	INTERGENIC	--	--	--
Ca4_P1_29059011	Ca4	29059011	TC/T	ATTACCCCCACTCTT AGGC	ACCGAGAAATGGATG GACAG	60.3	788	INTERGENIC	--	--	--
Ca4_P1_29059821	Ca4	29059821	AG/AGG	CTGTCCATCCATTCT CGGT	TGAAAGAAATCCAGC GGAT	59.9	670	INTERGENIC	--	--	--
Ca4_P1_29060295	Ca4	29060295	ATTT/ATT	GCTGGAATTTCTTTCA GCCA	AACGTTAACATCGCAA CCCT	60.3	647	INTERGENIC	--	--	--
Ca4_P1_29064946	Ca4	29064946	TA/T	GTTTCCCGAAGGTTTT GGAT	TCATCTTGGATCACAC TCAACC	60.2	424	INTERGENIC	--	--	--
Ca4_P1_29065135	Ca4	29065135	TAAAAAAAA/AAAAAAAA	GTTTCCCGAAGGTTTT GGAT	TCATCTTGGATCACAC TCAACC	60.2	424	INTERGENIC	--	--	--
Ca4_P1_29065949	Ca4	29065949	AATATATATATAT/AATATATATAT	GGATCAAGATGCTCTA GTTCCAA	CATAACATTTGCGCCA CATC	59.7	547	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_29068719	Ca4	29068719	GTTCCTTTTTTTTTTTT/GTTCCTTTTTTT	ATTTCGTCGAACCAATG TTCC	AGGCAAGAGAATAACT GCCAA	59.8	587	INTERGENIC	--	--	--
Ca4_P1_29085024	Ca4	29085024	CT/CTT	AAGGAGAAAAGTGGG GGAGA	ACGTATCCCCAGGTGC AATA	60.0	602	INTERGENIC	--	--	--
Ca4_P1_29089519	Ca4	29089519	CTTTTTTTTTTT/CTTTTTTTTTTTT	TCGACGACAACAACGA GGTA	CACCGTATTACACCAC AACCA	60.3	496	INTERGENIC	--	--	--
Ca4_P1_29091531	Ca4	29091531	AAAATAAATAAAT/AAAATAAATAAATA AAT	GCGTCAACAAAATAAC ACGC	TATTTGACGATGGCGA TTCA	59.2	460	INTERGENIC	--	--	--
Ca4_P1_29093206	Ca4	29093206	TTTATTATTAT/TTTATTAT	GGAAGCTCGGTGATTC TGAC	CTGTGTTTTGCTCCCC AAAT	59.8	593	INTRON	Ca_23708	C	HD-ZIP
Ca4_P1_29098940	Ca4	29098940	TTTATGGATTTTGTGATAATTATGGAT T/TTTATGGATT	TGTTTCTTCGCTTTAC GCCT	CACTTTTGTCCCCCA TCAT	60.0	914	INTERGENIC	--	--	--
Ca4_P1_29100812	Ca4	29100812	GGTAGTA/GGTA	TCAAGAAATAGTGGGG GCAG	TGGAGAAACTCTTCG CTGT	60.1	840	INTERGENIC	--	--	--
Ca4_P1_29109089	Ca4	29109089	GAA/GA	TTGTTGGTTGGTCTCG TAAAA	AAGGCATACATGGC AACA	58.2	379	INTERGENIC	--	--	--
Ca4_P1_29109343	Ca4	29109343	CAAA/CAAAA	CGAAGTCACCGTTGTG TCTC	CGCAATTGGAATACTC CCTC	59.3	398	INTERGENIC	--	--	--
Ca4_P1_29110502	Ca4	29110502	ATTTTT/ATTTT	TGCAACATGGATGGG AATA	CACGGTTTCTAACACC ATTTGA	59.7	617	INTERGENIC	--	--	--
Ca4_P1_29110622	Ca4	29110622	TC/T	TGCAACATGGATGGG AATA	GGAGATTTGTGCCCTA GCAG	59.7	651	INTERGENIC	--	--	--
Ca4_P1_29112901	Ca4	29112901	GAAAA/GAAAA	AGCTTGACGCCTCAAC TACTG	TCATGGTTGTGAGGAC TGGA	59.7	338	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_29122319	Ca4	29122319	TAAAAAAAA/TAAAAAAAAA	TTGTGTGCCACATCAT CACA	TACCAGCGACATGCTT TCAG	60.6	832	INTERGENIC	--	--	--
Ca4_P1_29124250	Ca4	29124250	CTTTTT/CTTTT	GGTCAAGGTGTGATT GCCT	TCCACCAAGTCCCAA GTTC	60.0	539	INTERGENIC	--	--	--
Ca4_P1_29124667	Ca4	29124667	ATTTTTTTT/ATTTTTTT	GAACCTTGGGACTTGG TGGA	GAGCTCAAGTTATGGC CTGC	59.9	303	INTERGENIC	--	--	--
Ca4_P1_29136029	Ca4	29136029	ATTTT/ATTTT	AGAAGAGGCAACCAAC CGTA	GAGGGAGCAAAGTTA GGTTCAA	59.7	976	INTERGENIC	--	--	--
Ca4_P1_29156658	Ca4	29156658	CATGCAAATGCAAA/CATGCAAA	AGTTGGTTTGGTGGT AAGG	GCATGGTAAAGGCTGT TGGT	59.9	841	DRR	Ca_23711	--	--
Ca4_P1_29157805	Ca4	29157805	GTTTTTTTTTTTTTTT/GTTTTTTTTT TTTT	TGCTGTTGTTGGTGGT TGTT	TCTCCACTCCTCTCTC CTCA	60.0	418	INTERGENIC	--	--	--
Ca4_P1_29159894	Ca4	29159894	CAT/CATAT	TGATTTTCAAAGAGAAA CCCG	TTCCTGCGATGTCATT TGTT	59.2	450	INTERGENIC	--	--	--
Ca4_P1_29160022	Ca4	29160022	GAAAAAA/GAAAAAA	AACAAATGACATCGCA GGAA	GGAAATGCATGAATTG AAACTG	59.1	461	INTERGENIC	--	--	--
Ca4_P1_29160471	Ca4	29160471	GATTATTATTATTATTATTATT AT/GATTATTATTATTATTATTATT ATTATTATTATTAT	CAGTTTCAATTGATGC ATTTC	GTTTGAAATCGCACCC AAAT	59.5	334	INTERGENIC	--	--	--
Ca4_P1_2918158	Ca4	2918158	ATTTTTTTTT/ATTTTTTTT	GCATTGATGCTTACGT GCAT	GGTTTTTGGTTGAGTT GGGA	59.7	314	INTERGENIC	--	--	--
Ca4_P1_29188666	Ca4	29188666	TT/TTCT	CATTCTGCCTTGTTGA AGCA	TTTTTGACCTTCAATT GGT	60.0	702	INTERGENIC	--	--	--
Ca4_P1_29188945	Ca4	29188945	T/TTA	ACAGAGTTTGAGCCTG CTGC	TTTTTGACCTTCAATT GGT	60.7	567	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_29190573	Ca4	29190573	GA/G	GCCAGTCTTCTCAAAC AGCC	TTTGACCAAGTGGA AGAAGA	60.0	648	INTERGENIC	--	--	--
Ca4_P1_29191237	Ca4	29191237	CTTTTTTT/CTTTTTTTT	CCAACTTGGTCCAAC AATCT	GGAGAAAAGTTAGG GGTGC	58.9	119	INTERGENIC	--	--	--
Ca4_P1_29195556	Ca4	29195556	TAAA/TAA	TGTCATCTTCAGATG AAACG	ACTGCGGGAGTACTG CAAAG	59.9	485	INTERGENIC	--	--	--
Ca4_P1_29196980	Ca4	29196980	TTTTTTTATTTTT/TTTTTT	AATCAACGGCAAATCG TTTC	CCGTCTCTAAAATTCG TCGG	59.9	714	INTERGENIC	--	--	--
Ca4_P1_29202977	Ca4	29202977	AATGATAG/A	TCACCCGATGTCACC TATT	ACATGCCATTGAATTA CGCA	60.2	449	INTERGENIC	--	--	--
Ca4_P1_29203709	Ca4	29203709	TTATATA/TTATA	AGTGGTCTTGGTCAGC CCTA	TTAAACCTTGGTGTGG CTCC	59.7	523	INTERGENIC	--	--	--
Ca4_P1_29205093	Ca4	29205093	C/CCAAG	ACATATGGCTTCGCAT GACA	TTAGGAGTGGCTTTGG ATGG	60.1	492	INTERGENIC	--	--	--
Ca4_P1_29206292	Ca4	29206292	GAA/GA	TTTGGATTGTTCCAC CTTC	CGTCTTTGAAACTGAC GCTG	59.9	938	INTERGENIC	--	--	--
Ca4_P1_29207358	Ca4	29207358	GT/GTT	TCCCCACCCATTCTA ATGA	ATCCTTCCAAGCAACA CCAC	60.1	595	INTERGENIC	--	--	--
Ca4_P1_29213561	Ca4	29213561	GCCC/GCC	TGATTGCAAAATAGCAC CCAA	TCTCCGCATAAGCTTT CGAT	60.1	247	DRR	Ca_14152	--	Trihelix
Ca4_P1_29221170	Ca4	29221170	TAAAAAAAA/TAAAAAAAAA	TAACCATGGTCATCCC TCGT	ATGTTAACGTTCTGGAG TGCC	60.2	374	INTERGENIC	--	--	--
Ca4_P1_29221975	Ca4	29221975	ATTTTTTTTTTTTT/ATTTTTTTTTT	TTGTCGTACATCCGG GAAT	CGCACATAGAGAGGT GCATT	60.2	735	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_29222326	Ca4	29222326	ATTTTTTT/ATTTTTTTT	TGCACCTCTCTATGTG CGTG	TTCGTTCCGGACAAAT CTTC	61.0	342	INTERGENIC	--	--	--
Ca4_P1_29228849	Ca4	29228849	T/TG	CATTTATTTCTTCCCC GGT	CACGAAGACGTTGGAA CAGA	60.0	362	INTERGENIC	--	--	--
Ca4_P1_29231819	Ca4	29231819	A/AT	TTCTCCCATGAAACG ATGT	CTGCAACTCTCTCTGA CCCC	60.3	854	INTERGENIC	--	--	--
Ca4_P1_29234372	Ca4	29234372	AAACACACA/AA	TTTTCCGCCTTTGCTT CTAA	ATCCATGTTCCCACAC AATA	60.0	609	INTERGENIC	--	--	--
Ca4_P1_29238761	Ca4	29238761	A/AATT	CCATGAGATCCACATA ATCCG	TTGCAAGAATCCATCC ATCA	60.2	513	INTERGENIC	--	--	--
Ca4_P1_29238831	Ca4	29238831	A/AC	CCATGAGATCCACATA ATCCG	TTGCAAGAATCCATCC ATCA	60.2	513	INTERGENIC	--	--	--
Ca4_P1_29240532	Ca4	29240532	AA/AAGA	AGGGGGAGATTGTG GAATC	TTCTAGCTTGGTCAA CAACAA	60.1	611	INTERGENIC	--	--	--
Ca4_P1_29243325	Ca4	29243325	CAAAA/CAAAA	TGTGGCAGCTACGTTT AGTC	GTTGACCTCGCACAA GAAT	60.1	553	INTERGENIC	--	--	--
Ca4_P1_29244811	Ca4	29244811	CAAAA/CAAA	CCGAGATGTTTTGGA GAAA	GCTTCATAGCTTGCAA AGGG	60.0	488	INTERGENIC	--	--	--
Ca4_P1_29245084	Ca4	29245084	ATA/ATACTTA	GCCCTTTGCAAGCTAT GAAG	TGGTGCAATTTGGTTG GTAA	60.0	418	INTERGENIC	--	--	--
Ca4_P1_29262137	Ca4	29262137	AAT/AATTAT	TTCAAAGGTGCATTGT CGAT	CACTGCGACGAAACTT ACCA	59.1	619	INTERGENIC	--	--	--
Ca4_P1_29263303	Ca4	29263303	ATTTTTTTTT/ATTTTTTTTTT	ATGAAGACATCGGAAC CCAA	TGCTAAGGCACAAGTC TCCA	60.3	262	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_29270177	Ca4	29270177	CTTTTTTT/CTTTTTTT	TTTCCCGACTTGGTCTT TTTA	TCGACTCCCCACCTAA TGAC	59.5	696	INTERGENIC	--	--	--
Ca4_P1_29274800	Ca4	29274800	GTTTTTTTTT/GTTTTTTTTT	TTGGCGTGATAATTAC ATGAGG	GCCTACCGGAAATGAA TGAA	59.9	864	INTERGENIC	--	--	--
Ca4_P1_29278808	Ca4	29278808	GTTTTTTTTT/GTTTTTTTTT	CCACCGGATTATGAA GGAA	GGGCATGAAATATGAG ACTGC	59.8	415	INTERGENIC	--	--	--
Ca4_P1_29279654	Ca4	29279654	AATATATATATATATA/AATATATAT ATATATATATATA	CCGATTTTTGCACTT GAAT	CGTTTGATTTGGACG ACCT	59.9	444	INTERGENIC	--	--	--
Ca4_P1_29292121	Ca4	29292121	CTATTATTATTATTA/CTATTATTATTA TTATTA	TGCAAATGGTTCTTTAT GCG	CAAGTTGAAACATGTG TCTTGG	59.7	297	INTERGENIC	--	--	--
Ca4_P1_2929266	Ca4	2929266	CATATATATATATATATA/CATATATAT ATATATATATATA	AAATGGCAATGAAATC CCTG	TCACTCTATCAAATGT TCAAGCAA	59.8	628	INTERGENIC	--	--	--
Ca4_P1_29292913	Ca4	29292913	ATTTTTTTTT/ATTTTTTTTT	ACACGCTAGCCATTAG AGCC	TCCTTTCTTCCAAGA GGTTCA	59.5	306	INTERGENIC	--	--	--
Ca4_P1_29309376	Ca4	29309376	ATTT/AT	ACTCCCTAGGGCACTT GGAT	TAAAGGGCCAGCTGAA GAAA	60.0	258	INTERGENIC	--	--	--
Ca4_P1_29310722	Ca4	29310722	ATTTTTTTTT/ATTTTTTTTT	GTGGTGCCATCTCGG TCTT	TAAGCCAGCAACTCCA GGAT	60.0	658	INTERGENIC	--	--	--
Ca4_P1_29311174	Ca4	29311174	ATTTTTTTTT/ATTTTTTTTT	CAACTCCTGGATTCC CTCA	CTTGAGGTGGAGAAA GCTGG	60.0	556	INTERGENIC	--	--	--
Ca4_P1_29314549	Ca4	29314549	AA/AATA	AGTCTTGCTTGCTTTG GCTT	CGAAACCAATTCTCTC CCAA	59.3	569	INTERGENIC	--	--	--
Ca4_P1_29321184	Ca4	29321184	ATTTTTTT/ATTTTTTT	AACACATCAGCAAATG GCAA	TGGGTTCGGGTACAA GCTAC	60.1	682	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_29330235	Ca4	29330235	ATTTT/ATTT	TTTGTTCAGATTGCG CTTG	GAGGGGATCCATTTTC CCTA	60.0	762	INTERGENIC	--	--	--
Ca4_P1_29335473	Ca4	29335473	TAAAAAA/TAAAAAAA	CCAACCACCTCCTTAA TCCA	GGATTTTCATTTCGAAA AATTGG	59.8	384	INTERGENIC	--	--	--
Ca4_P1_29341821	Ca4	29341821	GA/GATATATATA	TTCTCCCCCTTTTGAC ATGA	CAACACTCGCTTCCAG AACA	60.4	379	DRR	Ca_14153	--	--
Ca4_P1_29348534	Ca4	29348534	AGGGGGG/AGGGGGGG	GTTGTGCGGAAGCCAT TTAT	GAGGACTGGACGTAC CCTTG	60.0	248	INTERGENIC	--	--	--
Ca4_P1_29350232	Ca4	29350232	AC/A	GTTAAATTTGCTGGAG CACG	ACCAAGATTGGGCATC TGAA	58.4	160	INTERGENIC	--	--	--
Ca4_P1_29356210	Ca4	29356210	ATTTTTT/ATTTTT	GCGGGTTTCCTTTTAT AGGC	TTTTCCAGCATGTGTG CATC	59.9	311	INTERGENIC	--	--	--
Ca4_P1_29356293	Ca4	29356293	CTTTTTTTT/CTTTTTTT	GCGGGTTTCCTTTTAT AGGC	TTTTCCAGCATGTGTG CATC	59.9	311	INTERGENIC	--	--	--
Ca4_P1_29360419	Ca4	29360419	AT/ATGT	TAGCCATGAAGCACGA CAAG	CGTGTTCGCTCTTAC TTTG	60.0	585	INTERGENIC	--	--	--
Ca4_P1_29360677	Ca4	29360677	TAAAAAA/TAAAAAAA	CAAAGTAAGAGCGCAA CACG	TGCAAGTATCCACCAA AATGC	59.7	441	INTERGENIC	--	--	--
Ca4_P1_29361867	Ca4	29361867	TATTATTAATTATTAATT/TATTATTAAT TATTAATTATTAATT	TGCAAGGATTTATGGA CGGT	CACCTACACCGAGAAG TTCGTG	60.3	527	INTERGENIC	--	--	--
Ca4_P1_29363363	Ca4	29363363	TAA/TA	CTCGCGGTATCTTCAT GACT	AAAAACAGAGCAGGTA CGAGTG	57.9	313	INTERGENIC	--	--	--
Ca4_P1_29364474	Ca4	29364474	CAAA/CAA	GGGCATGAACCTCAAC TTGT	AACCTGATCAATCGCT GAGTGT	60.0	759	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_29365710	Ca4	29365710	AT/ATT	GGGGTAAGAGGGGAT ACCAA	AGAAAGAGCCAAGACC ACCA	60.0	469	INTERGENIC	--	--	--
Ca4_P1_29367849	Ca4	29367849	CTTTTT/CTTTTT	ATTTTGGCAACACATC ACCA	TGAATGTCACAACAAT ATGACCC	59.8	444	DRR	Ca_14154	--	--
Ca4_P1_29367942	Ca4	29367942	TTA/TTATATA	ATTTTGGCAACACATC ACCA	TGGATCAAGTTGTTTG TCACG	59.8	634	DRR	Ca_14154	--	--
Ca4_P1_29368197	Ca4	29368197	TTA/TTAGTA	ATTTTGGCAACACATC ACCA	CCTTGGCATATTTTGG CTGG	59.8	737	DRR	Ca_14154	--	--
Ca4_P1_29368326	Ca4	29368326	TC/T	TCGATTGTTAGAGGC TATACGTG	TCGCTTGTGAGAGAG GACAA	59.7	511	DRR	Ca_14154	--	--
Ca4_P1_29377748	Ca4	29377748	GAAAAAAAAA/GAAAAAAAAA	CATCCTTACGCGATCT CCAT	AATGGATACGACCCAT TCCA	60.1	491	INTERGENIC	--	--	--
Ca4_P1_29388732	Ca4	29388732	ATTTT/ATTT	GGCATCCCAGATCTGA AAAA	AAGTCGGTACAGCACC ATCC	60.0	931	INTERGENIC	--	--	--
Ca4_P1_29393253	Ca4	29393253	ATTATTTATTTATTTATTTATTTA TTT/ATTATTTATTTATTTATTTAT TTATTTATTT	GCTTGCAGCTAGGAAG CAGT	TTTGTGATCTACGCA TCGG	59.9	404	INTERGENIC	--	--	--
Ca4_P1_29403004	Ca4	29403004	ATT/ATTATTGTT	GGGAAAAACAAAAACA AGGGA	TCATAACAACAACAAA AACAACAA	60.2	134	INTERGENIC	--	--	--
Ca4_P1_29415605	Ca4	29415605	AATAT/AAT	AATATGCATAACTCGA CGGAGA	ACAGGTGTGCAAGAC CGACT	58.7	481	INTERGENIC	--	--	--
Ca4_P1_29416570	Ca4	29416570	AGAGTTGAGTTG/AGAGTTG	CCAATGGAAAATGGTC ATCC	GCATCAATGTCAACCA ATGC	60.0	671	INTERGENIC	--	--	--
Ca4_P1_29418053	Ca4	29418053	GAATAAATAAATAAA/GAATAAATAAT AAATAAA	TTGCTCTACGTATCT CCCG	AACCTCCACCGTACAC CACC	60.2	836	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_29418531	Ca4	29418531	TT/TTAT	GGTGGTGACGGTGG AAGTT	GTCAAGGCAGACCAG AAAGC	59.7	383	INTERGENIC	--	--	--
Ca4_P1_29419703	Ca4	29419703	A/AC	TGATTTTACATCTGCAC CATGA	GGCATAAGCTTGCAAT GTGA	59.0	262	INTERGENIC	--	--	--
Ca4_P1_29420131	Ca4	29420131	CAAAAAAAAA/CAAAAAAAAA	TCACAATGCAAGCTTA TGCC	TTGAAACAAAAACCAC GATGA	59.8	742	INTERGENIC	--	--	--
Ca4_P1_29420218	Ca4	29420218	ATTT/ATT	TCACAATGCAAGCTTA TGCC	TTGAAACAAAAACCAC GATGA	59.8	742	INTERGENIC	--	--	--
Ca4_P1_29420847	Ca4	29420847	T/TA	CTTCGCCGTTGCTTTT CTAC	GGCTCAATGAAAAAG GCAT	60.0	526	INTERGENIC	--	--	--
Ca4_P1_29421150	Ca4	29421150	TAAAAAAAAAAAAAAAAA/TAAAAAA A	TCGCCGTTGCTTTCT ACTT	AGAGAGCCAAACGGC AGATA	60.0	728	INTERGENIC	--	--	--
Ca4_P1_29421598	Ca4	29421598	A/ATTCACCTCTTCTG	CTATCTGCCGTTTGGC TCTC	TGGTTGGCTTATGCAT TCAA	60.0	245	INTERGENIC	--	--	--
Ca4_P1_29426569	Ca4	29426569	ATTTTTTTTT/ATTTTTTTTTT	ATCCAGCGAATTTTA CCGA	TTTTGACACACACACA CCCA	59.5	781	INTERGENIC	--	--	--
Ca4_P1_29426868	Ca4	29426868	TTATATATATATATATATATATATAT ATATAT/TTATATATATATATATATAT ATATATAT	TTCAAAGTAGTTAACG ACACAAACA	TTCTTCTTGAGAAAG TTGCCA	58.1	486	INTERGENIC	--	--	--
Ca4_P1_29427590	Ca4	29427590	ATTTTT/ATTTTTTT	TGGCACTTCTCACAA GAAGAA	CCATCGGATTTTGTTA CCCT	60.0	460	INTERGENIC	--	--	--
Ca4_P1_29431394	Ca4	29431394	TAAAAAAAAAAAAAAAAA/TAAAAAAAA	TCGACCTTGTTAGGAG CGAT	CCATAGCCAATGGTTC CTTC	59.8	629	INTERGENIC	--	--	--
Ca4_P1_29443305	Ca4	29443305	CTTTTTTTTT/CTTTTTTTTT	CCTGCCAACAAACCAA CTTT	GGCTGGAGGAAAAACA AACAA	60.0	643	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_29443790	Ca4	29443790	GTTTTTTTT/GTTTTTTTTT	TTGTTTGTTCCTCCA GCC	TCGTGTCTCAAAATTC AAGGAG	60.1	667	INTERGENIC	--	--	--
Ca4_P1_29463257	Ca4	29463257	GAAAAAA/GAAAAAA	TGCTTGGTCTTGAGC CTCT	ATGTTCTGTGTTTTCC CCAA	60.1	297	INTERGENIC	--	--	--
Ca4_P1_29480362	Ca4	29480362	ACCCCCC/ACCCCC	GGAAACCAATCTGAA GCAA	GCTTTGGAGCACAGA GGTTC	60.1	728	INTERGENIC	--	--	--
Ca4_P1_29498412	Ca4	29498412	ATTTTTTT/ATTTTTTT	TTGATTGATTTTGG ATTGTC	AAC TTGATTTGAATATT GCCATTG	60.0	779	INTERGENIC	--	--	--
Ca4_P1_29503488	Ca4	29503488	ATTTTTTTTT/ATTTTTTTTTTT	TGTATGTCCTCCTCT TTGTCA	GGGGTACTCAACCCA CAAAA	59.6	735	DRR	Ca_14160	--	--
Ca4_P1_29509804	Ca4	29509804	GTTTTTTTTT/GTTTTTTTTT	GGCCGATAAGACAATC ATTCA	ATCGGAAAAACCCTAT GGGA	59.9	420	INTERGENIC	--	--	--
Ca4_P1_29511821	Ca4	29511821	CTTTTTTT/CTTTTTTTTT	AAAGGGCTAAATAGCT CCCG	TCCCATTGGTCATT TGTT	59.7	506	INTERGENIC	--	--	--
Ca4_P1_29515377	Ca4	29515377	TAAAAAAA/TAAAAAAA	CGATGAGAGATGGTTA GGGTG	GGGAAGAAGCTTGATT CACCT	59.6	436	INTERGENIC	--	--	--
Ca4_P1_29519692	Ca4	29519692	CAAAAAAA/CAAAAAAA	CGAAAGTTTAAATGC GATGTG	TTTCATAAAGCTTCTC GGTTTG	59.7	396	INTERGENIC	--	--	--
Ca4_P1_29522577	Ca4	29522577	C/CAT	CCATTTCATTCATCCA TCC	CAAAGCTGCTTCATTG TGGA	60.0	416	DRR	Ca_14161	--	--
Ca4_P1_29532946	Ca4	29532946	TAAAAAAA/TAAAAAAA	CCATATTATCCATGACT TGGCA	CCGTTAGAAATCAAT GGGC	59.7	562	INTERGENIC	--	--	--
Ca4_P1_29534339	Ca4	29534339	CAAAAAA/CAAAAAA	GGTCCGTCAAAAGAGT GTGAG	CCTCGAGCTATGCAAT ATGATG	59.8	564	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_29544316	Ca4	29544316	GATAT/GAT	CCATCAAACCAACA AACA	CCCAATTCCTCCGT TTTT	57.8	706	INTERGENIC	--	--	--
Ca4_P1_29545135	Ca4	29545135	AATTATTTATTATTTAT/AATTATTTAT ATTTATTATTAT	CATACGTGATACGCTG GGTG	GTGAGGGAGGACCAA AACAA	60.0	659	INTERGENIC	--	--	--
Ca4_P1_29547360	Ca4	29547360	CTTTTTTT/CTTTTTTT	TCCCACACATCCAAAA CAAA	TTGGTCCCTATAAGTT GGCG	59.8	613	INTERGENIC	--	--	--
Ca4_P1_29564267	Ca4	29564267	TAAAAAAAA/TAAAAAAAAAAAA	AAGAAGGATTCTCGG GAAA	CATGGACCGTTCTTCC AAGT	60.0	260	INTERGENIC	--	--	--
Ca4_P1_29564628	Ca4	29564628	GTTTT/GTTTTT	GAACGGTCCATGCAAA AGTT	AGTTTCCCGATCCTT ATGC	60.0	535	INTERGENIC	--	--	--
Ca4_P1_29566926	Ca4	29566926	GTTTTTTTTTTT/GTTTTTTTTT	CTCTTTGCGCTGCGA TTAG	TGAAACCAGATTTTGA GTCCG	60.0	701	INTERGENIC	--	--	--
Ca4_P1_29570352	Ca4	29570352	CAAAAAAAAAAAAA/CAAAAAAAAA AAA	GAGATCCAAAAGGTG TCCA	TTATTCTTCTGCTCG CGTT	60.1	633	INTERGENIC	--	--	--
Ca4_P1_29582409	Ca4	29582409	TAAAA/TAAA	AGCTGTATTGGGCCTC CTTT	GCCGAATAAAACCCCTC ACAA	60.1	212	INTERGENIC	--	--	--
Ca4_P1_29595669	Ca4	29595669	T/TA	TGCACGTACTIONCGCAT TCTT	TAGCAACAGGCCAGA GAGGT	59.5	458	INTERGENIC	--	--	--
Ca4_P1_29618138	Ca4	29618138	C/CAATGTTGT	AGTGATTTCGGGACTG GATG	CATCATCAACAACAAC AACAA	59.9	443	INTERGENIC	--	--	--
Ca4_P1_29618955	Ca4	29618955	GAA/GAAA	ACCGTTGACACCGAAT TAGC	CCTTCTTACTCCTAA CCCC	60.0	727	INTERGENIC	--	--	--
Ca4_P1_29619182	Ca4	29619182	AG/A	TTGTCGTGGTGATTAA TGAAAA	GCCGACACCTTCAATC AAAT	59.4	751	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_29622506	Ca4	29622506	ATTTTTTT/ATTTTTTTTT	CCCCACGATCCTGAA TAAA	AACGATGATCGCAACA ACAA	59.8	281	INTERGENIC	--	--	--
Ca4_P1_29624503	Ca4	29624503	CCACA/CCA	TGCACAAGACCATGCT AACC	CCTTGATTGTGGCACC TTTT	59.7	619	INTERGENIC	--	--	--
Ca4_P1_29626397	Ca4	29626397	CTTTTTTTTT/CTTTTTTTTT	ACCCCATTTTCATCCTC ATCA	CTTAGTGAGTGAGAG CGCC	60.1	398	INTERGENIC	--	--	--
Ca4_P1_29626809	Ca4	29626809	CTTTTTTT/CTTTTTTT	CTAGGAGAAGGGGA TTTGG	TGTGTTTGAATCTTG ATTGGG	59.9	239	INTERGENIC	--	--	--
Ca4_P1_29628090	Ca4	29628090	TAA/TAAA	TGACACCATTACCTAG GCCC	CTTCGAGAGTTGTTCC TCCG	59.8	281	INTERGENIC	--	--	--
Ca4_P1_29640045	Ca4	29640045	TAAAGA/TAAAGAAAGA	GCCTGTCTGCATTGTT TCCT	CGGACAGCAACAATT CCTT	60.3	753	INTERGENIC	--	--	--
Ca4_P1_29646991	Ca4	29646991	GGATCG/GG	AGGATTGCGTCTGTG TTGG	TCAGGACTGCAATAA CCCA	60.0	555	DRR	Ca_14165	S	--
Ca4_P1_29647367	Ca4	29647367	ACCC/ACC	TGGGTTATTTGCAGTC CTGA	GGCAAAATGACCAATG CTCT	59.1	533	DRR	Ca_14165	S	--
Ca4_P1_29648026	Ca4	29648026	TC/T	CCACCGAACATTGCTA TGAA	TCCAACAATAAACCGA AGGC	59.5	713	DRR	Ca_14165	S	--
Ca4_P1_29649360	Ca4	29649360	TAT/TATAAT	CTCGGTATGGCCTATT TCCA	TTGCTGGGCTAAATAC CGAC	59.9	527	INTERGENIC	--	--	--
Ca4_P1_29650019	Ca4	29650019	T/TA	GTCGGTATTTAGCCCA GCAA	TAGCAAGCTTGGTGCA TTTG	60.1	612	INTERGENIC	--	--	--
Ca4_P1_29654020	Ca4	29654020	CTAAGAATTA/CTA	CTCACACCCCTCAAC ACTT	AGAATTCGTGTTGCC TGGT	60.0	612	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_29658881	Ca4	29658881	TGAGGAG/TGAG	CTTTTGAGGCATTCCA CCAT	ATTTTGTTGGGGTGCT CTTG	59.9	176	INTERGENIC	--	--	--
Ca4_P1_29681493	Ca4	29681493	G/GT	ATCCCCCACACGATGA ATAA	CCAAAGAGCTGAGCG AAAAT	60.0	404	INTRON	Ca_14166	Z	MYB_related
Ca4_P1_29684929	Ca4	29684929	ATTTTTTTTT/ATTTTTTTTT	GCCCTGGCCTAAGAAT AACC	CAAGCCAACAGAACCT GGAT	59.9	562	INTRON	Ca_14166	Z	MYB_related
Ca4_P1_29698366	Ca4	29698366	GAAAAAAAA/GAAAAAAAAA	GAATGTGATTGTCGG TGTC	CTCATACAATGCGTGG ATCG	60.0	454	INTRON	Ca_14166	Z	MYB_related
Ca4_P1_29699888	Ca4	29699888	GTTTT/GTTTTT	TGGCCTATTGCTTT TGG	CCAACATCATGCTCTC CAAC	60.1	446	INTERGENIC	--	--	--
Ca4_P1_29699958	Ca4	29699958	TTG/TTGGATG	TGGCCTATTGCTTT TGG	CCAACATCATGCTCTC CAAC	60.1	446	INTERGENIC	--	--	--
Ca4_P1_29700063	Ca4	29700063	ATTTT/ATTT	TGGCCTATTGCTTT TGG	CCTACCCATACGTA CCCG	60.1	716	INTERGENIC	--	--	--
Ca4_P1_29700916	Ca4	29700916	GTTTTATCTTTTAT/GTTTTAT	CGGGTACGTATGGGT GTAGG	AAAGCCATGAGGGGA AAGAT	60.1	777	INTERGENIC	--	--	--
Ca4_P1_29701374	Ca4	29701374	G/GTTTAAATTC	AGATCTTCCCTCAT GGCT	CCTTGACAAGAAGCAA CACG	60.0	474	INTERGENIC	--	--	--
Ca4_P1_29702135	Ca4	29702135	CTTTTTT/CTTTTTTTTT	AATTAGGTGTGGAGGG CAAA	TTTCATTTTTAAACCC CCTCA	59.4	421	INTERGENIC	--	--	--
Ca4_P1_29703578	Ca4	29703578	A/AG	TTTGTATGTACGCGTC ATGTTT	TTGGTTGTGTGGTCG AGAA	58.2	488	INTERGENIC	--	--	--
Ca4_P1_29717512	Ca4	29717512	GAAATAAATA/GAAATAAATAAATA	GTTGGCATTCTCCAC TCGT	GTGCCCAACAACAAG GACT	60.1	458	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_29717836	Ca4	29717836	CTCACATTTTACTC/CTCACATTTTACT CATCACATTTTACTC	AGTCCTTGTTTGTGG GCAC	TAACAGCTCAACTGCC CTCC	60.0	373	INTERGENIC	--	--	--
Ca4_P1_29719863	Ca4	29719863	ATTTTTTT/ATTTTTTTT	GAGTTGCGCCCAACT TTTA	AGGAACAGCAAGAAC GGTGT	60.2	883	INTRON	Ca_14167	--	--
Ca4_P1_29722804	Ca4	29722804	TAAAAAAAA/TAAAAAAAAA	TCGCAGTGGAGTTTGA ATGA	TGGCCTAAATTTCCAA TCCA	60.4	739	DRR	Ca_14167	--	--
Ca4_P1_29764046	Ca4	29764046	CA/C	GGCAGCGACATGTGAT AAGA	TGGAGAGACAGTCGAT GACG	59.8	474	INTERGENIC	--	--	--
Ca4_P1_29774862	Ca4	29774862	T/TC	TGTGCTTTTCAAATCAT GCC	CATTTGAGGAGCAGCA ACAA	59.7	826	DRR	Ca_14170	K	HD-ZIP
Ca4_P1_29776445	Ca4	29776445	TAAAAAAAA/TAAAAAAAAA	TATTTTGGGCCTGGTG TTGT	TGGGCCACCCTATACC AATA	60.2	729	INTRON	Ca_14170	K	HD-ZIP
Ca4_P1_29781856	Ca4	29781856	TAAAA/TAAAAA	TGGTTGGTGAGGTGA TGTG	CCATCGAAAGGAGTG CAAAT	60.4	819	INTERGENIC	--	--	--
Ca4_P1_29782040	Ca4	29782040	GTTTTTTTTTTTT/GTTTTTTTTTTT	AAAAATACATCGGTG AAAGAA	CCATCGAAAGGAGTG CAAAT	57.8	471	INTERGENIC	--	--	--
Ca4_P1_29793706	Ca4	29793706	TAAAAAAAA/TAAAAAAAAA	AGATGTTGCTTCCCCA AGAA	CAAAAGAACCTTAGCT TCCCC	59.7	718	INTERGENIC	--	--	--
Ca4_P1_29818124	Ca4	29818124	ATTTT/ATTTTT	TGAATTCACCTCCATG AGCA	TGGAGGGTCCGTAAC TTTG	60.2	719	INTERGENIC	--	--	--
Ca4_P1_29821605	Ca4	29821605	CTTTTTTT/CTTTTTTT	GACTCATCCAAGGTTG CCAT	TTTGATGGCTCAGAAA GCCT	59.9	524	INTERGENIC	--	--	--
Ca4_P1_29862679	Ca4	29862679	ATGATCAAGATTTGATCAAGATT/AT GATCAAGATT	TCAAACCTTTCCGCT GCTT	ACCTGACAACCCCAA TTCA	60.0	636	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_29863037	Ca4	29863037	GTTATTATTATTAT/GTTATTATTATTA TTAT	TCGGGGTGTACAGTA TGGA	ACATCCAAACCCCTCA TTCA	58.8	605	INTERGENIC	--	--	--
Ca4_P1_29864644	Ca4	29864644	ATTT/ATT	TTTCTCCGCTTTTGT CAAG	TATACAAGGCCTCTTG CGCT	60.4	725	INTERGENIC	--	--	--
Ca4_P1_29866382	Ca4	29866382	CAAA/CAA	TGGGGAGGAAGTTGAC TCAG	CTTCGCACCTCTATCT TGCC	60.2	465	INTERGENIC	--	--	--
Ca4_P1_29872961	Ca4	29872961	GATATATATATATA/GATATATATAT ATA	TTTGCCAAATGTAAAT GCG	GATAGAGGGATGCCG CATAA	59.6	315	INTERGENIC	--	--	--
Ca4_P1_29897854	Ca4	29897854	C/CTCAAGTTTCAT	GCCCCCCCATTTAGA ATTT	GCCAAAGAAACACCAT CGTT	60.0	367	INTERGENIC	--	--	--
Ca4_P1_29900525	Ca4	29900525	TTATA/TTA	AACAAAGAAGAACACG GGGT	CTTTCCTGCGCATAAT CGAC	58.6	574	INTERGENIC	--	--	--
Ca4_P1_2990516	Ca4	2990516	ATTTTT/ATTTTTTT	AAGGGTGAAATAGTTG GGGG	GACTGGTTTCGCATT CCAT	60.0	441	DRR	Ca_12097	--	--
Ca4_P1_29911237	Ca4	29911237	TATGTTGA/TATGTTGATGTTGA	GTCAATGGCACAAAT GCTG	GCAGAAGGGTGTGG AAAAA	60.1	738	INTERGENIC	--	--	--
Ca4_P1_29911958	Ca4	29911958	TAAAAAAAAA/TAAAAAAAAA	TTTTTCCAACCCCTTC TGC	TAGATTGAGTGCCCA TCGC	60.1	684	INTERGENIC	--	--	--
Ca4_P1_29912693	Ca4	29912693	GATGTC/GATGTCATGTC	TGAGATCCCAACAGGC CTAA	TGGTCTTTGGAAAGCC TCAC	60.6	483	INTERGENIC	--	--	--
Ca4_P1_29925448	Ca4	29925448	G/GC	ATCGGACAGAGTTGAC CCTC	GTTTTCCAAATCGTGG CCTA	59.1	686	INTERGENIC	--	--	--
Ca4_P1_29928651	Ca4	29928651	ATTT/ATT	TTCCCAAGTTTCCAAC CAAA	TGCAACCCAAGGACAC ATAA	60.3	661	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_29931075	Ca4	29931075	GA/GAGTAA	TGTGCACCAATATCTG CCAT	GAAGAAAACCCGGGAT CAGT	60.0	670	INTERGENIC	--	--	--
Ca4_P1_29932586	Ca4	29932586	TAAAAAAAAA/TAAAAAAAAA	TCTACGGCGTCTAGTG GACA	AGCCCGAAAGGATCTA AAGG	59.5	487	INTERGENIC	--	--	--
Ca4_P1_29933754	Ca4	29933754	ATTTTTTT/ATTTTTTTT	AGCCACACGATGTTGA TTGA	TGATTAGGGAATCACC CGTT	60.1	845	INTERGENIC	--	--	--
Ca4_P1_29934874	Ca4	29934874	ATTTT/ATT	TCTTCTGACCATTCGG GTTT	ATAGACAGGGTTAGCG TGGC	59.5	370	INTERGENIC	--	--	--
Ca4_P1_29941572	Ca4	29941572	TAAAAAA/TAAAAA	CCGTGTAGGTATGATC TTTTGG	CCTTCTCTGTAATCG GCAA	58.5	324	INTERGENIC	--	--	--
Ca4_P1_29946027	Ca4	29946027	AAAAATAAAAT/AAAAATAAAATAAAT	GTCTAGCCGCCAAAA CTTG	GAATGAATTTCCAGGG CAGA	59.9	693	INTERGENIC	--	--	--
Ca4_P1_29974296	Ca4	29974296	A/ATTGAT	TTACTACAGCAGGGGC CAAG	TGTGGTGTGTTACAA ACCC	60.3	476	INTERGENIC	--	--	--
Ca4_P1_29979953	Ca4	29979953	TAAA/TAAAA	TCTCGATGTCGATTGT TGGA	GAGCTTTTCATTTTC CAAGTG	60.2	628	INTERGENIC	--	--	--
Ca4_P1_29987923	Ca4	29987923	GATGGTAT/GATGGTATGGTAT	GAGCAGAGCTGCCTAA TGCT	GGCGTTGTTGTAGAGT GCAA	59.9	419	INTERGENIC	--	--	--
Ca4_P1_30045432	Ca4	30045432	CATATAT/CATATATAT	GCGTGCATAAGTGTT GATG	ACTCACGGTGATGAGT GTGG	60.1	345	DRR	Ca_14181	--	S1Fa-like
Ca4_P1_30046858	Ca4	30046858	TG/T	TGAATGAAATTTCTGG CAGG	CGTTTTGTTGTGGCA CATT	58.7	280	INTERGENIC	--	--	--
Ca4_P1_30046973	Ca4	30046973	GAAAAAAAAA/GAAAAAAAAA	TGAATGAAATTTCTGG CAGG	CGTTTTGTTGTGGCA CATT	58.7	280	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_30072648	Ca4	30072648	TAAAAAA/TAAAAAA	TTTTCATGTTCCGCAT TCA	CGGGGTGAGTTAAATG TACGA	60.1	560	INTERGENIC	--	--	--
Ca4_P1_30075059	Ca4	30075059	CTAA/CTAATTGTTTTATAA	TCGAAACCAACCACCT TTTC	GCAATTCGACAATGCA CAAC	59.9	547	INTERGENIC	--	--	--
Ca4_P1_30076786	Ca4	30076786	GTTTTTTT/GTTTTTTTTT	GCACTTCGCTAAAG CATC	AAGCGCTCCCAATAT GCTA	60.0	432	INTERGENIC	--	--	--
Ca4_P1_30077264	Ca4	30077264	ATTTTT/ATTTTTT	GCATATTGGGAGCGC TTTA	TGGATGATTGTGACAA AATTGC	60.2	508	INTERGENIC	--	--	--
Ca4_P1_30081112	Ca4	30081112	CCCTT/CCCTTCCTT	CACGGGACAAATCTTT GACAT	TCGTCCAAGTTCATCA TCACA	59.8	941	INTERGENIC	--	--	--
Ca4_P1_30082739	Ca4	30082739	AAAAACAAACAG/AAAAACAAACAG TGGAACAAACAG	TGCGTTGTATCATGTC GGTT	TCTGGTTGTCTCTCC GTTT	60.0	389	INTERGENIC	--	--	--
Ca4_P1_30086302	Ca4	30086302	TTTTCATG/TTTTCATGCAACTTTCAT G	TTGATGTGGACTTTCT TGCG	TTTTCGGCGTAAACC TTTG	59.8	238	INTERGENIC	--	--	--
Ca4_P1_30086898	Ca4	30086898	ACTTTCT/ACT	ACGCCGAAAAACACTT TCAC	TCCATTCGACTGTCCT TCAA	60.2	630	INTERGENIC	--	--	--
Ca4_P1_30087280	Ca4	30087280	A/AGTT	GGACAGTCGAATGGAC ATCA	GTTTGGCTGGTGAG TTTGT	59.5	511	INTERGENIC	--	--	--
Ca4_P1_30091332	Ca4	30091332	GA/GAA	ACACAGTGGGGCATT TAGC	AAAAAGGAAGAGGCAT TTTGAA	60.0	380	INTERGENIC	--	--	--
Ca4_P1_30091400	Ca4	30091400	ATTTTTTTTTTTTTT/ATTTTTTTTTT	ACACAGTGGGGCATT TAGC	AAAAAGGAAGAGGCAT TTTGAA	60.0	380	INTERGENIC	--	--	--
Ca4_P1_30092712	Ca4	30092712	AT/ATTTT	GATGCGACCATCTACT GCAA	TGTCAAAACAAACGAT GTGCT	59.8	347	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_30092930	Ca4	30092930	GTTTTT/GTTTTTTT	GATGCGACCATCTACT GCAA	TGATGTGTCCTAATA TTTTCCG	59.8	529	INTERGENIC	--	--	--
Ca4_P1_30097465	Ca4	30097465	GAAA/GAA	GCAAAACGGGGACTAG AACA	CCAGGGGTTGCCCTTA GATTT	60.1	307	INTERGENIC	--	--	--
Ca4_P1_30098406	Ca4	30098406	CTGCTTCATTGCTTC/CTGCTTC	CCTCATCCCTTGAAC TTCA	TTATGATCAACGATTC GCCA	60.0	372	INTERGENIC	--	--	--
Ca4_P1_30098435	Ca4	30098435	GTTT/GTT	CCTCATCCCTTGAAC TTCA	TTATGATCAACGATTC GCCA	60.0	372	INTERGENIC	--	--	--
Ca4_P1_30101633	Ca4	30101633	ATTTT/ATTT	CCAGTTGAGCTTCACC ATCA	TGGTGGAATTGAAGA ATCA	59.8	394	INTERGENIC	--	--	--
Ca4_P1_30102999	Ca4	30102999	CC/CCCCTC	ATTTCCTCAATCCCAA CACA	ATCCTTGCTAGCCACG AAAA	60.0	662	INTERGENIC	--	--	--
Ca4_P1_30107747	Ca4	30107747	ATTTTTTTTTTT/ATTTTTTTTTTTTT	TGGTGAAGAAGCATGG TGAA	GTTGATTGCAGCCCAA TCTT	60.2	608	DRR	Ca_14184	Z	Dof
Ca4_P1_30111644	Ca4	30111644	A/AAT	CGAATTTGGATGGATT GTTT	TTCAAACCTTAAGCCA TAAACC	57.4	585	INTERGENIC	--	--	--
Ca4_P1_30112030	Ca4	30112030	TACGATTTAA/T	TTTTGCTCTTAATTTTC ACCG	TCCAACAAAAGGTGCA ACAA	57.2	884	INTERGENIC	--	--	--
Ca4_P1_30114713	Ca4	30114713	TAAAAAAA/TAAAAAAA	GCTCAAGTTATAGCCT ACAAAGGG	CAGTTTTGGTCAATCG CTCA	59.7	974	INTERGENIC	--	--	--
Ca4_P1_30115724	Ca4	30115724	TAAAAAAA/TAAAAAAA	ATCTTCTCTTCTTGAGC GGCA	GGGGGCTTAAACCCTA ACAA	60.1	337	INTERGENIC	--	--	--
Ca4_P1_30118694	Ca4	30118694	CATAGATA/CATAGATAGATA	CTCCTTCATTTCCTCC CTCC	AAGGTGGGTAAAGAA CCGC	60.0	778	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_30118773	Ca4	30118773	TG/TGG	CTCCTTCATTCCTCC CTCC	AAGGTGGGTTAAAGAA CCGC	60.0	778	INTERGENIC	--	--	--
Ca4_P1_30120661	Ca4	30120661	TAAA/TAAA	TTTGACATCCATCTTAT GCAGC	CCCTTGGGTGCGTTA GTTAT	60.1	379	INTERGENIC	--	--	--
Ca4_P1_30122538	Ca4	30122538	ATT/AT	ATGTCAATGGGCCACT TAGC	TTGTTTGTGTGCTTT GACCA	60.0	764	INTERGENIC	--	--	--
Ca4_P1_30122560	Ca4	30122560	GAA/GAAAA	ATGTCAATGGGCCACT TAGC	GTGGGGCCATTGATG AGTAA	60.0	962	INTERGENIC	--	--	--
Ca4_P1_30122790	Ca4	30122790	A/AG	TGTTGTGGGAGGTGAT TTGA	ATCTTTTGGGAGGTA GCGG	59.9	741	INTERGENIC	--	--	--
Ca4_P1_30122891	Ca4	30122891	CAA/CAAA	TGTTGTGGGAGGTGAT TTGA	GGGTCAAACCTCAAAG ACGA	59.9	862	INTERGENIC	--	--	--
Ca4_P1_30132561	Ca4	30132561	TTAGAT/TTAGATTAATAGAT	TTATTCTGGGGACTTC GTGG	TCATAACGTCAATTCTG CTCAA	59.9	339	INTERGENIC	--	--	--
Ca4_P1_30133478	Ca4	30133478	TATAT/TATATAATACATAT	CGTCAATTGATGTCGT TCACTT	TCCAGTGCCTTCATT TCTC	60.0	559	INTERGENIC	--	--	--
Ca4_P1_30134304	Ca4	30134304	GAATTAAT/GAAT	TCCTTTTGCATTACTAT CCAAGC	GGGGGTTCCATGTAAA ACATT	59.7	419	INTERGENIC	--	--	--
Ca4_P1_30134439	Ca4	30134439	CAAAAA/CAAAA	TCCTTTTGCATTACTAT CCAAGC	GGGGGTTCCATGTAAA ACATT	59.7	419	INTERGENIC	--	--	--
Ca4_P1_30141754	Ca4	30141754	AATT/A	GAACAATGACCAAGTG AATTTTGA	TATGGGATGCGTTGAG ATGA	60.3	428	INTERGENIC	--	--	--
Ca4_P1_30141789	Ca4	30141789	TTAT/TT	GAACAATGACCAAGTG AATTTTGA	TATGGGATGCGTTGAG ATGA	60.3	428	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_30142165	Ca4	30142165	TAAAAAAA/TAAAAAA	GCCACCATTGCTCTCA TACA	GGTGCTGAGATGTGT GGGA	59.7	352	INTERGENIC	--	--	--
Ca4_P1_30147475	Ca4	30147475	ATCTTCTTCTTCTTCTTCTTCTTC TTCTTC/ATCTTCTTCTTCTTCTTCTTC	CCC GTGGTAGCAAC CTTT	CATTCAAATTTTCCC CCTT	60.0	471	CDS (large-effect mutations)	Ca_14185	--	--
Ca4_P1_30147920	Ca4	30147920	ATTTTTTTTT/ATTTTTTTTTTT	ATCACCACTTCTTGCA TCCC	CATCTGCACGATTTTC CTTTT	59.9	536	INTRON	Ca_14185	--	--
Ca4_P1_30148542	Ca4	30148542	ATTTTTTTI/ATTTTTTTTT	GTTGTGTGCTGTGAGTG CTCC	TTAGTCCCTTACGTCG TGGG	59.5	302	INTRON	Ca_14185	--	--
Ca4_P1_30150930	Ca4	30150930	TTCTCT/TTCT	GCCACCTTGTTTTCAG TGGT	AAAATGGCGGTCAATA GCTG	60.0	664	INTRON	Ca_14185	--	--
Ca4_P1_30170921	Ca4	30170921	AGGGG/AGGG	CACTCATTCGGGCTTC TAGC	CCTACCTTGAGCGAAC CAAG	60.0	406	INTERGENIC	--	--	--
Ca4_P1_30172032	Ca4	30172032	G/GA	CTCAACAGCCTTATGT GCGA	GCATGGAGACTCAAAA ATCCA	60.0	673	INTERGENIC	--	--	--
Ca4_P1_30172265	Ca4	30172265	TC/T	CTCAACAGCCTTATGT GCGA	TGCGATGGAATAATGT GTCG	60.0	752	INTERGENIC	--	--	--
Ca4_P1_3017713	Ca4	3017713	ATTATTTTAAATTTATTTTAAATTTATT TTAAATTTATTTTAAATTTATTTTAAAT T/ATTATTTTAAATTTATTTTAAATTTAT TTTAAATTTATTTTAAATTTATTTTAAAT TTTATTTTAAATT	GACAAATAGTGGGGC AACC	TTGTATTGTTGTTGAG GCCA	59.3	902	INTERGENIC	--	--	--
Ca4_P1_30178438	Ca4	30178438	AAATTTCAATATTTAATTTCAATAT/AA ATTTCAATATTTAATTTCAATATTTAAT TTCAATAT	CAAGCAATTATGGTGC AACTG	AGTGAGGCAAAATGGAA ATGG	59.2	669	INTERGENIC	--	--	--
Ca4_P1_30180119	Ca4	30180119	C/CT	TCAGACCTACACTTCC GTCAAA	TGGTGAGTGAATTGTG TGGC	59.8	158	INTERGENIC	--	--	--
Ca4_P1_30180143	Ca4	30180143	ATTTTT/ATTTTTT	CTACCTCGGATCGATT CCTT	TGGTGAGTGAATTGTG TGGC	58.2	116	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_30180525	Ca4	30180525	CAAAAAAAAA/CAAAAAAAAA	GACATTCCAAATGGC AAGG	ATTGTTCCCACTTCAC CAGG	60.3	498	INTERGENIC	--	--	--
Ca4_P1_30184517	Ca4	30184517	TA/T	CGAGGGGCGTAAAAAT CATA	GCGAGATTGTTCCTG TTGT	59.9	579	INTERGENIC	--	--	--
Ca4_P1_30185691	Ca4	30185691	TAAAAAAAA/TAAAAAAAAA	CATCGCTAACTCAGTG CCAA	AATGCGTTACGGGTGA AATG	60.0	876	INTERGENIC	--	--	--
Ca4_P1_30188012	Ca4	30188012	CTTT/CTTTT	CCTCGCTGCACAATCA AATA	TGAAAGTTGTTTCAAA TGGCA	59.8	452	CDS (FRAME SHIFT)	Ca_14186	--	SAP
Ca4_P1_30194941	Ca4	30194941	AATTT/A	TTACATGGCATAGTGG GGGT	TGATCGTCAATGGGCA TCTA	60.1	502	INTERGENIC	--	--	--
Ca4_P1_30198056	Ca4	30198056	TTTT/TTTTTGAGATTCTT	GCCCATGTTTAATTAG GCC	AGCCATTCCATGTCT CTGC	60.5	860	INTERGENIC	--	--	--
Ca4_P1_30200799	Ca4	30200799	AGGGG/AGGG	GGGCATTGTTCTCTCA AACC	ATGGGGTCCTTCCAAA ATTG	59.2	908	INTERGENIC	--	--	--
Ca4_P1_30201744	Ca4	30201744	A/ACCTT	CACAAGCTGGTTTTGC TTGA	GAAAGAATGCCAGAT TGGA	60.0	529	INTERGENIC	--	--	--
Ca4_P1_30206461	Ca4	30206461	TAAAAAAAAA/TAAAAAAAAA	TCCCTCGAGCTATAGG ATGC	ATGCAATGGTTTATTC CCCA	59.4	643	DRR	Ca_14187	--	--
Ca4_P1_30207107	Ca4	30207107	TA/TACA	TGGGGAATAAACCAT GCAT	CCGGTAGTTTGGTGAT TGGA	60.0	316	DRR	Ca_14187	--	--
Ca4_P1_30210048	Ca4	30210048	ATATCACTTT/AT	GGTTTGCTTATGGGCG AGTA	CACCCGAATGAACCT TAGAA	60.0	631	INTERGENIC	--	--	--
Ca4_P1_30211443	Ca4	30211443	T/TA	ACATCAAAACAAACAGC GCAC	CCGCTAAAATTGCCCA ATAA	59.8	714	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_30211511	Ca4	30211511	A/AT	ACATCAAAACAAACAGC GCAC	CCGCTAAAATTGCCCA ATAA	59.8	714	INTERGENIC	--	--	--
Ca4_P1_30213835	Ca4	30213835	T/TA	GCGACACAAAGGCCAC TAAC	TTGCGTTCTTGTTC CTCT	60.7	888	INTERGENIC	--	--	--
Ca4_P1_30226816	Ca4	30226816	CAAAAA/CAAAA	GCTTATGCAATGCACG AAAA	CATGGGTGAAATGGA GACA	59.8	528	INTERGENIC	--	--	--
Ca4_P1_30237136	Ca4	30237136	GTTTTTTTTT/GTTTTTTTTT	CGGGAGTATTTTGGTC ACTTT	CCTCTTGTGCTTCCT CTGG	58.1	589	INTERGENIC	--	--	--
Ca4_P1_30241127	Ca4	30241127	AT/ATT	ATCAGGCTCAATCGGT TGTC	GGAAAGTGAGGGAAC CAATG	60.1	262	INTERGENIC	--	--	--
Ca4_P1_30252999	Ca4	30252999	AAAAAA/AAAAAAATAAAAA	GGGCAGCGAACTTAGT CAAG	CGGTGGAAAAGTTTCG GATA	60.0	410	INTERGENIC	--	--	--
Ca4_P1_30258323	Ca4	30258323	GAAAAAAA/GAAAAAAA	GTGTGCTGCGTTGAC ACTT	TCACGTGCACTCATCC TCTC	60.0	454	DRR	Ca_14190	R	C3H
Ca4_P1_30316103	Ca4	30316103	AA/AATA	AACCATGCTACAGGGC ATTC	TGCAGGCAACAAAGTG AAAG	60.0	412	INTERGENIC	--	--	--
Ca4_P1_30330570	Ca4	30330570	CTATATATATATATATATA/CTATAT ATATATATATATATATA	TTTCGATGGCTAGATTA CATACTGC	CCCCTCAACTCAAGAA TGATG	59.7	561	INTERGENIC	--	--	--
Ca4_P1_30332580	Ca4	30332580	ACC/AC	GTCCATCGACGAGACA TGC	AATTGCAGTTTTGGTC TTCCT	60.2	517	INTERGENIC	--	--	--
Ca4_P1_30333302	Ca4	30333302	CTTTTTTTTT/CTTTTTTTTT	AATCTATGTTTCGGATG AGATTGA	AAGGGGAGAGAGATTT GGGA	57.7	749	INTERGENIC	--	--	--
Ca4_P1_30351459	Ca4	30351459	CTTTTTTT/CTTTTTTTTT	TCCTTGAACACATCAC TTTCG	AAAATTTGATCGGTGG TGGA	57.9	314	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_30390669	Ca4	30390669	T/TA	CTACTGAAGCCCAAGC AAGG	CTTTCAGATTCGTGGC CATT	59.9	864	INTERGENIC	--	--	--
Ca4_P1_30402781	Ca4	30402781	GTTTTTTTT/GTTTTTTTTT	CCTAGATTGGGTGAAC CAGG	GGAAATTCGACCCATA CCCT	59.4	607	INTERGENIC	--	--	--
Ca4_P1_30404596	Ca4	30404596	C/CA	TTAACTGTTGGTGCGC AGTC	TGGGATAAAAGGACAC CACTC	59.9	429	INTERGENIC	--	--	--
Ca4_P1_30404870	Ca4	30404870	AATAACAT/AAT	TTAACTGTTGGTGCGC AGTC	CGTCACATTTAACACG CCAT	59.9	798	INTERGENIC	--	--	--
Ca4_P1_30408872	Ca4	30408872	AA/AAAAGA	TTGCGTTACGGATTTG ATGA	AGACTTTCGACCGACG CTAA	60.1	485	INTERGENIC	--	--	--
Ca4_P1_30415073	Ca4	30415073	GCATCATCATCATCA/GCATCATCATC ATCATCA	TTGAACATATAGGGAG GCGG	CCATCCTTTTCAATGC GAGT	59.9	423	CDS (large-effect mutations)	Ca_14197	--	--
Ca4_P1_30422668	Ca4	30422668	TGTCAATTT/TGTCAATTTAGTCAATT T	TCTGCCAAGTGACATT CCAA	CATGAACCAAACGAGT CGAA	60.2	686	INTERGENIC	--	--	--
Ca4_P1_30423088	Ca4	30423088	TAAAAAAA/TAAAAAAA	AGGGGCAAAAATACTG CTTG	CTTGATCGGCTCATGT GTTG	59.2	938	INTERGENIC	--	--	--
Ca4_P1_30429374	Ca4	30429374	TATTCATT/TATT	TGATCGCCATATCCTT AGCC	ATTTGGTTTGCCATTG TTGC	60.0	811	INTERGENIC	--	--	--
Ca4_P1_30430504	Ca4	30430504	ATATATTTA/ATA	CCCCTTCTCGTTTTTCA ACA	TTTCATGCGTGTCCGAT TTTA	60.1	643	INTERGENIC	--	--	--
Ca4_P1_30433017	Ca4	30433017	CAAAAAA/CAAAAAA	GACTGACATTCCGATG AGCA	TGCAACACGATAAGGG AACA	59.8	721	INTERGENIC	--	--	--
Ca4_P1_30454501	Ca4	30454501	TAA/TAAA	CGTGCGCTGTGTGATA GAAT	CAATTCACCTTCGAGT TGGTG	59.9	761	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca4_P1_30456018	Ca4	30456018	AT/A	GGCGAGAAAAGTTGT TGATG	TCGTTGATTTTCAACC ACCA	59.7	377	INTERGENIC	--	--	--
Ca4_P1_30459024	Ca4	30459024	ATTTTTTT/ATTTTTT	GAGCTTGCATGCTACG TCCT	ATTTGGTGACTCAAAA CGGC	60.6	758	INTERGENIC	--	--	--
Ca4_P1_30459877	Ca4	30459877	GTTTTTTTTTTT/GTTTTTTTTTTT	AAACCCTTTGCAACCA ATGA	TGCCTGTTGAAATTGT TGGA	60.3	446	INTERGENIC	--	--	--
Ca4_P1_30463711	Ca4	30463711	CAAAAA/CAAAA	TGGAAAGAAAATGCGT TTGA	ATGTGGGTCGCACTAA CACA	59.3	635	INTERGENIC	--	--	--
Ca4_P1_30463898	Ca4	30463898	ATTTTTTTT/ATTTTTTTT	GGGGGAAAAGTGATAA TGGG	AATGGCATGCAAAAAC ATCA	60.4	572	INTERGENIC	--	--	--
Ca4_P1_30464438	Ca4	30464438	CTTTTTT/CTTTTTT	TGTGTTAGTGCGACCC ACAT	TGTGAAGGGAGTGAG TTGCTT	60.0	407	INTERGENIC	--	--	--
Ca4_P1_30464759	Ca4	30464759	GACAACAACAA/GACAACAA	TGATGTTTTTGCATGC CATT	TTGGATCATCACACTC CAACA	59.9	612	INTERGENIC	--	--	--
Ca4_P1_30468001	Ca4	30468001	TATGTTGTTATGAT/TAT	CCCCAATCACAATCAT CGTT	TTTGACTGCAACAAG CAGG	60.6	494	DRR	Ca_14199	--	G2-like
Ca4_P1_30468296	Ca4	30468296	AAT/AATAT	ATTGTGCATATTCCT CCCA	CCTTAATCCACCAAAA GCCA	60.2	747	DRR	Ca_14199	--	G2-like
Ca4_P1_30468822	Ca4	30468822	AAA/AAAGAA	TGGCTTTTGGTGGATT AAGG	GGTCTCACGACCAAGT CACA	59.9	438	DRR	Ca_14199	--	G2-like
Ca4_P1_30477859	Ca4	30477859	CTTTTT/CTTTTTT	AAAATCAATCGGGAC ATCA	GAATCAAACAAAGCCC CAAA	60.1	648	INTERGENIC	--	--	--
Ca4_P1_30501632	Ca4	30501632	AGT/A	TGGGGATTATCCCTT CAAA	GCAAGTGCAACTCAC TCAATCA	59.2	595	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_30502729	Ca4	30502729	CTATATATATATAT/CTATATATATATATAT	AATGTAGCATGTGCGT AGCG	CAATTCATTGATTGT GTTGCAT	59.9	303	INTERGENIC	--	--	--
Ca4_P1_30503496	Ca4	30503496	A/AAAAAT	GAAAATATGTTAGCAC ACCACCA	TTGCTTTTGCATTCA CATACC	58.9	718	INTERGENIC	--	--	--
Ca4_P1_30528133	Ca4	30528133	ATTTTTTTTT/ATTTTTTTTT	TTTCTCTCCGAATTGT GTGA	ACGCATCGTACTCTTT GCAC	59.1	429	INTERGENIC	--	--	--
Ca4_P1_30534956	Ca4	30534956	CTTTTTTT/CTTTTTTTTT	CCATGCAAGCACAAAT TCTTT	ATGCAATTAGCCTCTG GGAA	60.1	445	INTERGENIC	--	--	--
Ca4_P1_30535730	Ca4	30535730	GACCAAAGATA/G	CCATTCAGAATTAGAA AATCACCA	CCAAATTTCCCAAGGG TTCT	59.4	582	INTERGENIC	--	--	--
Ca4_P1_30535832	Ca4	30535832	TATAAATAAATAAATAA/TATAAATAA ATAAATAAATAAATAAATAA	CCATTCAGAATTAGAA AATCACCA	CCAAATTTCCCAAGGG TTCT	59.4	582	INTERGENIC	--	--	--
Ca4_P1_30536932	Ca4	30536932	GTTTTTTTT/GTTTTTTTTTTTTT	ATCATTGAACGACCGG AAAC	CGGATACAATGGCAAT CAAA	59.8	431	INTRON	Ca_14204	--	NAC
Ca4_P1_30537523	Ca4	30537523	CA/CATA	TTTGATTGCCATTGTAT CCG	CAAAATGGAAATGCAA GAACAA	59.4	803	INTRON	Ca_14204	--	NAC
Ca4_P1_30538166	Ca4	30538166	AAAGAAG/AAAGAAGAAG	TTGTTCTTGCAATTCCA TTTTG	CGCCATCTTCTCTTC TTTG	60.0	380	CDS (large-effect mutations)	Ca_14204	--	NAC
Ca4_P1_30542137	Ca4	30542137	TAAAAA/TAAAAAA	TAAGGCATGATAAGGC CGAC	GTCATGTCACCCGTGA TGAG	60.1	299	DRR	Ca_14205	--	--
Ca4_P1_30543529	Ca4	30543529	T/TC	CACGAGATTCGTCGAG AACA	TGATGGGTCAATTTAGT GCCA	60.0	196	DRR	Ca_14205	--	--
Ca4_P1_30552355	Ca4	30552355	TG/T	TGTCGCATGCAACCTC TTAG	ACCTGTGTGTTCCCTT CCAC	60.0	528	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_30558963	Ca4	30558963	GC/G	CCCCTTTGGCATCTA TCAA	TCATCTCATTTTGCTTC CCT	59.9	510	INTERGENIC	--	--	--
Ca4_P1_30561689	Ca4	30561689	TAAAA/TAAAA	GGAGGCACCATACTTT TCCA	AGAATGGCCACTTCAA GTCAA	59.9	198	INTERGENIC	--	--	--
Ca4_P1_30565218	Ca4	30565218	CTTTTTTTTT/CTTTTTTTTT	ATGCAATCCATGTTTCG TTCA	CAATTGCAAAAACATG TCGG	59.9	551	INTERGENIC	--	--	--
Ca4_P1_30566057	Ca4	30566057	CGGG/CGG	TTTTTCAATTGGGCA TACA	ACTGGGTTGGGTAC CCTC	59.9	515	INTERGENIC	--	--	--
Ca4_P1_30566132	Ca4	30566132	ATTTTTTTT/ATTTTTTTTT	GAGGGTAACCCAAACC CAGT	CCACTTTATGTCAAC CCCT	60.1	440	INTERGENIC	--	--	--
Ca4_P1_30569960	Ca4	30569960	TAAAAAAA/TAAAAAAA	AGAGAGTGTTGCAGGC GATT	AACTCGATTTTTGTGG AGGAAA	60.0	613	INTERGENIC	--	--	--
Ca4_P1_30570798	Ca4	30570798	TAAAAAAA/TAAAAAAA	TGCTTCTCAATGACTA ACACCAA	TGTTGGTGTGACTTTT CCTTCT	59.8	881	INTERGENIC	--	--	--
Ca4_P1_30573486	Ca4	30573486	GTT/GTTT	GGCAACAAATTAGTGT GCTTAGAA	TCCTCTTCGATCAAGC ATCC	59.7	775	INTERGENIC	--	--	--
Ca4_P1_30573766	Ca4	30573766	T/TC	CATTATGATCACAGAC GATGGTG	TCCTCTTCGATCAAGC ATCC	60.3	259	DRR	Ca_14206	A	--
Ca4_P1_30582286	Ca4	30582286	GAAAAAAAA/GAAAAAAAA	TTCCCTCCCTTCCTTT GAGT	TTTTCTGCAAGTTTGT CGTTG	60.0	615	INTERGENIC	--	--	--
Ca4_P1_3058285	Ca4	3058285	AGCCGCCGCCGCCGCC/AGCCGCCG CC	TTTCCAATTCACCAC CAAT	GTGTGGTTGCAAGGAA TGTTG	60.0	799	CDS (large-effect mutations)	Ca_12104	--	--
Ca4_P1_30583911	Ca4	30583911	GAAAAA/GAAAAA	CCATTTTTGAAATTGAC GAGC	GCAAAATTGAGGTCAC TCAACC	59.6	300	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_30585117	Ca4	30585117	CT/CTTT	GCAATGAATGTGCTCT CCAA	TGTTGGGATGACTGA CCTTT	59.5	524	INTERGENIC	--	--	--
Ca4_P1_30585901	Ca4	30585901	CTTTTCTAATTTTCTA/CTTTTCTA	AAAGGTCAGTCATCCC AAACA	GAAACAGAAAACGGGA ACCA	59.4	381	INTERGENIC	--	--	--
Ca4_P1_30605673	Ca4	30605673	TGGGGG/TGGGG	CTCCGAGACGAGAAAA GGTG	CGAGCAACTCTGGTTG ATTT	60.0	670	INTERGENIC	--	--	--
Ca4_P1_30617600	Ca4	30617600	CAAAAAAAAAAAAAAAAA/CAAAAAAAAA AAAAA	GCTATGTTGTCACGAC CCAA	TGGTGGTGTGTCTC CTCA	59.6	466	INTERGENIC	--	--	--
Ca4_P1_30619694	Ca4	30619694	CAAAAA/CAAAA	ACTCACTCTGCCCTG TGTT	CCAACTTGGTTCCAAC AAAAA	59.8	566	INTERGENIC	--	--	--
Ca4_P1_30640898	Ca4	30640898	ATTTTT/ATTTTTT	TCGCGAAGAGATAAAA GGGA	ATGCACCAAAAATGCA ACAA	59.9	831	INTERGENIC	--	--	--
Ca4_P1_30650156	Ca4	30650156	AT/ATT	AAGTTCGTCGGGTAG GACT	CCAAGGCCCCATTAT TTTT	60.0	747	INTERGENIC	--	--	--
Ca4_P1_30650335	Ca4	30650335	ATTTTTTTTT/ATTTTTTTTT	TAGGCACCCTATTGGT CCTG	CCAAGGCCCCATTAT TTTT	59.9	711	INTERGENIC	--	--	--
Ca4_P1_3065355	Ca4	3065355	CATA/CATATA	ACAAAGGTCACCCTCG TCAC	CCAAACTGGGGAAAA ACAA	60.0	622	INTERGENIC	--	--	--
Ca4_P1_30653740	Ca4	30653740	AC/ACC	TGCCCATGATGCTAA ACAA	GAATGATGTCGCGGTA GGAT	60.1	513	INTERGENIC	--	--	--
Ca4_P1_30685617	Ca4	30685617	TTA/TTATCAATA	GGGAAGAATGGATTG GGAT	GGATGTTTCATTCCAC CAAAG	60.0	192	INTERGENIC	--	--	--
Ca4_P1_30690853	Ca4	30690853	TAAAAAAAA/TAAAAAAAAA	GAAACGAGTTGTTGCA CTTGA	TTGAGTTGCACGAGAA TTGC	59.0	565	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_30692279	Ca4	30692279	GTTTTTTTTTTT/GTTTTTTTTTTT	CTCCTAACCCCGTTG AGTT	TGCTAAATTTGAGT GGAAAA	60.4	495	INTERGENIC	--	--	--
Ca4_P1_30693172	Ca4	30693172	CAAAAAAAAAAAAA/CAAAAAAAAAAA AA	TTTTCACCGAACTCC AAGG	GAAATACCTAAACCC GCCC	60.1	768	INTERGENIC	--	--	--
Ca4_P1_30697175	Ca4	30697175	CTTTT/CTTT	AGATTCCATGGCACAC ACAA	CCCCAAGATTACAAA GGCA	60.0	647	INTERGENIC	--	--	--
Ca4_P1_3069954	Ca4	3069954	TTTTATTATTATTATTAT/TTTTAT TTATTATTATTATTAT	AAACCAAACTGGCGA AAAA	TGAGAAAACATATTGG GAAGGC	59.6	686	DRR	Ca_12105	--	--
Ca4_P1_30700775	Ca4	30700775	TAAAAA/TAAAAA	GGTGGAACCTTTGCA TTGG	CCCTCATGCTTGAAT TGTT	60.3	281	INTERGENIC	--	--	--
Ca4_P1_30718794	Ca4	30718794	AAACCT/A	TCCTAAGAGGAAGCCG ATCA	TTTTGTGGTTTGAAG GTCC	59.9	673	INTERGENIC	--	--	--
Ca4_P1_30737298	Ca4	30737298	ATTTTTTTTTTT/ATTTTTTTTTTT	AGGTGTGAGCCAGAAT GTCC	GTTGTGGGATGAACGT ACCC	60.1	613	INTERGENIC	--	--	--
Ca4_P1_30741967	Ca4	30741967	TCAATATTGAACA/T	ATCCGGTTCCTTTTG GTTC	TAAGGACCGGTGATCT GACA	60.2	656	INTERGENIC	--	--	--
Ca4_P1_30752597	Ca4	30752597	TAAAAAA/TAAAAAA	CGAGACACACATTTT CACCA	GAGACACCCTTGTC GTTTT	59.6	874	INTERGENIC	--	--	--
Ca4_P1_30755137	Ca4	30755137	ATTTTTTT/ATTTTTTT	CAGTAGGAAGTCACAT TCCCAGA	GCAACTGAGCTGAGA GCGTA	60.5	860	INTERGENIC	--	--	--
Ca4_P1_30755345	Ca4	30755345	TTTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTAT TATTATT/TTTATTATTATTATTATT ATTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATT	CCAAACAAAACATATTG AATCGAA	GCAACTGAGCTGAGA GCGTA	60.1	498	INTERGENIC	--	--	--
Ca4_P1_30760524	Ca4	30760524	ATT/ATTT	TTTGAAGCGGTCTCA CTCT	AAACGAATACTGCAAC GCAA	60.0	217	DRR	Ca_14211	--	ERF

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_30773714	Ca4	30773714	CTTTTTTTTT/CTTTTTTTTT	ATCCGATTGGACGGT CATA	GCAAAATCAATTTATG CTGGAA	60.2	855	INTERGENIC	--	--	--
Ca4_P1_30775212	Ca4	30775212	CTTTTTTTTT/CTTTTTTTTT	TGAACTCGTAACATAA GCCCAA	TGGGAATGCTTCTTA TGGG	59.6	931	INTERGENIC	--	--	--
Ca4_P1_30790861	Ca4	30790861	TAAAAAAAA/TAAAAAAAA	GAATTTGGCCATCAC CACT	TGTCTGCACACCCAT TTTA	59.8	530	INTERGENIC	--	--	--
Ca4_P1_30792260	Ca4	30792260	TAAAAATAAAAA/TAAAAATAAAAA AAAA	TCAATGAGTCGAAAT TGAGC	TGTTGGTGGTGCAATC CTTA	58.0	740	INTERGENIC	--	--	--
Ca4_P1_30806217	Ca4	30806217	ATTTTTTTTT/ATTTTTTTTT	TGCAATTGGAGCAAAA GTCA	GCCCTCAGATGAGAGT CAGG	60.4	616	INTERGENIC	--	--	--
Ca4_P1_3081231	Ca4	3081231	TAAAAAAAA/TAAAAAAAA	TCGCCCTTAATTGTTT GTC	TGTCTAGGTGCCCT GTGAT	59.9	571	INTERGENIC	--	--	--
Ca4_P1_30823011	Ca4	30823011	GAAAAAAAAA/GAAAAAAAAA A	CGGAAAGAACAGGAC AAACA	CACCAGGAGCGTGT TTTAT	60.1	165	INTERGENIC	--	--	--
Ca4_P1_30833853	Ca4	30833853	GC/G	GATCCTTCAAAAAGGA GGGC	TGTGAAACGGCACAA TGAT	60.0	434	INTERGENIC	--	--	--
Ca4_P1_30844654	Ca4	30844654	CTTTTTTTTT/CTTTTTTTTT	CACCTGCTTTTGACCC ATCT	GGCAATTGCTTTACGC TAGG	60.1	959	INTERGENIC	--	--	--
Ca4_P1_3085106	Ca4	3085106	AATATATATATATATATATATAT TATATATATAT/AATATATATATATAT ATATATATATATATATATATATAT AT	GGGTGGAAATTTGGAT GAAG	CGGGAAAGCATAAATA TCACC	59.2	458	INTERGENIC	--	--	--
Ca4_P1_30856676	Ca4	30856676	A/AT	TGCACTGTATTGGAAT TGTTGA	GAAATGACTGAAAAAT TTTGACC	59.1	482	DRR	Ca_14212	--	bZIP
Ca4_P1_30865017	Ca4	30865017	TAAA/TAA	AGGACGTGCAACCTT ATTG	TTGGAGCCTCATAGCC ATCT	60.0	734	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_30866796	Ca4	30866796	A/AC	AAGTTGCCTCTGCCTT TGAA	ATGTTTGCAACCCGTT TCTC	60.0	255	INTERGENIC	--	--	--
Ca4_P1_30867065	Ca4	30867065	GAAAAAAAAA/GAAAAAAAA	AAGTTGCCTCTGCCTT TGAA	CACCCCTTTGGTTGCT CCTA	60.0	651	INTERGENIC	--	--	--
Ca4_P1_30871631	Ca4	30871631	A/AT	CACCCAATCTGCAATC TTGA	TGCTTGTTTTTCGACC ATGA	59.6	362	INTERGENIC	--	--	--
Ca4_P1_30873864	Ca4	30873864	ACC/ACCC	CAAAGAGAGAACTTG CCCG	GGAAAGCGAGAAAGT GAACG	60.0	566	INTERGENIC	--	--	--
Ca4_P1_30880709	Ca4	30880709	ATT/ATTTT	TGCAGAGTAAACCAGC AACG	TTGCAAGTTGTGACTG AGGC	60.1	557	INTERGENIC	--	--	--
Ca4_P1_30880741	Ca4	30880741	CAA/CAAA	TGCAGAGTAAACCAGC AACG	TTGCAAGTTGTGACTG AGGC	60.1	557	INTERGENIC	--	--	--
Ca4_P1_30883366	Ca4	30883366	ACTCT/ACT	TTGAAGCATGCATTG AAGC	TGTGCTTTCTTCTCTG GCCT	60.0	897	INTERGENIC	--	--	--
Ca4_P1_30885134	Ca4	30885134	CAAAAA/CAAAAAA	GCATCACAAGTCCAGA ACCA	TGCTCAAGTTCATTGC ATCC	59.7	459	INTERGENIC	--	--	--
Ca4_P1_30887008	Ca4	30887008	TCTCCTC/TCTC	CCTGACCCTACAAGCC AATC	GTAGTCTCGCAAGGAC TCCG	59.6	218	INTERGENIC	--	--	--
Ca4_P1_30888513	Ca4	30888513	T/TA	GGCATAGTTGGTATTC GCCA	TCGGCTCAAAGAGTCA AGGT	60.9	627	INTERGENIC	--	--	--
Ca4_P1_30928717	Ca4	30928717	TAAAAAA/TAAAAAAA	CAATGTCCATGTGCAC CAAA	TCTGTGCGACCATCTC AGTC	60.4	949	INTERGENIC	--	--	--
Ca4_P1_30935136	Ca4	30935136	TG/T	CGGGACGTTTAATTTG CTGT	AGGCAAGAAGCTGATA GGCA	60.0	594	DRR	Ca_14214	R	HD-ZIP

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_30954265	Ca4	30954265	CAAAAAAAAA/CAAAAAAAAA	TTGCAAGAATCCATCC ATCA	GCAGATGTAACAAAC CCGAA	60.0	299	INTERGENIC	--	--	--
Ca4_P1_30959142	Ca4	30959142	TCAAAA/T	TGTTTTGAAAGATTAT GATGGGA	CACCTCAGGCACAATA AATCG	59.7	464	INTERGENIC	--	--	--
Ca4_P1_30964064	Ca4	30964064	CTTTTTTTTT/CTTTTTTTTTT	ACTAGTTGGGGACCA GCTT	CCCTTACGGCACACTT TGTT	60.0	569	INTERGENIC	--	--	--
Ca4_P1_30968151	Ca4	30968151	CTTTTTTT/CTTTTTTT	CACATCCCTTGCCATT TCTT	CCCGCATTGTAAACA TCTT	59.9	827	INTERGENIC	--	--	--
Ca4_P1_31001917	Ca4	31001917	A/AGAGG	GCTGTTGAAAGATGCA ACCA	CCTTTGCTCCTTGTGT CTCC	59.8	395	INTERGENIC	--	--	--
Ca4_P1_31002155	Ca4	31002155	GAGACA/GAGACAGACA	GCTGTTGAAAGATGCA ACCA	TGACAAGCAAGTGATC GTCTG	59.8	607	INTERGENIC	--	--	--
Ca4_P1_31002850	Ca4	31002850	GATAT/GAT	CTTCAAAAGTTTTCAC GGGC	CAAGATGAGGGGACA AGGAA	59.7	426	INTERGENIC	--	--	--
Ca4_P1_31011573	Ca4	31011573	CTT/CTTT	CAGTTCGGAACAGTT CGGT	ATGGGGGAGCAGGAG TAGAT	60.1	928	INTERGENIC	--	--	--
Ca4_P1_31016017	Ca4	31016017	AG/A	TCAACCTGATTCGAC CTTC	TGAACCAAACTCACG CAAG	60.1	551	INTERGENIC	--	--	--
Ca4_P1_31021850	Ca4	31021850	A/AC	ACGCACCAACACATT GAGA	ATCCTATGCAGTGGAT GCAA	60.2	781	INTERGENIC	--	--	--
Ca4_P1_31024618	Ca4	31024618	TAAAAAAAA/TAAAAAAAA	CGTCCTTGAAATCGTT TGGT	GCTCCCTTAACCAAAA TCCC	60.0	724	INTERGENIC	--	--	--
Ca4_P1_31029219	Ca4	31029219	GA/GATAA	TGCATCGTGAGTTTGA GGAG	GCCATTGGAACTGGA AGAA	60.0	714	DRR	Ca_14217	Q	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_31049768	Ca4	31049768	A/AAT	AAGGCCAGATCATTGG ACAC	TTCAGATTGGCAAGC CTCT	59.9	378	INTERGENIC	--	--	--
Ca4_P1_31054236	Ca4	31054236	T/TCG	TCGAGAAAGGATTTTG GGTG	CAAGGCATTTCATCA CCTT	60.0	456	INTERGENIC	--	--	--
Ca4_P1_31055489	Ca4	31055489	TT/TTCAT	CATGCACAACCTGGTT AATGG	TGTAATTGGTGGCGTT TGAA	59.0	460	INTERGENIC	--	--	--
Ca4_P1_31062648	Ca4	31062648	TT/TTTTAT	GTTCGGGTGGTGCA AACT	AAAACGACGCCTCCTA TTCTAA	59.9	521	INTERGENIC	--	--	--
Ca4_P1_31062771	Ca4	31062771	CTTTTTTTTT/CTTTTTTTTT	GTTCGGGTGGTGCA AACT	AAAACGACGCCTCCTA TTCTAA	59.9	521	INTERGENIC	--	--	--
Ca4_P1_31063154	Ca4	31063154	AATATATATATATATATATAT/AA TATATATATATATATATATAT	GAGGGGATGAATCATT AACTCG	GTAAGACCCCGCATTG TGTT	59.8	499	INTERGENIC	--	--	--
Ca4_P1_31071731	Ca4	31071731	TTGTGT/TTGTGTGT	TCAGTTTCGCAAA TCCA	TGATGTGATCTAAAG TGCGA	60.2	129	INTERGENIC	--	--	--
Ca4_P1_31072417	Ca4	31072417	TAA/TA	TGAATTCATAGTCGT TCTCCAA	TTCTTGTCTCCACAT CCAA	59.6	438	INTERGENIC	--	--	--
Ca4_P1_31079661	Ca4	31079661	TGG/TG	GCTCGTGTCAATGCAG AAAA	CCAATTACCACAGATT CGGG	60.0	337	INTERGENIC	--	--	--
Ca4_P1_3109508	Ca4	3109508	AATATATATATATATATATAT/AA TATATATATATATATATATAT	AGTCCATTGCCATT CGAG	CAGAGTTGGGAAGCT GAAGG	60.1	751	DRR	Ca_12110	--	--
Ca4_P1_31102909	Ca4	31102909	ATTTTT/ATTTTTTT	TTTACATGGTAGCGT CCCC	TGAAATTGTAGGGATT GGGC	59.8	798	DRR	Ca_14221	U	bHLH
Ca4_P1_31106521	Ca4	31106521	CCTT/CCTTCTT	ATAAGAGTGTGCGGT TTGG	TGGTTGAAATGGACGA CAAA	60.0	584	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_31107634	Ca4	31107634	GTTTT/GTTTTT	GCCTGATTTCTTGTT GAGC	GGGACTGAATCCGACT TGAA	59.8	394	INTERGENIC	--	--	--
Ca4_P1_31108602	Ca4	31108602	GGAAGAAGAA/GGAAGAAGAAGAA	GGATCAGGCCCTATTG TTGA	AGTTGGCTTTGCTTGA TGCT	59.9	476	INTERGENIC	--	--	--
Ca4_P1_31110947	Ca4	31110947	TAAAAA/TAAAAA	GCTAAAGCAATCACCA AGGC	GCCTTTGGTGACATAG CTGA	59.9	412	INTERGENIC	--	--	--
Ca4_P1_31114996	Ca4	31114996	CT/CTGT	CTTCTTCAAGTCGGTG GCTC	TTTGCAGGTCTGGAAT ACCC	60.0	213	INTERGENIC	--	--	--
Ca4_P1_31121907	Ca4	31121907	CTA/C	ACCTTGGCAGAAACAG GATG	TGCTCACTGAAGATGT TGCC	60.1	737	INTERGENIC	--	--	--
Ca4_P1_31122661	Ca4	31122661	CGGGGG/CGGGG	CCAAAATCCACAAGCC ACTT	CAAGGCAATGGGTATA TGGG	60.0	597	INTERGENIC	--	--	--
Ca4_P1_31129446	Ca4	31129446	ATTTTTTT/ATTTTTTTT	TGGGTATCCAAACCAT ATCCA	TGATTCACGTGGATGG AGAA	59.9	741	INTERGENIC	--	--	--
Ca4_P1_31135621	Ca4	31135621	GCC/GC	AGCGGAGGAGAGTTGT GAAA	CCTTTGAGGATTAGAG CCCC	60.0	923	DRR	Ca_14222	R	MYB
Ca4_P1_31137565	Ca4	31137565	GAAAAA/GAAAAAA	TTTCCGAATCGGGAGT ATGA	GTTCTGCCATCCAAC CTTA	60.4	113	DRR	Ca_14223	--	bHLH
Ca4_P1_31137943	Ca4	31137943	CAAA/CA	TAAGTTGGATGGCAG GAAC	TTGAGACCATGCTGAA AAAGTT	59.9	798	DRR	Ca_14223	--	bHLH
Ca4_P1_31138748	Ca4	31138748	GTTAATT/GTT	TGCAGCTAGCTCGTTT TTCA	GGCAGCAAACTAACAC AGCA	59.9	342	INTRON	Ca_14223	--	bHLH
Ca4_P1_31140324	Ca4	31140324	TAAAA/TAAAAA	ACTTCCATTGCTTCA GCAT	AAATGATTCTGGTGGG GACA	59.8	536	INTRON	Ca_14223	--	bHLH

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_31141569	Ca4	31141569	TTACTACTACTACTA/TTACTACTACTA CTACTA	ATGTTCCATTCCCAAT CCAA	TCTTATCCCTCCCCTG CTTT	60.0	497	INTERGENIC	--	--	--
Ca4_P1_31150025	Ca4	31150025	ATTTTTTTTTTTT/ATTTTTTTTTTT	TGAACGAAAAGCTTAT GGATATGT	AATCGACCCAATCAAG AACG	59.1	412	INTERGENIC	--	--	--
Ca4_P1_31159995	Ca4	31159995	ATAAATTAAATT/ATAAATTAAATTA TT	TTGAGCCAACAAATTG GAGA	AGTCCCCATGTAATTG TCACG	59.2	301	INTERGENIC	--	--	--
Ca4_P1_31172721	Ca4	31172721	TG/TGG	TCTTTGGATGGGTTCC ATGT	TTACACCAATCCCCC AAGA	60.2	663	INTERGENIC	--	--	--
Ca4_P1_31172943	Ca4	31172943	TA/T	TCGCCTAAGGTAAGG CTTT	TTACACCAATCCCCC AAGA	60.2	421	INTERGENIC	--	--	--
Ca4_P1_31173752	Ca4	31173752	TTTAATGTTA/TTTA	GCCTGTGTGGCTGGT TAAT	TGCACCAATCAAACGT CATT	60.0	388	INTERGENIC	--	--	--
Ca4_P1_31182932	Ca4	31182932	T/TC	CGCATATTAGCATGGA GGGT	TCGCTCGAACCAGAGT TCTT	59.9	317	INTERGENIC	--	--	--
Ca4_P1_31192815	Ca4	31192815	TGG/TG	TTGAAGGAGAAGCCAG AGTCA	TGAGGCATGCAGAAAC GTAG	60.1	238	INTERGENIC	--	--	--
Ca4_P1_31194912	Ca4	31194912	CTTTTTTTTTT/CTTTTTTTTTTT	TTCCATGTTTGTGTG AAGCA	GCACATTGCAAGGGTA TTGA	60.1	822	DRR	Ca_14224	--	S1Fa-like
Ca4_P1_31195163	Ca4	31195163	GAAAAAAAA/GAAAAAAAAA	TTTCCCGACTTGGTCC TTTA	TGCATGCAGATCTTGC TCTC	59.5	643	DRR	Ca_14224	--	S1Fa-like
Ca4_P1_31200114	Ca4	31200114	TA/TAGACCA	TTGTCTTAGGCAGCAC TGGA	TGGTGAACGAAAGTGA CGTG	59.6	903	INTERGENIC	--	--	--
Ca4_P1_3121760	Ca4	3121760	CATATATATATATATATATATATATA TATATATATAT/CATATATATATATATA TATATATATATATATATATATATATAT	ATTCAATCAACACACA CAAAAA	ATTAAATGACGACGCAT GATCT	57.2	397	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_31224726	Ca4	31224726	TAAAAAAAAAAAAA/TAAAAAAAAAA A	TGCACAAGTGAAAACC ACAA	TTTGCAATTGGTTGG TTCA	58.7	641	INTERGENIC	--	--	--
Ca4_P1_31226486	Ca4	31226486	GTTGGTGTTCATATCCAT/GT	TTCCCAATGGTGGACT GTCT	CTGTAGGGCCACCTC CAATA	60.4	458	INTRON	Ca_14227	C	--
Ca4_P1_31229085	Ca4	31229085	CTTTTTTT/CTTTTTTT	TGATGGTAAAAAGTTT ATATTGACGA	CAGTGCAACGGAAGG ACATA	58.2	485	DRR	Ca_14227	C	--
Ca4_P1_31230420	Ca4	31230420	TTCTCTCTCT/TTCTCTCTCT	CTTCCATCTCACTCC CTCG	TAGCCGACAGGGTCT CAGTT	59.8	435	INTERGENIC	--	--	--
Ca4_P1_31230662	Ca4	31230662	GAAAAA/GAAAA	CTTCCATCTCACTCC CTCG	TAGCCGACAGGGTCT CAGTT	59.8	435	INTERGENIC	--	--	--
Ca4_P1_31235171	Ca4	31235171	GTATATATATAT/GTATATATATATA T	GCCACCCTTAGGAGGA AAAG	ATTTAAATGTCGTGAC CGGC	60.1	607	INTERGENIC	--	--	--
Ca4_P1_31235705	Ca4	31235705	ATTTTTTTT/ATTTTTTTT	CAATTGCGGTTTCCAC TTTT	TTTCATGCATTTTCAAT GGGA	60.0	434	INTERGENIC	--	--	--
Ca4_P1_31236090	Ca4	31236090	ATATTATTATTATT/ATATTATTATT ATT	CAATTGCGGTTTCCAC TTTT	TTTTTACCGTGGGTGA ATCC	60.0	956	INTERGENIC	--	--	--
Ca4_P1_31237697	Ca4	31237697	TAAAAAA/TAAAAAA	CGTACACGTGCATGGA AATC	TCGTTTGCGAGATGAT TTTG	60.0	509	INTERGENIC	--	--	--
Ca4_P1_31250934	Ca4	31250934	ATT/ATTTT	AGTTTTCGCCATTTGT CACC	AACCACTTGAGCATGG GTTC	60.0	196	INTERGENIC	--	--	--
Ca4_P1_31258911	Ca4	31258911	GTT/GT	CAGGTCGTGCCAATTC TTTT	GGCTAGGATTTGCAAC AGGT	60.1	264	INTERGENIC	--	--	--
Ca4_P1_31259145	Ca4	31259145	GATATATATATATATATATATAT/GA TATATCTATATATATATATATATATA TAT	CAGGTCGTGCCAATTC TTTT	TTCAATGACGAATGTA CCATCA	60.1	404	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_31261697	Ca4	31261697	AGAAAC/AGAACTATATGAAAC	GAGCGAGCGCTAGTAA ATGC	TCGTCTCTCTCATT GTGAAA	60.3	617	DRR	Ca_14230	R	MYB_related
Ca4_P1_31274972	Ca4	31274972	TAAAAAAAAA/TAAAAAAAAA	CTATGGCACACACCAG CAAC	GATCAAGTAGGGCGG ATTCA	60.2	699	INTERGENIC	--	--	--
Ca4_P1_31275360	Ca4	31275360	ATTTTTTTTT/ATTTTTTTT	TTCAATTAGGGTTTGG GTCG	ACAGTTTGTGCGTTGT TGGT	59.8	631	INTERGENIC	--	--	--
Ca4_P1_31275708	Ca4	31275708	ATT/ATTT	AACCACAAAACGTGCA ACTTC	TTGTGCGTTGTTGGTA TTTTG	60.1	533	INTERGENIC	--	--	--
Ca4_P1_31276483	Ca4	31276483	AAATA/AA	CACGTGCAATATCAAC AAAACCT	TTCTCACAACCATACA ACCATGT	58.2	415	INTERGENIC	--	--	--
Ca4_P1_31278515	Ca4	31278515	T/TA	CTCTCGCCATTCAAA ACAC	TAGGAAGTTGGACAG GTGGC	59.3	773	INTERGENIC	--	--	--
Ca4_P1_31279281	Ca4	31279281	ACCC/ACC	GCCACCTGTCCAATT CCTA	ATACCCAAGAGGGTAT GGGC	60.1	454	INTERGENIC	--	--	--
Ca4_P1_31284485	Ca4	31284485	ATT/ATTT	ATGGCTACTCCAATGC ATCC	ACATGGCTCCCCCTTA CTCT	59.9	962	INTERGENIC	--	--	--
Ca4_P1_31284929	Ca4	31284929	ATTTT/ATTTTT	AACTGAACATCAATGC GCTG	ACATGGCTCCCCCTTA CTCT	59.9	373	INTERGENIC	--	--	--
Ca4_P1_31290902	Ca4	31290902	GAAAAAAAAA/GAAAAAAAAA	TCTGCAGGTCATGAAA CCAA	TTCATCCCAAGCAGGA AAAC	60.2	847	INTERGENIC	--	--	--
Ca4_P1_31291193	Ca4	31291193	GAAAAAAAAA/GAAAAAAAAA	CCTTGAGTTCGACACT CCGT	ACTCCGACAATGGAAC AAGG	60.3	803	INTERGENIC	--	--	--
Ca4_P1_31292377	Ca4	31292377	TCCCCCCC/TCCCCCC	AAATAAGGATGGTCCC TGCC	AGGAACAACGAAAGG GGATT	60.2	476	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_31302749	Ca4	31302749	GAAAAAAAAA/GAAAAAAAAA	CACCCACACCAACT CTCT	GTTAGGTTGGACGG ACCTC	60.0	680	INTRON	Ca_14231	--	bHLH
Ca4_P1_31303190	Ca4	31303190	CTTTTTTTTT/CTTTTTTTTT	GAGGTCCGTCACAC TAAC	TCAGACCGAGAGTGT CAAC	60.7	488	INTRON	Ca_14231	--	bHLH
Ca4_P1_31311462	Ca4	31311462	CAAA/CAAAA	ATCCATTGACAAGGCA CCAT	CAGAGAATGCAATCT GGAAA	60.2	457	INTERGENIC	--	--	--
Ca4_P1_31316566	Ca4	31316566	GAAA/GAA	CATTGTTTTGCTGTTGT GGG	CCTCACGAGCTGCTTT AACC	60.0	664	INTERGENIC	--	--	--
Ca4_P1_31317473	Ca4	31317473	ATTTTTTTTT/ATTTTTTTTT	TGAGGCGTCATGGTAG AACA	CAAATCGACATTGTTG CCAG	60.3	707	INTERGENIC	--	--	--
Ca4_P1_31317508	Ca4	31317508	TAAAAAAA/TAAAAAAA	TTGCATCAGCCATAT TTTG	CAAATCGACATTGTTG CCAG	59.7	509	INTERGENIC	--	--	--
Ca4_P1_31319641	Ca4	31319641	AG/A	CTTTGAGCACAAACAA GGCA	TCATCCGTGCAAGTA TCCA	60.0	422	INTERGENIC	--	--	--
Ca4_P1_31322894	Ca4	31322894	GAAAAAAAA/GAAAAAAAA	CTCCTAAGGTTGCCCT TTTC	GGGTTGTTCTTGACCT TTCA	60.1	623	INTERGENIC	--	--	--
Ca4_P1_31342614	Ca4	31342614	CTTTTTTTTTTTTT/CTTTTTTTTTTTTT	CTTATCAAGAGCAGGC AGGG	GGAGAGAGGCAGAGA CGAGA	60.0	163	INTERGENIC	--	--	--
Ca4_P1_31348460	Ca4	31348460	TAAAAAAA/TAAAAAAA	GTACCTTTTGGCGAT GTCT	AAACGCAACCTTTGAT AATCG	60.1	700	INTERGENIC	--	--	--
Ca4_P1_31361662	Ca4	31361662	A/AC	CATGCGCACAAAGCATA ACAT	GATTTGGATTGGAGT GGGA	60.7	114	DRR	Ca_14232	--	Trihelix
Ca4_P1_31373366	Ca4	31373366	GAACTAACAAA/GAACTAACAACTAA CAAA	GAGTGCCCAATCCCTC ATAA	CGGATGCATCACATTC AATC	59.9	250	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_31406944	Ca4	31406944	GTTTTTTTTT/GTTTTTTTTT	CAAAATTACTCGCAC AACTTGC	AAAGTGGACAAACACA AAACGA	58.9	782	INTERGENIC	--	--	--
Ca4_P1_31424088	Ca4	31424088	GAAAAA/GAAAA	TTTGAATCGAACATGG AAGAGA	TCCTTGTAAGCAATGG GAGAG	59.7	678	INTERGENIC	--	--	--
Ca4_P1_31424534	Ca4	31424534	TAAAAAAAAAAAAA/TAAAAAAAAA	TCTCCCATGCTTACA AGGAC	TTAAAGCATGACGTTG ACGG	59.2	601	INTERGENIC	--	--	--
Ca4_P1_31424757	Ca4	31424757	GTTTTTT/GTTTTTT	AATTGGCGAAACCACT TTTT	TGCACTTGTTGGGGTT GATA	58.6	501	INTERGENIC	--	--	--
Ca4_P1_31445256	Ca4	31445256	ATT/ATTT	AGATCTATGCATCGGC AACC	AGGGTACTACAGCTGC CCCT	60.1	338	INTERGENIC	--	--	--
Ca4_P1_31448720	Ca4	31448720	ATTTTTTTT/ATTTTTTT	CAAACGGGAGAACGAG AGAG	CCATGCCTGTGATCTT GATG	60.0	864	DRR	Ca_15433	E	TALE
Ca4_P1_31451185	Ca4	31451185	CT/C	CAGCACCAATGGTTGA AATG	CACGTCGATCTTTGAC ACTCA	60.0	657	INTRON	Ca_15433	E	TALE
Ca4_P1_31452576	Ca4	31452576	CTTTTTTT/CTTTTTTT	CCACTCGTGGTCCCTT AACT	TCGGCTAAATACCATT TGTGG	59.1	566	INTERGENIC	--	--	--
Ca4_P1_31452936	Ca4	31452936	GAAAAAAAAA/GAAAAAAAAA	ACCACTCGTGGTCCCT TAAC	TGTCGTGCGACGAGA GTTAT	58.9	720	INTERGENIC	--	--	--
Ca4_P1_31454413	Ca4	31454413	TAA/TAAAA	TTCTACCCACACAC ACAA	TGCCCTCCATTGAATA TGAA	59.8	489	INTERGENIC	--	--	--
Ca4_P1_31463046	Ca4	31463046	AAGTAGTAGT/AAGTAGT	TAAAACGTGCGGAACG AAAT	GCTAACTGATGCAAGG AGCC	60.5	716	INTERGENIC	--	--	--
Ca4_P1_31463085	Ca4	31463085	CAAAAAAAAA/CAAAAAAAAA	TAAAACGTGCGGAACG AAAT	GCTAACTGATGCAAGG AGCC	60.5	716	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_31529637	Ca4	31529637	CTTTTTTTTT/CTTTTTTTTT	CCAAATCCGATGAGGAAGA	TTTAAGACCCGCGATTTCAG	60.0	820	INTERGENIC	--	--	--
Ca4_P1_31531525	Ca4	31531525	G/GGT	AGGGATTGCTTGCAATGAC	AATCCCAACCAATAGCCC	60.1	387	INTERGENIC	--	--	--
Ca4_P1_31532036	Ca4	31532036	CTTTTATGG/C	ATGTACGTTTTGCCGCTTTC	TCCAAAGCGAAAGTTTGACC	60.1	520	INTERGENIC	--	--	--
Ca4_P1_31534458	Ca4	31534458	CAAAAAA/CAAAAAAA	CAAGCCAACGTGTGTTTGT	TGTGGGGGATCAAATTGTTT	59.7	371	INTERGENIC	--	--	--
Ca4_P1_31534512	Ca4	31534512	TCCCC/TCCCC	CAAGCCAACGTGTGTTTGT	GCAGGGATGTGAACCAATAA	59.7	746	INTERGENIC	--	--	--
Ca4_P1_31550170	Ca4	31550170	ACAATAGCAATAGCAA/ACAATAGCAATAGCAATAGCAATAGCAA	TTGAGCTGGTACCGTAGTAGTAG	CAAAGCGGTTTCATCATCT	59.0	287	INTERGENIC	--	--	--
Ca4_P1_31553677	Ca4	31553677	CTTTTTTTTTTT/CTTTTTTTTTTT	GTGGAGATCGAGGATTGGA	GGGCCGAAGTAAGGAGTAG	60.0	414	DRR	Ca_15437	--	--
Ca4_P1_31553921	Ca4	31553921	G/GA	GTGGAGATCGAGGATTGGA	GGGCCGAAGTAAGGAGTAG	60.0	414	DRR	Ca_15437	--	--
Ca4_P1_31554097	Ca4	31554097	CGG/CG	GTGGAGATCGAGGATTGGA	TGGCATGTTATCAGGGAACCTC	60.0	859	DRR	Ca_15437	--	--
Ca4_P1_31554908	Ca4	31554908	ATGTTGT/ATGT	TTCAAGCTGGAGAGTGCAGA	CATGCATCGAAACTCGAAAA	59.9	453	DRR	Ca_15437	--	--
Ca4_P1_31559417	Ca4	31559417	AAAG/A	CTTGGATTTTCTCCAAAGTG	TGCAGTGGGATATCCTTTGA	57.2	696	INTERGENIC	--	--	--
Ca4_P1_31560414	Ca4	31560414	C/CG	CGCTTGTGGGAATACAGGTT	TTCCAAAATCATGCGTTGAA	60.0	315	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_31568591	Ca4	31568591	TTCT/TT	ATGCTTTCACACTCC TCAA	GTCTCCCCTTGATCC ATTT	58.3	745	INTERGENIC	--	--	--
Ca4_P1_31570022	Ca4	31570022	TGGGGGG/TGGGGGGG	TATTTTGATTTTGGCT CGG	AGGAAGAGTGGAGTT GCGAA	59.9	505	INTERGENIC	--	--	--
Ca4_P1_31609144	Ca4	31609144	ATTTT/ATTT	TCGACGTTTATTTGAT GGCA	TTGAGAACTTAATTG TGGGCA	60.1	651	DRR	Ca_15441	A	--
Ca4_P1_31611840	Ca4	31611840	GTTTTTTTTT/GTTTTTTTTTTT	CGTTTTCAGCTGAGCA AATTC	TTGATCCATTGGGATT GTGA	60.0	392	INTERGENIC	--	--	--
Ca4_P1_31611867	Ca4	31611867	AAT/AATAT	CGTTTTCAGCTGAGCA AATTC	TTGATCCATTGGGATT GTGA	60.0	392	INTERGENIC	--	--	--
Ca4_P1_31612473	Ca4	31612473	TAAAAAAA/TAAAAAAA	TAAATCCAAACCGC AAGC	CACCTAAGCAAACGGG GTGT	60.1	462	INTERGENIC	--	--	--
Ca4_P1_31615846	Ca4	31615846	ATAATTAA/ATAA	GATTGCATTTTAGCA GGCA	ATCAAAATGGATTCCA CCCA	58.9	328	INTERGENIC	--	--	--
Ca4_P1_31617249	Ca4	31617249	TAAAAAAA/TAAAAAAA	CACGTTTATCGTGAGG CAAA	CTATGCACATGTCAC ACGC	59.7	597	INTERGENIC	--	--	--
Ca4_P1_31619911	Ca4	31619911	CTTT/CTTTT	TATGAATTGGGTGGGG AATC	TGAGTCTACGTTCCGT TCAAA	59.4	377	INTERGENIC	--	--	--
Ca4_P1_31620795	Ca4	31620795	TT/TTAAT	TGAACGTGGCTATTT GTCG	GATCGCATACAACAAC CGTG	59.7	352	INTERGENIC	--	--	--
Ca4_P1_31620834	Ca4	31620834	AAAAAGAAAAGAAAAGAAAAGAA AAAGAAA	TGAACGTGGCTATTT GTCG	GATCGCATACAACAAC CGTG	59.7	352	INTERGENIC	--	--	--
Ca4_P1_31626130	Ca4	31626130	CTTTTTTT/CTTTTTTTTT	TGATTCCAACAATCATC CCC	TGGCTGCAGTTCTCAA CATC	60.5	624	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_31626384	Ca4	31626384	ATG/ATGAAGTG	TGATTCCAACATCATC CCC	TGGCTGCAGTTCTCAA CATC	60.5	624	INTERGENIC	--	--	--
Ca4_P1_31630531	Ca4	31630531	AGG/AG	AGTTGAAGGTGCAAAAC ACGA	AATTTACTTGGAGGGT CGGG	59.3	288	INTERGENIC	--	--	--
Ca4_P1_31630588	Ca4	31630588	TCA/TA	AAGGTGCAAAACGAG AAGG	AATTTACTTGGAGGGT CGGG	60.3	283	INTERGENIC	--	--	--
Ca4_P1_31630741	Ca4	31630741	TAA/TA	AAGGTGCAAAACGAG AAGG	AATTTACTTGGAGGGT CGGG	60.3	283	INTERGENIC	--	--	--
Ca4_P1_31631388	Ca4	31631388	CTT/CTTT	TTTCGATGCTTTTCTCC TTCA	GGCCATGCCTCTAGGT ATCA	59.9	547	INTERGENIC	--	--	--
Ca4_P1_31631888	Ca4	31631888	AAAA/AAAAATAA	CCAACTGGTTCCAAC ATCTG	TGGCTAATCATAGCGA AACG	60.4	832	INTERGENIC	--	--	--
Ca4_P1_31633774	Ca4	31633774	AG/AGG	AAATATTGTTCAATCCG CCG	CTCCTCCAAGCCAAGT GAAG	59.8	491	INTERGENIC	--	--	--
Ca4_P1_31635059	Ca4	31635059	AT/ATT	TCAATGTGAACGGGCA TCTA	TTCACCTTAACCACGC ACAA	60.1	466	INTERGENIC	--	--	--
Ca4_P1_31635242	Ca4	31635242	ATTTACCT/A	TCAATGTGAACGGGCA TCTA	TGGTGCCTCTACAAT TTCC	60.1	778	INTERGENIC	--	--	--
Ca4_P1_31635868	Ca4	31635868	AAT/A	GGAAATTGTAGGAGGC ACCA	GTTGCGCTACGAGATG TTGA	59.9	695	INTERGENIC	--	--	--
Ca4_P1_31636148	Ca4	31636148	AT/A	GGAAATTGTAGGAGGC ACCA	GTTGCGCTACGAGATG TTGA	59.9	695	INTERGENIC	--	--	--
Ca4_P1_31636819	Ca4	31636819	CAA/CAAA	TCTCAACATCTCGTAG CGCA	TTCATGATTATTGGG TCATCT	60.7	771	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca4_P1_31639620	Ca4	31639620	GTTTT/GTTTTT	ATTTGGAGAATGATT GGCG	GTGTTTGGTTCAAGGG GAGA	59.9	412	INTERGENIC	--	--	--
Ca4_P1_31642398	Ca4	31642398	TAAAAA/TAAAAA	TGTCACCTGCACTGCCA CATA	TTTCCGGCAAAGTTCT CATAA	59.9	482	INTRON	Ca_15442	U	EIL
Ca4_P1_31644451	Ca4	31644451	TA/T	AATGTCGGAGTTTTC ATCG	GCCATCTTAGGCTTTC CCTT	59.9	953	INTRON	Ca_15442	U	EIL
Ca4_P1_31644480	Ca4	31644480	TAAA/TAAAA	CGGGAGTTTTTCATCGT TCTC	TGTGGTGGCAGGAATA TCAA	59.7	976	INTRON	Ca_15442	U	EIL
Ca4_P1_31646633	Ca4	31646633	AA/AACA	ATGGAGAAGAGGGGG AGTGT	ACCAGTCTTTACGGG CCTT	59.9	135	INTRON	Ca_15442	U	EIL
Ca4_P1_31646684	Ca4	31646684	C/CCAATCT	AAGGCCCGTAAAAGAC TGGT	AAATTGTCATTGCCC CCTG	60.0	141	INTRON	Ca_15442	U	EIL
Ca4_P1_31647747	Ca4	31647747	ATT/AT	CACGTGTGAAGGTCGA GAGA	AAGCTACCTGATCAAT GCGG	60.0	863	INTRON	Ca_15442	U	EIL
Ca4_P1_31647770	Ca4	31647770	GTTTTTTTT/GTTTTTTTT	CACGTGTGAAGGTCGA GAGA	AAGCTACCTGATCAAT GCGG	60.0	863	INTRON	Ca_15442	U	EIL
Ca4_P1_31648071	Ca4	31648071	ATTTTTTTTT/ATTTTTTTT	AAAGCTCGTTTGTAC AGTTTTT	AAGCTACCTGATCAAT GCGG	59.4	554	INTRON	Ca_15442	U	EIL
Ca4_P1_31649700	Ca4	31649700	ATTATTTTATTTTATTTT/ATTAT TTTATTTTATTTT	TTGATGATCGAATTGA CCGA	ATAAATACCTGCAGGG CACG	60.0	666	INTRON	Ca_15442	U	EIL
Ca4_P1_31649916	Ca4	31649916	AT/A	TGAGGCATTTGGAGAC AACA	ATTGACCGGTGGAAGA CATT	60.2	585	INTRON	Ca_15442	U	EIL
Ca4_P1_31649942	Ca4	31649942	CT/CTT	CGTGCCCTGCAGGTAT TTAT	ATTGACCGGTGGAAGA CATT	60.0	454	INTRON	Ca_15442	U	EIL

[illegible]

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_31718401	Ca4	31718401	AT/ATT	ATTCTCTAATGTCGG GGCT	GCCACCTTGTGAGA GTTTC	59.9	501	INTERGENIC	--	--	--
Ca4_P1_31727083	Ca4	31727083	GTTTTTT/GTTTTT	TTGTTGGGTTGGGAGT TTTC	TTGAGATGATAAGCCA TTGGG	59.8	581	INTRON	Ca_15445	G	--
Ca4_P1_31735357	Ca4	31735357	ATTTTTT/ATTTTTTTT	AAAAATGGAGGGCAAG GAGT	AAGGTTGAATCATGGG GATG	59.9	463	INTERGENIC	--	--	--
Ca4_P1_31735396	Ca4	31735396	TTCTCTC/TTCTCTCTC	AAAAATGGAGGGCAAG GAGT	AAGGTTGAATCATGGG GATG	59.9	463	INTERGENIC	--	--	--
Ca4_P1_31753116	Ca4	31753116	AAATAATAATAATAATAATAATAAT AATAATAATAATA/AAATAATAATAATA ATAATAATAATAATAATAATAATAAA TAATAATAATAATA	TTTCATCAAATTCGTCA CGC	AGCCATATGTTGTGTG CCAA	59.7	673	INTERGENIC	--	--	--
Ca4_P1_31757461	Ca4	31757461	CTTTTTTTTT/CTTTTTTTT	TATGCTAAACCAACCG CCTC	TTTTCTGACTTGGT CCTTT	60.1	383	DRR	Ca_15447	R	bZIP
Ca4_P1_31761071	Ca4	31761071	ATTTTTTT/ATTTTTT	GTGGTTAGGGGGTGA CAAGA	CATGCTCGCAATTA AATCA	59.8	529	INTERGENIC	--	--	--
Ca4_P1_31770186	Ca4	31770186	GTTTTTTTTT/GTTTTTTTTTT	TGGAGGGTCAGGTGC TTTAG	TTTGAAGTGCAAACA CGAG	60.2	276	INTERGENIC	--	--	--
Ca4_P1_31772554	Ca4	31772554	AC/A	TTATCCTCGCCAATGA CCTC	ATTCCACCAACAATAT GGGC	60.0	561	INTERGENIC	--	--	--
Ca4_P1_31797660	Ca4	31797660	GTTTTTTTTTT/GTTTTTTTTTTT	TTGACAACGGTGCCAA TTTA	ATTGATCCGCTGTTTT GGAG	60.0	540	INTERGENIC	--	--	--
Ca4_P1_31806633	Ca4	31806633	ATGTGACTAATTTT/ATGTGACTAATTT TGTGACTAATTTT	ACAAAAGCCTGGATAG CGAA	TCACATATACCCTTAA AATCGCA	59.8	410	INTERGENIC	--	--	--
Ca4_P1_31816562	Ca4	31816562	ATTTTTTTTTT/ATTTTTTTTTT	GGCTCCGATCAAAAGA AACA	GCCCTCAGATGAGAGT CAGG	60.2	545	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_31822803	Ca4	31822803	ATTTTTTT/ATTTTTTTT	CACAGATTCTCGAGG CACA	TCTAAAGCTCATGTCC CGCT	60.0	841	INTERGENIC	--	--	--
Ca4_P1_31825282	Ca4	31825282	GTTTTTT/GTTTTT	TCCCATCATGCTCATT GAA	AAACAAGGCCAAATTG GTTG	60.0	496	INTERGENIC	--	--	--
Ca4_P1_31825775	Ca4	31825775	AC/A	CAACCAATTGGCCTT GTTT	TGGACTGCCATTTTCA CAAA	59.8	322	INTERGENIC	--	--	--
Ca4_P1_31837452	Ca4	31837452	ATTTTTTTT/ATTTTTTTTT	TGGAGACCATGGAAT GCTT	TTTTGTGAATAGTCCA TGCTTCA	60.5	456	INTERGENIC	--	--	--
Ca4_P1_31852817	Ca4	31852817	TAAAAAAAA/TAAAAAAAAA	TTTGTTCATGGCGAAAC AAAC	GGTTTGTCTTTGCACC CATT	59.6	415	INTERGENIC	--	--	--
Ca4_P1_31859597	Ca4	31859597	TAAAAAAAA/TAAAAAAAAA	GTTGGAGCCCCACTT TATT	TGCAAGCAGCATCAGA GAAC	60.2	793	INTERGENIC	--	--	--
Ca4_P1_31871158	Ca4	31871158	AACACACA/AACACACACA	AAGGTGTGTGCTAAT CGGT	AAAAGGAATTTCTCAA ATTGATGG	57.2	394	INTERGENIC	--	--	--
Ca4_P1_31873869	Ca4	31873869	TTATATATATATATATATATATAT/ TTATATATATATATATATAT	CCCTGTTTCATTTATC CTTTTT	TCCCTTCAGTTCTTGG ATGC	59.4	388	INTERGENIC	--	--	--
Ca4_P1_31885190	Ca4	31885190	CTATTTATTTATTTAT/CTATTTATTTAT TTATTTAT	GGGTCCCTTATGTGAT GCAG	CCCAATCCCAATCAA TCAC	60.3	352	INTERGENIC	--	--	--
Ca4_P1_31892250	Ca4	31892250	CTTTTTTTT/CTTTTTTTTT	AACCGTTAACCACCGA AACA	TGCGGTCAACACACTT AGGA	60.3	520	INTERGENIC	--	--	--
Ca4_P1_31892313	Ca4	31892313	TTTTTCTT/TTT	AACCGTTAACCACCGA AACA	TGCGGTCAACACACTT AGGA	60.3	520	INTERGENIC	--	--	--
Ca4_P1_31915422	Ca4	31915422	CTTTT/CTTT	AGCCACATGCTATTT TGCC	AACCAAAACCAAAATTG CAGG	60.2	446	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_31917284	Ca4	31917284	AAACACGAACAC/AAACAC	ACCATGAAACCTTCGA CCTG	GTGTTGGTGTTCGTCC TGTG	60.0	274	INTERGENIC	--	--	--
Ca4_P1_31918515	Ca4	31918515	ATTTTTTTTT/ATTTTTTTTT	ATTCCACATGAACTTC CGC	GAAAGTAGGGGTGG GAAAC	59.9	568	INTERGENIC	--	--	--
Ca4_P1_31918660	Ca4	31918660	ATTTTTTTTTTTTT/ATTTTTTTTTT	ATTCCACATGAACTTC CGC	GAAAGTAGGGGTGG GAAAC	59.9	568	INTERGENIC	--	--	--
Ca4_P1_31930111	Ca4	31930111	AATATATATATA/AATATATATATAT A	GAGGAGCATTGATGGA GGAA	TTTGAAGACTTTTGG GCTC	60.2	574	INTERGENIC	--	--	--
Ca4_P1_31931258	Ca4	31931258	TAAAAAAAA/TAAAAAAAA	TCAAACCCGAGAACAA GTGA	TAACAAGCGCGCAATG TATC	59.3	595	INTERGENIC	--	--	--
Ca4_P1_31934262	Ca4	31934262	GTT/GT	ACACTCTTTTCTCACC CCCA	GTCTTTCTTCCCTT TCCG	59.5	750	INTERGENIC	--	--	--
Ca4_P1_31937240	Ca4	31937240	TGG/TGGG	CTAAGGCCCTATGTGC AAGC	CGAGACTACTCGTGG GCTTC	59.9	835	CDS (FRAME SHIFT)	Ca_15455	--	Dof
Ca4_P1_31938648	Ca4	31938648	TTA/T	AATGCTCTACAGGAGC TGGC	GAGGAGGTCCAGGAT GATGA	59.6	782	INTRON	Ca_15455	--	Dof
Ca4_P1_31948251	Ca4	31948251	AAAA/AAAAATAA	AAAATGCATATATTAAT TCATCCCAA	CTGCATGTGCAATTGT GTCA	59.0	385	INTERGENIC	--	--	--
Ca4_P1_31953618	Ca4	31953618	AATA/AA	GTGGCTTCCTCTCTCC TTCC	ATTGCACTTCCTTGCA CACA	60.3	313	INTERGENIC	--	--	--
Ca4_P1_31955209	Ca4	31955209	GCA/G	TGACGATGATTCTGGA ACACA	TTGCATGTTCTTTTC CACA	60.1	579	INTERGENIC	--	--	--
Ca4_P1_31963506	Ca4	31963506	AATATATA/AATATA	AAATGGCAGTGATGTG GTGA	TGTTGAGGCAAAATTC CAAA	60.0	572	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_31967535	Ca4	31967535	T/TC	TACCCCTTAATGGCTGG GATG	AAAAACACTTGCGATG ACCC	59.8	510	INTRON	Ca_15456	--	--
Ca4_P1_31967658	Ca4	31967658	GTTT/GTT	GGGTCATCGCAAGTGT TTTT	TTGCATGTTCTTTTC CACA	60.0	135	INTRON	Ca_15456	--	--
Ca4_P1_31972811	Ca4	31972811	CT/CTT	TTTGTGAAATTGGTTC CCTG	GGTCCAGCAGCATAG GACAT	58.4	523	INTERGENIC	--	--	--
Ca4_P1_31973044	Ca4	31973044	GTTTTTTTT/GTTTTTTT	ATGTCCTATGCTGCTG GACC	AAACAACCGTGCTATT TAGCCT	60.1	279	INTERGENIC	--	--	--
Ca4_P1_31973853	Ca4	31973853	CTTT/CTT	CGTAGTCTTCACATT TTGTTTTG	ACCACACCCACTTTTT CAGC	60.0	262	INTERGENIC	--	--	--
Ca4_P1_31974107	Ca4	31974107	T/TATA	GCTGAAAAAGTGGGTG TGGT	GAGAGTGCTGTTGGC TGTA	60.0	655	INTERGENIC	--	--	--
Ca4_P1_31974174	Ca4	31974174	AC/A	GCTGAAAAAGTGGGTG TGGT	GAGAGTGCTGTTGGC TGTA	60.0	655	INTERGENIC	--	--	--
Ca4_P1_31974935	Ca4	31974935	ATTT/ATT	TCACAGCCAACAGCAC TCTC	TCGTGCAATGCCATT CATT	60.2	633	INTERGENIC	--	--	--
Ca4_P1_31977709	Ca4	31977709	CTTTTT/CTTTT	GCAGGTAGCGACATGA ACAA	AAGTGCAACATGGCCA TACA	59.9	419	INTERGENIC	--	--	--
Ca4_P1_31978850	Ca4	31978850	CAA/CAAA	ACATTCTTATGTCGGG GCAG	ACAGCCTTTTCTCCAT CCCT	60.0	605	DRR	Ca_15457	S	--
Ca4_P1_31989643	Ca4	31989643	CTTTTTTT/CTTTTTTTTTT	GAAAGATTCTCCAC TCCC	TGCACATTGGAAATT GGTG	59.9	246	INTERGENIC	--	--	--
Ca4_P1_31991301	Ca4	31991301	GTTTTTTTT/GTTTTTT	AGACAACGACTTTGGC GTTC	ATTGCTCCTCAATCA TGGG	60.3	534	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_31994404	Ca4	31994404	TAAAA/TAAAAA	ATCAGCGAGGATGCAG AACT	CATCGCTCAGTTGGA CTCA	60.0	796	DRR	Ca_15458	--	--
Ca4_P1_32005440	Ca4	32005440	ATATTTATTTATTTATTTAT/ATATTTAT TTATTTAT	GAGGTTGGAATGTTGG CACT	TGATGTGATGGGTGCA TTTT	60.0	787	INTERGENIC	--	--	--
Ca4_P1_32008196	Ca4	32008196	TC/T	TCTGAGCACACTTGTG GGAC	TTGCGAAGTCAAGCAA ACTG	59.9	418	INTERGENIC	--	--	--
Ca4_P1_32008454	Ca4	32008454	A/ATT	TCTGAGCACACTTGTG GGAC	CATTGGTCAATTAATT CCAAAACA	59.9	956	INTERGENIC	--	--	--
Ca4_P1_32008597	Ca4	32008597	TAAAAA/TAAAAAA	CAGTTTGCTTGACTTC GCAA	TTCGTACAATTCATAC GCGG	60.2	659	INTERGENIC	--	--	--
Ca4_P1_32008875	Ca4	32008875	AATATATAT/AATAT	CAGTTTGCTTGACTTC GCAA	TTCGTACAATTCATAC GCGG	60.2	659	INTERGENIC	--	--	--
Ca4_P1_32012239	Ca4	32012239	ATTTTTTTTT/ATTTTTTTTTT	TGTGATGTTTAAAGAT GGGTGG	ATCGGCTTGCTATGTT TGCT	59.7	185	INTERGENIC	--	--	--
Ca4_P1_32021071	Ca4	32021071	ATT/ATTT	TCATGTGGCGTAAGTT CCAA	GAGTTGGGATGAAGG GACAA	60.1	744	INTERGENIC	--	--	--
Ca4_P1_32023198	Ca4	32023198	CAAAATAAAATAAAATAAAATAAA ATAAAATAAAATAAAATAAA	CAAGCTGCAACAAAC TCCA	CTAGGGGATGATGCG TGAAT	60.0	535	INTERGENIC	--	--	--
Ca4_P1_32036080	Ca4	32036080	TAAAAA/TAAAAAA	ATTCAATTCAGCATG CCTC	GCCTTGATTGTGAGA ATGGG	60.0	335	INTERGENIC	--	--	--
Ca4_P1_32042126	Ca4	32042126	TTTTATTTATTTATTTATTTATTT ATT/TTTTATTTATTTATTTATTT	TGCTAATGGACCCCT TATG	TCAACACACTGAGCCG CTAC	59.8	606	INTRON	Ca_15459	--	--
Ca4_P1_32044136	Ca4	32044136	CAA/CAAAA	CGGTGGCTTACGATGT TTTT	ATTTTCCAATGGAGTT CCCC	60.0	637	INTRON	Ca_15459	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_32045859	Ca4	32045859	T/TA	TGGGGTTTTGATCCAT TTGT	TGATGTCTTTCGATCC ACCT	60.0	607	DRR	Ca_15459	--	--
Ca4_P1_32046470	Ca4	32046470	GTGT/GTGTGT	ACTAGTGCCTTTGAAG CCGA	AATGACCCATGAAAAC CAGC	60.0	258	DRR	Ca_15459	--	--
Ca4_P1_32046867	Ca4	32046867	TAA/T	ACTAGTGCCTTTGAAG CCGA	GTTTCATGCAAAGAGCA GCAA	60.0	712	DRR	Ca_15459	--	--
Ca4_P1_32047003	Ca4	32047003	TTAATA/TTA	GCTGGTTTTCATGGGT CATT	GTTTCATGCAAAGAGCA GCAA	59.8	474	DRR	Ca_15459	--	--
Ca4_P1_32047367	Ca4	32047367	TAAA/TAAAA	TTGCTGCTCTTGCAT GAAC	CAAATGGATCAAACC CCAC	60.1	422	DRR	Ca_15459	--	--
Ca4_P1_32047491	Ca4	32047491	TTATATATATATATATATATATA/T TATATATATATATATATA	TTGCTGCTCTTGCAT GAAC	CAAATGGATCAAACC CCAC	60.1	422	INTERGENIC	--	--	--
Ca4_P1_32047782	Ca4	32047782	G/GT	TGGGGTTTTGATCCAT TTGT	AAAGCCCAAACCAACA TTGA	60.0	329	INTERGENIC	--	--	--
Ca4_P1_32048513	Ca4	32048513	TAAAAAAAA/TAAAAAAAAA	CGATTTTGTCGGTCAA TCTCT	TCACCGTAGGAAAGCT GGAT	59.2	355	INTERGENIC	--	--	--
Ca4_P1_32048942	Ca4	32048942	CTTAT/CTTATTAT	CGAAATCCAGCTTTCC TACG	TTTGGGCTCCTTGAG ATAA	59.8	670	INTERGENIC	--	--	--
Ca4_P1_32050169	Ca4	32050169	AT/ATT	TCACGTCATAAAAATG GTGGA	CATTGGAACTCTCCA CTGCT	60.2	629	INTERGENIC	--	--	--
Ca4_P1_32057442	Ca4	32057442	TAAAAAAAA/TAAAAAAAAA	TATTGCTTCGCTTCGC TTTT	GGGAAACTGCCCTAA TTCT	60.1	451	INTERGENIC	--	--	--
Ca4_P1_32067769	Ca4	32067769	CTTTTTTT/CTTTTTT	TGTTGCATTCTGTGC GAAG	GAGACACGGTGATTTT CGGT	59.8	802	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_32069410	Ca4	32069410	A/AC	CCAGTGGTGTCCCTCT TGAT	GAGACGGAATTTGGG ACAGA	60.0	767	DRR	Ca_15461	R	--
Ca4_P1_32101684	Ca4	32101684	TG/T	TCATTGCCTTGTCTGC AAAA	GCACTAACCCGACCCT AACA	60.4	632	INTRON	Ca_15462	--	--
Ca4_P1_32101908	Ca4	32101908	TG/T	TGTTAGGGTCGGGTTA GTGC	TTCTCTCGTTGTGTG GTCC	60.0	178	INTRON	Ca_15462	--	--
Ca4_P1_32103137	Ca4	32103137	TAAA/TAAAA	TAGATCATGCGGCTGT TTCA	ACCACCATTATCCGA GAAG	60.4	683	INTRON	Ca_15462	--	--
Ca4_P1_32103782	Ca4	32103782	TGTGGTG/TGTG	CTTCTCGGATGAATGG TGGT	TGGGATAGTGATGTAA TGGGC	59.9	453	INTRON	Ca_15462	--	--
Ca4_P1_32105685	Ca4	32105685	T/TC	GAGGAAGGGATCAATA ATGGC	TTGGATGATGGTGATT GATGA	59.8	650	INTRON	Ca_15462	--	--
Ca4_P1_32112436	Ca4	32112436	T/TA	TACATGTCGCGCAACT CTTC	AATTTGCACTTTTCAT GGGG	60.0	842	INTRON	Ca_15462	--	--
Ca4_P1_32118643	Ca4	32118643	AAAT/A	GCCAAAGGTAACAAAG GCAA	TGATTTCTTCATTGCAT CGG	60.1	569	INTERGENIC	--	--	--
Ca4_P1_32119212	Ca4	32119212	ATT/AT	TGTTTCGTTGTTGATAA GCATGT	TGTCCTCCTCCCTCCT TTTT	59.6	721	INTERGENIC	--	--	--
Ca4_P1_32121836	Ca4	32121836	AATA/AATATA	CCCCAAGCTTGTAAG CAAA	AATGAAAGCGTTGATT GGGT	60.2	588	INTERGENIC	--	--	--
Ca4_P1_32122386	Ca4	32122386	CTTTTTTTT/CTTTTTTTTT	TGGGTTTTACCAATC AACG	CACCAGCCAAGTCTT CCTT	60.6	359	INTERGENIC	--	--	--
Ca4_P1_32123490	Ca4	32123490	GTTTTTTTT/GTTTTTTT	TGGATTGGTTTCTCC TCAA	AGTGCAAGTTGGTCCA TTCC	59.5	716	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_32124537	Ca4	32124537	AAGA/AAGAGA	CCAAGTCACCCATGTC AGTT	CGTGCAATGAACTTGC CTTA	58.4	717	INTERGENIC	--	--	--
Ca4_P1_32126593	Ca4	32126593	TAAAAAAAAA/TAAAAAAAAA A	GGTGAAATCCCAATC GAAA	GTCGGCCTATTACCA GTCA	59.9	882	DRR	Ca_15463	J	GATA
Ca4_P1_32127096	Ca4	32127096	AGT/AGTGT	TTGACTGGTAATAGGC CGGA	CCGACCCTGTATAG CACTT	60.5	362	DRR	Ca_15463	J	GATA
Ca4_P1_32128162	Ca4	32128162	ATTTT/ATTT	CCACATCACACATTTA CGACG	CGGAGCCAGACTTAC AAGAG	59.9	598	DRR	Ca_15463	J	GATA
Ca4_P1_32137662	Ca4	32137662	TAAAAA/TAAAAAA	TCTCTCTTGCAGGTTT CTGCT	CATGGACACAATTTG CACAC	59.4	912	INTERGENIC	--	--	--
Ca4_P1_32137832	Ca4	32137832	CAAAAAA/CAAAAAAA	CGACAGCACATTAGAT AAACCG	ATGGATGATGGGCAGT AAGC	59.7	806	INTERGENIC	--	--	--
Ca4_P1_32137888	Ca4	32137888	GAAGAAA/GAA	CGACAGCACATTAGAT AAACCG	ATGGATGATGGGCAGT AAGC	59.7	806	INTERGENIC	--	--	--
Ca4_P1_32141276	Ca4	32141276	GTG/GTGGCACGTTG	ACCAACCTGTTGAAGG AAGC	CCCTCATGATATCCAC GACC	59.2	636	INTERGENIC	--	--	--
Ca4_P1_32143759	Ca4	32143759	GATATATA/GATATA	CGTTATCATTGCTTGA ACGG	TTGAGCACTTACTGGT GGGA	59.2	941	INTERGENIC	--	--	--
Ca4_P1_32144375	Ca4	32144375	TAAAAA/TAAAAAA	TCCACACAGTAAGTGC TCAA	GTCGTTGTTGGTCTGT GTGG	59.3	308	INTERGENIC	--	--	--
Ca4_P1_32147675	Ca4	32147675	AATATAT/AATAT	TTGCACAAAAGAAATC GAAAAA	ACAAATTGGCATTAC CCAT	59.7	471	INTERGENIC	--	--	--
Ca4_P1_32149191	Ca4	32149191	CTTTTTT/CTTTTTT	CGGTGAAGGGACCAC ACTAT	TGCCATAACTGCACA ACAT	59.8	404	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_32150610	Ca4	32150610	TTTGATTAC/T	GGCAAGGAATTTGTGA GAGC	AATGGTTAGGAATGAG CCTCC	59.8	953	INTERGENIC	--	--	--
Ca4_P1_32152120	Ca4	32152120	TC/T	GGCATTAAAAAGGAAA TGGC	GGATATTTTCGATGTGC ATCAGT	58.6	618	INTERGENIC	--	--	--
Ca4_P1_32152405	Ca4	32152405	ATTAAT/ATTAATTTAAT	CTGATGCACATCGAAA TATCC	TGTTCGAAATATGCAA CAAAAA	58.1	445	INTERGENIC	--	--	--
Ca4_P1_32155362	Ca4	32155362	CGGG/CGG	ATGCGTGTGTTTTGC CATA	GATGGGACTTG GTTGT ACGG	60.0	716	INTERGENIC	--	--	--
Ca4_P1_32156632	Ca4	32156632	TAAAAA/TAAAAAA	TTCAC TTGGTTGCTT GCAG	CTTAAACCATAATCCC CGCA	60.0	692	INTERGENIC	--	--	--
Ca4_P1_32159010	Ca4	32159010	ATTTTTTT/ATTTTTTTTT	TCTCTTTTAATGGGCC ATGC	ATGCATGGAATCCAGC TTTC	60.0	688	INTERGENIC	--	--	--
Ca4_P1_32159052	Ca4	32159052	TAAAA/TAAA	TCTCTTTTAATGGGCC ATGC	ATGCATGGAATCCAGC TTTC	60.0	688	INTERGENIC	--	--	--
Ca4_P1_32159427	Ca4	32159427	ATTTTTTTTT/ATTTTTTTTT	TTCCCTTGAAAGTGCA TTGA	GCTTCTATGGGCAACG TACC	59.2	224	INTERGENIC	--	--	--
Ca4_P1_32167356	Ca4	32167356	CTATA/CTA	TCGAAC TGGGACCTT ACAG	CATGCTACCTCCCATG GTGT	60.1	461	INTERGENIC	--	--	--
Ca4_P1_32169313	Ca4	32169313	ATTTTTTT/ATTTTTTTTT	TACGTTAACGGTGACC ACGA	GCAC TTGTAAACGTC CCGT	60.0	762	INTERGENIC	--	--	--
Ca4_P1_32173509	Ca4	32173509	AC/A	ACGCATGTGAGGTGTT TGAT	TACACATGGGTTAAGG GGGA	59.0	456	INTERGENIC	--	--	--
Ca4_P1_32173778	Ca4	32173778	GAAA/GAA	TGCAACACCGGAAC TT CATA	TTTCAACCAATTGTTG CTCG	60.1	299	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_32175950	Ca4	32175950	ATTTTTTTTT/ATTTTTTTTT	AATGGTGGCTTTGAAG ATGG	AAAATTGGAGGGAGG AAATG	59.9	535	INTERGENIC	--	--	--
Ca4_P1_32176267	Ca4	32176267	TAAAAAAA/TAAAAAAA	GGATGGTTTCCAATT CAAG	CATTGTGCGCATCGTT GAAG	59.2	834	INTERGENIC	--	--	--
Ca4_P1_32179388	Ca4	32179388	T/TA	TTCTTGCCTTTGTCT CTCA	TGGAAGTGAACAAAC CCCTTT	59.9	744	INTERGENIC	--	--	--
Ca4_P1_32179682	Ca4	32179682	CAATAATCAACAAA/CAATAATCAAA CAAATAATCAACAAA	TTGCATACCTCATACC ATCCC	TTGATGCATTACCTCC CACA	59.7	731	INTERGENIC	--	--	--
Ca4_P1_32180768	Ca4	32180768	CAA/CA	TAAGCCAATGAAGAT CGCC	TTTTCATCCACCCCA AATA	60.2	425	INTERGENIC	--	--	--
Ca4_P1_32186391	Ca4	32186391	CTTTT/CTTTT	GGGTGAGGCAAAATG AAAA	GGGGTGGTAGGGGAA AATTA	59.9	407	DRR	Ca_15464	R	ERF
Ca4_P1_32187077	Ca4	32187077	CTGTG/CTGTGTG	TTAAACATTATTCCG CCG	GCTTGTTTGTGGCAT GTTA	60.8	385	INTERGENIC	--	--	--
Ca4_P1_32187865	Ca4	32187865	TAAAAA/TAAAAAAA	CACGCGAACGATAAT GATG	TGGGGGAATTGGAGT GATAA	60.1	185	INTERGENIC	--	--	--
Ca4_P1_32203955	Ca4	32203955	CTTTT/CTTTT	GAAATGAATGGAGTCG CACA	TCGCGAAGTTGTTTT GTTG	59.7	700	DRR	Ca_15465	--	--
Ca4_P1_32208900	Ca4	32208900	AG/A	CGTTGCGCGAGTATAA TTTG	TCAATGTTTCAAACCA AACAAAA	59.4	370	INTERGENIC	--	--	--
Ca4_P1_32212035	Ca4	32212035	CTCA/CTCATTGATGCTTATGTCA	TGAATCAACAAATGAAA GCAGTG	TCCCGCTTCGATACAG AGAT	60.2	448	INTERGENIC	--	--	--
Ca4_P1_32212853	Ca4	32212853	CTTTTT/CTTTTTTTTT	GATCTCTGTATCGAAG CGGG	TTGCCTCCATTAAATC CTCG	59.8	700	DRR	Ca_15467	T	HB-other

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_32213937	Ca4	32213937	AA/AAAGA	GGGTAGGGGGTCCTT GTTTA	CCACCACTTGATT GTTC	60.0	738	DRR	Ca_15467	T	HB-other
Ca4_P1_32214848	Ca4	32214848	ATTTTT/ATTTTTT	CGCATGTGTATCCCTT TGTG	CGTTCTCGGAACCTT CTTTC	60.0	471	INTRON	Ca_15467	T	HB-other
Ca4_P1_32215092	Ca4	32215092	AT/A	CGCATGTGTATCCCTT TGTG	ATGGGAATGGAACCAT TGAA	60.0	918	INTRON	Ca_15467	T	HB-other
Ca4_P1_32215991	Ca4	32215991	TGTTTGAAGTTTGAAGTTTGAAGTTT GAAG/TGTTTGAAGTTTGAAGTTTGAA G	TTCAATGGTTCCATTC CCAT	ATAAGCGTGC GTTGA CTTT	60.0	599	INTERGENIC	--	--	--
Ca4_P1_32216251	Ca4	32216251	GTTTTT/GTTTTTTTT	ATAAAGGTCAACGCAC GCTT	GAAATCAACGGATCTC CATCA	59.8	384	INTERGENIC	--	--	--
Ca4_P1_32220024	Ca4	32220024	G/GCC	CGTGGGGTATTTTT ATTG	GCCTCCAGAATATGG ATCA	60.0	749	INTERGENIC	--	--	--
Ca4_P1_32222918	Ca4	32222918	ACTCT/ACT	TCCATCATCGTTCTCAT TGG	TCGAACAAAGGCAAC ACAA	59.5	225	INTERGENIC	--	--	--
Ca4_P1_32224997	Ca4	32224997	T/TC	ATATTTGTTGCTTTTGG CCC	TGGTTGAATGATTGGA ATTGA	58.9	692	INTERGENIC	--	--	--
Ca4_P1_32225876	Ca4	32225876	TTAT/TT	TCGTCGCATTGGTGTA ATGT	TCCGTGAGGACACAA GTGAG	60.0	506	INTERGENIC	--	--	--
Ca4_P1_32227293	Ca4	32227293	AAAA/AAAAATTAAAA	TCTTCACAACCCCTTG AACC	TTCTTCCAAACGAGCC TCTC	59.9	868	INTERGENIC	--	--	--
Ca4_P1_32227955	Ca4	32227955	TG/T	GAGAGGCTCGTTTGG AGAA	GCTGTGCACCTTGATGC TGAT	59.6	613	INTERGENIC	--	--	--
Ca4_P1_32239930	Ca4	32239930	TT/TTGGT	CAGGTAGAGTGCAGAT TGCG	TAATGCTTGATGCCAA ACCA	59.6	366	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_32257454	Ca4	32257454	GTTTTTTTTT/GTTTTTTTTT	TGCACTTGTTAACCA ACAATG	TGTGGGAGACCGATT CTCT	59.6	567	INTERGENIC	--	--	--
Ca4_P1_32263797	Ca4	32263797	CAAAAAA/CAAAAA	ACACATGTCCAGTTG ACGA	TGACGATGGAGGCTT TAGG	60.0	682	INTERGENIC	--	--	--
Ca4_P1_32264452	Ca4	32264452	TAAAAAAAAA/TAAAAAAAAA A	CCTAAAGCCTCCATC GTCA	CCCAATTGAAGGGTAA GTGC	60.2	800	INTERGENIC	--	--	--
Ca4_P1_32264601	Ca4	32264601	TA/TAA	GATCAAATCTCTATG CATGTGCT	CCAATTGAAGGGTAAG TGCC	59.7	608	INTERGENIC	--	--	--
Ca4_P1_32264980	Ca4	32264980	AAT/AATAT	GCACTTACCCTTCAAT TGGG	AGGAGAGGTCCATTTC TCAGG	59.4	262	INTERGENIC	--	--	--
Ca4_P1_32290639	Ca4	32290639	ATT/ATTT	GGATCAGAGAAGAGAC GGGA	TTACTTGTAGGCAGG TCCG	59.3	703	INTERGENIC	--	--	--
Ca4_P1_32301138	Ca4	32301138	CAAAAAAAAAAAAAA/CAAAAAA AAAA	TCAAAAGTCTTGTCCC CGAT	TGCACCAAATGTGCC TTGT	59.5	116	DRR	Ca_15473	P	--
Ca4_P1_32301466	Ca4	32301466	CAAAAAA/CAAAAAA	AACCATCCCACTTGAT GGAA	TCAACCAGTTTGC TCCA	60.2	186	DRR	Ca_15472	DO	MYB_related
Ca4_P1_32301599	Ca4	32301599	TAAAAA/TAAAA	TGGATTGCAAACTGG TTGA	CACGAGCTTACAAACC CACA	60.1	174	DRR	Ca_15472	DO	MYB_related
Ca4_P1_32315056	Ca4	32315056	AC/A	ATACCAACATCGACGA GGGA	GAACCTGTGTTGGGG GAGAA	60.3	333	INTERGENIC	--	--	--
Ca4_P1_32335179	Ca4	32335179	AAAGAAGAAGAAGAAGAA/AAAG AAGAAGAAGAAGAA	AAAGTCCGTTTGTGAA TCCG	TGGGCATTCAAATCAA ACAA	60.0	507	INTERGENIC	--	--	--
Ca4_P1_32340514	Ca4	32340514	CAACAAAAA/CAA	ATGGATTGCATTGCTC CTTC	TGCATCTCCTTGCTCA ACAC	59.9	589	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_32367636	Ca4	32367636	ATTTTTTTTTTTT/ATTTTTTTTTTT	TCCTCCTGTGATCTT GGCT	CATTGCTCCCTCTTAC TGCC	59.8	429	INTERGENIC	--	--	--
Ca4_P1_32369377	Ca4	32369377	TA/T	TTGGTTTCGTTTGCTT GTTG	AATAGTGCGCATGTGT GGTC	59.7	822	INTERGENIC	--	--	--
Ca4_P1_32370221	Ca4	32370221	GTTTTTTTTT/GTTTTTTTTT	GACCACACATGCGCAC TATT	TCATGCCCTTACGATC AACA	59.6	648	INTERGENIC	--	--	--
Ca4_P1_323717	Ca4	323717	ATTT/AT	CTGGGAATTGGACTTA AAAGAA	TTGTTGGGTTATCGTT GTCG	57.4	791	INTERGENIC	--	--	--
Ca4_P1_32384144	Ca4	32384144	AAAAAATAAAA/AAAAAATAAAAAAT AAAA	GCTTGTGGTTGTCGGA TCTT	ATGAGTTGCTTTTGGT TCCG	60.1	667	INTERGENIC	--	--	--
Ca4_P1_32384172	Ca4	32384172	TAAAAAA/TAAAAAA	GCTTGTGGTTGTCGGA TCTT	ATGAGTTGCTTTTGGT TCCG	60.1	667	INTERGENIC	--	--	--
Ca4_P1_32386770	Ca4	32386770	CAAAAA/CAAAAA	TTCATTAGGGATTTTG GGCA	GGTTCCAACAATCTCC CCTT	60.3	618	INTERGENIC	--	--	--
Ca4_P1_32388402	Ca4	32388402	ATTTTTTTT/ATTTTTTTT	TCAATTGCTTGTGCC TCTG	AGAGACATAACAAAGG GCCG	60.0	606	INTERGENIC	--	--	--
Ca4_P1_32388627	Ca4	32388627	CTTTTTTTTTT/CTTTTTTTT	CGGCCCTTTGTTATGT CTCT	AGACCGTGAACGGCTT ATAGA	59.2	611	INTERGENIC	--	--	--
Ca4_P1_32389433	Ca4	32389433	ATTTT/ATTTT	TAAATGGAATTCGCC CAAA	GCGTGTCTGCAATGAT TGTT	60.3	732	INTERGENIC	--	--	--
Ca4_P1_32392989	Ca4	32392989	AT/A	ACAAATGTTGTGTCGC TTGA	CGAGAGTATTCATTGT CTTGACCAT	60.2	620	DRR	Ca_15475	--	--
Ca4_P1_32395281	Ca4	32395281	TA/TAA	GGTTAACAAATCTCCT AAAGGCA	TTTGTGTAAGAATTG CGACCTC	58.7	523	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_32395719	Ca4	32395719	TAAAAAAAAA/TAAAAAAAAA	GGTTAACAAATCTCT AAAGGCA	CCAAACAAAGAAATGA CGAACA	58.7	665	INTERGENIC	--	--	--
Ca4_P1_32396185	Ca4	32396185	TCCC/TCC	TCGTCATTCTTTGTT GGTTG	TCCAATTTCCGTGTC ATGT	60.0	346	INTERGENIC	--	--	--
Ca4_P1_32398144	Ca4	32398144	TAAAAAAAAA/TAAAAAAAAA	ATTTTGAAAAATCTGC GGGG	GGACCACGAATGTAAT TTAGCC	61.1	955	INTERGENIC	--	--	--
Ca4_P1_32399781	Ca4	32399781	GAAAAAA/GAAAAAA	TTCTGTCCGAGTATGG GTCC	TTGATGGTTCGTTAA ACAATTT	59.9	697	INTERGENIC	--	--	--
Ca4_P1_32400480	Ca4	32400480	ATTT/ATT	TCATAGAGCTTGCCCT AGCC	AACATTTGTGCCACAC TCCA	59.6	375	INTERGENIC	--	--	--
Ca4_P1_32401010	Ca4	32401010	TAAA/TAAA	TGGAGTGTGGCACA TGTT	GAACACCACCGATTTC ACCT	60.0	498	INTERGENIC	--	--	--
Ca4_P1_32410630	Ca4	32410630	TA/TAA	TTATTCCACCCACCT CAAA	CTCAGCTCATTGGTTT GGTG	60.2	262	INTERGENIC	--	--	--
Ca4_P1_32413475	Ca4	32413475	AAT/AATAT	TTGTGCAACCCTTGAA ATGA	CAATTTCCCATCTAA GCTTCTC	60.1	722	INTERGENIC	--	--	--
Ca4_P1_32415458	Ca4	32415458	CTTT/CTTTTT	AACATGGAGGGTCATG GAAA	AACCTTGTGCGATTAAG CACGG	60.2	435	INTERGENIC	--	--	--
Ca4_P1_32416231	Ca4	32416231	ATT/AT	CCCACATTGAAATTT GGAG	GAAGGAGGGGAAATTT TGACA	60.2	680	INTERGENIC	--	--	--
Ca4_P1_32418479	Ca4	32418479	AAT/A	TGTTAGAACGAGTGGG TGAAAA	ACTTGCTTGGTCCCT CTTT	59.6	501	INTERGENIC	--	--	--
Ca4_P1_32431643	Ca4	32431643	TTAATAATAA/TTAATAA	ACCCAACCTCATCTGC ATTG	TTTCAGAAAACTACG GAACAAA	59.9	362	DRR	Ca_15476	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_32432521	Ca4	32432521	TC/TCC	CATGCATGTTTAATGTA TTAGTGACAA	TTTCATGACTTTGTGTC GGGA	59.3	625	INTERGENIC	--	--	--
Ca4_P1_32434494	Ca4	32434494	TACTT/TACTTATTTAACTT	GTTTCCCGTTCTCTC CTCC	ACCAAGTCGAATTGTG GACC	60.1	400	INTERGENIC	--	--	--
Ca4_P1_32454180	Ca4	32454180	TAA/TAAA	GCGGATACATTTCTTT GGG	AAACAAGCGGAAGAG CTTGA	59.4	310	INTERGENIC	--	--	--
Ca4_P1_32454199	Ca4	32454199	TAAAAAAAAA/TAAAAAAAAA	GCGGATACATTTCTTT GGG	CTTCAGCTAATCGCTT TCCG	59.4	716	INTERGENIC	--	--	--
Ca4_P1_32457295	Ca4	32457295	AC/A	TGTGCTCAACCCAAT TGAA	ACAAGTTGTGGAGTG GGAC	60.1	278	INTERGENIC	--	--	--
Ca4_P1_32460225	Ca4	32460225	TAAAAAAAAA/TAAAAAAAAA	CGGAGATCCATAACAC GGTC	TTTGAAAGAGAAATCC ACCCA	60.3	242	INTERGENIC	--	--	--
Ca4_P1_32464896	Ca4	32464896	CTTTTTTTT/CTTTTTTTT	CCTGTTTTGTGGGAAC CTGT	TGGAGGAAGCAAGGA AAGAA	59.9	684	INTERGENIC	--	--	--
Ca4_P1_32467001	Ca4	32467001	GTTTTTTT/GTTTTTTT	GCGTTTGTTCTTGT GGGT	CCATGCTACTTTGCAT GTGG	60.0	688	INTERGENIC	--	--	--
Ca4_P1_32467491	Ca4	32467491	CTAATTAA/CTAA	AAATGCTAACGGTGCA AACA	GACGTAGAACGATTAA CACCCA	59.2	465	INTERGENIC	--	--	--
Ca4_P1_32473583	Ca4	32473583	TTTTTTTATTTTTATTTT/TTTTTTTAT TTTTTATTTTTATTTT	TGATCTTAGCGATGGT TCCC	TGAGCGTTCGATTTTG TTTG	60.0	687	INTERGENIC	--	--	--
Ca4_P1_32482372	Ca4	32482372	AGGGG/AGGGGG	TACCAAACCCCTTGGT CATC	TTTTGGCGGAAATGT TTTA	59.6	583	INTERGENIC	--	--	--
Ca4_P1_32482909	Ca4	32482909	TG/T	GTTAAACATTTCCGC CCAA	CAAGAACGAAGAAAA CGCC	59.8	485	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_32484353	Ca4	32484353	CTTTTT/CTTTTTTT	TTATCCTTTGCTGCC AAAC	ATCATGTTGCCCTAA TCCA	60.1	753	INTERGENIC	--	--	--
Ca4_P1_32489291	Ca4	32489291	ATT/ATTGTT	CGACAAAGAGGTGGAT GGTT	CCTCCATCAATAATA TAAACCCC	60.0	423	INTERGENIC	--	--	--
Ca4_P1_32489332	Ca4	32489332	AA/AAATA	CGACAAAGAGGTGGAT GGTT	CCTCCATCAATAATA TAAACCCC	60.0	423	INTERGENIC	--	--	--
Ca4_P1_32492099	Ca4	32492099	ATTTTT/ATTTTTTT	TGCTATTTTCGTGTG GTTTGA	TGTCCGCTTCAGTGTA ATGC	59.3	454	INTERGENIC	--	--	--
Ca4_P1_32492742	Ca4	32492742	AAGA/AA	AGTGGATTGGGTGGAA AATG	GCCAATTTCAATTAAG CCGA	59.6	296	INTERGENIC	--	--	--
Ca4_P1_32494646	Ca4	32494646	GAAAAAA/GAAAAAAA	CAATTCACCTGAAACG TCTTCAT	CACAAATCGACAAAG ACATGC	59.7	386	INTERGENIC	--	--	--
Ca4_P1_32494672	Ca4	32494672	TA/T	CAATTCACCTGAAACG TCTTCAT	CACAAATCGACAAAG ACATGC	59.7	386	INTERGENIC	--	--	--
Ca4_P1_32496585	Ca4	32496585	TATTTATTTTA/TATTTATTTTAAAT TTATTTTA	CCACAATCCACCGTCT ACCT	CCCAGACCCCTCATAA TCAA	59.8	565	INTERGENIC	--	--	--
Ca4_P1_32496789	Ca4	32496789	TAAAAAA/TAAAAAAA	CCACAATCCACCGTCT ACCT	CCCAGACCCCTCATAA TCAA	59.8	565	INTERGENIC	--	--	--
Ca4_P1_32497649	Ca4	32497649	ATTTTTTTTT/ATTTTTTTTT	TACTTCTGCATGAGGG GGAT	TCCAACCAAAGCGATT TTTC	59.5	505	INTERGENIC	--	--	--
Ca4_P1_32498847	Ca4	32498847	AG/A	TAGCACGGACCCCAAT TAAG	TGAACCCCATCAAAG GATA	60.0	897	INTERGENIC	--	--	--
Ca4_P1_32509855	Ca4	32509855	TAAAAA/TAAAAA	GCATTCCCTCTGGACT TTGA	GAAACTTTGCCCCCTA TGGT	60.2	454	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_32511907	Ca4	32511907	T/TG	TTTCTCCGTTATGTG TCGG	TGAGTGCTGGGAAC TACCC	60.9	704	INTERGENIC	--	--	--
Ca4_P1_32512065	Ca4	32512065	AG/A	TTTCTCCGTTATGTG TCGG	TGAGTGCTGGGAAC TACCC	60.9	704	INTERGENIC	--	--	--
Ca4_P1_32514320	Ca4	32514320	GACATTGACTTTTT/GACATTGACTTT TTTCAACATTGACTTTTT	ATTACTGGACCAGAG CACG	AATGTCCATTCTGGGA CGAG	60.1	510	INTERGENIC	--	--	--
Ca4_P1_32515759	Ca4	32515759	TG/T	CTATTGGCGGTTCTGT TGGT	AGGACCCCAACATCA CAAG	60.0	586	INTERGENIC	--	--	--
Ca4_P1_32522290	Ca4	32522290	GAAAAAAAA/GAAAAAAAAA	ACTCATTATTCCACA GCCC	TTGCTAACGGTAACAC AACGA	59.9	851	INTERGENIC	--	--	--
Ca4_P1_32523241	Ca4	32523241	TAAA/TAAAAA	GAAGGAGGAGGAGAG TGCAG	ATTGAACACGACGCAA ATCA	59.1	391	INTERGENIC	--	--	--
Ca4_P1_32523443	Ca4	32523443	TAAAAA/TAAAAA	GAAGGAGGAGGAGAG TGCAG	ATTGAACACGACGCAA ATCA	59.1	391	INTERGENIC	--	--	--
Ca4_P1_32524102	Ca4	32524102	T/TG	CTTGGGCTCTCCTCT CTCT	TTTCGGTACACAATT CCCC	60.1	502	INTERGENIC	--	--	--
Ca4_P1_32524319	Ca4	32524319	ATTTTTTTTT/ATTTTTTT	CTTGGGCTCTCCTCT CTCT	TTTCGGTACACAATT CCCC	60.1	502	INTERGENIC	--	--	--
Ca4_P1_32525507	Ca4	32525507	CAAAA/CAAAA	GTCATGCATATGTTGG ACGC	AAGTTTTCTTCCCGCT CACA	60.0	460	INTERGENIC	--	--	--
Ca4_P1_32529368	Ca4	32529368	GATATATATAT/GATATATATATAT T	GGGTGTGATTAATGGG TTTG	TCAGGGGTTCATGG TATTT	60.1	457	INTERGENIC	--	--	--
Ca4_P1_32531473	Ca4	32531473	TAA/T	TAAATGGATGCATCG AGCC	ACAAATCAACAGTGT CGCA	60.9	662	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_32536057	Ca4	32536057	GTGTTTTTTTTT/GTTTTTTTTT	TATCATTCGCATCAAC GGA	TGCGCTCAATTGTGAT TCAT	60.0	578	INTERGENIC	--	--	--
Ca4_P1_32548891	Ca4	32548891	GT/GTTAT	CGAACCAAGTGAGGAA AGAGA	TGATTGGCATGAGTGC TGAC	59.5	603	INTERGENIC	--	--	--
Ca4_P1_32549547	Ca4	32549547	GTATA/GTA	TTGATGTCTATTGATG CAACG	ACATTGTGCCATCCCT TGAT	57.2	747	INTERGENIC	--	--	--
Ca4_P1_32550360	Ca4	32550360	ATTT/ATTTT	TGAATTAGCTTGCCG TTTT	GAGAAAATCAACCCAA CGTCA	59.7	530	INTERGENIC	--	--	--
Ca4_P1_32552051	Ca4	32552051	A/AT	GCATCGTGAGAATTCG ATTG	TTGGTTGGAGATTCT TTGG	59.2	398	INTERGENIC	--	--	--
Ca4_P1_32555810	Ca4	32555810	AAA/AAATTAA	TTTCGTCGCTTAGTG TAGCGA	GGTGGTATGGGAAA CACAC	60.1	493	INTERGENIC	--	--	--
Ca4_P1_32555948	Ca4	32555948	AAAGAA/AAA	GTGTGTTTCCCATAC CACC	TGGGAATTTGTGT GGGT	60.0	449	INTERGENIC	--	--	--
Ca4_P1_32557354	Ca4	32557354	TAAATAAAAT/TAAATAAAATAAAAT	AGGCAAAATACATGCA ATCAT	TGCGTTTTGAGATTCTG AAGA	57.1	497	INTERGENIC	--	--	--
Ca4_P1_32559742	Ca4	32559742	AAAGAAAGAAGAAAGA/AAAGAA GAAGA	TTCATTTCCAGTCTGT GGCA	ACGGCCGTTATAGGTT TCCT	60.2	669	INTERGENIC	--	--	--
Ca4_P1_32562355	Ca4	32562355	CTTTTT/CTTTTTT	AAATGGAGGAGAAGGA GGGA	CGGTGAATCCTTTACG GAGA	60.0	286	INTERGENIC	--	--	--
Ca4_P1_32578559	Ca4	32578559	TGTA/T	CTGTGCAGCAACAAA GCAT	TCCTACTGGTCCGTAC CCTG	60.1	749	INTERGENIC	--	--	--
Ca4_P1_3258516	Ca4	3258516	TTATATATATATATATATAT/TTATAT ATATATATATATATAT	GTCAAATCTCCCTGCC AAAA	TGTAATTATAAAAATCA TGCACGGA	60.1	712	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_32585173	Ca4	32585173	TTTTCTTTCTCATGTTTATTTCT	CACCCCTTCATTGTTGTG	GGCGCGTCTAGACTTACCAC	58.9	789	INTERGENIC	--	--	--
Ca4_P1_32586827	Ca4	32586827	GAAAAAAAA/GAAAAAAAAA	TATTCCTTGCCGCTCCAATC	AAGGACCAAAACCAATGTCTC	60.2	750	INTERGENIC	--	--	--
Ca4_P1_32587039	Ca4	32587039	CTATTTATTTATTTATTTATTT/CTATTTATTTATTTATTTATTTATTTATTT	CGGGTTGTGTTATCATGCTC	AAGGACCAAAACCAATGTCTC	59.0	389	INTERGENIC	--	--	--
Ca4_P1_32587822	Ca4	32587822	GTTTTTTTT/GTTTTTTTTT	AACGATAAGCCCGAGAAAT	TAGCAATGCGGATTGACAC	59.9	385	INTERGENIC	--	--	--
Ca4_P1_32592542	Ca4	32592542	ATTTTTTTTT/ATTTTTTTTT	GGCGAGAGCTATGGAATG	GCGTTGTAAAAGGTTGCAT	59.9	478	INTERGENIC	--	--	--
Ca4_P1_32595833	Ca4	32595833	TA/TATTGA	GTTGGGAATGACTCGTTCGT	CCAACTTATTGCATGGTTGGT	60.0	409	INTERGENIC	--	--	--
Ca4_P1_32602184	Ca4	32602184	CA/C	TGGGGATCAACAGACTCTAAAA	GTGAAATCGAAGTGCACAA	58.7	456	DRR	Ca_15484	R	AP2
Ca4_P1_326188	Ca4	326188	AATATATATATATAT/AATATATATATATAT	GCAATATCCAGTTTTGAATAGGTT	ATGGCACATTGCACTGAACA	59.0	561	INTERGENIC	--	--	--
Ca4_P1_32622005	Ca4	32622005	T/TTAG	CATTGTTGCGCCTTAATGA	GAATTGAAATGCACCCTTT	59.7	525	DRR	Ca_15485	O	--
Ca4_P1_32622503	Ca4	32622503	ACC/AC	TCAATGCCATGGAAAGACAA	TTCCATCTCCAACAACATCG	60.0	867	DRR	Ca_15485	O	--
Ca4_P1_32622878	Ca4	32622878	GAAAA/GAAAAA	TTGATAGACTCGATGTGTTGGA	TTGCATTATTTTGAGACGGAGA	59.6	343	DRR	Ca_15485	O	--
Ca4_P1_32623000	Ca4	32623000	TAAAAAAAA/TAAAAAAAAA	TCGATGTTGTTGGAGATGGA	TCCATCTTTTGAGGATGGA	60.0	566	DRR	Ca_15485	O	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_32623906	Ca4	32623906	TAAAAA/TAAAA	TACTTGTGAACACG CAGC	TGGGCATACATCTGGT TTCA	59.9	530	INTRON	Ca_15485	O	--
Ca4_P1_32625448	Ca4	32625448	AAG/A	GGGATTCAAGCCCAT TATT	GGTTCACATGGTGGCT TTCT	60.0	362	INTRON	Ca_15485	O	--
Ca4_P1_32634327	Ca4	32634327	TTTACTTACTTA/TTTACTTA	CAGACCCGTGTGAACA CAAA	GCCTTTGGAGTTGAAG ATTGA	60.6	591	INTERGENIC	--	--	--
Ca4_P1_32634885	Ca4	32634885	ATT/ATTT	GGCAACTAGAAAGTGC CACC	AGCAGATGCCTCTATC GCAT	59.7	258	INTERGENIC	--	--	--
Ca4_P1_32637847	Ca4	32637847	AT/ATGCT	TCCACCAACCATGCT TGTA	GACCCATAAGTCACA CGCT	60.0	811	INTERGENIC	--	--	--
Ca4_P1_32641631	Ca4	32641631	A/AAAG	ACACGGATTGAAACAT GCAA	TTTCAACTCACACACC ACCG	60.0	107	INTERGENIC	--	--	--
Ca4_P1_32647717	Ca4	32647717	TAAAAAAAAA/TAAAAAAAAA	GGGTGCAATTAGGGAT GAGA	AGAATACCCAGCAGC AATG	59.9	313	INTRON	Ca_15487	--	--
Ca4_P1_32650019	Ca4	32650019	ATTTTT/ATTTTT	TTGTGTTTTGTTGGG ATCA	TTTCATGGGTTTTGTT TGAAAT	59.8	451	DRR	Ca_15487	--	--
Ca4_P1_32650295	Ca4	32650295	TAAAAAAAAA/TAAAAAAAAA	CTACTCGTGGTCCGTG AACTT	CACAACAACATTGAGG GTGC	59.3	776	DRR	Ca_15487	--	--
Ca4_P1_32662163	Ca4	32662163	CAAAAAAAAA/CAAAAAAAAA	CTGGTGGTCTTGGATC TGGT	AAACTGCAAAATTAG GGGG	60.0	568	INTERGENIC	--	--	--
Ca4_P1_32666526	Ca4	32666526	GTTTTTTTT/GTTTTTTTTT	GCCAATGAAACCATCC CTTA	GGTTCGAAGTTGTGAC ACACATA	59.8	375	INTERGENIC	--	--	--
Ca4_P1_32694376	Ca4	32694376	ATTTTT/ATTTTTT	AATCATTTTTGAAGA CGCC	TGAAACTGTGCAGCA TGAA	59.0	527	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_32700117	Ca4	32700117	CTTTTTT/CTTTTTTT	TACGTGTCGCTTAGGC ACTG	CGTCTTGTGCGGTGTA TTTG	60.1	461	INTERGENIC	--	--	--
Ca4_P1_32714134	Ca4	32714134	GCTCTCTCTCTCTCTCTCTCTCTCT C/GCTCTCTCTCTCTCTCTCTCTCTCT CTCTC	AAGAACCACGTTTAC ATCC	AACAATGATGACGAGA GGGG	59.8	150	INTERGENIC	--	--	--
Ca4_P1_32835028	Ca4	32835028	ATTTTT/ATTTT	TTGTGCAATGTTGTT GGAT	CGCCATAACAAGCAAT GGAT	60.0	463	INTERGENIC	--	--	--
Ca4_P1_32859234	Ca4	32859234	CNNNNNNNNN/CNNNNN	TTGAATTTGCTGAAGG GGAC	GACAGACAGCCATACA GCCA	60.1	523	INTERGENIC	--	--	--
Ca4_P1_32873081	Ca4	32873081	ATTTT/ATTTTTT	GTCATTGACCGGGAT ATTG	ACGGTTGCACCGAATA AAAA	60.0	162	INTERGENIC	--	--	--
Ca4_P1_32877122	Ca4	32877122	ATTTTTTTTTTT/ATTTTTTTTTTT T	CACAATCCAAACAAC GTGC	TACCGTTGAGATGCT CTGA	60.0	523	INTRON	Ca_15496	--	ARF
Ca4_P1_32886390	Ca4	32886390	AC/ACC	AATCATCCCATGTTGC CATT	CGAGATTTACACCAA GGGT	60.0	519	INTERGENIC	--	--	--
Ca4_P1_32913108	Ca4	32913108	TAAATTAATAATAAAT/TAAATTAATA TTAAATTAATAAT	GGGTTTTTCAGAAAGA AACGG	AACGGTGAACCTTAACA CGGG	60.0	438	INTERGENIC	--	--	--
Ca4_P1_33050402	Ca4	33050402	ATTTTTTTTTTT/ATTTTTTTTTTT	TTCTCACACGCAAAAT TGTC	AAAAGAATTTGGGGTC TTTCG	59.7	531	DRR	Ca_24017	GC	HSF
Ca4_P1_33053978	Ca4	33053978	ATGTT/AT	TGCTTTCATCTTTGGAA CCC	TTTGCAATACGGATT GATGA	60.1	654	INTERGENIC	--	--	--
Ca4_P1_33054018	Ca4	33054018	TAA/TAAA	GGAATGGCAAACCTTC ATGC	TTTGCAATACGGATT GATGA	60.5	520	INTERGENIC	--	--	--
Ca4_P1_33054232	Ca4	33054232	TAAAAAAA/TAAAAAAA	TCATCAATCCGTAAT GCAAA	GCACATGGGGTACCA GACTT	59.0	445	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_33060640	Ca4	33060640	GAAAAAAAA/GAAAAAAAAA	TGAAGAAGCTCTCCA CATT	TTTCTTAGCATGCCAG CCTT	59.9	239	INTERGENIC	--	--	--
Ca4_P1_33064079	Ca4	33064079	ATTGTTGTTGTTGTTGTTG/ATTG TTGTTGTTGTTGTTGTTGTTG	TCGGGCCACTATCTGG ATTA	GTGTGCCGTCACAAAC AATC	60.4	810	INTERGENIC	--	--	--
Ca4_P1_33066353	Ca4	33066353	GTGATGATG/GTGATG	TGACGCGAACCATTGT TAAA	GGTCATAAAAGTTCC GGG	60.1	435	INTERGENIC	--	--	--
Ca4_P1_33092824	Ca4	33092824	ATT/ATTTTT	TGAGAGGTGAGAATTG GAGGA	TGCGGATGTGTGTTTT CAAT	59.8	538	INTERGENIC	--	--	--
Ca4_P1_33100738	Ca4	33100738	GAAAAAAAA/GAAAAAAAAA	TTGGGTTGTGAGGAAT GGAT	TCATCTGTTAGGTACC CCGC	60.2	304	INTERGENIC	--	--	--
Ca4_P1_33102490	Ca4	33102490	ATTTTT/ATTTTTTT	CCTTGAGTTCGACACT CGGT	GGGATTATTGCGCTC CCAT	60.3	636	INTERGENIC	--	--	--
Ca4_P1_33111341	Ca4	33111341	AGTACCTCTT/AGTACCTCTTCAGTA CCTCTT	CCATGAGCAACCCAAA ACTT	GTCTCAATTCTGCCCG AGAG	60.0	274	INTERGENIC	--	--	--
Ca4_P1_33113244	Ca4	33113244	GAAA/GAA	TGGGATTCTCTCTCC CACT	GGCAAACCTTGCCACT TGGT	61.0	274	INTERGENIC	--	--	--
Ca4_P1_33137710	Ca4	33137710	ATTTTTTTTTTTT/ATTTTTTTTTTTT TT	TTGGGTTACGTCCAGT CCTC	TCTGTTTTCTGTGCA ACGG	60.0	726	INTERGENIC	--	--	--
Ca4_P1_33145619	Ca4	33145619	TAAAAAA/TAAAAA	AAACCGTCGTTCCAGT TGTC	AGGCAACAACATAGA ATCGC	60.0	550	INTERGENIC	--	--	--
Ca4_P1_33147211	Ca4	33147211	TAAAAAAA/TAAAAAAA	TCACCATTTCTTTCCAA GGC	AGTGCAACCGAAAAAT CCAC	60.1	333	INTERGENIC	--	--	--
Ca4_P1_33170728	Ca4	33170728	CAAAAAAA/CAAAAAA	TTTTTCTTGAAAATGTT GTCGTG	TGTCAATTCGTCGGC TTTG	59.2	774	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_33176272	Ca4	33176272	ATTTTTTTTT/ATTTTTTTTT	ATCCACGGACAATCCA TTTG	TGGATGCTTGTCTG GGTTC	60.6	478	INTERGENIC	--	--	--
Ca4_P1_33185311	Ca4	33185311	GAAAAAA/GAAAAAAA	AAGTCGCCATTGGGT GTAG	CCTCAACACGAAACC CTGT	60.0	318	INTERGENIC	--	--	--
Ca4_P1_33186066	Ca4	33186066	A/AG	GCGCACACAACAAGA AAAA	CGGGTTGTGAACACC TTCT	59.9	620	INTERGENIC	--	--	--
Ca4_P1_33195041	Ca4	33195041	T/TAGAATTCGGTGA	TTGTCCGTGAGAGACT GCAC	GAATCCTGGGCTGAAA TCAA	60.0	595	INTERGENIC	--	--	--
Ca4_P1_33212428	Ca4	33212428	TATAATAATAATAAT/TATAATAAT AATAATAATAAT	TTTCGTTTCATTTTCAT GTTATCAA	GAAATGCCACACTCCG AAAT	59.8	433	INTERGENIC	--	--	--
Ca4_P1_33256333	Ca4	33256333	CAAAAAAAAA/CAAAAAAAAA	GCACGTGGGAAATGA GATT	TGTTGCAAAACATTTT TGGG	59.9	540	INTERGENIC	--	--	--
Ca4_P1_33287086	Ca4	33287086	TA/T	CAACCACACCCTCATC CTCT	GGAGAAACCACTTCAA GGCA	60.0	434	INTERGENIC	--	--	--
Ca4_P1_33296074	Ca4	33296074	TAAAAAAAA/TAAAAAAAA	TGACCTCCCACTGCAT ACAA	AAGAGACCGCATACGT GGAT	60.1	532	INTERGENIC	--	--	--
Ca4_P1_33308913	Ca4	33308913	GAAAA/GAAA	TCATTTTCCCCTCGTTT CTG	TTGGCCAAAACCTTTT GATG	60.0	183	DRR	Ca_24021	R	C2H2
Ca4_P1_33310326	Ca4	33310326	GAAAAAA/GAAAAAA	TGCCTTGCTTCTGGT TTTC	CGGTATATGTCACACT TCCGA	60.4	597	DRR	Ca_24021	R	C2H2
Ca4_P1_33314599	Ca4	33314599	AC/A	ATGTCCATAACGCATG CAGA	CATCATGCCACTTTGG ATTG	60.1	661	INTERGENIC	--	--	--
Ca4_P1_33315743	Ca4	33315743	CTT/CTTT	ACATGAGTCTTTGTTG CCCC	TGGCAGTGATTTGTT TGAT	60.0	477	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_33321015	Ca4	33321015	AATATA/AATATATA	TATTGTTGCACCCCA ATTT	ATGCTGCCCCATTTT CTTG	60.1	229	INTERGENIC	--	--	--
Ca4_P1_33327000	Ca4	33327000	CA/C	AATATTCCCGTCGAAT GTGC	TTTATTGCAACATCGC CTTTT	59.8	662	INTERGENIC	--	--	--
Ca4_P1_33327124	Ca4	33327124	ATTTTTTTTT/ATTTTTTTTT	GCTACACGAAAAGCTC ATTGC	TTTATTGCAACATCGC CTTTT	60.0	330	INTERGENIC	--	--	--
Ca4_P1_33327144	Ca4	33327144	CAAAAAA/CAAAAAAA	GCTACACGAAAAGCTC ATTGC	CAATTCAAAGGTTTT AGACGGA	60.0	379	INTERGENIC	--	--	--
Ca4_P1_33327822	Ca4	33327822	TAAAAAAAAA/TAAAAAAAAA	CGAAATTCGAATGGG TAGC	GGTCAAGTGTTGCCG AAAT	59.5	516	INTERGENIC	--	--	--
Ca4_P1_33327876	Ca4	33327876	TCCAAG/T	CGAAATTCGAATGGG TAGC	AGTATGATGGGTCAT GGGA	59.5	631	INTERGENIC	--	--	--
Ca4_P1_33328529	Ca4	33328529	ATTTTTTTTT/ATTTTTTTTT	TCCCATGACCCCATCA TACT	TCTCACTGAATCGTCC ACCTT	60.0	682	INTERGENIC	--	--	--
Ca4_P1_33329397	Ca4	33329397	TAAAAAAAAA/TAAAAAAAAA	ACGTGGTCTCACGATA AGGC	CTCCATGTGAAAGTGC CAAA	60.1	552	INTERGENIC	--	--	--
Ca4_P1_33336961	Ca4	33336961	ATTTTTTTTT/ATTTTTTTTT	CACGGAGTTTAACGAT GTGAGA	CATCCCCTAACCCACT CAAA	60.2	911	INTERGENIC	--	--	--
Ca4_P1_33339958	Ca4	33339958	T/TA	TGGTGACAACAAGTT TCCA	CCACATTTTCTCATCC ACACA	60.0	437	INTERGENIC	--	--	--
Ca4_P1_33346959	Ca4	33346959	TT/TTAT	TTTTCGGTTTGTTCAAA GGC	GGAAAACATTGGGAAA CCCT	60.1	766	INTERGENIC	--	--	--
Ca4_P1_33348179	Ca4	33348179	ATT/AT	AGGTTGAGCGATTGGA GAAA	TCCTAAAGACTGCC GCTA	59.8	378	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_33353051	Ca4	33353051	TTG/TTGTG	ACCAATGCCGCTTAAT TGAC	AGACGATCAATTGGTT TGCC	60.0	396	INTERGENIC	--	--	--
Ca4_P1_33357279	Ca4	33357279	CT/CTT	CATCCTTTGGGGAGAA GTGA	CCCCAATGACGAAAA TGAT	60.0	596	INTERGENIC	--	--	--
Ca4_P1_33376961	Ca4	33376961	ATTTTTTTTTTT/ATTTTTTTTTT	ACTCAAAGCCTGAAGA GGCA	AGAGTTTCTTGAAAC GCCA	60.1	595	INTERGENIC	--	--	--
Ca4_P1_33377078	Ca4	33377078	ACCCCC/ACCCC	ACTCAAAGCCTGAAGA GGCA	AGAGTTTCTTGAAAC GCCA	60.1	595	INTERGENIC	--	--	--
Ca4_P1_33386789	Ca4	33386789	CAAAATTAAATTAAATTAA/CAAA TTAAATTAAA	CCCTCCTTTGTGACGG TTTA	TTCGCACCTACACGAT CAAG	60.0	763	INTERGENIC	--	--	--
Ca4_P1_33387360	Ca4	33387360	CAA/CAAA	TGTTGTGGCTACGCAC TTTC	TGTTGTTGTTGTTTC TTTGA	59.9	103	INTERGENIC	--	--	--
Ca4_P1_33392985	Ca4	33392985	CAAAAAA/CAAAAAA	TGCGCATGAATTTAC CACT	TTGTAGCTCGAAGGGC AACT	59.2	786	INTERGENIC	--	--	--
Ca4_P1_33393743	Ca4	33393743	AAGCTAGCTA/AAGCTA	AGGTGCTTTTCATTGGC TGAG	TAATTTGTGCGGTTG TGTG	60.4	439	INTERGENIC	--	--	--
Ca4_P1_33393816	Ca4	33393816	AT/ATT	AGGTGCTTTTCATTGGC TGAG	TAATTTGTGCGGTTG TGTG	60.4	439	INTERGENIC	--	--	--
Ca4_P1_33394479	Ca4	33394479	CATC/CATCGATC	CATTGGGGATTTTACA AATGG	GCCTCTCTTTTCGCT TGTG	59.0	567	INTERGENIC	--	--	--
Ca4_P1_33397164	Ca4	33397164	TTATATATATATATATA/TTATATATA TATATATATATA	ATAGGCTTTGCACCTC CCCT	CCCCAACAAAATGGAG CTAA	60.1	582	DRR	Ca_24022	--	--
Ca4_P1_33397720	Ca4	33397720	ATTTTTTTTTT/ATTTTTTTTTT	CTCCATTTTGTGGGG CTTA	GCCAACAAACCAT GCTA	59.9	584	DRR	Ca_24022	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_33413394	Ca4	33413394	ATTTTTTTTT/ATTTTTTTTT	TAGAGCGGGCTCACT TAAA	GCGGAGATTGCCATAT CACT	60.0	447	INTERGENIC	--	--	--
Ca4_P1_33431052	Ca4	33431052	GAAAAAAAAA/GAAAAAAAAA	TTTATGCTCCGTTTGT GCTG	CACACACCACCTCTCC CTTT	59.9	435	INTERGENIC	--	--	--
Ca4_P1_33431316	Ca4	33431316	GAAAAA/GAAAAATAAAAAAAAA	TTTATGCTCCGTTTGT GCTG	CACACACCACCTCTCC CTTT	59.9	435	INTERGENIC	--	--	--
Ca4_P1_33467450	Ca4	33467450	CAAAAAAAAA/CAAAAAAAAAA	TGATGTAAAAATGATG ATGTGAAA	AATTTGAGTTGCAATT TGATGA	57.1	558	INTERGENIC	--	--	--
Ca4_P1_33467899	Ca4	33467899	ATTTTT/ATTTTTTT	TCATATCATCAAATTGC AACTCA	TGATGTTAAAAGCTAC AGCAACAA	58.2	455	INTERGENIC	--	--	--
Ca4_P1_33493387	Ca4	33493387	TA/TATCCTAA	TGACCTTCTGCTGAGA AATGAA	TTGATCAGCTGCATCC AAAG	60.0	400	INTERGENIC	--	--	--
Ca4_P1_33500547	Ca4	33500547	TTAT/TT	TGCAATTGAGTCAAA GTGATAA	GGAGCATAATTGTTGA CGCA	59.8	391	INTERGENIC	--	--	--
Ca4_P1_33533176	Ca4	33533176	CAAAAAAAAA/CAAAAAAAAAA	GAACCAAGAGGCGATT GAAG	TCCATTTGGGTGAAC CATT	59.8	216	INTERGENIC	--	--	--
Ca4_P1_33546898	Ca4	33546898	GAAA/GAA	CTTGCTCTCCAGTTCC CAAG	AGCTTACCATCCACAA ACGG	60.0	742	INTERGENIC	--	--	--
Ca4_P1_3355848	Ca4	3355848	A/AAAGGAT	GCCTTTACTCCAACAG CAGG	GAGGGTGATCAGCTTT CTCG	59.9	279	INTERGENIC	--	--	--
Ca4_P1_3356080	Ca4	3356080	AG/AAAGCCAAGCG	TCACCGGAAAGTAACT CGCT	ATCGATATTCTCCGCA CCTG	59.9	622	INTERGENIC	--	--	--
Ca4_P1_33561407	Ca4	33561407	CAAA/CAA	TTTCATTCCAATTGTG CCA	CAGCAGAGGAACCTAA CCCA	59.9	704	DRR	Ca_24025	R	HD-ZIP

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_33566311	Ca4	33566311	ATTTTTTTTT/ATTTTTTTTTTT	TCCATCCTCCTCATCT GACC	TTGTCTCAACAATCTC CCCC	60.0	362	INTERGENIC	--	--	--
Ca4_P1_33572396	Ca4	33572396	ATTTTTTTTT/ATTTTTTTTTTT	GTCCCTTCTCCATCCT CCTC	TTGTCTCAACAATCTC CCCC	60.0	370	INTERGENIC	--	--	--
Ca4_P1_33614721	Ca4	33614721	GAAAAA/GAAAAAA	GGTTGTTGATTTGATC GCAA	CAAGTTTGAACGGTT TGTC	59.5	555	INTERGENIC	--	--	--
Ca4_P1_33615467	Ca4	33615467	ATT/ATTT	GGTCCTGTTGAGTCC AACG	CTCAAAACCTGAGCA TGCC	60.5	646	INTERGENIC	--	--	--
Ca4_P1_33615658	Ca4	33615658	AG/A	GGTCCTGTTGAGTCC AACG	AATGGAATAGCGAGT GTGC	60.5	898	INTERGENIC	--	--	--
Ca4_P1_33617340	Ca4	33617340	CTTTTTTT/CTTTTTTTT	TTTTCTAAATTCGAG GACGA	TTTCCCGATTGGTC CTTT	60.1	798	INTERGENIC	--	--	--
Ca4_P1_33617796	Ca4	33617796	AAAAGAA/AAA	CCCCGATTGGTCCTT TATT	TGCTAGTTGTTGCGAC CAAA	60.0	765	INTERGENIC	--	--	--
Ca4_P1_33619158	Ca4	33619158	GTATATATATATATATATATATAT /GTATATATATATATATAT	GAACATGCTGAAAACG GGAT	TGAGGGCAATGACAAA CAAA	59.9	122	INTERGENIC	--	--	--
Ca4_P1_33619321	Ca4	33619321	TAAAAAAA/TAAAAA	GAACATGCTGAAAACG GGAT	CCAATCCAAGGTCAT CTGG	59.9	448	INTERGENIC	--	--	--
Ca4_P1_33620200	Ca4	33620200	TACACA/TACA	GCCATGCTACCATTG GATT	TTACCGACGAACAAGC AGTG	59.8	603	INTERGENIC	--	--	--
Ca4_P1_33627666	Ca4	33627666	TATTTAAATTTAAATTTAAATTTAA AAT/TATTTAAATTTAAATTTAAAT	AGTGACATGACGGAAG TAGCA	TTGGTTCCAGTGTGCA TGTT	58.4	432	INTERGENIC	--	--	--
Ca4_P1_33633372	Ca4	33633372	GTTTTTT/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/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_33714267	Ca4	33714267	T/TCTTAATC	GAACACGTTGTTAGAC CGGC	TGACAAATGGGAGAA AAGG	60.6	713	INTERGENIC	--	--	--
Ca4_P1_33714529	Ca4	33714529	ATT/ATTGTT	CGTTGTTAGACCGGCT CTTG	TGGGCTGACATAATCA CCAA	60.8	940	INTERGENIC	--	--	--
Ca4_P1_33715942	Ca4	33715942	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA AAA	TTGGGTACGTTGGTGT AGCA	ATTGACTGGGCACCAT GATT	60.0	634	INTERGENIC	--	--	--
Ca4_P1_33717821	Ca4	33717821	TAAAAAAAAAAAAA/TAAAAAA AAAA	CCAAAAACCCCTCTTT TCC	CCACCAAAATTTGTCC AACC	59.8	730	INTERGENIC	--	--	--
Ca4_P1_33733806	Ca4	33733806	TT/TTTGTTTATACT	CGTTATTCCCATATGA GAGGC	TGTGATGTTGGACGTG TGTG	58.5	280	INTERGENIC	--	--	--
Ca4_P1_33736905	Ca4	33736905	ATTTTTTTT/ATTTTTTTTT	GGCTTTTCAAAGTTCA TCGG	TTGAAGGATTGAATT CCCC	59.7	789	INTERGENIC	--	--	--
Ca4_P1_33738599	Ca4	33738599	GAAAAAAAAA/GAAAAAAAAAAAAA	ATTGTTGCGCACAAAT TGAA	CACCACCAATCACAA GACG	60.1	734	INTERGENIC	--	--	--
Ca4_P1_33743516	Ca4	33743516	CAAAAA/CAAAAA	TGTAGCTGGTGTCCAC GAAG	AATGCAAGAATCCACC TTGG	59.9	435	INTERGENIC	--	--	--
Ca4_P1_33753503	Ca4	33753503	AATTATTATT/AATTATT	AGGATGTTTTCAAGT GCCG	CTTAGCCATATGCAAG GGGA	60.1	760	INTERGENIC	--	--	--
Ca4_P1_33769585	Ca4	33769585	GGCT/GGCTGCT	TCTGTTTTGCCATCAA GCA	TTTGGAGACCAATGGT GACA	60.4	502	INTERGENIC	--	--	--
Ca4_P1_33773434	Ca4	33773434	AC/ACC	GGATGTCTCCATGGGA ATTG	GCATACAATTGCTTCT CGCA	60.1	528	INTERGENIC	--	--	--
Ca4_P1_33784625	Ca4	33784625	GTAT/GTATAT	CCGGTCTCAATTTCC TCAA	TGTACGCTAGATTCA CTTTTGGA	60.0	440	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_33795008	Ca4	33795008	TTATATATATATATAT/TTATATATATAT	GTCGTGTCAATGCAACAACC	TGACTAAGGACATTGGGCT	60.0	514	INTERGENIC	--	--	--
Ca4_P1_33807474	Ca4	33807474	TAAAAAAA/TAAAAAAA	GTCATTTTGGCGGAACCTAA	TTGAGGTGGGATATGTTGC	59.9	694	INTERGENIC	--	--	--
Ca4_P1_33813152	Ca4	33813152	TAA/TA	AGAGAAGTTGGCCGACAAAA	CTCCAATGCCCAACAAGT	59.9	734	INTERGENIC	--	--	--
Ca4_P1_33813355	Ca4	33813355	TAAAAAAA/TAAAAAAA	GACATATTTGGACGCAACC	CTCCAATGCCCAACAAGT	60.2	200	INTERGENIC	--	--	--
Ca4_P1_33813940	Ca4	33813940	ATTT/ATTTTT	TGAAGCATGGACCAATCAAA	GTCCAATCACATGCACAAGG	60.0	483	INTERGENIC	--	--	--
Ca4_P1_33819598	Ca4	33819598	AAATAATAATAATAATA/AAATAATAATAATAATAATAATA	GCCATGTTGGCAAATACATA	TGGAAATGGGAGAATGGTA	59.4	389	INTRON	Ca_20371	O	--
Ca4_P1_33828542	Ca4	33828542	AATA/AATATA	TACATTGGTGCAACCTGCAT	TTGCCATGACACACTGATT	60.0	703	INTRON	Ca_20369	Q	--
Ca4_P1_33833847	Ca4	33833847	TA/TAACTGCA	GCGTCATCGTCCCTACAAAT	TCCAACTCGCAAGGCTATCT	60.0	375	INTERGENIC	--	--	--
Ca4_P1_33835234	Ca4	33835234	TAAAAAAA/TAAAAAAA	CCAATCAAATTGAGCATACCC	TGTGTTTGCTTTGCATGCTT	59.3	529	INTERGENIC	--	--	--
Ca4_P1_33844287	Ca4	33844287	CTAGAATA/CTAGAATAGAATA	GAGGGTTGTTTCCAGCATA	GCCATGGTCAACGACCTACT	59.9	702	INTERGENIC	--	--	--
Ca4_P1_33844674	Ca4	33844674	TAAAAAAA/TAAAAAAA	TCCAAAACTGGAAAGGGAA	GCCATGGTCAACGACCTACT	59.5	211	INTERGENIC	--	--	--
Ca4_P1_33845547	Ca4	33845547	CTTTTTTTTT/CTTTTTTTTT	CATTTAATGTTCCCACTTCA	TGTAGGGATGCTCAACTTGG	58.9	279	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_33856380	Ca4	33856380	CTTTTTTTTT/CTTTTTTTTTTTT	CGGGAATTAAGAGGAG AGGG	AAATTTAATGCCGTG ACCG	60.0	719	INTERGENIC	--	--	--
Ca4_P1_33857426	Ca4	33857426	AAAAATAAAT/AAAAATAAATTA AAT	GTTTGTGATGGGGGA TGAC	CAAATTTGGCGTTGTT CCTT	60.0	611	INTERGENIC	--	--	--
Ca4_P1_33865092	Ca4	33865092	AG/A	TTTGATGTTGTTGGAG ATGAAAA	CGTTTCAGAGGTGAAC CGTAA	59.5	407	INTERGENIC	--	--	--
Ca4_P1_33865441	Ca4	33865441	GTTTTTTTT/GTTTTTTTTT	TGTTACGGTTACCT CTGAAA	ATAACCCAGCTGAAAG GTGC	59.6	587	INTERGENIC	--	--	--
Ca4_P1_33878589	Ca4	33878589	CGTTTCTGTT/CGTTT	CTTCAACAGCCTCCA AAGC	CGTGATGGATCAGAT GTGC	60.0	748	INTERGENIC	--	--	--
Ca4_P1_33884406	Ca4	33884406	GTTTTTTTT/GTTTTTTTTT	AGGCTAGTGATCATC CAGG	GTACCCCAATTTTCC CGTT	60.2	303	INTERGENIC	--	--	--
Ca4_P1_33912297	Ca4	33912297	ATATCT/AT	AGAATCCAATCGAAG CCCT	ACCCGCTCTAAGTCCA AAGC	60.0	606	INTERGENIC	--	--	--
Ca4_P1_33921285	Ca4	33921285	ATGCT/A	TGGGTGGTTGACACTT GAAA	CAGAGGAAAATGGGG TCAGA	60.0	560	INTRON	Ca_20365	O	GATA
Ca4_P1_33929002	Ca4	33929002	A/AC	GTGGGTGTAAGGGCT GAAA	GCTTGCTGGAGTTTTC AAGG	60.0	664	INTRON	Ca_20365	O	GATA
Ca4_P1_33950107	Ca4	33950107	ACTCTCTCTCTCT/ACTCTCTCTCT	TATCCCTCCCACAGTT GCTT	ACAATGCCGAACATCT GTCA	59.6	721	INTRON	Ca_20365	O	GATA
Ca4_P1_33953368	Ca4	33953368	CAT/CATATCATAT	TATTTTGGGATTGTGG GCTC	AGATTAGGGCCTCAG GAACC	59.8	523	INTERGENIC	--	--	--
Ca4_P1_33960188	Ca4	33960188	TAA/TAAA	AAATAAAGGACCAGGT CGGG	TTTGCCAGACCACCT TTAC	60.2	662	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_34016739	Ca4	34016739	CTT/CT	TTGCTTTCTGAATGCC AGTG	TGGAAGGATGGGTTG AGAAG	60.0	492	INTERGENIC	--	--	--
Ca4_P1_34025530	Ca4	34025530	T/TC	ATAGCGTCGGATGGTC TTTG	GGGACATTTGAGAATT TGGG	60.1	453	DRR	Ca_20364	--	--
Ca4_P1_34026279	Ca4	34026279	TAAAAAAAAA/TAAAAAAAAA	AAACAACCGCCATCCA ACT	TTTCATGGACAACAA GCCA	60.4	213	DRR	Ca_20364	--	--
Ca4_P1_34039084	Ca4	34039084	TAAAAAAAAA/TAAAAAAAAA	TACCAAAGTGTGCCA ACAA	AAAAAGGAAAAGCCAG CCTC	60.1	742	INTERGENIC	--	--	--
Ca4_P1_34072868	Ca4	34072868	CT/CTTT	ACCTTTAAACGGACCC TCGT	GAGGAACGAAAGCGT TTGAG	59.9	151	INTERGENIC	--	--	--
Ca4_P1_34128897	Ca4	34128897	ATTTTTTTTT/ATTTTTTTTT	TAGACTTCCGATGCCA CACC	ATTGCGAGCATGAGAA GTTG	61.1	100	INTERGENIC	--	--	--
Ca4_P1_34169598	Ca4	34169598	TTATATATATATATATATATATAT AT/TTATATATATATATAT	TCAAAGTGGCTCACAA GTGC	TCGACTCAAGAAGGCA AGTG	60.0	781	INTERGENIC	--	--	--
Ca4_P1_34169705	Ca4	34169705	CAATGA/CAATGATAATGA	TCAAAGTGGCTCACAA GTGC	TCGACTCAAGAAGGCA AGTG	60.0	781	INTERGENIC	--	--	--
Ca4_P1_34176341	Ca4	34176341	TT/TTAT	ATGAAACCTGGGATGC AAAG	TTCTGGTTTATTGCC CTGC	59.9	644	INTERGENIC	--	--	--
Ca4_P1_34193644	Ca4	34193644	G/GC	GCAATCCCAATGCTAA AGGA	ACTCTTCCAAAGTAGG CGCA	60.0	249	INTERGENIC	--	--	--
Ca4_P1_34227066	Ca4	34227066	A/AG	ACGGCAAAAACCACTG AAAT	TGAGGAAAATTGAGAC CGGA	59.5	327	INTERGENIC	--	--	--
Ca4_P1_34239824	Ca4	34239824	GTTTTTTT/GTTTTTTT	GGTTTTACGGCAACAT CAGG	ACAAATCAGAGCTGGT CGCT	60.4	711	DRR	Ca_20356	L	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_34240189	Ca4	34240189	CC/CCTGATGC	AGCGACCACTCTGAT TTGT	GGGAGCTGCTTGATG AGAAG	60.0	168	DRR	Ca_20356	L	--
Ca4_P1_34246830	Ca4	34246830	ATT/AT	CGTCTTCGTACAAAG CCTC	GATTGGGGACCATTC ATTA	59.9	320	INTERGENIC	--	--	--
Ca4_P1_34254143	Ca4	34254143	GTTTTTTTTT/GTTTTTTTTT	TTTTGCGACATTTGATC GTT	TGTTCTCGCACACCAA AAAG	59.2	454	INTERGENIC	--	--	--
Ca4_P1_34257490	Ca4	34257490	CTTT/CT	TCCATTTCCGAGAAAT CCAT	CACAAAGACCAAAGCC CAAT	59.3	490	INTERGENIC	--	--	--
Ca4_P1_34294129	Ca4	34294129	ATTTT/ATTT	CCAAGGTTGGATTCGA AGTG	TCCACTGTCTTTGCCA TCAA	60.5	313	INTERGENIC	--	--	--
Ca4_P1_34319653	Ca4	34319653	ATTTTTTTT/ATTTTTTTT	ATGTTTCCCTTCCTTT TGG	GAAAAGGCGATAACAA CCCA	60.2	762	DRR	Ca_20355	YU	--
Ca4_P1_34329441	Ca4	34329441	TAAAAAAAAA/TAAAAAAAAA	CTCTCGAGGCGAGTTT TGTT	CTCTGGAATGACGCAT TGTC	59.6	394	INTERGENIC	--	--	--
Ca4_P1_34330740	Ca4	34330740	TAAAAAAAAA/TAAAAAAAAA	TGCACACATCTACCCC TGAA	GGCATGGCAACTTCAC TTTT	60.1	502	INTERGENIC	--	--	--
Ca4_P1_34333563	Ca4	34333563	TAAAAAAA/TAAAAAAA	ACGGTGACAAATTGGA GAGG	GGTCGCTCAACCTTTA CGAG	60.0	744	INTERGENIC	--	--	--
Ca4_P1_34351448	Ca4	34351448	GAA/GA	TTTTTCCCAAGTTTGTC CTTT	AAAGTTTGTGGTCGGT CAGG	57.8	764	INTERGENIC	--	--	--
Ca4_P1_34367857	Ca4	34367857	TAAAAAAAAA/TAAAAAAAAA	TTGGCCTTGTAAGTAT CGCC	CACCTTCCTCAGGGTT TGAA	60.1	534	INTERGENIC	--	--	--
Ca4_P1_34375164	Ca4	34375164	ATTTTTTT/ATTTTTT	CAAATCTTCTCAAATC TTGACCAT	CTATCGACCAAGCCAC CATT	59.9	768	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_34379819	Ca4	34379819	GAAAAACACTTAGAAAA/GA	CCCTGCAAGCCATAC TCTC	CCCAGATCAAAGCAAG CAAT	59.8	658	INTERGENIC	--	--	--
Ca4_P1_34382417	Ca4	34382417	GC/G	AAGGGGCTTTGAGGTA AGGA	TGGAAAATGGATGTTG ACGA	60.1	572	INTERGENIC	--	--	--
Ca4_P1_34388082	Ca4	34388082	CATATATATATATAT/CATATATATATA TATATATAT	GTTGGTCCCTAGCAC CGTA	CTGTCAATTGAGTTGC GACG	60.0	484	INTERGENIC	--	--	--
Ca4_P1_34388181	Ca4	34388181	GAAA/GAAAA	GTTGGTCCCTAGCAC CGTA	CTGTCAATTGAGTTGC GACG	60.0	484	INTERGENIC	--	--	--
Ca4_P1_34391197	Ca4	34391197	CTTTTTTTTT/CTTTTTTTTTTT	TGTCATGGGGAAATT GGTT	ATCACTTCTTTAAGCG CCGA	60.0	547	INTERGENIC	--	--	--
Ca4_P1_34393067	Ca4	34393067	ATTTTTTTTT/ATTTTTTTTT	CATGATGCATGTCATT TGGTT	TCTATGGATTGACGGT CGTG	59.3	569	INTERGENIC	--	--	--
Ca4_P1_34413607	Ca4	34413607	TAAAAAAAAA/TAAAAAAAAA	AGGCTCCCCTTGAATT TGAT	TTTCCCCCTTACTCGT TGTG	59.9	700	INTERGENIC	--	--	--
Ca4_P1_34416807	Ca4	34416807	CTTTTTTTTT/CTTTTTTTTT	TGCCACTGAAAAAGCA AATG	GAATGCAACCACTATT GGGC	59.8	600	INTERGENIC	--	--	--
Ca4_P1_34458862	Ca4	34458862	CAAAA/CAAAAA	CCAAACGTTCTCCAC AACT	GAGGATGCCAAATGC CTAA	60.0	744	DRR	Ca_20351	--	--
Ca4_P1_34473954	Ca4	34473954	CTTTTTTT/CTTTTTTT	ACCCAAATCCAGTGTT CTGC	GGCCTTGTCGAATGAT TGTT	60.0	839	INTERGENIC	--	--	--
Ca4_P1_34475378	Ca4	34475378	GAAAAAA/GAAAAAA	CATTGTGGATGCAGTT TTGC	CGAAATAAGATGTCCA CCGC	60.1	535	INTERGENIC	--	--	--
Ca4_P1_34475759	Ca4	34475759	GAAAA/GAAA	GCGGTGGACATCTTAT TTCG	CGCATTGAAGCATAAA CCCT	60.5	446	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_34482261	Ca4	34482261	GCCGCC/GCCGCCGTAAACGCC	ACGCCATCTGCCATAT GTTT	TTTGGGGTGATGGAAA TGAT	60.4	497	INTRON	Ca_20350	R	G2-like
Ca4_P1_34492879	Ca4	34492879	TAAAAAAAA/TAAAAAAAAA	CTGATCAGTCGTTGGG AGGT	TGAGTTGATCGTTTCC ACCA	60.1	538	DRR	Ca_20350	R	G2-like
Ca4_P1_34495119	Ca4	34495119	GTTTTTTTTT/GTTTTTTTTT	TTTCTAGTGTGTGGCT CCCC	GCCTAAGAAGGGAA GGTTG	60.1	107	INTERGENIC	--	--	--
Ca4_P1_34515993	Ca4	34515993	TC/T	CAGTATACCACCCAGG CCAT	TCACATGAATAAATTA CAAGCGAA	59.7	155	INTERGENIC	--	--	--
Ca4_P1_34517068	Ca4	34517068	TAAAAAAAA/TAAAAAAAAA	AAACACATATTAAAT CACGCATC	CCACTGCGCTCACTA TGAA	58.5	253	INTERGENIC	--	--	--
Ca4_P1_34518791	Ca4	34518791	ATTTTTT/ATTTTTT	CAGCTTCCCACCAAGG TAAA	TCGATGTGAACAATAG GCCA	60.1	463	DRR	Ca_20349	--	ERF
Ca4_P1_34525292	Ca4	34525292	TAAAA/TAAAAA	GGACAACCTGGGAAA GTGA	CTTCGATCCGTGTAAG CCAT	59.9	212	INTERGENIC	--	--	--
Ca4_P1_34566172	Ca4	34566172	GTTTT/GTTTTT	CGCCTAAGGACTATGC AAGC	AAATCCAACAATCTC CCCC	60.0	761	INTERGENIC	--	--	--
Ca4_P1_34566424	Ca4	34566424	ATT/AT	CCCTGAGACTCACGAA GAGG	AAATCCAACAATCTC CCCC	60.0	612	INTERGENIC	--	--	--
Ca4_P1_34599013	Ca4	34599013	AGGGG/AGGG	TGTGCATCGAAAAGGT GTGT	AGCCTACGGAGGACC AAAAT	60.2	568	INTERGENIC	--	--	--
Ca4_P1_34599512	Ca4	34599512	TTA/T	TTGTGCCTCGAATAGG TGTG	ATTCTACGGAGGGCG AAAAT	59.7	669	INTERGENIC	--	--	--
Ca4_P1_34605005	Ca4	34605005	G/GT	AACCAATCTTGTGCAT CCAA	TTGGACCAGAATAAGC CGAG	59.0	317	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_34756	Ca4	34756	AATATATATATATATATATA/AATAT ATATATATATATATA	ACACATGACTTCCTT GCCC	TTGCAACAACAAAAC TGCC	60.0	673	INTERGENIC	--	--	--
Ca4_P1_34891617	Ca4	34891617	AGGGG/AGGG	GCAAATGTGTCGAAAG AGCA	CAATCAGATGGACCTT GGCT	60.0	483	INTERGENIC	--	--	--
Ca4_P1_3493500	Ca4	3493500	TGAGAGAGAGAGAGAGA/TGAGAG AGAGAGAGAGA	TTACAGAAATTGGTCC CTTT	TGTCCCCACTTGACAA AAAGA	59.4	529	INTERGENIC	--	--	--
Ca4_P1_34945613	Ca4	34945613	GTTTTTTTT/GTTTTTTTT	CGCTCTTTGGGTTTT CAAC	AAAAAGTTTGGCGGCC TTAT	59.7	384	INTERGENIC	--	--	--
Ca4_P1_34965051	Ca4	34965051	ATTTTTT/ATTTTTTT	TTGGGATTAGAGCAAG GTCG	CATGAGACCTTCATGT TGTCG	60.2	212	INTERGENIC	--	--	--
Ca4_P1_35106190	Ca4	35106190	TAAAAAAAAAAAA/TAAAAAAAAAAAA	CGTCGCACTTCATCTT CCTT	CGAATGTTTTTCGTTT GCAG	60.4	229	INTERGENIC	--	--	--
Ca4_P1_35204590	Ca4	35204590	AAATAATAATAATAATAATAATAAT AATAATAATAATAAT/AAATAATAATAA TAATAATAATAATAATAATAATAAT	CGTGTTCCTGATATTT GCG	TTTAATCCAAATGC CCCA	59.2	838	INTERGENIC	--	--	--
Ca4_P1_35237197	Ca4	35237197	TTTATTATTATTATTATTATTATTA/ TTTATTATTATTATTATTATTATTA TTATTATTATTATTA	TCACTGCTCACACACC AACA	TTGAAATGGGGTTGAA GGAC	59.9	276	INTERGENIC	--	--	--
Ca4_P1_35295864	Ca4	35295864	TAA/TAAA	CACGATGAATTAAATA GCATCCA	ATTCACATGGTTGTTT GCAA	59.0	239	INTERGENIC	--	--	--
Ca4_P1_35319446	Ca4	35319446	ATTTTTTTTT/ATTTTTTTTTT	GGTCAGTTCATCCTAG GGCA	TTTTTGGTTGCCTAAG TGGG	60.1	462	INTERGENIC	--	--	--
Ca4_P1_35343662	Ca4	35343662	TCCACAACC/TCCACAACCACAACC	CCACAACATGGTGCAA ACTC	AACCGGTTTCAGGTTCT GTTG	60.0	679	INTRON	Ca_20018	Z	NAC
Ca4_P1_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/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_35366554	Ca4	35366554	TTAGCTGATAG/TTAGCTGATAGCTGA TAG	TCGAAAAACAAAATAA CCCG	GATTTACCATACTC CTTCGCTT	59.0	498	INTERGENIC	--	--	--
Ca4_P1_35369859	Ca4	35369859	GATTAA/GATTAAATTAA	TTTAGTGCGCATGAAT TTTTACA	TTTCCACAAGCTAACA AAAATGA	59.7	494	INTERGENIC	--	--	--
Ca4_P1_35432013	Ca4	35432013	TTAT/TTATAT	TGTTCAACATCCACGA ACAA	TGCCATACTCATGTCG GAAA	58.5	669	INTERGENIC	--	--	--
Ca4_P1_35432836	Ca4	35432836	TTATATATATATATATATATAT/TTATAT ATATATATATATATATAT	TTTCCGACATGAGTAT GGCA	TTTGGAAGTAACACT GCACG	60.1	785	INTERGENIC	--	--	--
Ca4_P1_35432970	Ca4	35432970	CATATATATATATATATATATATATA TATA/CATATATATATATATATATAT ATATATATATA	AAAAATGTGCATAAAT CGTT	TTTGGAAGTAACACT GCACG	57.7	428	INTERGENIC	--	--	--
Ca4_P1_35433291	Ca4	35433291	T/TATTATATATATATA	CACGTGCAGTGTTACT TTCCA	TGACGAATTTCAAAA CCTGC	59.8	491	INTERGENIC	--	--	--
Ca4_P1_35440550	Ca4	35440550	AATATATATATATATATATATATATA TATATAT/AATATATATATATATATAT ATATATATAT	GGATTGTAACGGTTT TAGCG	GGCTTGATGTGAATGT GCAA	58.7	766	INTERGENIC	--	--	--
Ca4_P1_35457008	Ca4	35457008	TTGC/T	AATTGCAGAAAAATGC GGTC	TTGTACCAGATATTGG CCCG	60.1	776	INTERGENIC	--	--	--
Ca4_P1_35620689	Ca4	35620689	TGA/TGAGA	ACAATCCCGACACAAA GTCA	GAAGCGAGAGGTAAG CGATG	59.0	499	INTERGENIC	--	--	--
Ca4_P1_35639160	Ca4	35639160	ATT/ATTT	GGAAAAGATGGTATTT GCCG	CTTCCCTGCTGGCAAC TTAG	59.4	339	INTERGENIC	--	--	--
Ca4_P1_35695664	Ca4	35695664	GCC/GC	ACACGGGATGCTCAAA AGAC	CAGCCTGAAGAACCCA TGTT	60.1	493	INTRON	Ca_22447	--	SAP
Ca4_P1_35708239	Ca4	35708239	GTTTTTT/GTTTTT	AAAGGACCAAGTCGGA AAAA	TGCTTCAAGATCAATC TGCG	58.7	578	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/P1)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_35720300	Ca4	35720300	TTATTATTATTATTATTATTATT TATTATTATT/TTATTATTATTATTATTA TTATTATTATTATTATTATTATT	GCTATAGCTGGCGACT CCAC	ACTCTCCAAAGTAGG CGCA	60.0	688	INTERGENIC	--	--	--
Ca4_P1_35818039	Ca4	35818039	AAATAATAATAATA/AAATAATAAT AATA	GTTCATAACGAAGATG ACAATAACA	TGCAGTCAAACTTTAA AAGGAAG	57.4	728	INTERGENIC	--	--	--
Ca4_P1_35822043	Ca4	35822043	GTTT/GTTTT	CGGTCCATTAATCG GGTG	GACTTTTCGAGCGATT TTCG	60.0	954	INTERGENIC	--	--	--
Ca4_P1_35822348	Ca4	35822348	TGG/TG	GATCAAAATCGAGGACC GAAA	CGAACAAAACGATGGG AAGT	60.0	695	INTERGENIC	--	--	--
Ca4_P1_35910460	Ca4	35910460	TTATATATATATATATATATATAT ATATATATA/TTATATATATATATATATA TATATATATATATATATATATA	TGTCAACATTCAGGGA AGCA	GATGCAAGATGACATG GTGG	60.2	536	INTRON	Ca_14861	R	--
Ca4_P1_35924136	Ca4	35924136	AATATATATATATATATATA/AATAT ATATATATATATATATATA	TTGTGTGTCAAATTTAA GCGA	ATGAAACAACTTCAC GCCC	59.4	224	INTERGENIC	--	--	--
Ca4_P1_35999977	Ca4	35999977	ATTTTTTTTT/ATTTTTTTTTT	GCTGGCAGCACAAATA AACA	TCGAACCAATGACCTC ACAA	59.9	439	INTERGENIC	--	--	--
Ca4_P1_36079126	Ca4	36079126	TTGTG/TTGTGTG	ATTTTGATGCTCACGG TTCC	CGGAGATGATGGTTCA GGTT	59.9	595	INTERGENIC	--	--	--
Ca4_P1_36094744	Ca4	36094744	TAAAAAAAAA/TAAAAAAAAA	CCTACCATTGCCTGAC CTGT	TTCCGAGTTGTTTGAG AGGA	60.0	427	INTERGENIC	--	--	--
Ca4_P1_36130777	Ca4	36130777	AATATATATATATATATATATATA TATATATATA/AATATATATATATAT ATATATATATATATATATA	GAATTCAAAAATAAGG CATCATCA	AAATGGGTTAAAGGGA CCGT	59.4	332	INTERGENIC	--	--	--
Ca4_P1_36245892	Ca4	36245892	TTATATATATATATATATATAT/TT ATATATATATATATATAT	TACATGCAAGCGAAAT GGAA	AGGCATGGTGTGGGA GTCAT	60.2	287	DRR	Ca_14846	O	--
Ca4_P1_36256375	Ca4	36256375	ATTTTTTTTT/ATTTTTTTTTT	GATCATCGAGTTCCC GTGT	AGTTCAGGGGAGGC TCACA	59.9	350	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_36299251	Ca4	36299251	ATTTT/ATT	AACCCAAGAGCGCACA TATT	GAGCCAAACACTGCAT CAGA	59.6	444	INTERGENIC	--	--	--
Ca4_P1_36301551	Ca4	36301551	ATTTTTTTTTT/ATTTTTTTTTTTTT	CCGGGAGATATGTAGG AGCA	ATACTTTTGTGCGG CCTA	60.1	400	INTERGENIC	--	--	--
Ca4_P1_36310356	Ca4	36310356	ATTTT/ATTTTT	TTGATTCTTTTAAAT TTTGCTCA	TTGGTGCCTTCTCTA AACA	58.5	765	INTERGENIC	--	--	--
Ca4_P1_36318036	Ca4	36318036	T/TGTTG	TTTATGAGACAATTGT GTGGAGGT	ATGCATGCACGAATGT CATC	59.8	522	INTERGENIC	--	--	--
Ca4_P1_36335313	Ca4	36335313	ATTTTTT/ATTTTTTT	TTGCGACAAGATCAAG CAAC	TCAACACCAAACACAA GGGA	60.0	519	INTERGENIC	--	--	--
Ca4_P1_36336918	Ca4	36336918	TAAA/TATAAAA	ACAACAAGGGTGACCT CCAC	TGCTTGCTATTCTGC GTCAA	59.9	736	INTERGENIC	--	--	--
Ca4_P1_36337139	Ca4	36337139	GC/G	TGCAATGTCAATATGA ACCAAA	CCACAACCACTCATCA CGAC	58.9	479	INTERGENIC	--	--	--
Ca4_P1_36337338	Ca4	36337338	TT/TTATTAT	TGACGCAGAATAGACA AGCAA	CCACAACCACTCATCA CGAC	59.6	341	INTERGENIC	--	--	--
Ca4_P1_36392409	Ca4	36392409	T/TCTAC	TAAAGGACCAATCGG GAGA	GGCCGAACCAAAGTCT ACTG	59.5	438	INTERGENIC	--	--	--
Ca4_P1_36472761	Ca4	36472761	TAAAAAAAA/TAAAAAAAAA	CGTAGGACAGAAACCG TGGTA	TATGTAGCCCGTGTCA AGCA	60.0	679	INTERGENIC	--	--	--
Ca4_P1_36478044	Ca4	36478044	AATATA/AATA	AAAGTGATAACCGATG AGTGACAA	AAGGCTCCACATGAAC AAGG	59.9	706	INTERGENIC	--	--	--
Ca4_P1_36503147	Ca4	36503147	CAAAAAA/CAAAAAAA	TCATTAAAGAAACACTA GACGGCA	AAGTTGGTCGGTTCAT CCTG	60.2	463	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_36529935	Ca4	36529935	TTATATATATATATATATATATATAT ATA/TTATATATATATATATATATATA TATA	TGGTGTAAITTTGATTC TTCCCT	TCTGGAAAACTTGAA CCACAA	58.9	523	INTERGENIC	--	--	--
Ca4_P1_36530142	Ca4	36530142	TAAAAAAAA/TAAAAAAAA	TTGGTGTAAITTTGATT CTTCCC	TGAACGTGTAGCCAA AAACG	59.3	778	INTERGENIC	--	--	--
Ca4_P1_36593028	Ca4	36593028	TAAAAAAAA/TAAAAAAAAAAAA	CGCGGGGCATATTCTA GTTA	TGATTTGCATTGTGT TTGC	60.1	527	INTERGENIC	--	--	--
Ca4_P1_36651037	Ca4	36651037	ACAAATTGAGCTTCAAACCAAAATT G/ACAAATTGAGCTTCAAACCAAAAT TGAGCTTCAAACCAAAATTG	GCACATGGCTGGCTCT ACTA	ATGGGACCAGTGATGT TGGT	59.1	675	INTERGENIC	--	--	--
Ca4_P1_36690853	Ca4	36690853	CTTTT/CTTT	TTGACAAGCGCTGTGA AATC	CAATGTGTATTCAACG ACCGA	60.0	538	INTERGENIC	--	--	--
Ca4_P1_36731427	Ca4	36731427	CATATATATATATATATATATATATA TATAT/CATATATATATATATATATA TATATATATATAT	AGGAAGAGTGGAGTTG CGAA	ATGTTTTGGATTTTGG CTCG	60.0	531	INTERGENIC	--	--	--
Ca4_P1_36779245	Ca4	36779245	TATAATAATAATAATAATAATAATA ATAATAATAATA/TATAATAATAATA TAATAATAATAATAATAATAATA	AGCTTAGTTCAACATG GTCCG	CGGTCGACATATGGGT CAG	59.3	621	INTERGENIC	--	--	--
Ca4_P1_36854161	Ca4	36854161	GCA/GCATCA	TGTTTCATGATGCTTCC TCTCC	CCAAACGATTATCCAA CCCT	60.2	437	INTERGENIC	--	--	--
Ca4_P1_36906995	Ca4	36906995	CCTCCTCTCCTCT/CCTCCTCT	AACGGAGGATACAACA ACGC	TTGGAAAATGGAAACC AAGG	60.0	629	INTERGENIC	--	--	--
Ca4_P1_36919128	Ca4	36919128	GTTTATTTATTTATTTATTTATTT ATT/GTTTATTTATTTATTTATTTA TT	CCCAATCCACTTCCTT TTGA	CTTCAACTTGAGGCTG CACA	59.9	558	INTRON	Ca_14799	R	Trihelix
Ca4_P1_36928403	Ca4	36928403	TAAAAAAAA/TAAAAAAAA	TTCAAAATTGAAAACA ATACCCA	TTGGAAAGCTTATTCT CGCA	59.7	548	DRR	Ca_14798	--	--
Ca4_P1_36952818	Ca4	36952818	TT/TTGAACT	GGGTTTCATGTTTGAAG GGTG	ATGGGCCCTCTTTTGT CTTT	60.2	846	INTRON	Ca_14797	R	C2H2

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca4_P1_36953596	Ca4	36953596	AATATATATAT/AATATATATATATAT	AAAAGAGGGCCCATGA GATT	TGTGCATTGGGAACAA CACT	59.9	693	INTRON	Ca_14797	R	C2H2
Ca4_P1_36955326	Ca4	36955326	TTAAAAATAAA/TTAAAA	CACATGTTGCCTCTGG ACAC	GGAGGAATCAACCTG GAACA	60.2	671	INTRON	Ca_14797	R	C2H2
Ca4_P1_36955749	Ca4	36955749	ATTTTTTTTTTTTT/ATTTTTTTTTT TTT	TGTTCCAGGTTGATTC CTCC	TCTTCTGGTGTTTTT TGGGA	59.9	432	INTERGENIC	--	--	--
Ca4_P1_36956074	Ca4	36956074	TAAAAAAA/TAAAAA	TGTTCCAGGTTGATTC CTCC	TGATGGCAGGAAAT AAGG	59.9	963	INTERGENIC	--	--	--
Ca4_P1_36956595	Ca4	36956595	GTTTTTTTT/GTTTTTTTTTTT	CCTTATTTCCCTGCC ATCA	CTTGCATGCGTCAAT GTGT	59.9	467	INTERGENIC	--	--	--
Ca4_P1_36957693	Ca4	36957693	GTT/GTTT	GCCGAAAAGTCTCTCA CAAA	GCGGCTAGAAGTATCA ACGG	60.2	381	INTERGENIC	--	--	--
Ca4_P1_36959229	Ca4	36959229	TT/TTAT	GGACTTTTGTCTCGG GTAA	AAAAGTCTGCCGAAA TGAT	60.0	412	INTERGENIC	--	--	--
Ca4_P1_36968194	Ca4	36968194	TAAAAAAA/TAAAAA	GGCGAAAGTACCCAAA CAAA	GACTTCTGCAAAGGAC CTCG	60.0	426	INTERGENIC	--	--	--
Ca4_P1_36968275	Ca4	36968275	G/GTTAATAC	GGCGAAAGTACCCAAA CAAA	GACTTCTGCAAAGGAC CTCG	60.0	426	INTERGENIC	--	--	--
Ca4_P1_36968637	Ca4	36968637	TAAAA/TAAAAA	TGGGGTACAAGAAAGA ACCG	TTTTTGCCCATGTAA ATATCA	60.0	670	INTERGENIC	--	--	--
Ca4_P1_36969491	Ca4	36969491	TAAAAA/TAAAAA	CATGGGCCAAAAATAA AAAGA	GAGCTGTGAGAAGA AAAGCA	59.0	814	INTERGENIC	--	--	--
Ca4_P1_36969837	Ca4	36969837	CTTTTTTTT/CTTTTTTTTTT	AGGTCATGCCATCAAA GACA	GAGCTGTGAGAAGA AAAGCA	59.1	145	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_36971752	Ca4	36971752	AAAAAGAAAA/AAAAA	TCTTTCAGTGGTCGCA TCTCT	TGTCGCATTTTGTGG TTGT	60.0	535	INTERGENIC	--	--	--
Ca4_P1_36972358	Ca4	36972358	CTTT/CTT	ACAACCAACAAAATGC GACA	AGCCTTGAGCGACCA CTTTA	60.0	484	INTERGENIC	--	--	--
Ca4_P1_36972412	Ca4	36972412	GTT/GTTT	ACAACCAACAAAATGC GACA	TTGAAACATTCTCAGC CTTGTT	60.0	564	INTERGENIC	--	--	--
Ca4_P1_36972540	Ca4	36972540	AATATATATATATA/AATATATATATAT ATATATATA	TAAAGTGGTCGCTCAA GGCT	TCTACATTCAAATTGG GGGC	60.0	608	INTERGENIC	--	--	--
Ca4_P1_37007674	Ca4	37007674	AGGG/AGG	ATTGCAACTGAGGACA ACCC	TGACCATTTAACGGTG ACCA	60.0	643	INTERGENIC	--	--	--
Ca4_P1_37008544	Ca4	37008544	GAA/GA	GCCATTGAAGAATCCC AAGA	TGAGCTCATTGTTGCC AGAC	60.0	868	INTERGENIC	--	--	--
Ca4_P1_37033445	Ca4	37033445	CACAACAA/CACAACAACAA	CGTGGACTCCAAGTGA TGAA	TCCAGCCATTGATAAC CTCC	59.7	865	INTERGENIC	--	--	--
Ca4_P1_37034116	Ca4	37034116	TGGA/TGGAGGA	GGAGGTTATCAATGGC TGGA	TGGAGTGGAAGGAAT GGAG	59.9	536	INTERGENIC	--	--	--
Ca4_P1_37034691	Ca4	37034691	ATTTTT/ATTTT	CTCCATTCCTTTCCACT CCA	AGGGAAAACAAGGGTT TTGG	60.0	522	INTERGENIC	--	--	--
Ca4_P1_37035676	Ca4	37035676	GTAATAATAATAATAA/GTAATAATAAT AATAATAA	TCAAACCCAATGAAAG GCTC	TCCCTTTACCTTGCCT CATTT	60.1	640	INTERGENIC	--	--	--
Ca4_P1_37035741	Ca4	37035741	TCC/TC	CCCAATGAAAGGCTCA CAAT	TCCCTTTACCTTGCCT CATTT	59.9	635	INTERGENIC	--	--	--
Ca4_P1_37038560	Ca4	37038560	TGAGA/TGAGAGA	TGGTTTATAACACCGC TTATATTCA	AGGATTCAACCACAAA GGACA	59.0	242	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_37038890	Ca4	37038890	GATATATATATATATAT/GATATATA TATAT	TGTCCTTTGTGGTTGA ATCCT	TCGTACAATGTCCGGA TAAAA	59.4	724	INTERGENIC	--	--	--
Ca4_P1_37039202	Ca4	37039202	TAAAAA/TAAAA	CAATCTTTCTTTCAATT CTCTACAAA	TGATTCTTGACACGGT GGAA	57.5	644	INTERGENIC	--	--	--
Ca4_P1_37039222	Ca4	37039222	TGGG/TG	CAATCTTTCTTTCAATT CTCTACAAA	TGATTCTTGACACGGT GGAA	57.5	644	INTERGENIC	--	--	--
Ca4_P1_37039540	Ca4	37039540	TAAAAAAAAA/TAAAAAAAA	TTTATTGACGAGCATC GTTCC	TGGCAAGTGCAACCAA AATA	60.1	386	INTERGENIC	--	--	--
Ca4_P1_37040997	Ca4	37040997	GAAAAAAAAA/GAAAAAAAA	TTACAAACTGGGTGG ACAA	TTGTTGGAGTATGCC TTCC	60.0	143	INTERGENIC	--	--	--
Ca4_P1_37044142	Ca4	37044142	TAAAAA/TAAAAA	TGATTGTTTTGATCCC CTCA	TCACGAAATTAGCCCT CCAA	58.9	328	INTERGENIC	--	--	--
Ca4_P1_37045211	Ca4	37045211	AAATACAA/AAA	ACCTCTGTACCCAAC CCAA	CAGCTGGGACAAGGG AGTAT	59.3	503	INTERGENIC	--	--	--
Ca4_P1_37047512	Ca4	37047512	CAAA/CA	GAAGTGGGAAATGGGT TTGA	ATGATTGTGCCTCGTG AACA	59.8	662	INTERGENIC	--	--	--
Ca4_P1_37047776	Ca4	37047776	GC/GCC	ATACTCTGCACCACAC ACGG	ATGATTGTGCCTCGTG AACA	59.6	241	INTERGENIC	--	--	--
Ca4_P1_37053258	Ca4	37053258	T/TTTA	TTGAAGGAACTTTTCC GCTG	ATTCCCATCCCTACAG CCTT	60.4	827	INTERGENIC	--	--	--
Ca4_P1_37053592	Ca4	37053592	ATTTTTTT/ATTTTTTT	AAATTTTTAAGGCAAAA GCTTACA	ATTCCCATCCCTACAG CCTT	57.9	221	INTERGENIC	--	--	--
Ca4_P1_37055356	Ca4	37055356	TAAAAA/TAAAAAAAAA	TTCAAACACACTCCCT CCAA	AAACACAATACACTGT CCGGC	59.1	772	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_37055534	Ca4	37055534	ATTTT/ATTTT	TGCTTTAAAAGAGTGA GAGGGAA	AAACACAATACACTGT CCGGC	59.5	598	INTERGENIC	--	--	--
Ca4_P1_37055713	Ca4	37055713	A/AT	GCCGGACAGTGATTG TGTTT	CCATATGCCACCATT CCTT	59.9	552	INTERGENIC	--	--	--
Ca4_P1_37057248	Ca4	37057248	TAAA/TAA	TGCACAGTCAATCCTC TTCTG	TCATGTGTGTATGGAG CACAAA	59.0	474	INTERGENIC	--	--	--
Ca4_P1_37057959	Ca4	37057959	TA/T	TTTGTGCTCCATACAC ACATGA	CACCGTCTTCAAAGAA TTCCA	60.0	771	INTERGENIC	--	--	--
Ca4_P1_37069003	Ca4	37069003	ATGTTGT/ATGT	TGAGCCATCCTTCAAA ATCA	ATTGACCTCAGATGT CGGG	59.2	267	INTERGENIC	--	--	--
Ca4_P1_37074535	Ca4	37074535	TCC/TCCC	TAAGAGAACCGTCGCA ATCC	AAATCAATCGTTTGGG CTACA	60.2	946	INTERGENIC	--	--	--
Ca4_P1_37076395	Ca4	37076395	A/AGT	TTCCAAATTGCAAAACA TGC	TGGTATTGTGGTGGA AAGA	59.5	370	INTERGENIC	--	--	--
Ca4_P1_37082708	Ca4	37082708	GCT/G	GAAGTTGTTGGGTTG GCAT	ATTGCAAAATGAGAGC CCAG	59.8	391	INTERGENIC	--	--	--
Ca4_P1_37082858	Ca4	37082858	GTGTTTTTTTTT/GTTTTTTTTT	GAAGTTGTTGGGTTG GCAT	ATTGCAAAATGAGAGC CCAG	59.8	391	INTERGENIC	--	--	--
Ca4_P1_37083111	Ca4	37083111	ATTTT/ATTT	GAAGTTGTTGGGTTG GCAT	TTTGCCATCTGGAGTC TTGA	59.8	798	INTERGENIC	--	--	--
Ca4_P1_37087788	Ca4	37087788	TAAAA/TAAAA	TTCGAATGTAGTTTGAT CCCTTC	CAAAGGCCTAAACGGT GACT	59.5	588	INTERGENIC	--	--	--
Ca4_P1_37094096	Ca4	37094096	TA/T	CACTAATTGCCATGTA GGCTTTT	AGCTACGGCAATCAAG GAGA	59.6	755	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_37098679	Ca4	37098679	GAAGATTCGATTAAGATT/GAAGATT	GTGCTATTGAGTGGTG CCAA	TCTTCTTCTTCTCAG CCTTGA	59.7	734	INTERGENIC	--	--	--
Ca4_P1_37099831	Ca4	37099831	TAAAAAA/TAAAAA	TGAATAATTCGCGTAC GGCT	TGTGAGGAGCTCTTTG TGGA	60.6	589	INTERGENIC	--	--	--
Ca4_P1_37101492	Ca4	37101492	GAAAAA/GAAAAAA	TCAACTCAACCCGAGA CACA	TGCACTCCGAACTCA AAAT	60.3	171	INTERGENIC	--	--	--
Ca4_P1_37101687	Ca4	37101687	GAAAAAAA/GAAAAA	TCAACTCAACCCGAGA CACA	CACCGGAGATACGT AGGAG	60.3	389	INTERGENIC	--	--	--
Ca4_P1_37105524	Ca4	37105524	AA/AACA	TTCAAATGGTCTCTCA CCCC	ACGAAGGTCAAGCTCA AGGA	59.9	855	INTERGENIC	--	--	--
Ca4_P1_37108037	Ca4	37108037	ATTTTTTTTT/ATTTTTTTTT	CAATCCTTCCAAGGGA TGAA	TCATTCTGCCTCAA CACAA	59.9	329	INTERGENIC	--	--	--
Ca4_P1_37108408	Ca4	37108408	A/AATAT	GATAGGATTGAATGC GGGA	TCATGCTGGCATGTTA TGCT	59.9	745	INTERGENIC	--	--	--
Ca4_P1_37117738	Ca4	37117738	CGG/CG	TACGGAATCGGCTGG ATAG	GCACGATAAATGCAAC CCTT	60.1	496	INTERGENIC	--	--	--
Ca4_P1_37117919	Ca4	37117919	AT/A	TACGGAATCGGCTGG ATAG	GCACGATAAATGCAAC CCTT	60.1	496	INTERGENIC	--	--	--
Ca4_P1_37118197	Ca4	37118197	ATTTTTTT/ATTTTTTT	AAGGGTTGCATTATC GTGC	CCAGCTCGTTTGTGTTG AAGA	60.0	237	INTERGENIC	--	--	--
Ca4_P1_37118546	Ca4	37118546	ATT/AT	CCGATAAGCAGATGAA AGGG	TTTAGGAGCGATCAAT GCAA	59.7	704	INTERGENIC	--	--	--
Ca4_P1_37118632	Ca4	37118632	ATT/ATTT	TCGTGCGCACTTAAAA ATGA	TTTAGGAGCGATCAAT GCAA	60.4	675	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_37119880	Ca4	37119880	CTT/CTTCTT	TGGGAAAAATTTGCAC AACA	ACGAAAATTCATGGCT GTCC	59.9	718	INTERGENIC	--	--	--
Ca4_P1_37119914	Ca4	37119914	TTATA/TTATATA	TGGGAAAAATTTGCAC AACA	ACGAAAATTCATGGCT GTCC	59.9	718	INTERGENIC	--	--	--
Ca4_P1_37122992	Ca4	37122992	ATTTTTTT/ATTTTTTTT	GATGGGACGGAGCTAA ATGA	AATTGAGACCCCTTG CGTG	60.0	195	INTERGENIC	--	--	--
Ca4_P1_37128543	Ca4	37128543	TAAAAA/TAAAA	TCGCACTTTTGGAGAT TGAA	TGCATCCATCGTCAAA TACAA	59.4	462	INTERGENIC	--	--	--
Ca4_P1_37130048	Ca4	37130048	ATTTTTTTTT/ATTTTTTTTTT	TTGCAGAAGGTTCCCA AATC	TGTTGGCCATCTTTTA GCTTT	60.1	841	INTERGENIC	--	--	--
Ca4_P1_37131217	Ca4	37131217	TC/T	TTGTGACCAAAGGTTG GAGG	AATTGCGAGCATTAC CTGC	60.9	710	INTERGENIC	--	--	--
Ca4_P1_37131327	Ca4	37131327	TAA/TAATAGTTTAAAAA	CAACTCAAACCACTT CATTCA	AATTGCGAGCATTAC CTGC	60.0	633	INTERGENIC	--	--	--
Ca4_P1_37131533	Ca4	37131533	TAA/TAAA	GACTCGCAGGTAATGC TCG	TTCCACGATTTCCCT TCAC	59.6	472	INTERGENIC	--	--	--
Ca4_P1_37131620	Ca4	37131620	A/AT	GACTCGCAGGTAATGC TCG	TTCCACGATTTCCCT TCAC	59.6	472	INTERGENIC	--	--	--
Ca4_P1_37131804	Ca4	37131804	TA/T	GACTCGCAGGTAATGC TCG	TTCCACGATTTCCCT TCAC	59.6	472	INTERGENIC	--	--	--
Ca4_P1_37131820	Ca4	37131820	TT/TTAT	GACTCGCAGGTAATGC TCG	TTCCACGATTTCCCT TCAC	59.6	472	INTERGENIC	--	--	--
Ca4_P1_37311820	Ca4	37311820	GATATATATATATATATATATA/GAT ATATATATATATATATATATA	CGCTGTAATGATG TGCT	TTGGGTGAACCATTAG GCAT	59.9	528	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_37341946	Ca4	37341946	ATTTTTTTTTTTT/ATTTTTTTTTTT	TTTCTCGCAGCTTTTTC CAT	TGTGGAGCATTGTCTT TCTG	60.0	703	INTRON	Ca_15142	--	--
Ca4_P1_37347347	Ca4	37347347	TTCCTCTCTCTCTCTCTCTCTCTCTC TCT/TTCTCTCTCTCTCTCTCTCTCTC TCTCTCTCTCTCTCTCTCTCTCT	TTTGCTTCCCAACAA AAAC	CAGTGTGTGTCCGGT GTTC	60.0	311	INTRON	Ca_15141	S	--
Ca4_P1_37384193	Ca4	37384193	AATATATATATATATATATATATATA TATATA/AATATATATATATATATATAT ATATATATATATATA	GCACTGCAACAATCTT CCAA	ACCGTCCATCAGGCTC TATG	59.8	568	INTERGENIC	--	--	--
Ca4_P1_37397482	Ca4	37397482	AATATATATATATATATATATATA/AAT ATATATATATATATATATATATA	TTTGTCTCCGCTTCAA ATCA	GCTTATGCATGCCCTT CATT	59.4	429	DRR	Ca_15137	R	MYB
Ca4_P1_37443931	Ca4	37443931	CT/CTAT	CCGCATTTTCTTCATTA GGG	ACGTTAAGGCATGAGT TGGG	59.5	364	INTERGENIC	--	--	--
Ca4_P1_37444024	Ca4	37444024	TTAATAATAATAATAA/TTAATAATAAT AATAATAA	CCGCATTTTCTTCATTA GGG	ACGTTAAGGCATGAGT TGGG	59.5	364	INTERGENIC	--	--	--
Ca4_P1_37515833	Ca4	37515833	ATTTTTTTTTTT/ATTTTTTTTTTT	CGTGGATTGTTTGTGTT GTCG	GGGCATGTGAGAGGT TTGTT	60.0	529	DRR	Ca_15127	--	--
Ca4_P1_37519504	Ca4	37519504	CTATTTATTTATTTATTTATTT/CTATTT ATTTATTTATTT	GAAAAGGAGTTGCCA CCAA	TGGGGATACGTAGGA GCAAG	60.1	306	INTERGENIC	--	--	--
Ca4_P1_37659042	Ca4	37659042	TAAAAAA/TAAAAAA	CTTTTATGTCAAACCG GCGT	TTTTTGAAGAGCGTCG ATGA	60.0	486	INTRON	Ca_15114	T	TALE
Ca4_P1_37701400	Ca4	37701400	ATTTTTTTTTTT/ATTTTTTTTTTT	TGAACACCGCATTAAT TGGA	GGGTTTTTGTTCTGAAG ATTTTG	59.9	262	DRR	Ca_15111	F	--
Ca4_P1_37704299	Ca4	37704299	T/TCAAA	AGGAGGGATCAAACCG AACT	TGTTGCTGCGTCTTGA AATC	59.9	472	INTERGENIC	--	--	--
Ca4_P1_37705943	Ca4	37705943	GA/GATAA	GCCGGGATGTTCTTTT TGTA	TTTACTGAATGCCATG CTGC	59.9	679	DRR	Ca_15110	C	MYB

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_37706091	Ca4	37706091	TTCT/TT	GCCGGGATGTTCTTT TGTA	GAGGGGAGGCCTCT CATAC	59.9	818	DRR	Ca_15110	C	MYB
Ca4_P1_37706155	Ca4	37706155	AGGG/AGGGG	GCCGGGATGTTCTTT TGTA	GAGGGGAGGCCTCT CATAC	59.9	818	DRR	Ca_15110	C	MYB
Ca4_P1_37707068	Ca4	37707068	C/CTGGCAAGGAGCTACT	TGAGGCCTTAGCTTCG TGAT	CACAAGGACCTGACG GTTTT	60.0	555	INTERGENIC	--	--	--
Ca4_P1_37707135	Ca4	37707135	C/CGCCCTCCCC	TGAGGCCTTAGCTTCG TGAT	CACAAGGACCTGACG GTTTT	60.0	555	INTERGENIC	--	--	--
Ca4_P1_37734970	Ca4	37734970	GTTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTAT TAT/GTTATTATTATTATTATTATTA TTATTATTATTATTATTATTAT	GCTTGAAGAAATGAGC GTGA	TGGGGAACGTATTGTT TTCA	59.2	512	INTERGENIC	--	--	--
Ca4_P1_37794166	Ca4	37794166	AGTGTT/AGTGTTGTGT	GACAACCTTTCACCTT GTCCA	GGACACAATTGGTTG GCTT	60.0	653	INTERGENIC	--	--	--
Ca4_P1_37817066	Ca4	37817066	AATCTCTCTCTAT/AATCTCTCTCTATC TCTCTCTAT	CCCTTCAAAAGGTGGT TCAA	ACAACACTCACCTCA AGCC	59.9	816	INTERGENIC	--	--	--
Ca4_P1_37822334	Ca4	37822334	TT/TTATAGAACTCTAAT	TCAACCAAAATCCCC AATA	CCCAATTCGATTAC CCCT	60.0	329	INTERGENIC	--	--	--
Ca4_P1_37857649	Ca4	37857649	ATTTTTTTTTTT/ATTTTTTTTTTT	ACCAATCGCACCTTAA CACC	TAGCTGCTGATTCTCT GCGA	59.9	363	INTERGENIC	--	--	--
Ca4_P1_37872114	Ca4	37872114	CATATATATATATATATATATATATA TATATATATATATATATATATATATA TATATATATATATATATATATATATA TATAT	TCAGCAAAATCATAACC ATCCA	CGCATAATACTCAAAC CAAATCA	59.0	321	INTERGENIC	--	--	--
Ca4_P1_37913644	Ca4	37913644	ATTTTTTTTTTTTT/ATTTTTTTTTTT TTT	CCTTTTGTTCTTGTGCG GGTC	TGAGACGAATCACACC GAAC	59.6	402	INTERGENIC	--	--	--
Ca4_P1_37993885	Ca4	37993885	CTATATATATATATATATATATATAT ATATACTATATATATATATATATAT ATATATA	GAAGGTCTTGCAAGTG AGTGC	CAAACGTGTGATGGAT CTTCC	60.1	446	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_38024785	Ca4	38024785	GTATATATATATATATATATATATATA/ GTATATATATATATATATATATATA	AAGTGA AACCCCAA GGCT	GCATGTGCCTCATTTT GTTG	60.0	230	INTERGENIC	--	--	--
Ca4_P1_38080710	Ca4	38080710	GTATATATATATATATATATATATAT ATATATAT/GTATATATATATATATATA TATATATATATATATATATAT	GCTTTTGAGGCGTAA ACCA	TTCTCCAATAGAAAT GCCG	60.2	520	INTERGENIC	--	--	--
Ca4_P1_38231305	Ca4	38231305	TTTTATTATTATTATTATTATTATT ATTTA/TTTTATTATTATTATTATT TATTATTATTATTA	GGCCATCAGAGAATCT TCCA	TGCACTTTGGGAACA ACAA	60.2	580	INTRON	Ca_13131	--	--
Ca4_P1_3832898	Ca4	3832898	ATTT/ATTTTTT	CGGAGGGTACGAACCT GTAA	ACTGTTGTGGAATCT GGGC	60.0	484	INTERGENIC	--	--	--
Ca4_P1_38439288	Ca4	38439288	CTTTTTTTTTTT/CTTTTTTTTTTTTT	TTTTGATGCTTTGTTG GCCT	GCGATTCAACTGAAAT AGGAGG	60.6	290	INTERGENIC	--	--	--
Ca4_P1_38614236	Ca4	38614236	GAATAAATAAATAAATAAATAA TAAATAAATAAATAA/GAATAAATAA TAAATAAATAAATAAATAAATAA TAAATAA	GCTCTCCTCTGTACCG CATC	TGCTGCACAAAAATT CAGG	60.0	203	INTRON	Ca_13104	O	NAC
Ca4_P1_38682630	Ca4	38682630	TTATATATATATATATATA/TTATATATA TATATATATATATA	ACGGTATCAATTAACA CAGGAAA	GTGGGGGCTTGTTGA GTTAC	57.6	707	INTERGENIC	--	--	--
Ca4_P1_38691909	Ca4	38691909	ATTTTTTTT/ATTTTTTT	GATGTCCCAAAGTGGA ATGG	TTTTTGTTGCAAAA TTGAAAA	60.2	725	INTERGENIC	--	--	--
Ca4_P1_3871430	Ca4	3871430	G/GGAGGAA	CACTGGGGCTGAACAT CTTT	ATTAGGGTCTGCGTG GTTG	60.1	628	INTRON	Ca_03867	--	--
Ca4_P1_38822967	Ca4	38822967	TTATATATATATATATATATATAT/ TTATATATATATATATATATATAT ATAT	TCTATGGCAACCTAAG CCGT	CATGTGCAATGTACTT GGTTCC	59.7	622	INTERGENIC	--	--	--
Ca4_P1_38841033	Ca4	38841033	TAAAAAAAAA/TAAAAAAAAA	TGGGCACATCAGACAA CATT	TGTGTGGAGATGGGTT TGAA	60.0	211	INTERGENIC	--	--	--
Ca4_P1_38884678	Ca4	38884678	CAAAAAA/CAAAAAA	GGTGGTCATGGTGTAG TTTGG	TCACACGTCCTTTCAA AATCA	60.1	575	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/P1)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_38886301	Ca4	38886301	ATCAACTGCTCAA/ATCAACTGCTCAA CTGCTCAA	ATTGGTTACGCGACCA ACTC	TACACATGCATAGGTG GCCT	60.0	841	INTERGENIC	--	--	--
Ca4_P1_38936911	Ca4	38936911	ATTGGGAAAAATTT/ATTGGGAAAAAT TTTGGGAAAAATTT	CCCTGAATCGATGAGT TTGAA	TGCTCAAAGGCTGAG GAAT	60.1	272	INTERGENIC	--	--	--
Ca4_P1_3895254	Ca4	3895254	A/ATGGAAAG	AGGACAGCTCAGCACC AAGT	AGGATGCGAATTCGAG GATA	59.9	603	INTERGENIC	--	--	--
Ca4_P1_39020626	Ca4	39020626	TAAAAAAAA/TAAAAAAAAA	TGGCATGACACTAGC TCAA	CCCCAATGTATTGGAA CCAC	59.5	864	INTERGENIC	--	--	--
Ca4_P1_39022972	Ca4	39022972	TTTATTATTATTATTATTATTATTA TTATTATTATTATTATT/TTTATTATTAT TATTATTATTATTATTATTATTATT ATTATTATTATTATT	TTGAAATGCACCGTAA ATGG	AAATATTGAGTTACG AATTTGATGA	59.4	499	INTERGENIC	--	--	--
Ca4_P1_39038460	Ca4	39038460	ACTTGCTTG/ACTTG	CCGGTCACATTCAATA GCCT	ATTGCGTTGTTCTTC CAGG	60.0	411	DRR	Ca_13078	A	--
Ca4_P1_39070213	Ca4	39070213	TAATAAATAA/TAATAA	TATTTTGGATTTTGGCT CGG	AAGGAAGCAACGAAAA CGAA	59.9	446	INTERGENIC	--	--	--
Ca4_P1_39081038	Ca4	39081038	CCACA/CCACACA	TGTTCAGGTTTCGGGA TTCT	CTCGAGAAGAGGGAG CAATG	59.5	469	INTRON	Ca_13074	PT	FAR1
Ca4_P1_39147993	Ca4	39147993	AATATATATATATATATATATAT/AA TATATATATATATATATATATATATA T	GGAAGGAGCCCTTATC TTCG	ATGTCAATTGATTTGC GACG	60.2	422	INTERGENIC	--	--	--
Ca4_P1_39165742	Ca4	39165742	TAAAAATAAAAAATAAAAA/TAAAAAT AAAAATAAAAAATAAAAAA	CGTATACCGCTGCTCA TCAA	TGATGTGATTTGTGCC ATGA	59.9	259	INTERGENIC	--	--	--
Ca4_P1_39183756	Ca4	39183756	A/ATGAAGTGGG	AATTTCAGGTGGAAT CGTC	GCAAGCGAACAACATT GAGA	59.9	348	CDS (large-effect mutations)	Ca_13064	T	bHLH
Ca4_P1_39266620	Ca4	39266620	AT/ATT	TTTCACTGATGTGGCC TTCA	TGCCTCACTCCTAAGT TCTGC	60.2	222	DRR	Ca_13060	T	bHLH

[illegible]

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_40056699	Ca4	40056699	AATATATATATATATATATATATATA TATATATATATATATATATAT/AATAT ATATATATATATATATATATATATAT ATATATATATATATATATATATATATAT	CAGGACAGGGATGGT GTTTT	TTGCAATTTCATGAAT GT TACTCA	59.8	639	INTERGENIC	--	--	--
Ca4_P1_40080245	Ca4	40080245	CATATATATATATATATATATAT/CATA TATATATATATATATATATAT	AAAAGCGCAGTCGTAG GTGT	GGTGCTATAGTGC GAAGCA	59.9	886	INTERGENIC	--	--	--
Ca4_P1_40080777	Ca4	40080777	TTATATATATATATATATATATATAT A/TTATATATATATATATATATATA	TGCTTCGACACTATAG CACCC	ACTTGCGCCACATGTA TCAG	60.3	382	INTERGENIC	--	--	--
Ca4_P1_40102836	Ca4	40102836	ATGTTGTTGTTGTTGTTGTTGTTGTT GTTGTTGTTGTT/ATGTTGTTGTTGTT GTTGTTGTTGTTGTTGTTGTT	TTTAAAAAGGAAGCCA GCGA	CACTCAATACCAACAC CTCCA	60.0	530	INTERGENIC	--	--	--
Ca4_P1_40112511	Ca4	40112511	AAATAATAATAATAATAATAATAA/ AAATAATAATAATAATAATAATAAAT AA	TTTGATGCCGTATTG CAAGTT	TTATTTTCCAACCAGC ACCC	59.5	551	INTERGENIC	--	--	--
Ca4_P1_4029055	Ca4	4029055	GATCATCATCATCAT/GATCATCATCA TCATCATCAT	ACATTCTCTTTGGTGG TGGT	ACATTCCAGTCCAAAA CCCA	60.1	612	CDS (large-effect mutations)	Ca_03849	--	Dof
Ca4_P1_4029216	Ca4	4029216	AGG/AGGTGG	TTGGATGGAATTGGAG GAAG	AATGCAGTTCGCAACA TCAA	59.9	289	CDS (large-effect mutations)	Ca_03849	--	Dof
Ca4_P1_4030815	Ca4	4030815	CAAAAA/CAAAA	TGGATCCACTAATAAC ATGGGA	CCTTTAAGGGGATTGA AGGA	59.2	516	DRR	Ca_03849	--	Dof
Ca4_P1_4031880	Ca4	4031880	GTTTTTTT/GTTTTTTTTT	GGGTTTGTTTTATTGA TTTTGA	GATCTGGAAGGAGAA GGGC	57.2	238	INTERGENIC	--	--	--
Ca4_P1_4032141	Ca4	4032141	AACA/AA	GCGTCGTTTTAGTCGT GGTT	AGCTGGGGTTGCTTTA CTGA	60.2	474	INTERGENIC	--	--	--
Ca4_P1_40323500	Ca4	40323500	TACA/TA	GTTTGCAAATGCGACT TCCT	TCGTTCA TTCCTCG AAAA	60.3	188	INTERGENIC	--	--	--
Ca4_P1_40324569	Ca4	40324569	AACTATGATA/AA	AAGTCGTTTTTGCAAT GGC	AGTTTG CATGATCCTC CGTC	60.1	874	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_4032682	Ca4	4032682	T/TTTAATAAGAG	ATCAGTAAAGCAACCC CAGC	CAACGGTGGAGTTTG GATCT	59.2	346	INTERGENIC	--	--	--
Ca4_P1_4032754	Ca4	4032754	TG/T	ATCAGTAAAGCAACCC CAGC	CAACGGTGGAGTTTG GATCT	59.2	346	INTERGENIC	--	--	--
Ca4_P1_4037177	Ca4	4037177	GTTTTTTTTTTTT/GTTTTTTTTT	AAAGTGAAAGCCACTC CCAA	AATGTTGCCACCACT TTTC	59.7	369	INTERGENIC	--	--	--
Ca4_P1_4037364	Ca4	4037364	AT/ATTT	AAAGTGAAAGCCACTC CCAA	AATGTTGCCACCACT TTTC	59.7	369	INTERGENIC	--	--	--
Ca4_P1_4039327	Ca4	4039327	TACTC/T	TTTTGGTTTGGTAATTG TGGG	TGATGGAGAAATCCTC ACCC	59.6	456	INTERGENIC	--	--	--
Ca4_P1_4039729	Ca4	4039729	TAAA/TAA	TGCAATTACACGAGGG TTCA	GTTCTGTTGCCATTGGT GAC	60.1	380	INTERGENIC	--	--	--
Ca4_P1_4041834	Ca4	4041834	TA/T	TCATTGCTGGTCGTC ATTA	AACATGTGACCCAAGG ACACT	60.2	387	INTERGENIC	--	--	--
Ca4_P1_4044595	Ca4	4044595	ATTTTTTTTTTTT/ATTTTTTTTT	GGGTGCATTTGTTGGA ACTT	TTTGTGTTGGGTTAAAA AGAAGAGG	59.8	376	INTERGENIC	--	--	--
Ca4_P1_40449871	Ca4	40449871	TAAAAAAAAA/TAAAAAAAAA	GCCCAATTGTTTCTTT CCA	TGATGATGTGGGTTTG ATCC	59.9	635	INTERGENIC	--	--	--
Ca4_P1_4044991	Ca4	4044991	A/AATTGGATC	GGGTGCATTTGTTGGA ACTT	TTGGTACGTGTAGAAC ATCGTG	59.8	676	INTERGENIC	--	--	--
Ca4_P1_4045724	Ca4	4045724	ATTTTTTTTT/ATTTTTTT	TGTTGGGTTTGTTC TCCT	GCTTGATAATTTAAGG GCACCA	59.4	515	INTERGENIC	--	--	--
Ca4_P1_4046043	Ca4	4046043	TAAAA/TAAAAA	TGTTGGGTTTGTTC TCCT	GCTTGATAATTTAAGG GCACCA	59.4	515	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_4046809	Ca4	4046809	TG/T	GAGTAAACCAAACAC CCCC	GCCATTGCAATTTCC ACTT	58.3	590	INTERGENIC	--	--	--
Ca4_P1_40483531	Ca4	40483531	ATT/ATTAGCGGTCTT	TCCCACATTGGTAGTT CCGT	AGCTGAACCTTGCTG TGAT	60.2	500	DRR	Ca_14877	I	--
Ca4_P1_40484949	Ca4	40484949	AA/AATA	ATTGTGGTGAAGGTGG TGGT	CGGAGAACTCCAATG GAAAA	60.1	413	INTERGENIC	--	--	--
Ca4_P1_40484988	Ca4	40484988	GAAAAAAAAA/GAAAAAAAAA	ATTGTGGTGAAGGTGG TGGT	CGGAGAACTCCAATG GAAAA	60.1	413	INTERGENIC	--	--	--
Ca4_P1_40485498	Ca4	40485498	GAAAAAAAAA/GAAAAAAAAA	TTGGCTCCATCAATTG AACA	GGTCCCTTGAGCACAT TAGC	60.0	625	INTERGENIC	--	--	--
Ca4_P1_40491458	Ca4	40491458	AAG/A	TCCGTTAGATTGCTGA ATGC	CATCTCGAATGGCTTC CAAT	58.9	628	INTRON	Ca_14876	--	HD-ZIP
Ca4_P1_40498066	Ca4	40498066	AACATAACTAAATATTACA/AACATAAC TAAATATTACATAACTAAATATTACA	CCACCAAAACATCATCA CAGC	TTGCATTGAGTTGGA TTTTT	60.0	403	DRR	Ca_14875	--	--
Ca4_P1_40498650	Ca4	40498650	AAT/A	TCATTTGAAACATGGA CCACA	GCTTGACAATCATGGG GTTT	59.8	262	DRR	Ca_14875	--	--
Ca4_P1_40499161	Ca4	40499161	A/AAT	TCACGATTGTGGTGTC AAAAA	TTTTTGTGGATGAAT TTGGC	60.0	761	DRR	Ca_14875	--	--
Ca4_P1_40499325	Ca4	40499325	T/TA	TGAAACAAACAATTAAG TCCGTG	TTTTTGTGGATGAAT TTGGC	59.1	429	DRR	Ca_14875	--	--
Ca4_P1_40499362	Ca4	40499362	CA/CAA	TGAAACAAACAATTAAG TCCGTG	AAAGGGAAGTTTCTCG AGCC	59.1	802	DRR	Ca_14875	--	--
Ca4_P1_40499622	Ca4	40499622	ATTTTT/ATTTT	GGCCAAATTCATCCAA CAAA	GGGGTGGGTGAAGA AAAAT	60.7	501	INTRON	Ca_14875	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_40501506	Ca4	40501506	ATTTTTTTTT/ATTTTTTT	TTTCAGCTAGCTTGAC AACTCTC	TGGACCAAGTACCATG GGTT	58.1	501	INTERGENIC	--	--	--
Ca4_P1_40501605	Ca4	40501605	CTT/CTTT	TTTCAGCTAGCTTGAC AACTCTC	CATGAGTTATTGATGG TGCGA	58.1	835	INTERGENIC	--	--	--
Ca4_P1_40501876	Ca4	40501876	ATTTTTTTTT/ATTTTTTT	ACCCATGGTACTTGGT CCAC	CATGAGTTATTGATGG TGCGA	59.6	353	INTERGENIC	--	--	--
Ca4_P1_40503609	Ca4	40503609	TA/TACTCTCAA	GTGGTGTGTGCAAGAA TTGG	CCAAACAAGTAGGGTG GAGGA	60.0	800	INTERGENIC	--	--	--
Ca4_P1_40505698	Ca4	40505698	GATATATATATA/GATATATATATATA	TGGTTAAGGGGATGCT ATCTTG	TGAAAGCCCAACACA ATGA	60.3	588	INTERGENIC	--	--	--
Ca4_P1_40506274	Ca4	40506274	CAGTATAATAGTA/CAGTATAATAGTA TAATAGTA	GTGGCTGTTTATGGAT TGGG	TGATCCCCTTCATTCC TTCA	60.2	239	INTERGENIC	--	--	--
Ca4_P1_40506520	Ca4	40506520	TTATTTGCT/TT	GGATCACAACCATAAA CCCG	TTCAACAACTTTCTG GCCTC	60.1	453	INTERGENIC	--	--	--
Ca4_P1_40506954	Ca4	40506954	TA/TAA	GAGGCCAGAAAGTTTG TTGAA	TTGCTTGGTGCATGTT TTTC	59.3	443	INTERGENIC	--	--	--
Ca4_P1_4050866	Ca4	4050866	TTA/TTATA	ATCATCCCTCATGGTG GAAA	CCTACTTCAAACGCCC ATGT	60.1	519	INTRON	Ca_03848	--	bHLH
Ca4_P1_40508840	Ca4	40508840	GAAAAAAAA/GAAAAAAAAA	GGGGAAGAAAGGA AGGA	GTGGCTGCAAAAGCTA AAGG	59.5	294	DRR	Ca_14874	--	--
Ca4_P1_40509352	Ca4	40509352	TTTCT/TT	CTTTAGCTTTTGACGC CACC	CATGGTTGGGCATAAT TTGA	60.0	752	DRR	Ca_14874	--	--
Ca4_P1_40509479	Ca4	40509479	GTTTTTTTTT/GTTTTTTTTT	CTTTAGCTTTTGACGC CACC	GGTGAACGGCTACTT ACCA	60.0	881	DRR	Ca_14874	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_40511968	Ca4	40511968	ATTTTTTT/ATTTTTT	TTTTTGTTGAAACGAA CACACTT	TGCCTACAATTCTCC TTGC	60.0	417	INTRON	Ca_14874	--	--
Ca4_P1_40514146	Ca4	40514146	AAACATG/AAACATGAACATG	TTTTGATGTCTCTGCAA CGC	GATGGTTAGACGCTGA ACTCG	60.0	667	INTRON	Ca_14874	--	--
Ca4_P1_40514871	Ca4	40514871	AATA/AA	GGAGAACCAGCTTCCT CCTT	CGCTCTTGCTTCCTTT CACT	59.8	278	INTERGENIC	--	--	--
Ca4_P1_40515212	Ca4	40515212	CG/C	GGAGAACCAGCTTCCT CCTT	TTCTCGGTTCTCCTTT CTGC	59.8	916	INTERGENIC	--	--	--
Ca4_P1_40519165	Ca4	40519165	TAAA/TAAAA	TTCTTACAATTACCAA CACGCA	TGTCGACCATGTGAAT TAGAGAA	59.6	488	INTERGENIC	--	--	--
Ca4_P1_40519317	Ca4	40519317	TC/T	ACAATTACCAACACG CACA	TGTCGACCATGTGAAT TAGAGAA	57.5	483	INTERGENIC	--	--	--
Ca4_P1_40519544	Ca4	40519544	CTTTATTTA/CTTTATTTATTTA	ACAATTACCAACACG CACA	TGTCGACCATGTGAAT TAGAGAA	57.5	483	INTERGENIC	--	--	--
Ca4_P1_40519957	Ca4	40519957	TAAAAAAA/TAAAAAAA	AATTCACATGGTCGAC ATTTTT	TTGTTTGTGCTGCCTT TGAG	58.4	532	INTERGENIC	--	--	--
Ca4_P1_40520777	Ca4	40520777	TAAAAAAA/TAAAAAAA	GCCTCCATCTCACGTG ATTCT	TGTGGAATTGTGTCGC ATCT	60.6	922	INTERGENIC	--	--	--
Ca4_P1_40521264	Ca4	40521264	TTACTACTA/TTACTA	AGATCGGACACAATTC CACA	CATTAAATTTCAAAGA TTTTGCG	60.1	162	INTERGENIC	--	--	--
Ca4_P1_40521734	Ca4	40521734	ATTTTTTTTT/ATTTTTTTTTTT	TCATCGGACAACCTT GTATG	CGGCTCATCTCAATCC TTGT	58.5	655	INTERGENIC	--	--	--
Ca4_P1_40522888	Ca4	40522888	AAATATATATA/AAATATATATTTTT AGAATATATATA	GATGGGTTGGTTTGAT TTGG	CGACAATTTGGTCTC TCCA	60.0	946	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_4052315	Ca4	4052315	AACA/AA	ATGCACCCAAATGAT TTCC	TTTAACTTTGTACG CCCC	59.6	568	DRR	Ca_03848	--	bHLH
Ca4_P1_40528670	Ca4	40528670	GTTTTTTTTT/GTTTTTTTTT	AAATGCAACAGGAAGA TGCC	TGGACTTGAAGAGAA ACGG	60.1	558	INTERGENIC	--	--	--
Ca4_P1_40529406	Ca4	40529406	CTTTTTTTTT/CTTTTTTTTT	CCGTTTCTCTTCCAAG TCCA	CGCTAAGCACCAGTTT CCTC	60.2	608	INTERGENIC	--	--	--
Ca4_P1_40531599	Ca4	40531599	TTGT/TT	GGCGATGCAATTTTCA GTTT	TGCTTCTCAAGCCAA ACAA	60.1	546	INTRON	Ca_14873	--	--
Ca4_P1_4054903	Ca4	4054903	CAA/CA	AATTCGTTGTCATGCT CAGG	TCATCTAAATCGGTGC CAAA	58.7	857	INTERGENIC	--	--	--
Ca4_P1_40552426	Ca4	40552426	G/GA	CCATACAACATGGGGG AAAG	GAGCATGGATGATTG ACCT	60.0	412	INTRON	Ca_14870	--	--
Ca4_P1_40558899	Ca4	40558899	CTTTTTTTTT/CTTTTTTT	GCGGTAAGGGCATTAT TTCA	TCAGAAACCCTAATGG CCTG	59.9	681	DRR	Ca_14870	--	--
Ca4_P1_40559341	Ca4	40559341	TAA/TA	TCAGGCCATTAGGGTT TCTG	ATTGAATGCGGTCTCA GTGC	60.1	410	DRR	Ca_14870	--	--
Ca4_P1_40560588	Ca4	40560588	TAAAAA/TAAAAAA	TCATTCTCCCGATCTT CCAC	TTTCTGTGGACTCACG CATC	60.0	636	INTERGENIC	--	--	--
Ca4_P1_40560728	Ca4	40560728	CTT/CTTTT	TCATTCTCCCGATCTT CCAC	GGAGTGTGCTCCAAG GGTTA	60.0	943	INTERGENIC	--	--	--
Ca4_P1_40561270	Ca4	40561270	TTTCAA/T	ACTGATGCGTGAGTCC ACAG	GGATGTTGGCTCCCAA GTTA	59.9	785	INTERGENIC	--	--	--
Ca4_P1_40573539	Ca4	40573539	AG/A	TATTGCACCGTTGCCT TACA	TCAACTTCCTTGGTTA TATTTTTGC	60.1	721	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_40573928	Ca4	40573928	CAAAA/CAA	TTCGTGGAATATCACA AAAGTTC	TGGACAAAACATCATC TGCATT	58.2	895	INTERGENIC	--	--	--
Ca4_P1_40574863	Ca4	40574863	A/AC	TGCAGATGAGTTTTTG TCCA	AAAATTAAGACAAAAG GAAGTTCAACA	57.8	658	INTERGENIC	--	--	--
Ca4_P1_40575250	Ca4	40575250	TAA/TAAA	CAATGTTGAACCTCCTT TTGTCTT	AAAGGATGAGAATGAA ACTTACGTG	58.8	687	INTERGENIC	--	--	--
Ca4_P1_40575649	Ca4	40575649	ATTTTT/ATTTTT	TTTCTCATTTTCATGAC TCCTATCA	TCACCAGTGACACGTT CGAT	59.2	375	INTERGENIC	--	--	--
Ca4_P1_40575944	Ca4	40575944	GAA/GAAA	AACATCGAACGTGTCA CTGG	GACATGTACAGACATA CGAGGCA	59.6	479	INTERGENIC	--	--	--
Ca4_P1_40586903	Ca4	40586903	CTTTTT/CTTTTT	CTGATGTTGCTACCGC TGAA	GGATTCAAGTTCATGC ACCA	60.0	513	DRR	Ca_14868	K	--
Ca4_P1_40593121	Ca4	40593121	CAAGT/CAAGTAAGT	CATTCCCACCATCCTT CACT	GGCCTATCGAACCACA CAGT	59.8	932	INTRON	Ca_14867	R	BES1
Ca4_P1_40593400	Ca4	40593400	GTT/GTTTT	AAGGATTGCTTGCTG ATGC	GGCCTATCGAACCACA CAGT	60.4	276	INTRON	Ca_14867	R	BES1
Ca4_P1_40602580	Ca4	40602580	ACC/AC	CCATTACGATGCACAT TGCT	TGAATTGTTCTTACGA GCCG	59.6	257	INTERGENIC	--	--	--
Ca4_P1_40605387	Ca4	40605387	TAAAAAAAAA/TAAAAAAAAA	AATCGGGCATGAAATA TTGA	GTGTGTCCAAAAGTGC GAGA	57.9	808	INTERGENIC	--	--	--
Ca4_P1_40608651	Ca4	40608651	TAAAAAAAAA/TAAAAAAAAA	TTTTTGCAAACGACAA CTTTCT	TGTGAATACGTGACTT TTCCTTTCA	59.0	432	INTERGENIC	--	--	--
Ca4_P1_40614255	Ca4	40614255	ATTTTTTT/ATTTTTTT	CGGTGTAGCAAGAACT TTACCA	ATTTGAACATCGTTGG GCTC	59.3	634	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_40615032	Ca4	40615032	TAA/TA	GAGCCCAACGATGTTCA AAAT	TGAACCCACCAGCAT TATT	59.9	793	INTERGENIC	--	--	--
Ca4_P1_40620475	Ca4	40620475	A/AT	TATGTGAAATTGCCAC CGAA	ACCTCATCGAGCCATT GATT	59.9	509	INTERGENIC	--	--	--
Ca4_P1_40622124	Ca4	40622124	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA	ACATACACACGTCACG GGAA	TTTGCAATGAGATTT CCTAAAGA	59.9	391	INTERGENIC	--	--	--
Ca4_P1_40625937	Ca4	40625937	GAAAAAAAA/GAAAAAAAA	TTCTCATGGAGCCATT GTTA	GAAATTGCCACCGAAA AGAA	59.1	498	INTERGENIC	--	--	--
Ca4_P1_40626354	Ca4	40626354	TAGAAGAGAAGAGAAGA/TAGAAGAG AAGA	CTTTTCGGTGGCAATT TCAT	ACCTTTTCAGTGAGCA CGTC	59.9	237	INTERGENIC	--	--	--
Ca4_P1_40626965	Ca4	40626965	TAA/TAAA	GACGTGCTCACTGAAA GGGT	CATCGAGGCCATTAT GATT	60.3	687	INTERGENIC	--	--	--
Ca4_P1_40633755	Ca4	40633755	GTTTTTTTTTT/GTTTTTTTTTT	GTGTGTCCAAAAGTGC GAGA	CCCATATATTTCTTG GGGC	59.9	726	INTERGENIC	--	--	--
Ca4_P1_40638727	Ca4	40638727	AATATATATAT/AATATATATATAT	TCCTTCTAGCACATGG TCCC	TTGGAAGGCCGAAT CTAT	60.1	863	INTERGENIC	--	--	--
Ca4_P1_40639226	Ca4	40639226	AGG/AG	AATAGATTGCGGCTTT TCCA	CAAGAAACCGTTGTGG TCCT	59.7	158	INTERGENIC	--	--	--
Ca4_P1_40639757	Ca4	40639757	AAATATTATAAATATTA/AAATATTA	CCCCTGCCAAATACT TTCA	TCCTATGGAACCA AAGC	59.9	752	INTERGENIC	--	--	--
Ca4_P1_40639974	Ca4	40639974	AATATATATAT/AATATATATATAT	CAACGCTATTTACCCA CCCA	TCCTATGGAACCA AAGC	60.7	200	INTERGENIC	--	--	--
Ca4_P1_40640542	Ca4	40640542	CA/CAAGTGA	TGCCATAATTGGTTGC AAAA	TGAATTTGATGTTGTT GAAGATGA	59.9	807	INTRON	Ca_14865	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_40641097	Ca4	40641097	AATATA/AATA	GCAAATTTTCATTAAATG CATGAC	CCCTCGCGAAAATTAT TGAA	58.6	507	INTRON	Ca_14865	--	--
Ca4_P1_40641475	Ca4	40641475	ATTTTTTT/ATTTTTTT	TTCAATAATTTTCGCGA GGG	TGAGTAATTGAGGGCT GCTG	60.0	515	INTRON	Ca_14865	--	--
Ca4_P1_40644205	Ca4	40644205	CTTTTTTTTT/CTTTTTTT	TGGTGGATGTGTTTCAT GCTT	GATGCCCTCAAACGAA TGTT	60.0	861	INTRON	Ca_14865	--	--
Ca4_P1_40649020	Ca4	40649020	ATTTTT/ATTTTTTTT	TGTGATTATCCGGTAC CACAAAC	TGTATTGAGACCTCG CAGA	59.6	207	INTERGENIC	--	--	--
Ca4_P1_40652676	Ca4	40652676	AAAAATAAAATAAAATAA/AAAAATAAA ATAAAATAAAATAA	TGAGATGGACTTCTCG AGGG	AGGTCAACCCACCAAC TGAA	60.3	622	DRR	Ca_14864	T	--
Ca4_P1_40653220	Ca4	40653220	TAA/TAAA	TTCAGTTGGTGGGTTG ACCT	CAATGAGTGTGTTTAT TGCGA	60.4	769	DRR	Ca_14864	T	--
Ca4_P1_40653582	Ca4	40653582	T/TC	TGTGCAATGGCAATAA CTCAT	GGAATCGTTCTACTGG TCCAC	59.1	399	DRR	Ca_14864	T	--
Ca4_P1_40653790	Ca4	40653790	TAAAAA/TAAAAA	TGTGCAATGGCAATAA CTCAT	GGCAGTTCACCATAGC CACT	59.1	819	DRR	Ca_14864	T	--
Ca4_P1_4066971	Ca4	4066971	ATTTTT/ATTTTTTT	TCCATCAATCGACGCA AATA	CGTGCAATTGTACGGAG TTTT	60.0	609	INTERGENIC	--	--	--
Ca4_P1_4069280	Ca4	4069280	ATAGGGCTA/ATA	AATTCTGGAACCTTGC ACCG	TCAATTCATAAAATTAG CCCCTT	60.1	551	INTERGENIC	--	--	--
Ca4_P1_40700886	Ca4	40700886	AGAC/A	TCTTGATGTAACGTTTT GTTTCAGA	TGAATATTTGAGTTAC GAATTTGATGA	60.1	478	INTERGENIC	--	--	--
Ca4_P1_40702737	Ca4	40702737	ACTCT/ACT	CCCCCATCATAAAATT GTGC	AAGATTAGTGGCGAC CCTT	60.0	392	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_40704105	Ca4	40704105	ATTTTT/ATTTTT	GGATCTCCACTGCCAG GTTA	TTTCGTTTCCCATTCTA CGC	60.1	648	INTERGENIC	--	--	--
Ca4_P1_40719941	Ca4	40719941	CTTTTTTTTT/CTTTTTTTTT	TCCTCCCTTTTGTTTG TGC	TCGTCATCACCCACAC TCAT	60.1	410	INTRON	Ca_23911	BK	FAR1
Ca4_P1_40728044	Ca4	40728044	TATTTGTAATT/TATTTGTAATTGTAA TT	AGCATACATTGGCACC ACAA	CATGCATTTTCATGGTA ACCG	60.0	502	INTERGENIC	--	--	--
Ca4_P1_40729597	Ca4	40729597	T/TG	TTGTGAAATTGAAAAG GTTCCA	CAACCATGTGTGAGGT CCAT	59.5	817	INTERGENIC	--	--	--
Ca4_P1_40731137	Ca4	40731137	TC/T	TCATGGATAAGGTGGA AGACG	TGAATTCGAAAATCCA TTTCATC	59.9	471	INTERGENIC	--	--	--
Ca4_P1_40734477	Ca4	40734477	AGG/AGGG	ATTAATGGTCACGACC CTGC	CACTCGCAAAGACCAG ATCA	59.8	293	INTRON	Ca_23909	--	--
Ca4_P1_40734940	Ca4	40734940	AGG/AGGG	TGCACATCTTCTGGT GCTC	ACATATTGGGTGGGT GAGA	60.0	272	DRR	Ca_23909	--	--
Ca4_P1_40743126	Ca4	40743126	AATATATATATATAT/AATATATATATA TATATATATATATATAT	CACAAACACAACATGC GACA	ACCGCAACACACAAAA TTCA	60.2	373	INTERGENIC	--	--	--
Ca4_P1_40743537	Ca4	40743537	ATGTTG/ATGTTGTTG	GAATTTTGTGTGTTGC GGTG	GCGGTGTTTTTCAACA CATTT	60.0	527	INTERGENIC	--	--	--
Ca4_P1_40743968	Ca4	40743968	A/AAAC	TGTTGAAAAACCCGC AAGA	GCAATGAAGTGTGTGC CAAT	60.3	575	INTERGENIC	--	--	--
Ca4_P1_40746698	Ca4	40746698	CAA/CA	CAGTGTGTGTCCGAT GTCC	GTACCAGCAGCATTTG CTCA	60.0	410	INTRON	Ca_23907	R	--
Ca4_P1_40747563	Ca4	40747563	TAATCAA/TAATCAAGCAAATCAA	ACTGGAACGGGTGTC TACG	AATCAAAGCGGGGAG AAAGT	60.0	390	INTRON	Ca_23907	R	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_40748450	Ca4	40748450	T/TG	TGGTTTGCTTCCTCA TTTC	GCTTCTGCGCCATTAA GTTC	60.1	136	DRR	Ca_23907	R	--
Ca4_P1_40748583	Ca4	40748583	GAAAAAA/GAAAAAAA	GAACCTAATGGCGCAG AAGC	GGGGATTCAATCCCAT CTTT	60.0	156	DRR	Ca_23907	R	--
Ca4_P1_40748781	Ca4	40748781	TAAAAAAA/TAAAAAAA	GAACCTAATGGCGCAG AAGC	TGCCATTTGTTGGATT ACCA	60.0	809	DRR	Ca_23906	R	B3
Ca4_P1_40752302	Ca4	40752302	CGG/CG	TAACTGCACGCATTCA CACA	CATCCCTTCCACCTC ACTA	59.9	794	INTRON	Ca_23906	R	B3
Ca4_P1_40753856	Ca4	40753856	GTATATATATATA/GTATATATA	TTACGATATTGCCGCA ACTG	GCCCTTTCTTCAGGC TTCT	59.7	444	INTRON	Ca_23905	J	--
Ca4_P1_40759167	Ca4	40759167	GTTTATTTTT/GTTTATTTTTATTTATT TTT	CAAAGCAACCCCAA CTAA	TTTTGGTGATCAAGT TTGC	60.0	761	DRR	Ca_23905	J	--
Ca4_P1_40759370	Ca4	40759370	AA/AACA	TGTCTGCAAAGAGGAG TTTCAA	CCGAATTGAATAGT TGGG	60.0	317	DRR	Ca_23905	J	--
Ca4_P1_40760167	Ca4	40760167	GAAAAA/GAAAAA	TCCAAATTGTGAACAC CCCT	CAACAAACCTTAA GGGCA	60.2	274	DRR	Ca_23905	J	--
Ca4_P1_40761334	Ca4	40761334	A/ATATAT	GAACCTTTGTTATTGCAT TCGTTTT	TGGATACACCGTCCAA AGTG	58.7	714	INTERGENIC	--	--	--
Ca4_P1_40763607	Ca4	40763607	CAAAA/CAAAA	GCTCTGCTTGATTGAA AATGC	CCAATGCATGAAATT GTTCTT	60.0	696	INTERGENIC	--	--	--
Ca4_P1_40763691	Ca4	40763691	ATTTT/ATTT	GCTCTGCTTGATTGAA AATGC	GGGTCCCTCTAACTTG TGAGC	60.0	826	INTERGENIC	--	--	--
Ca4_P1_40767434	Ca4	40767434	GTTTT/GTTTT	CCAAGAAGTCCAGTT TGGT	AGGTACGTCCAGGCAT CAAG	60.0	644	INTRON	Ca_23904	Q	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_40767882	Ca4	40767882	TGAGG/TGAGGAGG	CAAAATCCACTGTTTTCGTT	TTGGACCGTGATTTTACTTTTT	60.0	695	INTRON	Ca_23904	Q	--
Ca4_P1_40769867	Ca4	40769867	AACTTACTT/AACTT	TGCTACGCATGCTTGA GAAC	TAAAAGTTTGCATGCC CCTC	60.2	628	INTRON	Ca_23904	Q	--
Ca4_P1_40769926	Ca4	40769926	TCC/TCCC	CAAAATGAACCCAACA AGGC	GAGTTTGTTCGCGAT GGTT	60.3	633	INTRON	Ca_23904	Q	--
Ca4_P1_40772487	Ca4	40772487	GTTTTTTTT/GTTTTTTTT	AGAGGGAGTTGGTTG AAAA	GTATGAGGTCGCAAG GAGGA	59.7	387	INTERGENIC	--	--	--
Ca4_P1_40773874	Ca4	40773874	TAAAAAAA/TAAAAAAA	GTGTGCACCATAGGGA AGGT	ATCCTTGCACATCCCA AAAA	59.9	405	INTERGENIC	--	--	--
Ca4_P1_40773929	Ca4	40773929	TTAT/TTATAT	GTGTGCACCATAGGGA AGGT	ATCCTTGCACATCCCA AAAA	59.9	405	INTERGENIC	--	--	--
Ca4_P1_40777832	Ca4	40777832	CTTTTTTT/CTTTTTTT	TAAGGTCCAAATCCA GGCA	CCCTTCTTCTCCAAC TCCC	60.4	905	INTERGENIC	--	--	--
Ca4_P1_40779355	Ca4	40779355	ATTTTTTT/ATTTTTTT	TTAATTGGGGCTGTG CTTT	TTTGGTCAATGCTGA CAGA	59.6	585	INTERGENIC	--	--	--
Ca4_P1_40783665	Ca4	40783665	TTTAT/TTTATTAT	CCTCTAGTGGGTTTCT TTCATCA	AATGATGCCTCCATGC TTTC	59.6	853	INTERGENIC	--	--	--
Ca4_P1_40783879	Ca4	40783879	TCTAATTG/T	TCTTTTCTATCACATG GTCAACA	AATGATGCCTCCATGC TTTC	58.7	732	INTERGENIC	--	--	--
Ca4_P1_40784079	Ca4	40784079	AC/A	AAGCACTTTTCAATTCA CCCA	AATGATGCCTCCATGC TTTC	59.6	199	INTERGENIC	--	--	--
Ca4_P1_40787317	Ca4	40787317	GTTTTTT/GTTTTTT	CCTGAGTAGGTGCAAC AGGC	TGTTGCTACCTGCGAA GTCA	59.9	976	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_4078760	Ca4	4078760	CAAAAAAAAA/CAAAAAAAAAA	TTCACTTTTGTGGA GGGG	TAATTATTGCCCCAG CTCA	59.9	684	INTERGENIC	--	--	--
Ca4_P1_40787903	Ca4	40787903	TAA/TA	TGACTTCGCAGGTAGC AACA	GCTCCGATGCAATCCT TAAA	60.6	472	INTERGENIC	--	--	--
Ca4_P1_40788340	Ca4	40788340	ATTTTTTTTT/ATTTTTTTT	GCATCGGAGCATGAA TGTA	TTCGCACACGATGAAG ACTAA	59.7	167	INTERGENIC	--	--	--
Ca4_P1_40790403	Ca4	40790403	AT/ATCT	TGTTGATTTTGTGTGC ACGA	TCATTGTCCAGTGAAG GCAA	57.7	472	INTERGENIC	--	--	--
Ca4_P1_40791133	Ca4	40791133	CA/C	TTTAGACCCTTTCCAA GGCA	CCTCAAGAAATCATGA AGGACA	59.7	543	INTERGENIC	--	--	--
Ca4_P1_40793165	Ca4	40793165	TA/T	ATCGTGGGATTTTGT TGAC	GAAATAGGTGGCGAC GGATA	59.9	946	INTRON	Ca_23903	--	--
Ca4_P1_40797470	Ca4	40797470	CAAAAAA/CAAAAAA	CAAGGTCCCAACAT CACT	ATGGACCATCGATTCT GGAG	59.8	610	INTERGENIC	--	--	--
Ca4_P1_40797521	Ca4	40797521	ATT/AT	CAAGGTCCCAACAT CACT	ATGGACCATCGATTCT GGAG	59.8	610	INTERGENIC	--	--	--
Ca4_P1_40799151	Ca4	40799151	TTAGCATA/TTA	CCAGCAATCTAATGAA CGCA	ATGTCACCAATGGGGT TTGT	59.8	323	DRR	Ca_23902	R	--
Ca4_P1_40799742	Ca4	40799742	TCCCCC/TCCCCC	ACAAACCCCATTTGGT ACAT	TGGCTTGTAAGGCTGT GTTG	60.0	740	DRR	Ca_23902	R	--
Ca4_P1_40801294	Ca4	40801294	AAAA/AAAATACCAGTAA	AGCTTGCTCTGAGCT CTTG	TTTATGGCATGGGACC AAAT	60.0	736	INTRON	Ca_23902	R	--
Ca4_P1_40802030	Ca4	40802030	A/AC	CATGAAGCCAAGAAGC AACA	TTGACACCTGTCACAC ATGC	60.0	518	INTRON	Ca_23902	R	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_40807547	Ca4	40807547	TCAACAACAA/TCAACAACAACAA	CACCTGAAAGCTCCCT CAAG	CGACCTTGAAGGCTTA GTCTG	60.0	505	INTRON	Ca_23902	R	--
Ca4_P1_40809750	Ca4	40809750	A/AAC	TGCAAGAACAATCCT TCCC	GCAGCTTTTGGCAGTT CTCT	60.1	278	INTRON	Ca_23902	R	--
Ca4_P1_40810384	Ca4	40810384	G/GAAAAAA	AAAAACGGCAGTAAAA GCCA	GGGACGAGGTACATG CAGAT	59.8	298	INTRON	Ca_23902	R	--
Ca4_P1_40811635	Ca4	40811635	GAAA/GAA	TTACCACCAAGGTCAG CTCC	CGGGAAGATCATTAC GAAG	60.1	704	DRR	Ca_23901	R	MYB
Ca4_P1_40812283	Ca4	40812283	CTTT/CTT	TTGCAAAATACATTGTG CCATC	GAAGTATCACGGCCC CACTA	59.4	322	DRR	Ca_23901	R	MYB
Ca4_P1_40819629	Ca4	40819629	TCAACAACAACAA/TCAACAACAACAA CAA	GGCCTGGAACACTTTT CATA	CAAGGGGGTGAAAAAT CAGA	59.9	407	INTRON	Ca_23900	R	--
Ca4_P1_40821058	Ca4	40821058	ACA/ACATGCCTCA	CCGTTAAACGATGGT CGAT	TTAATTTTCCAGCCAT GCAA	59.8	338	INTERGENIC	--	--	--
Ca4_P1_40826712	Ca4	40826712	GAAAAAAAA/GAAAAAAAAA	TGCCTGTGATGTAGGT CTCG	AATTGAGAACGACGAC GAGG	59.9	850	INTERGENIC	--	--	--
Ca4_P1_40832080	Ca4	40832080	ATTTTTTTTT/ATTTTTTTTT	AATGTGTCATTGTCCC AGAGC	TAACAAAATCACCGCA CCAA	60.0	734	INTERGENIC	--	--	--
Ca4_P1_40833178	Ca4	40833178	TA/T	TTTTTATTTGTCAACCC GCA	CAATGATCGTCGTCTA TTCACAA	59.1	582	INTERGENIC	--	--	--
Ca4_P1_40833473	Ca4	40833473	ATTTTTTTT/ATTTTTTTTTT	TTTTTATTTGTCAACCC GCA	TTCAAACCCCATTTT TTGT	59.1	766	INTERGENIC	--	--	--
Ca4_P1_4083518	Ca4	4083518	ATATTAT/ATATTATTAT	TCTTATGAATGAGACA GAGGCA	CCAAGACCCCGAGTTA GAGA	57.6	491	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_40836011	Ca4	40836011	ATTTTTTTTT/ATTTTTTTTT	GTGTCGGTCACGACAT TCAG	TCAAATTGAAATCGAA CACATAAAA	60.2	253	INTERGENIC	--	--	--
Ca4_P1_40836419	Ca4	40836419	TAAAAAAA/TAAAAAAA	GTGTCGGTCACGACAT TCAG	AGATTGAAAAGTTGCA CCCG	60.2	714	INTERGENIC	--	--	--
Ca4_P1_40837444	Ca4	40837444	TAAAAAAA/TAAAAAAA	GGAAGCAGATGGAAAA GGAA	TCAACTTTGAGGACCC AACA	59.2	494	INTERGENIC	--	--	--
Ca4_P1_4083772	Ca4	4083772	CAT/CATAT	TCTCTAACTCGGGTC TTGG	CCTTGCTGAAGAATCA TCCC	59.3	489	INTERGENIC	--	--	--
Ca4_P1_40839647	Ca4	40839647	TA/TAA	AGGTGGGCTTCTCCAT TTTT	CACAAAGTCAGCACTC CGAA	59.9	409	INTRON	Ca_23899	--	--
Ca4_P1_40839677	Ca4	40839677	GAT/G	AGGTGGGCTTCTCCAT TTTT	CACAAAGTCAGCACTC CGAA	59.9	409	INTRON	Ca_23899	--	--
Ca4_P1_40842049	Ca4	40842049	A/AG	CATTTCTTTCCATTG GCG	CCTTTGGACAACAGG CAGT	60.4	747	DRR	Ca_23898	--	--
Ca4_P1_40842793	Ca4	40842793	TC/T	CTGGATTGAGTTGAG CCAT	TGGACCAACCAAGCA CATA	60.1	568	INTERGENIC	--	--	--
Ca4_P1_40842971	Ca4	40842971	AGTGTGT/AGTGTGTGT	AAAATTTGTGCATCA GGGC	TCAAGATTGGCCAAG AATC	59.9	551	INTERGENIC	--	--	--
Ca4_P1_40843717	Ca4	40843717	ATTTTT/ATTTTT	GATTCTTGGCCCAATC TTGA	TTTGAGATGGTTGGTG TGTC	60.0	624	INTERGENIC	--	--	--
Ca4_P1_40844159	Ca4	40844159	TAAAAA/TAAAAA	AACATTAATGCAACAC GCCA	GACTTCGTCCTTAC AGAGAA	60.0	199	INTERGENIC	--	--	--
Ca4_P1_40846078	Ca4	40846078	TC/TCATGGTCC	CCATCAATTGGGTGGT TGTT	GGGAGAACATCATGCT CCAT	60.5	449	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_40846133	Ca4	40846133	ATTT/ATTTT	CCATCAATTGGTGGT TGTT	GGGAGAACATCATGCT CCAT	60.5	449	INTERGENIC	--	--	--
Ca4_P1_40852976	Ca4	40852976	T/TAA	ACCTTGAGATTGTTCC CACC	AAGTTAAGAGACCGCA TAAGCAA	60.1	203	DRR	Ca_23897	--	--
Ca4_P1_40854093	Ca4	40854093	TAAAAA/TAAAAA	ACACCCAGAAAGTACC CACG	TGAAATGCATTCTGCA CACA	59.9	610	DRR	Ca_23897	--	--
Ca4_P1_4085722	Ca4	4085722	TAGAGA/TAGAGAGA	TCGGCCGATAGCAAAA GTTA	CCATTTCTTCCACTC CCAA	60.7	685	INTERGENIC	--	--	--
Ca4_P1_4086337	Ca4	4086337	TAAAAAAA/TAAAAA	GGGGCGTGTCAAAGTT AAAA	ACCATCCGTATAAGC ACGC	60.0	453	INTERGENIC	--	--	--
Ca4_P1_4086522	Ca4	4086522	GATATA/GATATATA	GCGTGCTTTATACGGA TGGT	TGATGGAGGCCTAAAC AAGG	60.0	499	INTERGENIC	--	--	--
Ca4_P1_40880303	Ca4	40880303	GA/GAA	GGAAGTTTCAAAGCA CGAG	AAGTCCATTGCTTGC TGGT	59.9	411	INTERGENIC	--	--	--
Ca4_P1_40880423	Ca4	40880423	A/ATG	CTTTGGGAACCAAGCA CAAT	CAAGGTACCATTGATT TGTGGA	60.0	392	INTERGENIC	--	--	--
Ca4_P1_40881164	Ca4	40881164	TTCA/TTCAATATATCTCA	AAGACCCACATTGGT GAAAA	ATGAGTTCTTCATCGG TCGG	59.3	506	INTERGENIC	--	--	--
Ca4_P1_40881410	Ca4	40881410	CAAAA/CAAA	AAGACCCACATTGGT GAAAA	ATGAGTTCTTCATCGG TCGG	59.3	506	INTERGENIC	--	--	--
Ca4_P1_40882947	Ca4	40882947	GGAA/G	GAAAACCAATTGGGTC ATGC	GGTTAAATGCATCTG TAGTCCC	60.2	489	INTRON	Ca_11021	--	NAC
Ca4_P1_40887107	Ca4	40887107	GAAAAA/GAAAAA	TGAATCCAATCCATCC AACA	ACTATCGACCAACTGC CCAC	59.7	705	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_40887198	Ca4	40887198	TAAAAAA/TAAAAA	TGAATCCAATCCATCC AACA	ACTATCGACCAACTGC CCAC	59.7	705	INTERGENIC	--	--	--
Ca4_P1_40887510	Ca4	40887510	ATGT/ATGTGT	GCCATTGCTAGCTCTT TCGT	ACTATCGACCAACTGC CCAC	59.6	296	INTERGENIC	--	--	--
Ca4_P1_40891579	Ca4	40891579	AATATATA/AATA	GCACAAAAGCAGTGT GCCA	CCCGAACCTCTCCACA ATAA	60.1	869	INTRON	Ca_11020	R	G2-like
Ca4_P1_40891676	Ca4	40891676	AA/AAATTA	GCACAAAAGCAGTGT GCCA	CCCGAACCTCTCCACA ATAA	60.1	869	INTRON	Ca_11020	R	G2-like
Ca4_P1_40891712	Ca4	40891712	TCC/TC	ATCGAATCCTCGTTGG AATG	CCCGAACCTCTCCACA ATAA	59.9	725	INTRON	Ca_11020	R	G2-like
Ca4_P1_40892990	Ca4	40892990	AATT/AATTATT	TTTGTTGGCTTGCACT TTTG	TTTCCTCTAGCCGAG TTCA	59.9	138	INTRON	Ca_11020	R	G2-like
Ca4_P1_40893226	Ca4	40893226	CTCTATCTAT/CTCTAT	TGAACTCGGCTAGGAG GAAA	TATATGGGGGTCCATT CCTG	59.9	294	DRR	Ca_11020	R	G2-like
Ca4_P1_40893320	Ca4	40893320	CATATA/CATA	TGAACTCGGCTAGGAG GAAA	CGCAAGTGTGGACAA TGAT	59.9	703	DRR	Ca_11020	R	G2-like
Ca4_P1_40896217	Ca4	40896217	GAAAAAAA/GAAAAAA	AGTTGCAGAAATGTGA AGAAAA	TTGGATCACACCCATT TGAA	58.1	619	INTERGENIC	--	--	--
Ca4_P1_40896275	Ca4	40896275	ATGTGT/ATGT	CACAAATATTCATAAGT GTGACTTCAA	GAACCTGATGAAGTGT GGCA	58.7	818	INTERGENIC	--	--	--
Ca4_P1_40901186	Ca4	40901186	ATTTTTATTATTTTTATT/ATTTTTATT	GGGTATATTAATTTAAC AACTCCCTCC	TTAGGAGGTCGCATCT TCGT	59.7	462	INTERGENIC	--	--	--
Ca4_P1_40901246	Ca4	40901246	AAA/AAATAA	GGGTATATTAATTTAAC AACTCCCTCC	TTAGGAGGTCGCATCT TCGT	59.7	462	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca4_P1_40901551	Ca4	40901551	CTTTTTTT/CTTTTTTTTT	ACGAAGATGCGACCTC CTAA	AACACAAAGGAAAGCG GAAA	59.8	561	INTERGENIC	--	--	--
Ca4_P1_40901611	Ca4	40901611	CTTTTTTT/CTTTTTTTTT	ACGAAGATGCGACCTC CTAA	AACACAAAGGAAAGCG GAAA	59.8	561	INTERGENIC	--	--	--
Ca4_P1_40902003	Ca4	40902003	ACTCT/ACT	TTCCGCTTTCCTTTGT GTTT	CATGGAGTGATCGATT GTCG	59.7	476	INTERGENIC	--	--	--
Ca4_P1_40903317	Ca4	40903317	TAA/TA	GCCCAAGCACAAACCT ACAT	GCTTTTGTCAACCCCT GGTA	60.0	310	INTERGENIC	--	--	--
Ca4_P1_40904392	Ca4	40904392	CAAA/CAA	AAAGCAACCGACTAG GGTT	GAAATGGACTAAGAC GACGG	60.0	173	INTERGENIC	--	--	--
Ca4_P1_40907158	Ca4	40907158	TATACAT/TATACATAATACAT	TGTCGTTGAAATCAAA GCAAT	ATCGTTTGGTGGAAGA ATCG	58.3	334	INTERGENIC	--	--	--
Ca4_P1_4090948	Ca4	4090948	T/TG	TAAGCACCCCTCCGCT TCTA	TGAAATAATGGGCTAG GGCTT	60.0	564	DRR	Ca_03847	R	SBP
Ca4_P1_4090976	Ca4	4090976	A/AT	TAAGCACCCCTCCGCT TCTA	TGAAATAATGGGCTAG GGCTT	60.0	564	DRR	Ca_03847	R	SBP
Ca4_P1_40912106	Ca4	40912106	CG/CGGCTGTTGAACAAG	TGTGGGAAAATGAGAC ACCA	AAACAAATGGTGCAAG AGGG	59.9	484	DRR	Ca_11019	R	--
Ca4_P1_40922455	Ca4	40922455	CTTTTTTTTT/CTTTTTTTTTTTTT	CAGCATGCATCTGGAA AGAA	AATGAGGCGGTGGTAT CTTG	59.9	534	INTRON	Ca_11016	R	--
Ca4_P1_40924286	Ca4	40924286	ACAATATG/ACAATATGTAGCTTCAAT ATG	GTGATCTACGTGGTGC CCTT	ACCCAAAATGAGGTGG TTCA	60.0	548	DRR	Ca_11015	--	bZIP
Ca4_P1_40926854	Ca4	40926854	TA/TAA	ACACACCGACACCGAC AATA	GGTTGGAAAATGCAAG CCTA	59.9	311	INTRON	Ca_11015	--	bZIP

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_40929080	Ca4	40929080	T/TC	ATGGTGGGGTAAGCA ATCT	AAGAAGCGCGTATTGG TGTT	60.6	813	INTRON	Ca_11015	--	bZIP
Ca4_P1_40929158	Ca4	40929158	C/CA	TCCATCATATTGCAAT GGTTC	AAGAAGCGCGTATTGG TGTT	59.7	506	INTRON	Ca_11015	--	bZIP
Ca4_P1_40929966	Ca4	40929966	TAAAAAAAA/TAAAAAA	TCATCGTTGGTAAAA TTTAGAGGA	TTAAGATGGTTGAGGC CTTATT	60.2	418	INTRON	Ca_11015	--	bZIP
Ca4_P1_40930508	Ca4	40930508	ATT/ATTTT	GGCCTCAACCATCTTA ATAAAACA	AAGCATTCCACCATCA CTCC	60.6	487	INTRON	Ca_11015	--	bZIP
Ca4_P1_40931865	Ca4	40931865	TCCC/TCCC	TGCTTGGAAAACAAGC AATT	AACTCGTGGGAACGC ACTAC	59.8	779	INTRON	Ca_11015	--	bZIP
Ca4_P1_40934743	Ca4	40934743	A/AGC	GCTCGTCAACAACGTG AGAA	TGCAGATTGCAAGAC AAGG	60.0	689	INTERGENIC	--	--	--
Ca4_P1_40935936	Ca4	40935936	T/TC	TTTTCACGAATGATCC ACCA	GTCGTCAATCCAACC TCGT	59.9	350	INTERGENIC	--	--	--
Ca4_P1_40937505	Ca4	40937505	GTTTTTTTT/GTTTTTTTTT	TAATCCGATGGCAACA TGAA	CGGTAGGAAATGATGA AACCA	59.9	615	INTERGENIC	--	--	--
Ca4_P1_40944823	Ca4	40944823	CAAGAAA/CAAGAAAGAAA	GCACATTGGATGTTTG ATGG	TGGGTTTTGTTTGAAA TTTTTG	59.8	698	INTERGENIC	--	--	--
Ca4_P1_40948499	Ca4	40948499	GAAAAAAAA/GAAAAAAAAA	AGGGTTGGGTTTGAGA GAAA	GGGAAGGAAAAATG GATGT	58.6	702	DRR	Ca_11013	--	--
Ca4_P1_40948599	Ca4	40948599	CAAAAAAAAA/CAAAAAAAAAA	AGGGTTGGGTTTGAGA GAAA	GGGAAGGAAAAATG GATGT	58.6	702	DRR	Ca_11013	--	--
Ca4_P1_40949429	Ca4	40949429	TT/TTAT	CCATGTGCACCATAAA TTGC	CAGAATGTTCTTCGG AATGG	59.8	612	INTRON	Ca_11013	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_40950539	Ca4	40950539	TAAAAAAA/TAAAAAAA	CCCAAAATAGAAACAC CAAAGG	AACGCAAGATGGAAT GGAG	59.7	687	INTRON	Ca_11013	--	--
Ca4_P1_40950816	Ca4	40950816	CCTC/CCTCTC	TCCATCTTTGCGTTTCT CCT	CATGTGACAAAAGGG TGGA	59.8	313	INTERGENIC	--	--	--
Ca4_P1_4095100	Ca4	4095100	TTCTTTCT/TT	GGAGGACGCTTTGTTC TGAG	CCGAATTCATTACCA CACC	60.0	313	INTRON	Ca_03846	T	--
Ca4_P1_40951362	Ca4	40951362	TAAAAAAA/TAAAAAAA	TGTGTGCACATCACGA AAGA	ATCGTGAGTTGAGGG GAGA	59.9	939	INTERGENIC	--	--	--
Ca4_P1_40956331	Ca4	40956331	CAA/CA	CCTCTTGGAAAGTTCC CTCC	GGGTACCCAACAAGG GATTT	60.0	682	INTERGENIC	--	--	--
Ca4_P1_40958047	Ca4	40958047	GTTT/GTTTT	CCGTGTTGGTGTGTG GTTT	TTTGTGGGTGTTTGAG ACCA	59.9	558	INTERGENIC	--	--	--
Ca4_P1_40966159	Ca4	40966159	GCATTTG/GCATTTGATGCCATTGTCA TTTG	AACATGGCTTTGTGCG GGTG	CTCAAAAACGAGCCAA AAGC	60.0	399	INTERGENIC	--	--	--
Ca4_P1_40967580	Ca4	40967580	TAAAAAAA/TAAAAAAA	AATGAAAACTTGTG CGGC	GTTTGAATCGGGTAA CGAA	60.1	748	INTERGENIC	--	--	--
Ca4_P1_40968955	Ca4	40968955	TC/TCC	CACTGGAATGATTGCC AAAA	TTCTACCAAGATCGG ATGG	59.5	398	INTERGENIC	--	--	--
Ca4_P1_40971058	Ca4	40971058	GAAAAAAA/GAAAAAAA	GGACTCCCAACCCTTT TAGG	TGAGATGTGCCTGTT TGGC	59.8	466	INTERGENIC	--	--	--
Ca4_P1_40996538	Ca4	40996538	GTTT/GTT	CGGTGTTAAAAATTGG GGTG	AAACGTGGAGGTGATT TTGC	60.1	445	DRR	Ca_11010	--	--
Ca4_P1_40996595	Ca4	40996595	GAAAA/GAAAA	CGGTGTTAAAAATTGG GGTG	AAACGTGGAGGTGATT TTGC	60.1	445	DRR	Ca_11010	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_40997097	Ca4	40997097	C/CT	GCAAAATCACCTCCAC GTTT	AACGGTCGTCTCCATT CATC	60.0	762	DRR	Ca_11010	--	--
Ca4_P1_40998297	Ca4	40998297	TAAAAA/TAAAAA	GCACAACTGCATCATT GGTT	TTTTGGCATAATTCTTA TTTTGAA	59.6	820	INTERGENIC	--	--	--
Ca4_P1_40999557	Ca4	40999557	AAA/AAACAA	TTCTATCAAAACCAACC CGAA	TGCACGTCTAACTCAA CTCACA	59.4	574	INTERGENIC	--	--	--
Ca4_P1_41000861	Ca4	41000861	GAAT/GAATTATTAACCAAT	TTTATTGTGTGGCGG ACTG	TAGGCTTCTTGTGGA TGGG	59.6	278	INTERGENIC	--	--	--
Ca4_P1_41000984	Ca4	41000984	CTAT/CTATAT	CCCATCCAACAAGAAG CCTA	CGAAAATATGTTGTG GGGG	60.1	514	INTERGENIC	--	--	--
Ca4_P1_41003509	Ca4	41003509	A/AG	GCCAAATGAAATAATG ATCGC	CGCTCTTTCGACACAC TCAA	59.4	348	INTERGENIC	--	--	--
Ca4_P1_41007526	Ca4	41007526	CTTTT/CTTTT	TATGCTGGCAAACAAC CAAA	ATGCTCCTAACATGAT CCGC	60.1	667	INTERGENIC	--	--	--
Ca4_P1_41007615	Ca4	41007615	AATATATATATA/AATATATATATAT A	TATGCTGGCAAACAAC CAAA	ATGCTCCTAACATGAT CCGC	60.1	667	INTERGENIC	--	--	--
Ca4_P1_41007675	Ca4	41007675	ATTTTT/ATTT	TATGCTGGCAAACAAC CAAA	ATGCTCCTAACATGAT CCGC	60.1	667	INTERGENIC	--	--	--
Ca4_P1_41007703	Ca4	41007703	CTTAATTAGTTAATTAGTTAA/CTTAAT TAGTTAA	TATGCTGGCAAACAAC CAAA	ATGCTCCTAACATGAT CCGC	60.1	667	INTERGENIC	--	--	--
Ca4_P1_41010880	Ca4	41010880	CATTATATTATATT/CATTATATT	CTTCTCCCCTGTTAGT CCCC	AGGTCAAACCGTCAAA GTGC	59.9	730	DRR	Ca_11009	--	bHLH
Ca4_P1_41012180	Ca4	41012180	TAAAAA/TAAAA	GCTTGATGGGAGAGCA AAAA	TTTGGCAGCACTTCTA TTGTG	60.3	738	DRR	Ca_11009	--	bHLH

[illegible]

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_4118787	Ca4	4118787	CTTTTTTTTT/CTCTTTTTTTTTTT	CCCCTCGATAGATTGC AAAA	CATTCAGCACAAAGCA AAGC	60.0	410	INTERGENIC	--	--	--
Ca4_P1_41195132	Ca4	41195132	TTATATATATATATATATATATAT ATAT/TTATATATATATATATATAT ATATAT	TTTCATGGGAATTTTGAT AGATTTG	CAATTTAACAATTTGT GTTACGCC	59.3	862	DRR	Ca_10991	K	FAR1
Ca4_P1_41200706	Ca4	41200706	TAAAAAAAAAAAAA/TAAAAAAAAAAAA	CCCCCTGAAATATTGG ACCT	TTTGGATGTTGAAGAC GTGC	60.0	168	INTERGENIC	--	--	--
Ca4_P1_4120817	Ca4	4120817	GTTT/GTTTCATTTT	ATGGTCGAAACCAATT GAGC	TTTTGGAGGATTGAGA TGGG	59.9	660	INTERGENIC	--	--	--
Ca4_P1_4120892	Ca4	4120892	G/GA	ATGGTCGAAACCAATT GAGC	TTTTGGAGGATTGAGA TGGG	59.9	660	INTERGENIC	--	--	--
Ca4_P1_4121122	Ca4	4121122	AT/A	AAATGGCGAACTGAGT CCAT	TTTTGGAGGATTGAGA TGGG	59.6	540	INTERGENIC	--	--	--
Ca4_P1_4121415	Ca4	4121415	ATT/AT	CTCATATGAACGGCCC ATCT	TGTTGTACGGACTCG ACCA	59.9	403	INTERGENIC	--	--	--
Ca4_P1_4123332	Ca4	4123332	GAAAAA/GAAAAAA	TGAATTGCTTTGCTCC CTTT	TGATTCTCGTTCTCGA TCCC	59.8	652	INTERGENIC	--	--	--
Ca4_P1_41261010	Ca4	41261010	CTTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTAT TATTATTATTATTATT/CTTATTATTAT TATTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTAT TATTATT	GCAATGTTGGACGACA CAAT	CATTTAACAACCGTTT CGGG	59.4	844	INTERGENIC	--	--	--
Ca4_P1_4126408	Ca4	4126408	AATATATATATATATATAT/AAATA TATATATATATATATATAT	TTTGATCCATTGTCTC GTGA	TTTTGGATATTGACC CGGA	60.2	947	INTERGENIC	--	--	--
Ca4_P1_41272417	Ca4	41272417	GATTATTATTATTATTATTATTATT ATT/GATTATTATTATTATTATTATT ATT	GGTTCACATGGAACCT CAACA	AGCCTTTTGCTTCCTT CCTC	60.8	737	INTERGENIC	--	--	--
Ca4_P1_41273196	Ca4	41273196	CTTTTTTT/CTTTTTT	AGAGGAAGGAAGCAAA AGGC	TCGCTTCCCCATAGAA CAAC	60.0	530	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/P1)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_4127483	Ca4	4127483	AG/A	TGTGCATGACCAATA CTCCA	ATATACGGCCGCTCAT CCTA	60.0	248	INTERGENIC	--	--	--
Ca4_P1_41283155	Ca4	41283155	AATATATATATATATATAT/AATATA TATATATATATATATAT	TCTCTTGTGCCTCATC TATGACA	ATGCACTTAGCCATGT GTGC	59.9	636	DRR	Ca_10982	P	GRAS
Ca4_P1_4131889	Ca4	4131889	ATATTATTATTATTATTATTAT/ATA TTATTATTATTATTATTAT	GCCTTCAATATTTATT GGTCCAT	GATGAGAATGAAAATA GGAGGGA	59.5	817	INTERGENIC	--	--	--
Ca4_P1_41320371	Ca4	41320371	TGGGG/TGGG	TGGAGCATATGCGTAG CAAG	GCTTGCTTTGCCCAT ACAT	60.0	761	DRR	Ca_10977	K	LBD
Ca4_P1_41327650	Ca4	41327650	TTTATTATTATTAT/TTTATTATTAT TATTATTAT	AAGAGCTAGACGAGTT CGACG	GCCGCCAGACATTCAT TATT	58.9	569	INTERGENIC	--	--	--
Ca4_P1_41328217	Ca4	41328217	GTCTCTCTCTCTCTCTCTCTCTCTC TCTCT/GTCTCTCTCTCTCTCTCTCTC TCTCTCTCTCTCT	AATAATGAATGTCTGG CGGC	GCCGCTTATTGCTTC TGAC	59.9	669	INTERGENIC	--	--	--
Ca4_P1_41370951	Ca4	41370951	AATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTATTA TTATTATTATTATTATTAT/AATTATTAT TATTATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTATT TTATTATTATTATTATTATTATTATT	CATGAACGGGTCTAAA AATTCA	TTTGGGATTTTGGTC TTGC	59.0	401	INTERGENIC	--	--	--
Ca4_P1_41376499	Ca4	41376499	TAAA/TAAAA	TATTCGCGAAATGGGT TTCT	CCTGCAGTTCTTCGT CTTC	59.5	447	DRR	Ca_10970	--	NF-YB
Ca4_P1_41435167	Ca4	41435167	AA/AAATATTA	TAGGGGAACGATGTTT GCTT	TGGAGTTGATCATTTG TGCA	59.6	476	INTERGENIC	--	--	--
Ca4_P1_41435407	Ca4	41435407	AATTATTATTATTATTATTATTATT ATTATT/AATTATTATTATTATTATTATT ATTATTATT	TAGGGGAACGATGTTT GCTT	CAGCGCATCAATCAAG TACA	59.6	698	INTERGENIC	--	--	--
Ca4_P1_4156202	Ca4	4156202	ACTT/ACTTCTT	TTGTGGTCCTTCCATT TTCC	AGCTGCAAGGAGCTAT CCAA	59.8	316	DRR	Ca_03840	R	--
Ca4_P1_41713312	Ca4	41713312	TAAAAA/TAAAAA	CCATCAAAACATGCAT CCAC	CATGACAACACAACCA ACCA	59.8	748	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_41717468	Ca4	41717468	GAAAAAAAAAAAAA/GAAAAAAAAAAAAA	CCAGCGAAGACATAGT CCAAG	TGTCACACGCAACAT GAAA	59.9	315	INTERGENIC	--	--	--
Ca4_P1_41756748	Ca4	41756748	GAAAAAAAAAAAAA/GAAAAAAAAAAAAA	GGGCTAAGCAATCAC CAAG	CACTTGTGTGCACCTT TGCT	59.7	896	INTERGENIC	--	--	--
Ca4_P1_41758727	Ca4	41758727	AATTATATTATATTATATTATATTAT TA/AATTATATTATATTATATTATATTAT ATTATATTA	TTTGAGATTGCATCA CGTC	TGTGAAATATGTCAAT GCCGA	59.7	505	INTERGENIC	--	--	--
Ca4_P1_41805048	Ca4	41805048	CGTGTGTGTGTGT/CGTGTGTGTGTG TGT	TCCAATAGCCAACCTT CACC	CAATTGAAAAGCACCC CACT	59.9	771	INTERGENIC	--	--	--
Ca4_P1_41806206	Ca4	41806206	CTA/CTAATA	TGCCTTGAATCTCTCT TGGA	TGGAAAACCATAATTG AGCG	59.9	905	INTRON	Ca_10934	QR	B3
Ca4_P1_41808505	Ca4	41808505	ACC/AC	AATAAGTGTTTTCGGC GCAT	GGGTCAGTGCCATTAT TGCT	59.6	430	DRR	Ca_10934	QR	B3
Ca4_P1_41810070	Ca4	41810070	AA/AAGCAAAAGAGGA	TCAACGAATGAGATCG TGATG	TCGTGAACATAGCTTG TGGC	59.7	345	INTERGENIC	--	--	--
Ca4_P1_41810677	Ca4	41810677	ATTTTT/ATTTT	CATGGCAAGTGGTGG GTTT	TTTGTGGTGGACGAC AAAT	61.0	517	INTERGENIC	--	--	--
Ca4_P1_41823293	Ca4	41823293	ATTTTTTTT/ATTTTTTTTTT	TGGCAAAATATCTTTC TTTCG	TGGAACAATTGAACAC CGTT	59.1	898	INTERGENIC	--	--	--
Ca4_P1_41823400	Ca4	41823400	A/AAT	GGAAATTTACTTGAATT CATGGCT	TGGAACAATTGAACAC CGTT	59.8	420	INTERGENIC	--	--	--
Ca4_P1_41823592	Ca4	41823592	AT/A	GGAAATTTACTTGAATT CATGGCT	CAATTGTTTCGTGTTGC GTCT	59.8	689	INTERGENIC	--	--	--
Ca4_P1_41823716	Ca4	41823716	TT/TTAAT	GGAAATTTACTTGAATT CATGGCT	CAATTGTTTCGTGTTGC GTCT	59.8	689	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_41823980	Ca4	41823980	CATCAGA/CA	CATCAAGACCATTTCC AGCA	CAATTGTTCTGTTC GTCT	59.6	114	INTERGENIC	--	--	--
Ca4_P1_41824482	Ca4	41824482	A/AAAACTTT	CAAGTGGTGCAGTTG ATTG	GAGATTGGCTACATT GGGA	60.2	654	INTERGENIC	--	--	--
Ca4_P1_41826986	Ca4	41826986	TC/T	TGCACCTGAAAATTCA GACC	AAACAAGCCCATGGAA AATG	58.7	508	INTERGENIC	--	--	--
Ca4_P1_41827335	Ca4	41827335	CATGA/CATGATGA	ATTTTCATGGGCTTG TTTG	TACGATGAATCTCGGG CTCT	59.8	619	INTERGENIC	--	--	--
Ca4_P1_41832968	Ca4	41832968	AATATATATATA/AATATATATATA	TTTCATTGCACTCACT CCA	CCTATCATGGCCTGAC CTGT	60.2	758	INTERGENIC	--	--	--
Ca4_P1_41892915	Ca4	41892915	GAAAAAAAA/GAAAAAAAAA	TTGAAAAGGCCAAAT CCAA	CCCGAAAATAACAAAG CGAA	60.4	298	INTERGENIC	--	--	--
Ca4_P1_41912186	Ca4	41912186	ATTTTTTTTT/ATTTTTTTTTT	ACATCACGCCTCCAAT CTTT	TGAGCTTTTAGGTGGC ACAA	59.6	883	INTERGENIC	--	--	--
Ca4_P1_419451	Ca4	419451	CAAA/CAAAAAA	CAAGATGCGATCCTGG AGTT	CGCCTCTTGCAAAAAG ATGT	60.2	462	INTERGENIC	--	--	--
Ca4_P1_4194540	Ca4	4194540	TAATG/T	ATCTTCGGCAAAAGAA GCAA	AGAGAAGACTCACTGG GGCA	60.0	840	INTRON	Ca_03838	R	--
Ca4_P1_41954994	Ca4	41954994	TAAAA/TAAA	GCGAAATTCATGCAA ACAA	TGTGTCAATTTTATC GGTTGA	59.7	610	INTERGENIC	--	--	--
Ca4_P1_4196255	Ca4	4196255	CTATAAATT/CTATAAATTAATATAAAT T	ATTGGCCGGAAATTGT ACTG	TCAGGGGACCATAAAA GAAGG	59.8	378	DRR	Ca_03838	R	--
Ca4_P1_4196538	Ca4	4196538	ATTTT/ATTT	ATTGGCCGGAAATTGT ACTG	TAACCCAAGGCCATAT CCTG	59.8	841	DRR	Ca_03838	R	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_41984896	Ca4	41984896	ACTCT/ACTCTCT	TCCGCTTTCTTTGGG TATG	AATCCTCACACCTAC GTGC	60.1	845	DRR	Ca_10923	B	NF-YC
Ca4_P1_41993168	Ca4	41993168	CTGCAGTTGCAGTTGC/CTGCAGTTG C	GGGCTGGTTGGTATGT ATGG	GTCTGCAACTGCGATT TCAA	60.1	381	INTRON	Ca_10922	P	--
Ca4_P1_42042301	Ca4	42042301	AATATATATATATATATATATATATA TATATATATATATA/AATATATATATAT ATATATATATATATATATATATATATA ATATATA	TCAACCCAATTGAACC GAAT	CGAAGCTGAAGGGCT AAATG	60.2	413	INTERGENIC	--	--	--
Ca4_P1_42078586	Ca4	42078586	AAGGCATGAAA/AAGGCATGAAACAC AGGCATGAAA	TCTTTTGAACACTCCC CCTG	CCAAAGGAAACCACGA CAAT	60.1	810	INTERGENIC	--	--	--
Ca4_P1_42083362	Ca4	42083362	CA/CAA	TTTCAAAGGTTTGCATT GTGA	AAAATTAACCGTATGG CCGA	59.2	327	INTERGENIC	--	--	--
Ca4_P1_42101261	Ca4	42101261	CGAGAGAGAGAGAGAGAGAGAGAGA GAGAGAGAGA/CGAGAGAGAGAGAG AGAGAGAGAGAGAGAGAGAGAGA	CCTCATTCCGTTGTTT CGTT	GCCGAACCGTTTCGTA CTTA	60.0	565	INTERGENIC	--	--	--
Ca4_P1_42118929	Ca4	42118929	GTAT/GTATAT	GCAGAAGTTGGCTTCT TTGG	TCACGGCATAAGGTTT GTCA	60.0	677	DRR	Ca_10911	R	Nin-like
Ca4_P1_42120439	Ca4	42120439	TAAAAA/TAAAAA	CACAAGCATTGGAGTC CCTT	AACTCGTGGGTTGGAT TTTG	60.1	495	INTRON	Ca_10910	--	C2H2
Ca4_P1_42120489	Ca4	42120489	TAAAA/TAAA	CACAAGCATTGGAGTC CCTT	AACTCGTGGGTTGGAT TTTG	60.1	495	INTRON	Ca_10910	--	C2H2
Ca4_P1_42332097	Ca4	42332097	GAAAAA/TAAAAA	TCAGGGCAACTGAAA GTCT	CTGGATGTGCATCCTG TTTG	59.8	628	INTERGENIC	--	--	--
Ca4_P1_42374619	Ca4	42374619	ATTTTTTT/ATTTTTTT	TTTGATGTGTTACGG CACT	CGGCATGCATGATTAT TTTG	60.2	331	INTERGENIC	--	--	--
Ca4_P1_42407053	Ca4	42407053	GTTT/GTTTT	GCATAAGGATCGGGGA AACT	AATGATCGTCTTCGGA TTGG	60.3	392	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_42412637	Ca4	42412637	GA/GAA	CTTCTCAAGGACGCA TCAT	AATTGGCAAGTTTGA CACG	60.2	170	INTERGENIC	--	--	--
Ca4_P1_4242821	Ca4	4242821	A/ATCTG	TCCGTTTCAATCATCG TTCA	CACAAATAAGCACCTC CCAAA	60.0	765	DRR	Ca_03833	I	--
Ca4_P1_42433424	Ca4	42433424	AATATATATATATATATATATATATA TATATATAT/AATATATATATATATAT ATATATATAT	CCCAAGCAAGGTCGAT TTTA	TTCTTTTCCCTCCAAC CATT	60.1	381	INTERGENIC	--	--	--
Ca4_P1_42513890	Ca4	42513890	TTTATTATTATTATTATTATTATTATTA TTATTATTATTATTATTA/TTTATTATTA TTATTATTATTATTATTATTATTA	ACACGTTTTGTGTTGTG GCAA	GTTGGCTTTTGTACCC CTCA	60.1	303	DRR	Ca_10898	--	WRKY
Ca4_P1_42516686	Ca4	42516686	CAAAA/CAAAAAA	GTCCTTTGCCATCTAC CTCG	ATCTGCCAGAGCGATG TCTT	59.7	695	DRR	Ca_10897	--	Dof
Ca4_P1_42517427	Ca4	42517427	AATATATATATATATATATATATATA TATATATA/AATATATATATATATATAT ATA	ATAATGTTCCAGACCC GAGG	GAGCTGTCCACGACA CTCAA	60.0	466	INTRON	Ca_10897	--	Dof
Ca4_P1_42546801	Ca4	42546801	CAAAA/CAAAAA	GGTTGGTCAATATTAA TTCCGC	CTAATATCATCGCCCC TTCG	59.6	686	INTERGENIC	--	--	--
Ca4_P1_42548370	Ca4	42548370	ATTTTTTTT/ATTTTTTTTT	CGTGCTTTGTGCTCT CTTT	AGAGGCCCAATATCCT TGCT	60.4	528	INTERGENIC	--	--	--
Ca4_P1_42561342	Ca4	42561342	AATAGAGATAGAGATAGAGATAGAGA/ AATAGAGATAGAGATAGAGA	CGGCAAAACAGAGACA ATCA	TCTCAGGTTGTGAGG ACTG	59.8	310	INTERGENIC	--	--	--
Ca4_P1_42588996	Ca4	42588996	TCC/TC	ACACGGCTGGGTGTAA GGAC	TATGGGAGAGGTTGA GACCG	60.0	766	INTERGENIC	--	--	--
Ca4_P1_42633986	Ca4	42633986	TATAATAATAATAATAATAATAATA ATAATA/TATAATAATAATAATAATAAT AATAATAATAATAATAATA	TTGCTTTAGATGAATCA AATCCC	CGACAGGCTTAGGTTA GACCA	59.5	362	INTERGENIC	--	--	--
Ca4_P1_42664491	Ca4	42664491	AATATATATATATATATATA/AATATAT ATATATATATATATA	TCGTTTGCTGACATGG GATA	TGCAATGGCGAATTAC TCAA	60.1	800	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_4269269	Ca4	4269269	TTATATATATATATATATATAT/TTAT ATATATATATATATATATATATAT	ACACGGTGATCGTCAG TGAA	ACACGTGACACTTACC TAGCAA	60.2	596	INTERGENIC	--	--	--
Ca4_P1_42693293	Ca4	42693293	TC/TCC	AAATGCTCGAACGAAA ATGC	TCGAAGTTGGATGCTT TTGA	60.2	503	INTERGENIC	--	--	--
Ca4_P1_4275930	Ca4	4275930	CAACGTA/CAACGTAACGTA	GTCTCCTTGAGAAAA GGGC	AAAAGCGAATGCAGA AGAA	60.2	652	DRR	Ca_03831	R	NAC
Ca4_P1_42776316	Ca4	42776316	TTTTTATTTATTTTATTTTATTTATT/ TTTTTATTTATTTTATTTTATT	AGGAAATGCTAGGTTG TGCTG	AAAACACCAAATCGGT GAGC	59.4	533	INTERGENIC	--	--	--
Ca4_P1_42945720	Ca4	42945720	CATATATATATAT/CATATATATATATA T	TGTCAATGTTACTTTAT TTCAAAACCTC	TTGGGTTATCTTCATT GCAAAA	57.2	739	INTERGENIC	--	--	--
Ca4_P1_4296365	Ca4	4296365	ATTTTTTTTTT/ATTTTTTTTTTT	CAAAGCCCCACACTA AAAA	TATGGCGGTTGGACT GTGTA	60.0	525	INTERGENIC	--	--	--
Ca4_P1_43005724	Ca4	43005724	CTTTTTTTTTT/CTTTTTTTTTT	TTGTAGTTGTATTCAAT GACGAAGA	CAGAATTAATTTATTG ACAACCTCCA	58.0	628	INTERGENIC	--	--	--
Ca4_P1_4302695	Ca4	4302695	ATATTATTATTATTATTATTATTATT TATTATTATTATTATTAAATATTATT ATTATTATTAAATATTATTATTATTAT TTATTATTATTATTATTATTATTATT TATTATTAAATATTATTATTATTATTA	GCATCTCCAAATGCG ATCT	TGAGTCCAAACAAAT GGTGTC	60.2	730	INTERGENIC	--	--	--
Ca4_P1_4305073	Ca4	4305073	ATTT/AT	TTGAATGGACGGGGTA AAAA	GAGGCGTTTGTGTTGTG GATT	60.2	729	INTERGENIC	--	--	--
Ca4_P1_4315229	Ca4	4315229	CTTTT/CTTTTT	ATGCGACCTTCATCAA ATGC	TCACTCGTTTTTACGT CTTTTG	61.0	813	DRR	Ca_03828	U	bHLH
Ca4_P1_43222555	Ca4	43222555	TTATATATATATATATATATAT/TTAT ATATATATATATATAT	AAAGATTAAAGGGCA AAAAGTG	CTGGCAGCTGGGAAA GATT	58.0	908	INTERGENIC	--	--	--
Ca4_P1_43273236	Ca4	43273236	G/GC	CGTCCCAAGACTCAAT GGAT	AAAGGGTGATGAGCTC GCTA	59.9	633	INTERGENIC	--	--	--

[illegible]

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_43685747	Ca4	43685747	CAAAAA/CAAAAA	CAACCATGATATGG ACACCC	TTTGGTCAATCGAAT TTAAAGG	58.9	706	INTERGENIC	--	--	--
Ca4_P1_43771826	Ca4	43771826	AAATAATAATAATAATAATAAT AATAATAATAATAATAATAA/AAAT AATAATAATAATAATAATAATA ATAATAATAATAATAATAATAA	TTCACATGCGGGTCAA ATTA	ATTCAAAGGAACCAAC CACG	59.9	478	INTERGENIC	--	--	--
Ca4_P1_4383126	Ca4	4383126	CG/CGTGGCAG	TAATTGCACTTTTGGTC CCC	GCGAAAGCATGATCAG TCAA	59.8	561	INTERGENIC	--	--	--
Ca4_P1_4383858	Ca4	4383858	TAAAAAA/TAAAAA	TTGACTGATCATGCTTT CGC	CTCTTCATCGCAGACA TCCA	60.0	828	INTERGENIC	--	--	--
Ca4_P1_43842884	Ca4	43842884	CTTTTTTTTT/CTTTTTTTTTTTT	AACCGAACTTTGTTCA TCCC	GGCTAAATTACATATG TGGTCCC	58.9	646	INTERGENIC	--	--	--
Ca4_P1_43846525	Ca4	43846525	TAAAAAAAA/TAAAAAAAAA	GGCCGGTCTGTCATAC CTAA	TTTGAGATTTGCCTC AACAA	60.0	541	INTERGENIC	--	--	--
Ca4_P1_43868196	Ca4	43868196	TTATATATATATATATATATAT/TT ATATATATATATATATATATATAT	TGCATTTCTGCCAATT CTG	TTCTCCATTGGGTTT CTGG	59.8	774	INTRON	Ca_09066	R	C2H2
Ca4_P1_43894968	Ca4	43894968	AATATATATATATATATATATATA TATAT/AAATATATATATATATATAT ATATATATATATATAT	TTGAAGCCCAATATGT CTCG	TTGATGGAGGACTACT CGGG	58.7	661	INTERGENIC	--	--	--
Ca4_P1_43902885	Ca4	43902885	TAAAAAAAA/TAAAAAAAA	TGGTTTCGAACAATTT CTGG	TGTTGGTCGGGTTAAA CTCA	58.6	267	INTERGENIC	--	--	--
Ca4_P1_43964694	Ca4	43964694	TAAAAAA/TAAAAAA	AGCGATTCAACCAACCA AAAC	ACCAAACGAGCCTAGC TGAA	60.0	715	INTERGENIC	--	--	--
Ca4_P1_44040432	Ca4	44040432	TAAAAAA/TAAAAAA	GATTGCGGAATTAGCC TTCTT	TGGTTAAGTGAAGCGC AAAC	59.7	774	INTERGENIC	--	--	--
Ca4_P1_44043408	Ca4	44043408	TAAAAAA/TAAAAAA	TACAAGCCTGAGCCTG ACCT	ACTGGAGATGCCAATG GAAC	60.0	592	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_44045635	Ca4	44045635	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA	TCGCTCCGCTCTTTA TCTT	TGACTCATTGATTTG ACTCGG	58.9	413	INTERGENIC	--	--	--
Ca4_P1_44057615	Ca4	44057615	TTTATTATTATTATTATTATTATT/T TTATTATTATTATTATTATTATT	AATGCGTGTCTTGCT GTTG	CTTGCCAAAGGAATC AAAA	59.9	198	INTRON	Ca_09080	K	ARR-B
Ca4_P1_4406006	Ca4	4406006	AATATATATATATATATATA/AATAT ATATATATA	AAGGAAATCCAAATC TTGGTG	GATGACTTAGATTTGA TGACAATGC	59.4	409	INTERGENIC	--	--	--
Ca4_P1_4406517	Ca4	4406517	TA/T	CAAGGTAATGCATTGT CATCAA	CGATTGCTTGCCTGTA TGAG	59.9	734	INTERGENIC	--	--	--
Ca4_P1_44083427	Ca4	44083427	TTATATATATATATATATA/TTATATA TATATATATATA	TTGGCAGAGGTGAAGG TAGG	AAACCAACCATGCATA ACCC	60.2	565	INTERGENIC	--	--	--
Ca4_P1_44098644	Ca4	44098644	ATTTTTTT/ATTTTTTTT	TCACCTTCATCCATCG TCAA	TGTGGTGTGCAAGATG ACTG	60.0	408	INTERGENIC	--	--	--
Ca4_P1_44134460	Ca4	44134460	AAC/AACACAC	TACCAGATTGCCCCAC TTTC	GCCAAAACGGATGAAG TTGT	59.9	554	INTERGENIC	--	--	--
Ca4_P1_44189746	Ca4	44189746	ATTTTTTT/ATTTTTTTT	TCCAAAATACAATTTT CTAAACACG	TTTGAACCTTCCACAC CACA	59.8	886	DRR	Ca_09095	--	GRAS
Ca4_P1_44285942	Ca4	44285942	AATATATATAT/AATATATAT	AATGTCCTCGATGCAT ACGTT	CGTTGCTGCGGATTTT ATTT	59.5	547	INTRON	Ca_09102	--	C2H2
Ca4_P1_44350579	Ca4	44350579	TTATATATATATATATATATATATAT ATATATAT/TTATATATATATATATAT ATATATATATATATATATAT	GCTTGAGCTAACAA CGCA	GTGGCCAAAAGGTAG GTGAA	60.2	289	DRR	Ca_09105	S	--
Ca4_P1_44428431	Ca4	44428431	CATATATATATATATATAT/CATATA TATATATATAT	TGTTGCGGAAATGTTA GTTCA	TTCATCCATGCAATAT TCAAAAA	59.2	699	INTERGENIC	--	--	--
Ca4_P1_44488143	Ca4	44488143	AAATAATAAAT/AAATAATAATA AT	AAACCCAATTGTTGAT GGGA	GCGACCATCTGCTTTC GTAT	60.0	336	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_44488487	Ca4	44488487	T/TC	AAACCCAATTGTTGAT GGGA	TTGACGGTTGTCAAAA TCCA	60.0	715	INTERGENIC	--	--	--
Ca4_P1_44489358	Ca4	44489358	CTTTT/CTTT	TTTTGTTTCTCCACCCC AAA	TGACTGCACACAATAA ACATTGA	60.3	400	INTERGENIC	--	--	--
Ca4_P1_44489529	Ca4	44489529	CATA/CATATA	TTTTGTTTCTCCACCCC AAA	TCAATCGATCAGTTGC TTTTT	60.3	785	INTERGENIC	--	--	--
Ca4_P1_44489710	Ca4	44489710	TTT/TTCTT	TTCTGGACTGCTCCAA AACA	TCAATCGATCAGTTGC TTTTT	59.4	611	INTERGENIC	--	--	--
Ca4_P1_44491674	Ca4	44491674	CAA/CA	GGCTGAATAATTGTGT CGGG	CACTGCCTTCCCATT CCTA	60.3	314	INTERGENIC	--	--	--
Ca4_P1_44495959	Ca4	44495959	CTTTTTTTTT/CTTTTTTTTTT	CTCAATCAAATGAAGG GGGA	ACCATGTTGCATTGT GCTA	59.9	582	DRR	Ca_09122	--	--
Ca4_P1_44498939	Ca4	44498939	CTTT/CTT	ACCTTGGGCCTTAATT GAAA	CGGAACATCACTGTT ACAAA	58.6	410	INTERGENIC	--	--	--
Ca4_P1_44500579	Ca4	44500579	A/AT	TCTCAATCTAAATCG GCTCAA	TTCATTATTGCAGTTT GGTCC	59.0	391	INTERGENIC	--	--	--
Ca4_P1_44505236	Ca4	44505236	ATTT/AT	TCATTTCTTCGGTTCA TCC	CGCAAAATAGATTTTA CAGCGTT	59.9	797	INTERGENIC	--	--	--
Ca4_P1_44507124	Ca4	44507124	TAA/TAAA	CCGGCTAGAAAACGTT GAAG	GGTCATTTTGAACAAC CGCT	59.9	759	INTERGENIC	--	--	--
Ca4_P1_44507569	Ca4	44507569	CTTTT/CTTT	AGCGGTTGTTCAAAAT GACC	AAAGCAAGTCCGACCA AAAA	60.0	421	INTERGENIC	--	--	--
Ca4_P1_44507737	Ca4	44507737	TTTCTTCTT/TTTCTTCTTCTT	AGCGGTTGTTCAAAAT GACC	AAAGCAAGTCCGACCA AAAA	60.0	421	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_44507825	Ca4	44507825	TGTA/TGTAACAGTAGTA	AGCGGTTGTTCAAAAT GACC	TTAAGGGAGTGCATGA GCAA	60.0	835	INTERGENIC	--	--	--
Ca4_P1_44507935	Ca4	44507935	CT/CTT	AGATATTTGGCGGTGG TCAG	TTAAGGGAGTGCATGA GCAA	60.0	780	INTERGENIC	--	--	--
Ca4_P1_44508264	Ca4	44508264	TTCCCTG/T	GAAATGGATTTTGGT CGGA	TGTGCATCCGTGATAC ATGA	59.7	961	INTERGENIC	--	--	--
Ca4_P1_44511339	Ca4	44511339	ATTTT/ATTTT	GATGCAGGTCATGAAA CCAA	GTCTCAACGCTTCAA GAGG	59.5	494	INTERGENIC	--	--	--
Ca4_P1_44513152	Ca4	44513152	TAAAAAAA/TAAAAAAA	AAGTTCATGGGTCTC ACGA	TGCTTTTAAGGATTC GTTTGC	58.1	725	INTERGENIC	--	--	--
Ca4_P1_44513689	Ca4	44513689	ATTTTTT/ATTTTTT	GCAAACGAATCCTTAA AAAGCA	TCTTGGGTTTGGCTCA TCTC	60.6	569	INTERGENIC	--	--	--
Ca4_P1_44514418	Ca4	44514418	TC/TCC	GAGATGAGCCAAACCC AAGA	CGGAAGTATGCTGTGT ACCG	60.2	889	INTERGENIC	--	--	--
Ca4_P1_44522624	Ca4	44522624	GAAAAA/GAAAAA	GAAGTTGCTTGCTCCG ATTG	CCCTAGCAAGTGCTAA CCCA	60.0	675	DRR	Ca_09124	--	ERF
Ca4_P1_44522868	Ca4	44522868	A/AG	ACAATCCCTTCGTTCC CTCT	CCCTAGCAAGTGCTAA CCCA	59.9	516	DRR	Ca_09124	--	ERF
Ca4_P1_44523921	Ca4	44523921	ATTTTTTTTT/ATTTTTTTTTT	GCAATGTGCTCACTTT TTGTCT	AACGAAGGAGGAGGG AAGAA	59.4	651	DRR	Ca_09124	--	ERF
Ca4_P1_44525079	Ca4	44525079	AGTATTTTCTTA/AGTATTTTCTTAT GTATTTTCTTA	ATGACGTTGGTGATTG GACA	TGGAGTAATCCCTAAT CATTTCA	59.8	357	INTERGENIC	--	--	--
Ca4_P1_44525230	Ca4	44525230	TAAAAA/TAAAAA	ATGACGTTGGTGATTG GACA	GCGCTAGCAAAATAG CCAC	59.8	884	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_44526873	Ca4	44526873	ACTCCAAA/ACTCCAAATGCTCCTCCA AA	TTCCATTCTTTTGGCA AGG	TTGGCTCAAGTGGGAT AAGC	60.0	397	INTERGENIC	--	--	--
Ca4_P1_44531457	Ca4	44531457	TAAAAAAA/TAAAAAAA	TTGCACAAAGACGAAA ATCG	GTAAATGCAGTGGCG GATCT	58.9	282	INTERGENIC	--	--	--
Ca4_P1_44533305	Ca4	44533305	TAAAAAAA/TAAAAAAA	CAAAATGCCGTCACAG AATG	CCTTGGTTTCGATGCC TAAA	60.1	368	DRR	Ca_09125	L	--
Ca4_P1_44540006	Ca4	44540006	CCTCTCTCTCTCTCTCT/CCTCTCTCT CTCTCT	TGGGAATTGGAACATG GAAC	CACACGATAGACCCCA TTGTT	60.6	411	INTERGENIC	--	--	--
Ca4_P1_44540317	Ca4	44540317	TAAAAAAA/TAAAAAAA	CACTCGATTGACCCC TCTC	CCTACGATCTTAGACA CGACCA	59.7	822	INTERGENIC	--	--	--
Ca4_P1_44540408	Ca4	44540408	TAA/TA	CACTCGATTGACCCC TCTC	GGACCCATGGTCAAG AAAGA	59.7	896	INTERGENIC	--	--	--
Ca4_P1_44543641	Ca4	44543641	TAAAA/TAAAA	CAAAATGTGGGCCA ATCC	GATCAAGTCCAGGTT GTGG	60.0	473	INTERGENIC	--	--	--
Ca4_P1_44544825	Ca4	44544825	CCTACT/CCTACTACT	CAAAATGTGGGCCA ATCC	TTGACAAAATTTAACG TCGCA	60.0	417	INTERGENIC	--	--	--
Ca4_P1_44548432	Ca4	44548432	T/TC	TTTGCCGTAGTTTCT CTCTGA	CTAGCTTGAGGGGA GTGTG	59.2	816	INTERGENIC	--	--	--
Ca4_P1_44551365	Ca4	44551365	CAAAAAAAAA/CAAAAAAAAA	CTTGAAAACCTTGGG TCAA	ACACCCCACAGCAGA ATAG	59.9	294	INTERGENIC	--	--	--
Ca4_P1_44551458	Ca4	44551458	GT/G	CTTGAAAACCTTGGG TCAA	GGACAGCCATTGGATC ATTC	59.9	332	INTERGENIC	--	--	--
Ca4_P1_44557407	Ca4	44557407	ACC/AC	CAACCATCATTATGGA CCCC	TTGATGGCCAAATCAT TGAA	59.9	717	DRR	Ca_09126	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_44559914	Ca4	44559914	TTATATATATAT/TTATATATATATAT	GCGGGGCATAAACTGATAG	CATTTTCATATCACCAATACACG	60.1	465	INTERGENIC	--	--	--
Ca4_P1_44560925	Ca4	44560925	ATTTTTTTT/ATTTTTTTTT	AACGTGATTTTGTAAACATGC	TTTTTGTGTTGATTCTTTGATTGGA	58.9	682	INTERGENIC	--	--	--
Ca4_P1_44563494	Ca4	44563494	CTTCTTTTT/CTTT	GGCAAATCACATGCTAGGCT	TCGTCCAATCTGTGGTTCA	60.2	513	INTERGENIC	--	--	--
Ca4_P1_44564443	Ca4	44564443	AGT/A	TTGTGGAAAACACAGTCCCAA	CGTCAACTTCATGTAACTTTTCG	59.5	763	INTERGENIC	--	--	--
Ca4_P1_44570993	Ca4	44570993	TAAAAAAA/TAAAAAA	TGTCATGCAGTTCCTCAAG	GGAATGGCTGCACCTATGGT	59.8	544	INTRON	Ca_09128	--	--
Ca4_P1_44581933	Ca4	44581933	GATATA/GATATATA	TGAGCAAGCACCTCATCATC	CTTTGGTGGGTGCAACATAA	60.0	473	INTRON	Ca_09130	--	--
Ca4_P1_4458327	Ca4	4458327	CAAAAAAAAA/CAAAAAAAAA	GGAGTGATCGGATGTGTG	AATAGTGGGGAGGGAACCAAG	60.0	709	DRR	Ca_03811	--	--
Ca4_P1_44591852	Ca4	44591852	TAAA/TAA	CTAGCCGAACCGAGAAATGATG	AGCAAGCCCATGTAATCAGC	60.0	515	INTRON	Ca_09131	T	B3
Ca4_P1_44606474	Ca4	44606474	ATTTTTTTT/ATTTTTTTT	CAACCGGTAACATAACAAAATGC	TCATGACCACTTGTTTGATGTG	59.8	223	INTERGENIC	--	--	--
Ca4_P1_44606783	Ca4	44606783	ATTTT/ATTTTT	TTTCTTTCTACATAGCAACCA	TGCGTGAGAAATGATTCTTGA	60.0	926	INTERGENIC	--	--	--
Ca4_P1_44607011	Ca4	44607011	ACTCT/ACT	GGGGAATGTAAGGGTAGTATCG	AATGCCAAACCTAAAGCGTG	58.8	579	INTERGENIC	--	--	--
Ca4_P1_44607654	Ca4	44607654	TC/T	CACGCTTTAGGTTTGGCATT	AACAAAAATTGTCCGGAGAC	60.1	750	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_44607935	Ca4	44607935	TGCAGC/TGCAGCAGC	GGACACGGAGACAGA CTTGG	AACAAATTGTGCCGG AGAC	60.7	689	INTERGENIC	--	--	--
Ca4_P1_44611506	Ca4	44611506	TAAA/TAA	TTTTTGCCCTATCAC CAAG	TCCAATGAAGACGACA ACGA	59.9	807	INTERGENIC	--	--	--
Ca4_P1_44611929	Ca4	44611929	CTTTTTTT/CTTTTTT	TCGTTGTCTCTTCAT TGGA	CAATCTCAATGTGTTT GGCG	60.2	338	INTERGENIC	--	--	--
Ca4_P1_44613140	Ca4	44613140	T/TA	CCATCGTTGAAACGTT GTGAT	TGCGAGTTTCTTTATC ATTTC	60.8	428	INTERGENIC	--	--	--
Ca4_P1_44613867	Ca4	44613867	AACT/AACTGACT	TGATCAAGAAGTCACG AGTTCAA	TTAATGTTTGGGGAAG GCAA	59.9	312	INTERGENIC	--	--	--
Ca4_P1_44616332	Ca4	44616332	CTT/CTTT	AGGGGATGGCTTTCTT GTTT	CGGAGTTAATGTGGG GTTGT	59.9	500	INTERGENIC	--	--	--
Ca4_P1_44631148	Ca4	44631148	GTCT/GT	CCCTATTGGGTGCGT CTTA	CCACTTGACACAAGACT TGGA	60.0	484	INTERGENIC	--	--	--
Ca4_P1_44632709	Ca4	44632709	CAAA/CAA	TCCTCCTCCTCCTC CTTC	TTGAAACTTTAACGGT GCCAT	59.9	418	INTERGENIC	--	--	--
Ca4_P1_44646219	Ca4	44646219	TA/TACA	ACTAGCCAACCATTC ATGC	ATTATGGCCAAAGGGT GGAT	60.0	634	INTRON	Ca_09136	O	--
Ca4_P1_44654366	Ca4	44654366	G/GGA	CCCGTACACACCATGT ATTCC	ATGGTGCTGGCTTGG TTAT	60.0	813	DRR	Ca_09137	R	NF-YA
Ca4_P1_44658102	Ca4	44658102	AG/A	GCATAGCCTGTCAATG CAAA	TGGCTATGTTCCAATC ATTCC	59.8	745	INTRON	Ca_09137	R	NF-YA
Ca4_P1_44660873	Ca4	44660873	ATTTT/ATTT	CGGGAAGAAGTGATT GTGT	CTCCTGGTTGCCATT TGTT	60.0	965	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_44661008	Ca4	44661008	TAAAAA/TAAAAA	AACTGTTGACCCA GACG	CTCCTTGGTTGCC ATT	58.6	564	INTERGENIC	--	--	--
Ca4_P1_44661152	Ca4	44661152	CAAAAA/CAAAA	AACTGTTGACCCA GACG	CTCCTTGGTTGCC ATT	58.6	564	INTERGENIC	--	--	--
Ca4_P1_44664978	Ca4	44664978	AGG/AG	CGAAGACAAAC TGAACG	TTGAGATTGGGT GAGAGG	59.4	482	INTERGENIC	--	--	--
Ca4_P1_44668585	Ca4	44668585	CA/CAA	CAAGGGTGGT GTGCTAGTT	TGGCACACCACT AGGAAA	60.0	396	INTERGENIC	--	--	--
Ca4_P1_44668816	Ca4	44668816	TTGGAGAAA/TTGGAGAAATGGAGAA	GTTCTCTATTGG CACACCT	TCAAGTTTCAA AATGCAACC	60.0	212	INTERGENIC	--	--	--
Ca4_P1_44669006	Ca4	44669006	T/TG	GTTCTCTATTGG CACACCT	TCCGTTGGACCA ATTAAACA	60.0	410	INTERGENIC	--	--	--
Ca4_P1_44676740	Ca4	44676740	T/TG	TAAGGGCCCCAT CATGACTA	GAACAACGGAG GAGGTGGTA	60.3	462	INTERGENIC	--	--	--
Ca4_P1_44678377	Ca4	44678377	TC/T	CATTTTCCCGAT CAGAGTCA	GCAGGAACATG TGGCTAGT	59.8	694	INTERGENIC	--	--	--
Ca4_P1_44679485	Ca4	44679485	TCATG/TCATGCATG	AATCCTCTATG GATGCGTG	TTGTGGGATTAA AGTCGAAAAA	59.9	707	INTERGENIC	--	--	--
Ca4_P1_44679620	Ca4	44679620	CTTT/CTT	AATCCTCTATG GATGCGTG	AAATGGAAAAA GCTCCAAAAA	59.9	868	INTERGENIC	--	--	--
Ca4_P1_44681210	Ca4	44681210	ATTTTT/ATTTTT	TTTGCAATTCAC CACACTC	CGGCACATTAC CCAAAAGTT	59.5	827	INTERGENIC	--	--	--
Ca4_P1_44681450	Ca4	44681450	TA/T	CCGTCTGTACCC CTTATCCA	CGGCACATTAC CCAAAAGTT	59.8	329	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_44682880	Ca4	44682880	TCAAAAACAAAA/TCAAAAACAAAA AAAA	CGATTGATTTTACAC CATAAA	CCACGCTCAACTCAAC CATA	58.1	314	INTERGENIC	--	--	--
Ca4_P1_44691108	Ca4	44691108	TTAATAATAATAATAAT/TTAATAA TAATAATAAT	CGAAATGGAGCAATG AGGT	TGGTTGAAAAATAAA TGGAGG	60.1	539	INTERGENIC	--	--	--
Ca4_P1_44691557	Ca4	44691557	ATAA/ATAAGTAATAGATTAGTAA	CCTCCATTATTTTCA ACCCA	CCAAGTCGTTATGGAA AGCC	60.0	625	INTERGENIC	--	--	--
Ca4_P1_44693073	Ca4	44693073	C/CA	TCATGCCGTCCAACT AACA	GCTGTACCTGGATT GGAT	60.1	665	INTERGENIC	--	--	--
Ca4_P1_44693618	Ca4	44693618	TTCT/TT	AGCTGTCTGCCCTTGA AAAA	TCATCAATGCAAGCTC GTTC	60.0	602	INTERGENIC	--	--	--
Ca4_P1_44694688	Ca4	44694688	TAGA/TAGAGA	GATTCGATCATCTGGG GAAA	AGGCTTCTGGTGCTGT TCTT	59.8	539	INTERGENIC	--	--	--
Ca4_P1_44694709	Ca4	44694709	TAGAGAG/TAGAG	GATTCGATCATCTGGG GAAA	AGGCTTCTGGTGCTGT TCTT	59.8	539	INTERGENIC	--	--	--
Ca4_P1_44695789	Ca4	44695789	CTTT/CTTTT	TGCCACTGCAACATAG ACTTG	TTTCTCGTGCGAATG GTGA	59.9	806	INTERGENIC	--	--	--
Ca4_P1_44697449	Ca4	44697449	AA/AATTA	TGCATGTGCCAATATT TGTG	GGGAAGAAGATGGCA TGAAA	59.0	759	INTERGENIC	--	--	--
Ca4_P1_44697528	Ca4	44697528	A/AG	TGCATGTGCCAATATT TGTG	GGGAAGAAGATGGCA TGAAA	59.0	759	INTERGENIC	--	--	--
Ca4_P1_44705100	Ca4	44705100	ATTT/ATT	ACCCAATTCTGATTGC GAAG	AAGCAAAATGGTTGAA ACGG	60.1	293	INTRON	Ca_09141	O	--
Ca4_P1_44706655	Ca4	44706655	GAAA/GAA	AATAAACAAAGCACGC CTGG	GGTACTAGAGTTGCG GTGGC	60.1	576	INTRON	Ca_09141	O	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_44708183	Ca4	44708183	G/GAAA	AGTCCAGTGGGCTGAA ACAG	CAAGTTCAATGCACCG TTTTT	60.3	759	INTERGENIC	--	--	--
Ca4_P1_44709306	Ca4	44709306	GTTT/GTT	CCCATATCGCTTGGTG ATTG	AGCATTCCACACCAAC AACA	60.3	593	INTERGENIC	--	--	--
Ca4_P1_44709355	Ca4	44709355	ACTTTCAT/A	CCCATATCGCTTGGTG ATTG	AGCATTCCACACCAAC AACA	60.3	593	INTERGENIC	--	--	--
Ca4_P1_44709617	Ca4	44709617	TTTATAATTATTTTT/TTTATAATTATTT TTGTTATAATTATTTTT	TGTTGTTGGTGTGGAA TGCT	TTGACGGTTCAAATGC AAAA	60.0	482	INTERGENIC	--	--	--
Ca4_P1_44709850	Ca4	44709850	TTATAT/TTAT	TGTTGTTGGTGTGGAA TGCT	TTGACGGTTCAAATGC AAAA	60.0	482	INTERGENIC	--	--	--
Ca4_P1_44710249	Ca4	44710249	AAAGATAAGATAA/AAAGATAA	AGGAAGTGTGCGGTT AAGA	TTTTTGTGAATGGTG GAAAT	59.9	517	INTERGENIC	--	--	--
Ca4_P1_44710491	Ca4	44710491	GTA/GTATCATTTTTA	AGGAGTGGATGAGCCA AAAA	GGTGCTAAGTTCAAAC ACACAAA	59.7	822	INTERGENIC	--	--	--
Ca4_P1_4471743	Ca4	4471743	TAAGAAAAATACAAG/TAAGAAAAATA CAAGAAAAATACAAG	ACATTTGATCACGGTC CTCC	AGGCATTGATTCTTCG TTCG	59.8	615	INTRON	Ca_03810	GOT	--
Ca4_P1_44718057	Ca4	44718057	ATTTTTTT/ATTTTTTTTTT	TCCTTTTTGTGCTCCA CTTG	TTGACGCGATCTTTGA TTTG	58.9	221	INTERGENIC	--	--	--
Ca4_P1_44718587	Ca4	44718587	GAAA/GAA	CAAAGATCGCGTCAAT GAGA	ATCTTCCTTCCCAAAG CCAT	59.9	969	INTERGENIC	--	--	--
Ca4_P1_44725573	Ca4	44725573	AC/A	GGCTCAATTGGTCCAA CCTA	ATTGGTTGTGATGCCA TGAA	59.9	803	INTERGENIC	--	--	--
Ca4_P1_44726544	Ca4	44726544	TCACAACCTGGCCACAA/TCACAA	TGGGACCGTGAGAGA GGATA	ATTCCACACGCCACAC TATT	60.6	906	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_44727621	Ca4	44727621	TA/TATTTTAATTTTCCA	TCCTTTTAATGGGTGA TCAGTAA	AAATGGACTGGCAAAA TGAG	57.7	560	INTERGENIC	--	--	--
Ca4_P1_44727882	Ca4	44727882	AATTTT/AATTTTAAAAATTTT	CTCATTTTGCCAGTCC ATTT	TTGATCTCGTGGTGAA TACTCG	57.7	379	INTERGENIC	--	--	--
Ca4_P1_44728152	Ca4	44728152	AAACAAA/AAAA	CTCATTTTGCCAGTCC ATTT	AACCGCTAATTTTCT GAGCA	57.7	793	INTERGENIC	--	--	--
Ca4_P1_44729278	Ca4	44729278	ATTTTT/ATTTTTT	GCAAGCTTGGCTCCAT TAGA	TGGCCCTTGTCCCTA CATA	60.5	229	INTERGENIC	--	--	--
Ca4_P1_44735924	Ca4	44735924	CATAATAATAATAATAATAAT/ CATAATAATAATAATAATAAT	AACTGGATACGCCACT TTGG	GGTTGGGAAAGAAA CAACA	60.0	278	DRR	Ca_09142	C	bHLH
Ca4_P1_44737262	Ca4	44737262	CTTT/CTT	CGGTTGCTTTGATGAT GTTG	CCAAACCCAAGTGTT TTCTA	60.1	803	INTERGENIC	--	--	--
Ca4_P1_44738537	Ca4	44738537	ATTTTTTTTT/ATTTTTTT	TCATGCACCAACGTGC TTAT	AAGAAATCCATGCAG GTGG	60.1	666	INTERGENIC	--	--	--
Ca4_P1_44738678	Ca4	44738678	AATA/AATATA	TCATGCACCAACGTGC TTAT	TCATGCATGTTGGAA AAGA	60.1	906	INTERGENIC	--	--	--
Ca4_P1_44738779	Ca4	44738779	TT/TTAT	GGTTGCCTCTTTACA TGGG	TCATGCATGTTGGAA AAGA	59.4	649	INTERGENIC	--	--	--
Ca4_P1_44739562	Ca4	44739562	TAAAAAA/TAAAAAA	ACTCCTTTCCTTCCCA CGAT	TCAAGGTCGTTTGTG CTGT	59.9	490	INTERGENIC	--	--	--
Ca4_P1_44739765	Ca4	44739765	ATTT/ATTTT	ACTCCTTTCCTTCCCA CGAT	TCAAGGTCGTTTGTG CTGT	59.9	490	INTERGENIC	--	--	--
Ca4_P1_44741209	Ca4	44741209	GTTTTTTTTT/GTTTTTTTT	TGGCCTCAATGAAAC TTCC	CTCGGGGACATCCTCA TCTA	60.1	326	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_44742903	Ca4	44742903	TCCC/TCCCC	TTTCGCATCCCAAAAT GAAT	TTTCCCTCTCGAGAAG CTGT	60.3	136	INTERGENIC	--	--	--
Ca4_P1_44744666	Ca4	44744666	GTTTTTTT/GTTTTTTTTT	TTATTACACGCGTCAC GCTC	GAAGCCTTAATTGAAC CACAATG	59.9	749	INTERGENIC	--	--	--
Ca4_P1_44747786	Ca4	44747786	TAAAAA/TAAAA	TGGACTTGTGAAGCAA GCCT	TCCCCACTCCACAAAC CTAC	61.0	375	INTERGENIC	--	--	--
Ca4_P1_44747851	Ca4	44747851	ATTTTTTT/ATTTTTTTTT	TGGACTTGTGAAGCAA GCCT	CTTCCCCGTGTGCTT ACAT	61.0	580	INTERGENIC	--	--	--
Ca4_P1_44748451	Ca4	44748451	TAAAA/TAA	ATGTAAGCACACGGGG AAAG	TCAGTCATTATCAAC TCCCA	60.0	619	INTERGENIC	--	--	--
Ca4_P1_44748665	Ca4	44748665	AAATTA/AA	ATGTAAGCACACGGGG AAAG	TGTTGTGAACACCATT TTTGC	60.0	854	INTERGENIC	--	--	--
Ca4_P1_44770144	Ca4	44770144	GTAATCTATT/GT	CACATTCCTGACTTGT CTCA	CATTGGAACAGAAGCA AGCA	59.7	199	INTERGENIC	--	--	--
Ca4_P1_44772447	Ca4	44772447	AT/A	ACACCGCACGTAATGC TATG	CGAAATGTGTTTTGCT TTCG	59.6	149	INTERGENIC	--	--	--
Ca4_P1_44772492	Ca4	44772492	GTTTTTTTTTTTTTTTTTTT/GTTTTTTTTT TT	ACACCGCACGTAATGC TATG	CGAAATGTGTTTTGCT TTCG	59.6	149	INTERGENIC	--	--	--
Ca4_P1_44773439	Ca4	44773439	ATTTTT/ATTTTTTTTT	TTGTTTCACTTTTCCA TTCCA	TAGGGTTCTTGATCCA TCGC	59.5	596	INTERGENIC	--	--	--
Ca4_P1_44773874	Ca4	44773874	G/GA	GCGATGGATCAAGAAC CCTA	GGATTTTGGCAACAGA TGCT	60.0	737	INTERGENIC	--	--	--
Ca4_P1_44775723	Ca4	44775723	CAAAA/CAAA	TGAAATTGGATGGATT GTGTG	ACTTGTGAGATGGAGT GGGG	59.2	476	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca4_P1_44775773	Ca4	44775773	CATA/CA	AGAGGGTTGTGGTCTT GTGG	ATTACTGCAGGCCAC CATC	60.0	219	INTERGENIC	--	--	--
Ca4_P1_44776173	Ca4	44776173	GA/G	AGAGGGTTGTGGTCTT GTGG	GAGGGGGATAAAAGT GAGGC	60.0	857	INTERGENIC	--	--	--
Ca4_P1_44780726	Ca4	44780726	TAAA/TAAA	CAATTCACGTGAGAG CCTT	TCATTGCACCACATC AACA	60.3	303	INTERGENIC	--	--	--
Ca4_P1_44781972	Ca4	44781972	CTT/CTTT	AGCAGAAATGGTGGA GATT	AATCCAAATGCCATAG CTGC	59.7	538	INTERGENIC	--	--	--
Ca4_P1_44784898	Ca4	44784898	A/AGTTGTC	GCAAGCACTTGCTGTG TTGT	GCCAGTCAGCTTGTT CCAT	60.1	307	INTRON	Ca_09144	--	S1Fa-like
Ca4_P1_44785874	Ca4	44785874	GATGCACATATACGCATGCACAT/GAT GCACATATACGCATGCACATATACGC ATGCACAT	TAACAACAACCTTGAG GGGC	GTTCCAAGTCACCAAG GGAA	60.0	640	INTRON	Ca_09144	--	S1Fa-like
Ca4_P1_4478589	Ca4	4478589	TAAGTTAAAGTTAAAGTTAAAGTT AAAA/TAAGTTAAAGTTAAAGTTAAA A	TGTAGACGCGCAGAGA GAGA	AATCATTGCCTGGTG CTTT	60.0	593	INTERGENIC	--	--	--
Ca4_P1_44786400	Ca4	44786400	GTTTT/GTTTTT	TTCCCTTGGTGACTTG GAAC	AAGCGGCTTACAATGA TGCT	59.9	364	INTRON	Ca_09144	--	S1Fa-like
Ca4_P1_44790743	Ca4	44790743	CCTATC/CCTATCTATC	GCCACAACCATCAACT TCAA	TTGGAGGGATCCAAGA GCTA	59.5	903	DRR	Ca_09144	--	S1Fa-like
Ca4_P1_44794120	Ca4	44794120	TAAAA/TAAAA	TGTGATGATTTTGTGG AGGG	ATTTCGCGCCGATTTA ATTT	59.3	624	INTRON	Ca_09145	--	--
Ca4_P1_44795219	Ca4	44795219	TAA/TA	CTTTGCAGCCAAACT TTCC	GCAAAATCTTTTGATT TTCCCT	59.9	394	INTRON	Ca_09145	--	--
Ca4_P1_44799502	Ca4	44799502	AATATAT/AATATATAT	CAACTTCATCTATTGTC ACGCC	TTTCGCTGTTTCAGTG TTCG	59.6	730	INTRON	Ca_09145	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_44799524	Ca4	44799524	GAAA/GAA	CAACTTCATCTATTGTC ACGCC	TTTCGCTGTTTCAGTG TTCG	59.6	730	INTRON	Ca_09145	--	--
Ca4_P1_4480054	Ca4	4480054	TT/TTATTTGAAT	TCCTCCATTTTCCAC GCTA	TTTCATCCTCCATGTG ACCA	60.6	409	INTERGENIC	--	--	--
Ca4_P1_4480380	Ca4	4480380	TC/TCC	TGGTCACATGGAGGAT GAAA	TTTAATACCTCGTATTT CCTATCAAGA	59.9	609	DRR	Ca_03809	--	S1Fa-like
Ca4_P1_4481135	Ca4	4481135	TAA/TAAA	TGAAATCAAATTTTCTC AAGGC	AAACGACATTACGTTA TTTCTTCATT	58.4	120	DRR	Ca_03809	--	S1Fa-like
Ca4_P1_4481516	Ca4	4481516	T/TTC	TGAAATCAAATTTTCTC AAGGC	GTTCCGCCTCTTCTAC CTCC	58.4	760	DRR	Ca_03809	--	S1Fa-like
Ca4_P1_4481679	Ca4	4481679	TAAAAAAAA/TAAAAAAAAA	TTTTGCTTTTGATTACT TTCITTTT	GTTCCGCCTCTTCTAC CTCC	57.2	314	DRR	Ca_03809	--	S1Fa-like
Ca4_P1_4482067	Ca4	4482067	GAAAAA/GAAAAA	GGAGGTAGAAGAGGC GGAAC	TCCAATCGTTGGATCA AGGT	60.2	744	DRR	Ca_03809	--	S1Fa-like
Ca4_P1_44831090	Ca4	44831090	TA/TAA	AAGACGCCAAAGTTCG AAGA	TTGGATTTTGTGGAGC ATGA	60.0	754	DRR	Ca_09147	Z	NAC
Ca4_P1_44831235	Ca4	44831235	GAAAA/GAA	TTTGACCTTCAGCAGT GTGG	TTGGATTTTGTGGAGC ATGA	59.9	463	DRR	Ca_09148	K	--
Ca4_P1_44831252	Ca4	44831252	AT/ATAAGTTT	TTTGACCTTCAGCAGT GTGG	TTGGATTTTGTGGAGC ATGA	59.9	463	DRR	Ca_09148	K	--
Ca4_P1_44833120	Ca4	44833120	CACAACAA/CACAA	CCCTGAGTTTGGCTGA GAAG	TGGCATTTTGTGGGG TATT	60.0	615	INTRON	Ca_09148	K	--
Ca4_P1_44833892	Ca4	44833892	TAAGAA/TAAGAAGAA	CGAATAAAACCGAAGT GCGT	TCGTTGGAACAACCAC TGAA	60.1	474	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_44834067	Ca4	44834067	CTTTTTTTTTTT/CTTTTTTTTTT	CGAATAAACCGAAGT GCGT	TCGTTGGAACAACCAC TGAA	60.1	474	INTERGENIC	--	--	--
Ca4_P1_44837147	Ca4	44837147	G/GAGAT	CGGGGAGGCAAGAAA ATAAC	TGCAATTTTACGTCCA AATCAT	60.8	815	INTERGENIC	--	--	--
Ca4_P1_44838015	Ca4	44838015	CTT/CTTT	GTCATTTGACGCATGG TTTG	TTTCGTTGATAATTTT GGCA	60.0	499	INTERGENIC	--	--	--
Ca4_P1_44838837	Ca4	44838837	TC/T	TGAAGGAATGCTTCTT TGTTTG	GATGATTGCAACCAAC ATGG	59.4	304	INTERGENIC	--	--	--
Ca4_P1_44843289	Ca4	44843289	CTT/CT	CAATGGAATGTGGTGT GGAA	GAACATGGATCGCACA CTTT	60.2	254	INTERGENIC	--	--	--
Ca4_P1_44843677	Ca4	44843677	TAAAAA/TAAAA	CAATGGAATGTGGTGT GGAA	TTGGGCTAGGTTGGAT CTTG	60.2	634	INTERGENIC	--	--	--
Ca4_P1_44845646	Ca4	44845646	TCAAAACAAAC/TCAAAC	AGTCCACACAAGCCTT CACC	GGAGCTTTTTTCGTATG TGCC	60.2	797	INTERGENIC	--	--	--
Ca4_P1_44846286	Ca4	44846286	TTT/TTTCTT	CATGCAACAAGGGCAC ATAC	TGTGCATTCGTGAAGG TTTT	60.0	281	DRR	Ca_09149	--	--
Ca4_P1_44847649	Ca4	44847649	ATTT/ATTTT	TCCAGCTCAACACATG GAAA	ATGTTTTCAACTTGCA GGGG	60.2	510	DRR	Ca_09149	--	--
Ca4_P1_44854537	Ca4	44854537	ATTTTTTT/ATTTTTT	CCAACTTTTTCATACAC AAACACA	TGTTGCACTCGAACAA ACTCA	59.0	567	INTERGENIC	--	--	--
Ca4_P1_44864785	Ca4	44864785	AAA/AAAGAA	GGGACCACATCAATTG TCTCA	TCTCATTTTCACACAAT GGTCA	60.8	542	INTERGENIC	--	--	--
Ca4_P1_44864908	Ca4	44864908	AATATATATATAT/AATATATATATAT T	GGGACCACATCAATTG TCTCA	TCTCATTTTCACACAAT GGTCA	60.8	542	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_44865492	Ca4	44865492	TA/TAGA	TGACCATTGTGTGAA ATGAGA	TGGTCGTAAAGTCAT TGGA	59.0	685	INTERGENIC	--	--	--
Ca4_P1_44866420	Ca4	44866420	ATTTTTTT/ATTTTTTTTT	CGAGAATCTATACACG GGAAGG	GGAACCCCAAGATTT GGAT	60.0	840	INTERGENIC	--	--	--
Ca4_P1_44869625	Ca4	44869625	GTT/GTTGTACCTTT	TGTTATCTGCAGTGTC CCCA	GCGGTTCTCAACTTCT TTGC	60.1	580	INTRON	Ca_09151	R	--
Ca4_P1_44871777	Ca4	44871777	TTCACCACAAATAT/TT	TATTGGCGATTGTTT GTGA	TTGCCAACCTTTGAAC AGTG	59.9	627	DRR	Ca_09151	R	--
Ca4_P1_44872820	Ca4	44872820	T/TA	TTGAGGCTTGAAATCC TTTGA	TGTATTGCTCGTTGAG GGTG	59.8	174	DRR	Ca_09151	R	--
Ca4_P1_4487412	Ca4	4487412	AT/ATTAATAAAGT	TCAGACTCTCCGAAC GATT	CGTACGACGCTTTTCG TCAA	59.8	281	DRR	Ca_03808	--	--
Ca4_P1_44875930	Ca4	44875930	ATAACATT/AT	CAACAGCACCAACCAC AATC	TTGTTGAAAGAAGAA TGCAAA	60.0	365	INTERGENIC	--	--	--
Ca4_P1_44878187	Ca4	44878187	TG/TGG	CAATCGTGCAACAAT TTGG	ATGAAGCGATTGGTTG GAAG	60.0	738	INTERGENIC	--	--	--
Ca4_P1_44880910	Ca4	44880910	GTT/GTTT	TAAAGTCATGCCATC ACCA	TGTCCAAGCATGGGA GAAGT	59.9	647	INTERGENIC	--	--	--
Ca4_P1_44880954	Ca4	44880954	TTATATAT/TTATAT	TAAAGTCATGCCATC ACCA	TTGGCACTACAGCCAT CTTG	59.9	745	INTERGENIC	--	--	--
Ca4_P1_44884987	Ca4	44884987	CAAAAAAAAA/CAAAAAAAAA	GCCTCCGTCAACATTT CATT	TGTGTTCTCCGTTGCC ATAA	59.9	493	INTERGENIC	--	--	--
Ca4_P1_4488536	Ca4	4488536	TAAA/T	ACAGCACATTTCTGGT GGTG	TCTGCTAAACAGGGGA TTGG	59.6	450	DRR	Ca_03808	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_44886483	Ca4	44886483	TTCT/TT	TAATGGAGGGCAATT CGAG	AAACACCCAACCCCA TAAT	60.0	349	INTERGENIC	--	--	--
Ca4_P1_44889516	Ca4	44889516	ATT/ATTGTGTT	AAACCGATATGTGTTG CCCT	TTCAAAATAGCCCTTC CAAAAA	59.3	711	INTERGENIC	--	--	--
Ca4_P1_4489645	Ca4	4489645	CA/C	TCACGGCACAACTCC AATA	ATGCAAAATGCCTTGG TTTC	60.1	443	INTRON	Ca_03808	--	--
Ca4_P1_44897706	Ca4	44897706	ATTTTTTTT/ATTTTTTTTTTT	ATTTGTTGAGGATGG GTCA	CACCTCTTGTTCACGGC AAAA	60.2	623	INTERGENIC	--	--	--
Ca4_P1_44900157	Ca4	44900157	TAAAAAAA/TAAAAAAA	CCCCATTGACCAAGA TTTA	AGAAAGTGGGAATGTG GGGT	59.8	526	INTERGENIC	--	--	--
Ca4_P1_44902733	Ca4	44902733	AAGAGAGAGAGAGAGAG/AAGAGAGA GAGAGAGAGAGAG	TGTGAAGCAACAAGGA ACAGA	TCGATTCCCACATGAC ACTG	59.5	133	DRR	Ca_09152	--	C2H2
Ca4_P1_44904775	Ca4	44904775	AT/A	AGTATGGTGGCAGTCC CTTG	GACCAGTAAATGCCTT CCCA	60.0	767	INTRON	Ca_09153	--	--
Ca4_P1_44905028	Ca4	44905028	C/CT	TACAGTGTGTGGTGC CGTT	GACCAGTAAATGCCTT CCCA	60.1	516	INTRON	Ca_09153	--	--
Ca4_P1_44905137	Ca4	44905137	ATTT/ATT	TACAGTGTGTGGTGC CGTT	GACCAGTAAATGCCTT CCCA	60.1	516	INTRON	Ca_09153	--	--
Ca4_P1_44907347	Ca4	44907347	TTAAA/T	TGTGCGAGTCTTCTG TTGG	CCGCTTGAATGACAGC ACTA	60.0	356	INTRON	Ca_09153	--	--
Ca4_P1_44907961	Ca4	44907961	ATTTTTTTTT/ATTTTTTTTTTT	TAGTGCTGTCATTCAA GCGG	AAAGGGCCATCTTCTG TTCA	60.0	833	DRR	Ca_09154	--	--
Ca4_P1_44909734	Ca4	44909734	TGA/T	AGCTCTCATGAGGGGC TACA	TCAATTTGAAGTGTGCG GTGC	60.0	310	INTRON	Ca_09154	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_44913191	Ca4	44913191	ATTTTTTTTT/ATTTTTTTTT	TGGTTGTATATGCAAT ACTCCATTG	TTACATTCGACATA AACAAAA	60.0	382	INTERGENIC	--	--	--
Ca4_P1_44917486	Ca4	44917486	AATATATATATA/AATATATATATATA	TTCCACCTTCAATGCA ACAA	TTTGGAATTGGTCCAA GAGC	60.1	899	DRR	Ca_09155	Q	--
Ca4_P1_44926400	Ca4	44926400	AG/A	AAAACGTTCTGCAACC AACC	TTGCTCTACGTATCT CCCG	60.0	683	INTERGENIC	--	--	--
Ca4_P1_44932345	Ca4	44932345	AATA/AA	AATTTATGGGCCCAAT CCTC	GCTGAAATCAAGAGAA CGCC	60.0	616	INTERGENIC	--	--	--
Ca4_P1_44933428	Ca4	44933428	A/AG	TAACCATTTTGCACGG GTTT	AAAGTCTCAAAAGAGC CGCA	60.2	559	INTERGENIC	--	--	--
Ca4_P1_44933532	Ca4	44933532	GA/GAGAAAA	TGCGGCTCTTTTGAGA CTTT	CATGTTTCAACGATTT GAATGAA	60.1	354	INTERGENIC	--	--	--
Ca4_P1_44935712	Ca4	44935712	TAATGTTAAC/T	ATCCTCAACGAAACCA CGTC	CTTTGATGGGGCAAG GTAA	60.0	266	INTERGENIC	--	--	--
Ca4_P1_44937033	Ca4	44937033	TAAAAA/TAAAAA	TATCTCGCTCTTTCCTC CCA	GCTGTTTGATGGCTAT GGGT	59.9	888	INTERGENIC	--	--	--
Ca4_P1_44938239	Ca4	44938239	GTTTTT/GTTTT	TTTGGTTACGTCACGG TTCA	GCAAAATATTGCATG GCTTGA	60.0	485	INTERGENIC	--	--	--
Ca4_P1_44939636	Ca4	44939636	TTA/TTATA	CTCGCTGAAATTGCCA AAGT	TTTTCCTAAAAATAACA ACTCCCTG	60.4	460	INTERGENIC	--	--	--
Ca4_P1_44939813	Ca4	44939813	ATTTTT/ATTT	CTCGCTGAAATTGCCA AAGT	TGATAAAATGCTTTTG CACCAA	60.4	644	INTERGENIC	--	--	--
Ca4_P1_44944900	Ca4	44944900	TAAAA/TAAA	GGGAAACAAATTCGTG GAAA	ACATGCCAAATGCAAT GTGT	59.8	388	DRR	Ca_09157	G	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_44946195	Ca4	44946195	AC/A	CTGCTCTGGTCACTGC ACAT	CAATCCAAGGCAAGT TTGG	60.1	512	INTRON	Ca_09157	G	--
Ca4_P1_44946207	Ca4	44946207	TG/T	CTGCTCTGGTCACTGC ACAT	CAATCCAAGGCAAGT TTGG	60.1	512	INTRON	Ca_09157	G	--
Ca4_P1_44953374	Ca4	44953374	TACACACACA/TACACA	TCCCTCCATCACCAAA ACTC	ATGTGCAGTGACCAGA GCAG	59.9	349	INTRON	Ca_09159	G	--
Ca4_P1_44965984	Ca4	44965984	TTCAACTT/TTCAACTTAATTTCTCAAC TT	ATCTTTCCCTCCACA CACA	TGGTCGATTGCGCATA TAAA	60.4	601	INTERGENIC	--	--	--
Ca4_P1_44967276	Ca4	44967276	AAAA/AAAATAAA	GGAAGCACGGTGAGA AGAAG	TCACATTGCAATCACA CAACA	60.0	412	INTRON	Ca_09160	R	C2H2
Ca4_P1_44968120	Ca4	44968120	ATTCTTCT/ATATTATTACTTCTTCTTC TTCT	ATTCTCCCAATCCACC ATCA	GCATGTTTAAGTGGGG CCTA	60.1	184	CDS (large-effect mutations)	Ca_09160	R	C2H2
Ca4_P1_44970459	Ca4	44970459	CAAA/CA	CATTGCACGAGCACAA CTG	TGGAACGTAATTCCTC CATT	60.0	661	DRR	Ca_09160	R	C2H2
Ca4_P1_44982193	Ca4	44982193	AC/A	CAGGGGGTAATGTGGT TCTG	TCAGGGATTGATAAGC AGGC	60.2	648	INTRON	Ca_09161	I	--
Ca4_P1_4498233	Ca4	4498233	ACC/AC	CAAAGACCAACAAGC CCAT	AACACCAACCAACTCC TTGC	60.0	202	INTRON	Ca_03808	--	--
Ca4_P1_44987442	Ca4	44987442	TG/T	TCATGAAAACGTTTGG TTAATTG	AAAAGGGATACTGAAT TTCATCCA	58.9	373	INTERGENIC	--	--	--
Ca4_P1_44987779	Ca4	44987779	GA/GAATA	ACTTTGGAACAAAAGG AGGAA	TGGTCAAGATGTGTTG ACTTTG	57.8	570	INTERGENIC	--	--	--
Ca4_P1_44988091	Ca4	44988091	T/TTG	TGGATGAAATTCACTA TCCCTTTT	TGGGGACAGGTCAAT CAAGT	60.1	856	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_44988644	Ca4	44988644	ACACACCACACCACACAC/ACAC ACCACACCACACCACACCACACA C	CTTGATTGACCTGTCC CCAC	TAGGAAGTTTTTGCA ACGG	60.4	191	INTERGENIC	--	--	--
Ca4_P1_44994623	Ca4	44994623	TA/TACA	TGCATGCGAGGTATTC AAGA	ATTTGGCAACGAAGTT TTGG	60.4	827	DRR	Ca_09163	--	--
Ca4_P1_44994863	Ca4	44994863	TTATA/TTA	TTCCATCCCTTTTGTA ACC	ATTTGGCAACGAAGTT TTGG	59.8	413	INTRON	Ca_09163	--	--
Ca4_P1_44995144	Ca4	44995144	CAAAA/CAAAAA	CCAAAACCTCGTTGCC AAAT	AGGAACTCTACCGCA CGAA	60.0	528	INTRON	Ca_09163	--	--
Ca4_P1_44997151	Ca4	44997151	TAAA/TAAAA	AAATGCTAACCGGCAA AGTG	TTCTCTCCAAAATTC CACG	60.1	505	INTRON	Ca_09163	--	--
Ca4_P1_44997568	Ca4	44997568	TCTCCAACTCCAAC/TCTCCA ACTCCAACCTCCAAC	CGTGGAATTTGGGAG AGAA	AACAGGCGAGTTGAG AATTGA	60.0	189	CDS (large-effect mutations)	Ca_09163	--	--
Ca4_P1_44999560	Ca4	44999560	GTCTCTC/GTCTC	TTCATTTTCCACCCCT ACA	TCCCTACTCAAAGGGG TCAA	60.2	630	INTERGENIC	--	--	--
Ca4_P1_44999909	Ca4	44999909	CTGATT/CT	TGGCTAACAGCCACTT GATG	TTGGTTGTTTCATCCAC CTCA	59.9	709	INTERGENIC	--	--	--
Ca4_P1_45000855	Ca4	45000855	T/TCTCTCGAG	TGGTGAACTTTATGCT ACACCG	TTACAGTTTTCAACGC ATTTC	60.1	318	INTERGENIC	--	--	--
Ca4_P1_45002591	Ca4	45002591	TAAAAAAAA/TAAAAAAAAA	TGTGACCGATAGCGAT CTTG	AAGTTCACGCTGTGT CCTGAA	59.8	944	INTERGENIC	--	--	--
Ca4_P1_4500375	Ca4	4500375	A/AT	CTCGAGTGCACGTGCT TCAT	CGGCCAAGTCTTCATA TCGT	60.1	783	DRR	Ca_03807	--	FAR1
Ca4_P1_45005102	Ca4	45005102	A/AAT	CTCCGTTCAGCCTCT TGTC	GAAAGTGTCGAGCAAC ACGA	60.0	225	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_45006893	Ca4	45006893	ATCTCTCTCTCTCTCTCTCTCTCT/ATCTCTCTCTCTCTCTCTCTCTCTCT	GGTCGGACAACATCCTCAGT	CCCCAACTTTTCATGCATTT	60.0	604	DRR	Ca_09164	--	--
Ca4_P1_45007088	Ca4	45007088	ACC/AC	GGTCGGACAACATCCTCAGT	GAGTTGAACGCAGGTTGTCA	60.0	707	DRR	Ca_09164	--	--
Ca4_P1_45010579	Ca4	45010579	GAA/GAAA	AGTATCGAGGAACACGTGGG	TCAATGCCCATTCCTTCTCT	60.0	204	INTERGENIC	--	--	--
Ca4_P1_45011972	Ca4	45011972	CTTCAAC/CTTCAACATCATTTTCAAC	CATGCTCAATTGGACAACGA	AAGACACCCATTGTAGGCG	60.7	465	INTERGENIC	--	--	--
Ca4_P1_4501734	Ca4	4501734	TGAGAGAGA/TGAGA	TTCACCAATGTTTTCCGACA	ACGAAGGTGCGAAGGCTTTTT	59.9	226	DRR	Ca_03807	--	FAR1
Ca4_P1_4502063	Ca4	4502063	C/CG	GCTGGATCCGTCGTACAAT	CCATCTGAGAAAGCTAGCCG	60.0	441	DRR	Ca_03807	--	FAR1
Ca4_P1_45030756	Ca4	45030756	CATTAATT/CATT	TGTTGACCAGCTTGGAAGA	CCACCGTATGAAAGTTGGGT	59.5	331	INTERGENIC	--	--	--
Ca4_P1_4503851	Ca4	4503851	TAAAAAAAA/TAAAAAAAA	TTCTCCCTCCGCTCTCACATC	TGGAGGCAATGATTTTGTCA	60.2	421	INTRON	Ca_03807	--	FAR1
Ca4_P1_45043891	Ca4	45043891	TGAAGA/TGAAGAAGA	TGCCACATGTGACTCCCTAA	CAGTGAGCAATGGCTTTTCA	60.1	470	INTERGENIC	--	--	--
Ca4_P1_45048444	Ca4	45048444	TAAAAAAAA/TAAAAAAAA	TATTTAATGCGCGTCTGCAC	TTGAGTGAATCTAAGGCGG	59.9	362	INTERGENIC	--	--	--
Ca4_P1_45057061	Ca4	45057061	GAAAAA/GAAAAAA	TTCCCATCTGTCTGGAAGAA	GAGCTGCGCTATCAAAATGCC	58.2	486	INTERGENIC	--	--	--
Ca4_P1_4505728	Ca4	4505728	ATAAAATTTAAATT/ATAAAATTTAAATTTAAATT	TCTTTTACACGCCATTCATTTTT	TCATGTTGAAGGCTCTGTCTG	59.9	685	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_45057895	Ca4	45057895	CATGGA/CATGGATGGA	GGATTGCGTATCAGTC GTCA	CGCGAAATGCAAACAA ACTA	59.7	344	INTERGENIC	--	--	--
Ca4_P1_45062190	Ca4	45062190	GAA/GAATAATAA	AAGGGACGTGGTGT GAAG	ACCCCGTTGGTAAAA CTCC	60.0	588	INTERGENIC	--	--	--
Ca4_P1_45063988	Ca4	45063988	CTT/CTTT	TTTTGAGCAATGGAGC AGTG	TTGGGAGGTGAAGT GGTTC	60.0	940	INTERGENIC	--	--	--
Ca4_P1_45064783	Ca4	45064783	TAAA/TAA	GAACCAACTTCACCTC CCAA	ATCGAGTTGAGTCGTG GTCC	59.9	737	INTERGENIC	--	--	--
Ca4_P1_45065586	Ca4	45065586	TAAAA/TAAAAA	CGACTCAACTCGATCG TCAA	AAAACCTTAATCACCC GTGC	60.0	500	INTERGENIC	--	--	--
Ca4_P1_45066102	Ca4	45066102	C/CAAAACT	CCTCGAAGATCAAAGG GACA	CCCTAATGAGTGGAGC CAAA	60.2	353	INTERGENIC	--	--	--
Ca4_P1_45066949	Ca4	45066949	GATATATA/GATATATATA	GGAGGGACCATGTTTT TGTG	ATCCATGGTACAGGG GTGTC	60.2	867	INTERGENIC	--	--	--
Ca4_P1_45068051	Ca4	45068051	CAA/CAAA	CGTGGACTTCCC ACAT	ACAATTTACTCCCTCC GCCT	60.0	584	DRR	Ca_09168	T	WRKY
Ca4_P1_45076892	Ca4	45076892	CG/CGG	GGTCCAACATTCTCC TTGA	TCCACAAATAACAGGT TTTCCC	59.9	606	INTERGENIC	--	--	--
Ca4_P1_45077297	Ca4	45077297	CTTTTTT/CTTTTTT	GGGAAAACCTGTTATT TGTGGA	TGTTGGAATTGGAAA TATGGA	60.1	332	INTERGENIC	--	--	--
Ca4_P1_45079199	Ca4	45079199	TATTATTAAGATTATTA TTAAAA	AAGGTATGAAAAATCC GAGTGC	TTGACTACTTTTTCGA GTGACATC	59.5	629	INTERGENIC	--	--	--
Ca4_P1_45081374	Ca4	45081374	ATTTT/ATTTT	TCGTTTTCTTCAAAG GTGG	TGCTGAGTTATGGCGT CTTG	60.1	917	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca4_P1_4508477	Ca4	4508477	T/TA	GTCTCTTGGTTTACCG TGCC	ATGAGTGGTTTGCCAC ATGA	59.6	452	INTERGENIC	--	--	--
Ca4_P1_45088189	Ca4	45088189	A/AT	TGGCCTGTTCTTGTA CACT	TTACTCCCAACACACC CCTC	60.6	600	INTRON	Ca_09169	E	GATA
Ca4_P1_45092173	Ca4	45092173	GAAA/GAAAAA	CAGCCACTTCACGTTT TTCA	TTTGTGAGAATCAAAA GTTTATTGG	60.0	527	INTERGENIC	--	--	--
Ca4_P1_4509348	Ca4	4509348	CAAAAAAAAA/CAAAAAAAAA	GATGAAGGATTTTGCA ACCAA	AGGTGAAACGAAGGA GGGAT	59.9	145	INTERGENIC	--	--	--
Ca4_P1_45098696	Ca4	45098696	ATTTTT/ATTTTT	CATGACTCCAACACAA TGCC	TTTTGCCAATTGATAC AACAAAA	60.0	305	INTERGENIC	--	--	--
Ca4_P1_45102233	Ca4	45102233	TAAAAAAAA/TAAAAAAAA	CAGCACATCACATCA TCCA	GGTCACAGTCACCCCA AAGT	59.0	877	INTERGENIC	--	--	--
Ca4_P1_45104586	Ca4	45104586	AGG/AGGG	CCATTTTATCTCATGAT TCAGACC	GGTCAAGGAGAAAGC TGCAC	58.9	209	INTERGENIC	--	--	--
Ca4_P1_45107861	Ca4	45107861	CATAT/CAT	TGTGAGGGTGGGAAA GAAC	TGCTTGGCTCACTGTT TCTG	59.9	512	DRR	Ca_09170	--	--
Ca4_P1_45108280	Ca4	45108280	A/ATT	CAGAAACAGTGAGCCA AGCA	AAAAACATTCCCGCCT TTTA	60.2	188	DRR	Ca_09170	--	--
Ca4_P1_45108878	Ca4	45108878	CAAAAA/CAAAAA	AAACCCAAACTTTTCA TGGT	GCTTTGGAGGTTGGTT TTGA	57.5	393	INTERGENIC	--	--	--
Ca4_P1_45108939	Ca4	45108939	ATCTCTCTCTCTCT/ATCTCTCTCT CTCTCTCTCTCTCT	ATTTCCCTGTTTCCAG GCTC	GCTTTGGAGGTTGGTT TTGA	60.4	322	INTERGENIC	--	--	--
Ca4_P1_4510960	Ca4	4510960	ATT/ATTT	TGCATTCTGTCTTTC TTGC	CGGCTTATTGCAAAGA TGGT	60.0	338	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca4_P1_45114505	Ca4	45114505	AT/ATT	TGATTAATCTTTTCGC CCG	AATGGTGCAATGAAT GCAA	60.0	388	DRR	Ca_09171	--	MYB_related
Ca4_P1_45115420	Ca4	45115420	TAAAAAAAAAAAAA/TAAAAAAAAA AAA	TCGCAATGAGTTGATT GTTCA	TCATCATCCGACTTTG CTTG	60.3	701	INTERGENIC	--	--	--
Ca4_P1_45115919	Ca4	45115919	CTT/CTTATT	TGCAGTGTGTTGATTAC GGGA	GGTGAAGATGATTCAA TTTCCTTT	60.1	774	INTERGENIC	--	--	--
Ca4_P1_45116175	Ca4	45116175	A/AAAAT	GGAAACAGCAAGAAAG ACGAA	TCCCTGATTTAAAAATA TTGCCA	59.5	972	INTERGENIC	--	--	--
Ca4_P1_45116306	Ca4	45116306	TAAAAAAA/TAAAAAAA	CGGAGTGGATTGAATT TATGA	GCAATTTCCGCTTTCT GTTT	57.6	889	INTERGENIC	--	--	--
Ca4_P1_45116369	Ca4	45116369	TA/T	AAAGGAAATTGAATCA TCTTCACC	GCAATTTCCGCTTTCT GTTT	59.7	385	INTERGENIC	--	--	--
Ca4_P1_45118855	Ca4	45118855	AACCTACATA/AA	GCTTGAGGAAAAAGCC TGTG	ACAGACGGTGACAAAT TGAA	60.0	441	INTRON	Ca_09172	T	--
Ca4_P1_4511887	Ca4	4511887	ATTTTT/ATTTTT	CGTTGTTGGTGAAACT GCAT	CCGGCGAGAATTTTTC AATA	59.6	700	INTERGENIC	--	--	--
Ca4_P1_4512130	Ca4	4512130	GAAAAAAAA/GAAAAAAAA	TAGACTCAACTCTGGC GGCT	CCGGCGAGAATTTTTC AATA	60.2	266	INTERGENIC	--	--	--
Ca4_P1_45126116	Ca4	45126116	CGTTGTTGTT/CGTTGTT	AACATTGGGACTGCAC ACAA	GGCGGATGACGAGAA TATGT	60.0	913	DRR	Ca_09173	T	NAC
Ca4_P1_45126194	Ca4	45126194	ATTTTTTTTT/ATTTTTTTTT	GCATTGCCAAAATAGT CGCT	GGCGGATGACGAGAA TATGT	60.2	527	DRR	Ca_09173	T	NAC
Ca4_P1_45135433	Ca4	45135433	GACACTAACT/GACACT	CATTCTGCGAGACAG AAAA	CATGCTGTGACTCGAA AGGA	60.0	661	DRR	Ca_09175	S	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_45136981	Ca4	45136981	AG/AAAGG	ACTGAAACCAAGGTTG GCAC	TCCAATTCTCCTCCAT CAGG	60.0	476	INTRON	Ca_09176	--	--
Ca4_P1_45138231	Ca4	45138231	CATTATATTATATTATATT/CATTATAT TATATT	ACCACACTCATGCAAC GAAA	AATAAATCGCAGGGCT TGTTG	60.2	654	DRR	Ca_09177	T	--
Ca4_P1_45142192	Ca4	45142192	T/TAACAAGTTTTCC	CCAATTCGATCCTCC TTGA	TGCACACAATGGAAGT GGTT	60.0	445	INTRON	Ca_09177	T	--
Ca4_P1_45145234	Ca4	45145234	ATT/ATTT	GCCTTGCTGGATTGC ATTT	TTCAAATTTGCAGAT AAATTCC	60.1	443	INTERGENIC	--	--	--
Ca4_P1_45145450	Ca4	45145450	GAAAAAAAAA/GAAAAAAAAA	GCCTTGCTGGATTGC ATTT	GAAAAACAATTTGGCT ATTCACC	60.1	926	INTERGENIC	--	--	--
Ca4_P1_45151444	Ca4	45151444	AATAT/AAT	CGCTTCCTTGTTCTTT TGG	CACTGAAAGCAAGGGT CACA	59.9	555	INTRON	Ca_09178	B	NAC
Ca4_P1_45153271	Ca4	45153271	CT/CTT	GACTGAGCCTTGCATC AACA	CATTGCGGTTTAGAAG GCAT	60.0	511	INTRON	Ca_09178	B	NAC
Ca4_P1_45153925	Ca4	45153925	ATGTGT/AT	ATGCCTTCTAAACCGC AATG	TGCTCTCCCTCGTTTT GATT	60.1	587	INTRON	Ca_09178	B	NAC
Ca4_P1_45155912	Ca4	45155912	GAATACAATACAATAACAATA/GAATAC AATA	AAGGGCACAGTGGTCA AAAC	GATGGAAAGGATCGG AGTGA	60.0	352	DRR	Ca_09178	B	NAC
Ca4_P1_45158654	Ca4	45158654	TA/TAA	TCAAGAGACGTGGATT TCCC	TTGCAGAATGACACAG CCTC	60.1	126	INTRON	Ca_09179	P	--
Ca4_P1_45159393	Ca4	45159393	GTTT/GTTTTT	TGGAGGCTTGCTTCAG ATTT	GACTTGCCATGAAGG GCAT	60.0	793	INTRON	Ca_09179	P	--
Ca4_P1_45163367	Ca4	45163367	ATTTTT/ATTTTTT	CAAGTTGCAGGGATAC CGTT	TTCAGGCAAAGGAAAT CACC	60.0	598	INTRON	Ca_09179	P	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_45165066	Ca4	45165066	TA/TAA	TTGTTCTTCTCCCC TTCT	TTGCACCTCCAACATC CAAA	60.0	408	DRR	Ca_09179	P	--
Ca4_P1_45166587	Ca4	45166587	AATAT/AAT	TTGTGTGCTGCAAGT TCTT	ACACCAAATTCGGCAA ACTC	59.5	518	INTERGENIC	--	--	--
Ca4_P1_4516701	Ca4	4516701	T/TGAC	TAACTTTTCCATGCTG GGCT	GCACACTTGTGCTTGG AAGA	59.7	868	INTERGENIC	--	--	--
Ca4_P1_45169402	Ca4	45169402	CTCCGACGATTTTC/CTC	TTGTGTAGCTAATTT CGAGGA	AAACGGTGCCAATGAG ATTT	59.4	532	INTERGENIC	--	--	--
Ca4_P1_4516975	Ca4	4516975	ATT/A	AAAATGCGTTTCACTC GGAC	GCACACTTGTGCTTGG AAGA	60.1	304	INTERGENIC	--	--	--
Ca4_P1_45172116	Ca4	45172116	ATTTTTTT/ATTTTTTTT	ATCGTTCGGTTACTTC GGTG	AGGGTGTAACCGCCA CAATA	60.0	893	INTERGENIC	--	--	--
Ca4_P1_4517245	Ca4	4517245	AAGA/AA	AAAATGCGTTTCACTC GGAC	CCGTTTTTCGTCACAA TTCA	60.1	550	INTERGENIC	--	--	--
Ca4_P1_45177041	Ca4	45177041	ACCCCC/ACCCCC	CCAAGTTTTTGCAACC CAGT	TGTGTACCGGAAAAC TCAAAA	60.0	363	INTERGENIC	--	--	--
Ca4_P1_45177094	Ca4	45177094	ATT/AT	CCAAGTTTTTGCAACC CAGT	TGTGTACCGGAAAAC TCAAAA	60.0	363	INTERGENIC	--	--	--
Ca4_P1_45177173	Ca4	45177173	ATTT/ATT	CCAAGTTTTTGCAACC CAGT	TGTGTACCGGAAAAC TCAAAA	60.0	363	INTERGENIC	--	--	--
Ca4_P1_45177232	Ca4	45177232	A/AC	CCAAGTTTTTGCAACC CAGT	TCGTACGAAAAGTACA AACCCA	60.0	720	INTERGENIC	--	--	--
Ca4_P1_45178018	Ca4	45178018	GAAAAA/GAAAAA	TGAAATGGGTTTGAC TTTTCG	CCATTCGAGTGGTTGT GTTG	59.0	738	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_45178267	Ca4	45178267	GTITTTTT/GTITTTTTTT	TTTGTGAAATTGCATT CGA	CCATTCGAGTGTTGT GTTG	60.1	167	INTERGENIC	--	--	--
Ca4_P1_45182772	Ca4	45182772	AATATATATATATAT/AATATATAT T	TGAAAAATTAATAAAA AGCTGACGA	CAGTATTATTTCGGCG GGAA	59.6	629	INTERGENIC	--	--	--
Ca4_P1_45182830	Ca4	45182830	T/TATATGAA	AAAATTAATAAAAAGC TGACGAAA	CAGTATTATTTCGGCG GGAA	57.1	626	INTERGENIC	--	--	--
Ca4_P1_45183778	Ca4	45183778	TTCTTTCTCTCT/TTCT	TGCAACGTTTGCTGAA AAAC	TGCATTGGTTCAATT GCAT	59.9	674	INTERGENIC	--	--	--
Ca4_P1_45185940	Ca4	45185940	T/TG	TACTCGAGCACATGCA AACC	CTTTGAGGCCTCCATA GCTG	59.9	510	INTRON	Ca_09180	K	TALE
Ca4_P1_45189846	Ca4	45189846	CCAGCA/CCA	TTAATGGCTTCAAGGA ACCG	CACGGTGGGGAAATC TCTTA	60.1	170	INTRON	Ca_09181	S	--
Ca4_P1_45193943	Ca4	45193943	TA/T	CACTGAATCGGTTGGT GTTG	GCAAGCAATCAAGTAA AAATGG	60.0	850	INTERGENIC	--	--	--
Ca4_P1_45195172	Ca4	45195172	TCTA/TCTAATTTTTAGCTA	TCGACACTTTTGTGTC TCTCAA	AACGGCTTTTATTAAT CATGACA	58.6	904	INTERGENIC	--	--	--
Ca4_P1_45195206	Ca4	45195206	ATTT/ATTTTT	CACGTTATTTAAACAT CACACATCA	AACGGCTTTTATTAAT CATGACA	60.1	664	INTERGENIC	--	--	--
Ca4_P1_45197383	Ca4	45197383	GAAGAAAA/GAAGAAAAAGAAA	TTTCAAGTGACTGTTG CCAAA	GTCGGTGGCTATGAC GAAAT	59.4	531	INTERGENIC	--	--	--
Ca4_P1_45197554	Ca4	45197554	TATTA/TATTATTA	ATTTCGTCATAGCCAC CGAC	GTCGACATTGAGAGG GGAAA	60.0	395	INTERGENIC	--	--	--
Ca4_P1_4521076	Ca4	4521076	AATATATATATATATATA/AATATAT ATATATATA	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/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_4521925	Ca4	4521925	CATATATAT/CATATATATAT	TGCTTGTATGGTTTAA TACGGG	AAACATAAAACAAC AGGACAAA	60.1	690	INTERGENIC	--	--	--
Ca4_P1_45222131	Ca4	45222131	TA/TAA	CCACCTTGTTCCCACT CCTA	TCCAATGAATTTGGAG AGCC	60.0	334	DRR	Ca_09184	A	C2H2
Ca4_P1_4522228	Ca4	4522228	ATTTTTTTTT/ATTTTTTTT	TCAATGACAAATATTGA TCCCA	CACGACACATAGTTTT CACCG	57.8	888	INTERGENIC	--	--	--
Ca4_P1_45222380	Ca4	45222380	TA/T	TTAGCCAATCACCCCA AAAC	ATACGAAGCAACAAGC ACCC	59.8	353	DRR	Ca_09184	A	C2H2
Ca4_P1_45222705	Ca4	45222705	CTTTTTTTTT/CTTTTTTTTTT	GGGTGCTTGTGCTTC GTAT	TTTGCATATTTCCCT CTTCA	60.1	489	DRR	Ca_09184	A	C2H2
Ca4_P1_45223122	Ca4	45223122	TAAAGTTGATATCTAAAAAGTTGATAT CTAAAA/TAAAGTTGATATCTAAAA	GCCTTTTGCAGTGTGC CTAT	CATGTCCCTCTTCAT TTTTG	60.3	558	INTERGENIC	--	--	--
Ca4_P1_45226065	Ca4	45226065	CTTTTTTTTT/CTTTTTTTTTT	GAAAGACGGCTTGTTG CTTC	GAGACCGGCCAGGAA CTAAT	60.0	688	INTRON	Ca_09185	S	--
Ca4_P1_45228406	Ca4	45228406	ATTATT/ATTATTATTTTATT	GAGAGGGTGGCTAGTT GCTG	TTGACCCATTCGTAT CACTG	60.0	672	DRR	Ca_09185	S	--
Ca4_P1_45228863	Ca4	45228863	ATATTATTATTATTATTATTATTAT TA/ATATTATTATTATTATTATTATT ATTATTATTATTA	TCAGTGATACGAAATG GGTCA	TTTGGTGATTGGCACA ACAT	59.0	484	INTERGENIC	--	--	--
Ca4_P1_4522910	Ca4	4522910	ATTTTTTT/ATTTTTTT	AATGACAAATTTTCGG CCC	TACCCTCCTTCGCATC AATC	59.8	775	INTERGENIC	--	--	--
Ca4_P1_4522975	Ca4	4522975	AATTTTAACATCAT/AAT	AATGACAAATTTTCGG CCC	TACCCTCCTTCGCATC AATC	59.8	775	INTERGENIC	--	--	--
Ca4_P1_4523208	Ca4	4523208	TATTAAATTAA/TATTAA	TGATAGAAAAATGATG CAAGAAGG	AATTTTCATGCCAAC TGGA	59.6	454	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_4523289	Ca4	4523289	TT/TTATAT	TGATAGAAAAATGATG CAAGAAGG	AATTTTCCATGCCAAC TGGA	59.6	454	INTERGENIC	--	--	--
Ca4_P1_4523557	Ca4	4523557	GAAAA/GAAAAA	GATTGATGCGAAGGAG GGTA	AACACCAACCACTCA	60.0	490	INTERGENIC	--	--	--
Ca4_P1_45236013	Ca4	45236013	CATGTGCGAACAATG/CATGTGCGAA CAATGTGCGAACAATG	CAACCTGAAAAGGGC ACAT	TAACGATGGGATTGGT CCAT	60.0	461	INTRON	Ca_09187	A	--
Ca4_P1_4523884	Ca4	4523884	CATATATATATATATATA/CATATAT ATATATATA	TGAGTGGTGGTTGGTG TGTT	TGCATTAAATGGGAGA TGGC	59.9	198	INTERGENIC	--	--	--
Ca4_P1_4524273	Ca4	4524273	TA/TAAATAATAGA	TGAGTGGTGGTTGGTG TGTT	AACGGAGTGGGGTAC CTTCT	59.9	690	INTERGENIC	--	--	--
Ca4_P1_45245680	Ca4	45245680	TAAAAA/TAAAAA	TGCTTGTGCACAAGT TTCC	AAAAACGCAGTATCCA TACAAA	59.9	617	DRR	Ca_09188	--	B3
Ca4_P1_45247097	Ca4	45247097	ATCTTCTTCTTCTTCTTCTT/ATCT TCTTCTTCTTCTTCTT	GCAAAACAAAATCCTC AGCC	AGTTCACCATGGCTTC CAAC	59.7	399	CDS (large-effect mutations)	Ca_09188	--	B3
Ca4_P1_45248759	Ca4	45248759	CTTT/CTTTTT	AAGTCTTGAAATCTTG CGGC	TTTGTCCCATCCGATT TTTC	59.5	334	INTERGENIC	--	--	--
Ca4_P1_45256690	Ca4	45256690	TAGAGAG/TAGAGAGAG	CCTGGGGTTCTTGGTG AGTA	CACAACTCCACTTCG AGCA	60.0	303	INTRON	Ca_09189	O	--
Ca4_P1_45256888	Ca4	45256888	TCAGG/T	CCTGGGGTTCTTGGTG AGTA	CACAACTCCACTTCG AGCA	60.0	303	INTRON	Ca_09189	O	--
Ca4_P1_45264987	Ca4	45264987	CATAATATCAA/CATAATATCAATAATA TCAA	GCCGTTTGAGTCGAGC TATC	TCCAACCATCGAGACT TTCC	60.0	407	INTRON	Ca_09190	--	--
Ca4_P1_45267081	Ca4	45267081	CT/CTT	CTCTTCAATAGCCCCA TCCA	TGGCCATGAAATCTTC TTCC	60.0	751	INTRON	Ca_09190	--	--

[illegible]

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_4532626	Ca4	4532626	GTATTATTA/GTATTA	TGAACCCCAAAATCA CCAT	CAAACATAGCGGGC ATTT	60.0	684	DRR	Ca_03806	--	--
Ca4_P1_4532939	Ca4	4532939	TAAAAAA/TAAAAA	CGTGAATTGCATTCAA CCTTT	CAAACATAGCGGGC ATTT	60.0	503	DRR	Ca_03806	--	--
Ca4_P1_4533213	Ca4	4533213	CACAAA/CACAAATAACAAGGACAAA	AAATGCCCGCTATGAG TTTG	ACGAGGGGTTGAATTT TTCC	60.1	348	DRR	Ca_03805	P	--
Ca4_P1_45332248	Ca4	45332248	T/TCACAC	GGCCAATGTGCTCACT TTTT	TGCATTGGTTTGATGG CTAA	60.1	498	INTERGENIC	--	--	--
Ca4_P1_45332757	Ca4	45332757	CCCGT/CCCGTATCCGT	CTTTACGTGCCTCTCC CTTG	TCCAAAGCATGTGTAT CCCA	59.9	479	INTERGENIC	--	--	--
Ca4_P1_4533290	Ca4	4533290	GAAAAA/GAAAA	AAATGCCCGCTATGAG TTTG	GGTGAAAAGAGTACGA GGGG	60.1	360	DRR	Ca_03805	P	--
Ca4_P1_45332940	Ca4	45332940	TAA/T	TGGGATACACATGCTT TGGA	TGACATTGTTTGGCAC ACTG	59.9	174	INTERGENIC	--	--	--
Ca4_P1_45333920	Ca4	45333920	TAAAA/TAAA	TTGTGGCATTATCTCC TCACC	TCATGTCTCTCTTTCC ACATTAAAA	59.9	486	INTERGENIC	--	--	--
Ca4_P1_45334419	Ca4	45334419	ATT/ATTT	TTTAATGTGGAAGAG AGACATGAA	AAACACATTGACCGC CATT	59.2	357	INTERGENIC	--	--	--
Ca4_P1_45334532	Ca4	45334532	AG/A	TTTAATGTGGAAGAG AGACATGAA	AAACACATTGACCGC CATT	59.2	357	INTERGENIC	--	--	--
Ca4_P1_45334674	Ca4	45334674	TA/T	ATCATTCTTGAATGGC GGTC	CAAGACTTCGGGCAC TTTC	59.9	513	INTERGENIC	--	--	--
Ca4_P1_45334856	Ca4	45334856	AACG/AACGACG	ATCATTCTTGAATGGC GGTC	AGAAGCCATGTGATCG GAAC	59.9	684	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_45334966	Ca4	45334966	ATT/ATTT	ATCATTCTTGAATGCC GGTC	AGAAGCCATGTGATCG GAAC	59.9	684	INTERGENIC	--	--	--
Ca4_P1_45335482	Ca4	45335482	ATTTT/ATTT	GTTCCGATCACATGGC TTCT	TGAGACGCTTTTCGTCA CAAC	60.1	406	INTRON	Ca_09198	L	--
Ca4_P1_45338666	Ca4	45338666	TA/TCA	GTTCTCCTTCGACAGG TTGG	AAGGAAACGGACGTCA TCAG	59.7	433	INTRON	Ca_09198	L	--
Ca4_P1_45338691	Ca4	45338691	AT/A	GTTCTCCTTCGACAGG TTGG	AAGGAAACGGACGTCA TCAG	59.7	433	INTRON	Ca_09198	L	--
Ca4_P1_45341287	Ca4	45341287	CATAT/CAT	TGCTCAAATGGATTGT TGTC	TCCTCCTCTTTGTTTG TCCG	60.1	798	DRR	Ca_09199	F	--
Ca4_P1_45341374	Ca4	45341374	AAA/AAATAA	TTTGCCATATTTTAGG CTGGA	TCCTCCTCTTTGTTTG TCCG	59.6	536	DRR	Ca_09199	F	--
Ca4_P1_45341608	Ca4	45341608	AAGAGAATCGGA/AAGAGAATCGGAG AGAATCGGA	GCTGGACAAGTCTGCC AAG	CTAGTGTGCAGTGGT GCCAT	59.6	874	DRR	Ca_09198	L	--
Ca4_P1_45342973	Ca4	45342973	ATTTTTTTTTT/ATTTTTTTTTTTTT	GGGCCTTTCTCCTTTT CATC	TCGCTTCTGTTCCGCT TAAT	60.0	762	INTRON	Ca_09199	F	--
Ca4_P1_45345425	Ca4	45345425	ATTTTTTT/ATTTTTT	CTTTTGCTGCAAGGCA TACA	CTGCACATTCAACTCT GGGA	60.0	582	INTRON	Ca_09199	F	--
Ca4_P1_45346735	Ca4	45346735	GAAAAAAAAA/GAAAAAAAAAAAAA	CTTCCTTACATTGAGC CCCA	GGTGTGGATGCAACT GATG	60.1	670	INTRON	Ca_09199	F	--
Ca4_P1_45349934	Ca4	45349934	TAAAAAAAAA/TAAAAAAAAA	AAAGGACTCTTGTCTT CCCCA	TTGACTTGGTCATCCA ATTTTT	60.1	693	INTERGENIC	--	--	--
Ca4_P1_45350262	Ca4	45350262	TTA/TTATA	AGAATCGTTTTGTGG GATCA	GTCTTGGTAGCGAGT TGGA	59.4	778	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_45350516	Ca4	45350516	A/AC	AAAAATTGGATGACCA AGTCAA	GTCCTTGGTAGCGAGT TGGA	58.5	517	INTERGENIC	--	--	--
Ca4_P1_45358850	Ca4	45358850	AATATTATATTAT/AATATTAT	TCATGTTATGGTTGCC GAAA	TTGGTCTTCACAATGA TGCTTT	59.9	502	INTERGENIC	--	--	--
Ca4_P1_45363311	Ca4	45363311	AT/ATAATTT	GGCAAAACCAAGAGA ACCA	GTTGGAAATGAGAGG TGCG	60.1	781	DRR	Ca_09200	K	MYB
Ca4_P1_4536669	Ca4	4536669	GTATA/GTA	GGTGGGTGAGCAAGA GAGAG	TTCGCAACCAACCACA ATTA	60.0	410	INTERGENIC	--	--	--
Ca4_P1_45366808	Ca4	45366808	TT/TTAT	ACACCCCAATCCAAA TTGA	ATGCTCAAATGGGTAG CAGG	60.0	771	INTRON	Ca_09200	K	MYB
Ca4_P1_45368052	Ca4	45368052	AAAGAAGAA/AAAGAA	TGAACAATGGGAAGA GCAA	AAAGGTGCTTGCTTTC AAGG	59.2	226	INTRON	Ca_09200	K	MYB
Ca4_P1_45368241	Ca4	45368241	CAAG/CAAGAAG	CCAACCTCCAGAAGTG CCAT	TCATCTGCTTTAGATT GTCACCA	60.1	209	INTERGENIC	--	--	--
Ca4_P1_45369151	Ca4	45369151	CTTTTT/CTTTTT	TTGCATTCAATGCTG CATT	GGGCAGTCACCTCCA CTAAA	59.2	575	INTERGENIC	--	--	--
Ca4_P1_45370800	Ca4	45370800	AG/AGCTTTCGG	GAGCTTCTTTTCCAAC ACGC	TCCGTCTCTTGATT TGCT	60.0	464	INTERGENIC	--	--	--
Ca4_P1_45371273	Ca4	45371273	AC/A	CGCAAATTCGAAACC ATTT	TGCGGATCACTTTTCT ACCC	59.9	150	INTERGENIC	--	--	--
Ca4_P1_45372398	Ca4	45372398	AC/A	CGACACTCGAATGACA CCAC	GGGTAATTCGGTGTGT GGAC	60.2	945	INTERGENIC	--	--	--
Ca4_P1_4537624	Ca4	4537624	TAATAAAATAAAATAAAAT/TAATAAAA TAAATAAAATAAAAT	TGCATCGCCCATATCA ATAA	TATTGGACCGACCCTG AAAA	59.9	511	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_45377418	Ca4	45377418	ATTGTCACCTTTGTCACCTTT/ATTGTCA CTTT	CTCCATTGGTGGTGTG CTTT	GTCTGAGCGTTTGCAT GGTA	59.8	821	DRR	Ca_09201	--	--
Ca4_P1_45377587	Ca4	45377587	ATTTTTTTT/ATTTTTTT	CTCCATTGGTGGTGTG CTTT	GTCTGAGCGTTTGCAT GGTA	59.8	821	DRR	Ca_09201	--	--
Ca4_P1_45377807	Ca4	45377807	AC/A	TCCCATCATGTTTTGAT AGCC	GTCTGAGCGTTTGCAT GGTA	59.8	603	DRR	Ca_09201	--	--
Ca4_P1_45380400	Ca4	45380400	ACTACG/A	TTGCCGTTAATTCTTG GAGC	GTGGAGAAAAACAACAA CGGG	60.2	774	INTERGENIC	--	--	--
Ca4_P1_45383583	Ca4	45383583	TAAAAAAAAA/TAAAAAAAAA	CAATCCCTAAAGACCG CTCA	TCGAATAATTATGACG CATGAC	60.2	399	INTERGENIC	--	--	--
Ca4_P1_4538533	Ca4	4538533	CTTT/CTTTT	CCGTACCAAAACAATC GTCC	TGCATCTATTCCAACC GTCA	60.2	597	INTERGENIC	--	--	--
Ca4_P1_45389098	Ca4	45389098	CA/CAA	CAATTTCATTTTGTGG GGG	ATTTGAGCATGGGGAA GATG	60.0	623	INTERGENIC	--	--	--
Ca4_P1_4539131	Ca4	4539131	A/AG	TGTGCGCCATATTCTT TGAG	GGGTGGAATAGGTT GGGTC	59.8	680	INTERGENIC	--	--	--
Ca4_P1_45391856	Ca4	45391856	CTTTTT/CTTTT	CCACACTGAGCTACTG CTCC	TCTCCGTGGGCTTAAC AATC	58.6	634	INTERGENIC	--	--	--
Ca4_P1_45393727	Ca4	45393727	T/TG	CACATTCATGTTTCAAC CGC	TCTGTGATTCAGACAT TAGAGAATGA	60.0	372	INTERGENIC	--	--	--
Ca4_P1_45395670	Ca4	45395670	TC/T	TGATATGGGAGGTTAA GGACCA	CCCCACGAACTGTATC GTTT	60.6	604	INTERGENIC	--	--	--
Ca4_P1_4539713	Ca4	4539713	TTA/TTATA	TCGACCCAACTATTT CCAC	GGTTAACCGTCGTAAC ACACTTT	59.8	340	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_45397379	Ca4	45397379	TA/TAA	CACGTGAGTGTGACAT GGTG	CAATGGCAAAATATC CCAAA	59.6	626	INTERGENIC	--	--	--
Ca4_P1_4539900	Ca4	4539900	TTATATATATATATA/TTATATATATATA TATATA	TCGACCCAACCTATTT CCAC	TCAATTAGGAGAATCA CGTTTGAA	59.8	797	INTERGENIC	--	--	--
Ca4_P1_45399331	Ca4	45399331	ATTTTTTTTTTTTTTT/ATTTTTTTTTTT	ACCACTTCACCACAAG AGGG	ATTCCGCTTTGCTGTC AAAC	60.0	445	INTERGENIC	--	--	--
Ca4_P1_45399782	Ca4	45399782	AG/A	GTTTGACAGCAAAGCG GAAT	ACAGCTTGCAACTGAT GTGG	60.3	334	INTERGENIC	--	--	--
Ca4_P1_45402214	Ca4	45402214	ACAAAACCAAAACCAAAACC/ACAAA CCAAAACCAAAACCAAAACC	TGATAGTGGCTGCGAC AAAA	GAAATGCGTTTATGCG TTCA	60.3	562	INTERGENIC	--	--	--
Ca4_P1_45404851	Ca4	45404851	GTTTCTTTTTCT/GTTTCTTTTTCTT TTTTCT	TTTCTTTTGTTTGCA GCG	GGGAGGAAAGTTGAA GTTGAAA	60.0	400	INTERGENIC	--	--	--
Ca4_P1_45404908	Ca4	45404908	CTTTTTTT/CTTTTTTT	TTTCTTTTGTTTGCA GCG	TGCATTTTGCCACTA CTCAAA	60.0	512	INTERGENIC	--	--	--
Ca4_P1_45414246	Ca4	45414246	AGCATTT/A	TGTTTTCTCTCACCG CAAA	TGTGTGCATGCATATT CGTT	59.4	509	INTERGENIC	--	--	--
Ca4_P1_45414589	Ca4	45414589	CTT/CTTT	TGCATAAATGCACGAT GAAAA	GTTCAAACCGCAATG TCTT	60.1	740	INTERGENIC	--	--	--
Ca4_P1_45415143	Ca4	45415143	TTTTATTTTATTTTAT/TTTTATTTTA TTTTATTTAT	CTCCACCCTGTCAAGA CCAT	GGCCTTGAACCTTGAT TTGG	60.0	433	INTERGENIC	--	--	--
Ca4_P1_45415209	Ca4	45415209	AATTATTTATTTATTTAT/AATTATTTT ATTTATTTATTTAT	CTCCACCCTGTCAAGA CCAT	GAACTTGGAATCCCTC CTCC	60.0	733	INTERGENIC	--	--	--
Ca4_P1_45415408	Ca4	45415408	ACA/ACACCA	CTCCACCCTGTCAAGA CCAT	GAACTTGGAATCCCTC CTCC	60.0	733	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_45416301	Ca4	45416301	T/TA	CAATTCATGGTACAAG GGGG	TCCCATTCATTGTA AAGC	60.0	741	INTRON	Ca_09202	K	TALE
Ca4_P1_45418187	Ca4	45418187	CAAA/CAAAA	CTTGACTTGGATGACA TGATGAA	CTCGAGGATCAATCTC TGGC	60.0	508	INTRON	Ca_09202	K	TALE
Ca4_P1_4541961	Ca4	4541961	TAAA/TAAA	AAGTTACCGCAGTGTG GTCC	TTTGGCGCTTCTTGT AAAT	60.0	404	INTERGENIC	--	--	--
Ca4_P1_45431331	Ca4	45431331	GATATAT/GAT	GAGGGCAAGACCAAGA TCAA	CCACCAAAAATCTCCC TATGA	60.2	248	INTERGENIC	--	--	--
Ca4_P1_45432100	Ca4	45432100	A/AATT	TTTGTGTGTCATTC ATGTG	GGTAACACATGACCC GTCC	59.0	746	INTERGENIC	--	--	--
Ca4_P1_45436331	Ca4	45436331	TT/TTCATAT	TGCTAATAACGTGTCA CGCC	CTCTCCCAACATATGA TGCCT	59.8	819	INTERGENIC	--	--	--
Ca4_P1_45436462	Ca4	45436462	AC/A	AACCATGCACATGACT CACAA	CGAGCGTGACGAAATA ATCA	60.0	850	INTERGENIC	--	--	--
Ca4_P1_45437514	Ca4	45437514	GAGAAAGAAAGAAAGAA/GAGAAAG AAAGAAAGAAAGAAAGAAAGAA A	TTTGGGTGAATGCAAT TTGA	GGAGGATGAAGCCAA GTTGA	59.9	323	INTERGENIC	--	--	--
Ca4_P1_45437836	Ca4	45437836	AA/AATA	TCAACTTGGCTTCATC CTCC	TTCGAAACGCACAATT AATCA	60.2	435	INTERGENIC	--	--	--
Ca4_P1_4543916	Ca4	4543916	TAAAAAAAA/TAAAAAAAAA	TAGGTCTTCCCTGGG TGTG	TTAGGCGTGCTTCCTT CACT	60.0	384	DRR	Ca_03804	--	--
Ca4_P1_45440447	Ca4	45440447	AT/A	GGAGGTGCAACTCGA GAATG	AAGTGGCGCTTAATCC AAAA	59.8	784	INTERGENIC	--	--	--
Ca4_P1_45505990	Ca4	45505990	AATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTA TTA/AATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTA TTATTATTATTA	GAATCAGCAGCATTC AAAA	CGGAGATTGCAAGTAA AAGAGTC	59.8	402	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_45567618	Ca4	45567618	TTATATATATATATATAT/TTATATAT ATATATATAT	TCACAAATGGCAGTTT TGCTCT	CCAATCCTAGCTTCTG AAAATG	59.7	635	INTERGENIC	--	--	--
Ca4_P1_45606495	Ca4	45606495	CATATATATATATATATATATAT/AT CATATATATATATATATATAT	AACCAACTTCGGCTAG GGTT	GTCATCCCGTGGAAT ATGG	60.0	445	INTERGENIC	--	--	--
Ca4_P1_4561887	Ca4	4561887	GTAGCATCTA/GTA	GGAACATGGCAAGGAA GTGT	GCAGATCGATTCTTTA GCGG	60.0	912	INTRON	Ca_03802	UZ	--
Ca4_P1_45626888	Ca4	45626888	ATTT/ATTTT	TATCAGCAGCACCAAA TGGA	GCCTGATGTTTGTCAG GGTT	60.2	286	INTRON	Ca_09219	Z	MYB_related
Ca4_P1_4563881	Ca4	4563881	CTTTTT/CTTTTTTT	TGCAGTTGCTATGCC ACTT	GGCCAGTCATCAGATC CAGT	59.5	605	INTRON	Ca_03802	UZ	--
Ca4_P1_4563901	Ca4	4563901	ATT/ATTT	TGCAGTTGCTATGCC ACTT	GGCCAGTCATCAGATC CAGT	59.5	605	INTRON	Ca_03802	UZ	--
Ca4_P1_4564033	Ca4	4564033	TAA/TAAAA	TTGCAAATTTTCGAATA CACTCA	GGCCAGTCATCAGATC CAGT	59.7	309	INTRON	Ca_03802	UZ	--
Ca4_P1_4564093	Ca4	4564093	CTG/CTGTG	TGGCATGGTAACAAAA GTCA	TGTGTTCCAAAGCCAG TGAG	57.6	539	INTRON	Ca_03802	UZ	--
Ca4_P1_45645932	Ca4	45645932	GT/G	AACCTTGATGCCGAGTA GCGT	GCCGAATAAAACCCCTC ACAA	59.9	713	INTERGENIC	--	--	--
Ca4_P1_4567851	Ca4	4567851	AAAAGTT/A	GTGGGGCATTACGATA CCAC	GGGGAAGCCATATCA CATCA	60.1	636	DRR	Ca_03802	UZ	--
Ca4_P1_4568058	Ca4	4568058	ATTTGATTTT/ATTTGATTTTGATTTT	GTGGGGCATTACGATA CCAC	GGGGAAGCCATATCA CATCA	60.1	636	DRR	Ca_03802	UZ	--
Ca4_P1_45690560	Ca4	45690560	TAAAAAAAAAAAAAAAA/TAAAAAAAAA AAA	CCAATCCCGCAAAATT TCTA	TAAACCAACCCCAAA TGAA	59.9	701	DRR	Ca_18393	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca4_P1_4569177	Ca4	4569177	TTATATATATATATATATATATATATA/T TATATATATATATATATATATATATA TATATATA	ATTTGAAATTTGATTAAG TGTGGTTT	CTCGAACAGTGAGGTC GTGA	57.3	726	DRR	Ca_03802	UZ	--
Ca4_P1_4570487	Ca4	4570487	ATTTTT/ATTTTTT	ACTGTTGCTCCTGGTG AGGT	TCATGGGACTGGACAA AACA	59.8	559	INTRON	Ca_03801	--	--
Ca4_P1_4572666	Ca4	4572666	CTTTTTTTTT/CTTTTTTTTTT	ATGGTTTGCTCCTGC ATCC	TCAGAATTTTCGACTC CATGC	59.9	314	INTRON	Ca_03801	--	--
Ca4_P1_45730406	Ca4	45730406	AATATATATATATATATATATATATA TATATATATATATATATATAT/AATATAT ATATATATATATATATATATATATAT ATAT	AATAAAAATCGCATTTT CGGA	TCGCTTCCCCAGATAA CAAC	58.6	596	INTERGENIC	--	--	--
Ca4_P1_4574989	Ca4	4574989	AA/AAAGTA	TGCCACTAAATAGGGT TGGC	CGTTCTGAAAACGCGC TTAG	60.0	460	DRR	Ca_03801	--	--
Ca4_P1_4576559	Ca4	4576559	TAAAAAA/TAAAAAAA	TCCATATGATTTGAAC TCAATTTT	GTTTGGTTTAACCGTT GGAA	60.1	729	INTERGENIC	--	--	--
Ca4_P1_4576739	Ca4	4576739	GAAAA/GAAAAA	TCCATATGATTTGAAC TCAATTTT	GTTTGGTTTAACCGTT GGAA	60.1	729	INTERGENIC	--	--	--
Ca4_P1_4582795	Ca4	4582795	CA/C	TGCAAAATATGGTTGA TCCAAG	GCTGCTTCACCTTCAC CTTC	59.8	444	DRR	Ca_03800	T	--
Ca4_P1_4584838	Ca4	4584838	AAAAGAA/AAA	GGCTGGACTTCAAAT GCTC	CATTCTTGATGGACC TTGG	59.8	920	INTRON	Ca_03799	R	--
Ca4_P1_4587278	Ca4	4587278	TC/T	ACAGGAAGAGCTCCCT AGCC	GCAGTGAGGTACACG GCTCT	60.0	446	DRR	Ca_03799	R	--
Ca4_P1_45880223	Ca4	45880223	TACTAAATATAAAAAA/TACTAAATA TAAAAAAACTAAATATAAAAAA	CTTGCCCCATCGTCTT AATG	CGACAAAATTGTTTC ATTTTAGG	60.5	656	INTERGENIC	--	--	--
Ca4_P1_4588591	Ca4	4588591	TAAAAAAA/TAAAAAAA	TTTTCCTCCATCGTTGA TCC	GACCACGTGTACCGTT GAAA	59.9	785	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_4589864	Ca4	4589864	CTTT/CTT	TTTCGCTCAATGTGAA AAGC	AACGGAGGCAGTAATT GTGC	59.0	322	INTERGENIC	--	--	--
Ca4_P1_4590717	Ca4	4590717	TC/T	GCATCACATCGTTATC GTGG	AAATTCACCATTGATAT GCGAA	60.0	625	INTERGENIC	--	--	--
Ca4_P1_4592169	Ca4	4592169	GATATAT/GATATATAT	TCAGACCTGCGTGCAT ACTC	GAAATTGCCAACTACC ATGTCA	60.0	777	DRR	Ca_03798	--	--
Ca4_P1_45922364	Ca4	45922364	GATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATT TTATT	TCGATTGACTCAACGC AACT	CAATCACCAGCCTTCG GTAT	59.4	750	INTERGENIC	--	--	--
Ca4_P1_4592350	Ca4	4592350	A/ATT	TCAGACCTGCGTGCAT ACTC	GAAATTGCCAACTACC ATGTCA	60.0	777	DRR	Ca_03798	--	--
Ca4_P1_4593293	Ca4	4593293	A/ACTAAT	TGGATCAACACGTGGA AAAA	ACAATTGTTGCCAGGG GTAA	59.9	667	DRR	Ca_03798	--	--
Ca4_P1_45949230	Ca4	45949230	AATTATTATTATTATTATTATTATT ATTATTATGATTATTATTATTAT/AATT ATTATTATTATTATTATTATTATT TTATTATTATTATTATGATTATTATT TAT	TCGAAAGAACCTCGAC TCGT	TCAATATGAGGTCGCT TCCC	60.0	508	INTERGENIC	--	--	--
Ca4_P1_45959235	Ca4	45959235	TTTATTATTATTATTATTATTATT/TT TATTATTATTATTATTATTATTATT	GGCCTATGGCCTAGCC TACT	ACGGCCTACCATAGG CTTTT	59.7	555	INTERGENIC	--	--	--
Ca4_P1_46001807	Ca4	46001807	GATAATAATAATAATAATAATAAT AATAATAATAATAATA/GATAATAATA TAATAATAATAATAATAATAATAAT A	TTGCTCCTACGTATCC CCAG	CTCAATCGTGGGTGAC CTTT	60.1	385	INTERGENIC	--	--	--
Ca4_P1_46003281	Ca4	46003281	TTTATTATTATTATTATTATTATTATTA TTATTAT/TTTATTATTATTATTATTAT TATTATTATTATTATTATT	ATTCTCTCCCCCTGGT GTCT	TGTTTGGCCTAAAATT GGGT	59.9	724	INTERGENIC	--	--	--
Ca4_P1_46004838	Ca4	46004838	TAAAAA/TAAAAAA	TGATTTCAATGAGAGG ATTTTGT	GCTCGATTGATGTTAA GGGC	59.0	425	INTERGENIC	--	--	--
Ca4_P1_46006002	Ca4	46006002	TATATAATATA/TATATA	TTTGTGTCCGGAATA TATG	GGTGAAATGAAAGGAC CCAA	59.4	793	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_46040811	Ca4	46040811	T/TG	TGCGCTTCTCATTTAC GTTG	AGCAAGTTCTCCAAA AGCA	60.0	423	INTERGENIC	--	--	--
Ca4_P1_46058697	Ca4	46058697	TTATATATATATATATA/TTATATATA TATATATATATA	TCTGCCTTGGCTCTGT TTTT	TTCTTGCGACCTCCAT CTCT	60.0	688	INTRON	Ca_18363	--	--
Ca4_P1_46137643	Ca4	46137643	AG/AGAAGG	TTATTCAATGGCTTAG GCGG	CTCCCGTGCAAAGGAA ATAA	60.1	665	DRR	Ca_18358	--	G2-like
Ca4_P1_46221707	Ca4	46221707	TAAAAAAAA/TAAAAAAAA	CAAACTATGGGAATGT GGGG	CGGAGATCAATAGAGA AACATGG	60.0	753	INTERGENIC	--	--	--
Ca4_P1_46229411	Ca4	46229411	AG/A	CAAAATTCGTAATCCAAA TCTTCAA	GCTAAATAGCGCTCGT GGTC	59.4	341	INTERGENIC	--	--	--
Ca4_P1_46253678	Ca4	46253678	TAAAAAAAA/TAAAAAAAA	CTAATTTGCACGGCT CATT	GATCCTGGCTCGGTTA TGAA	60.1	530	INTERGENIC	--	--	--
Ca4_P1_46275521	Ca4	46275521	TATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATA/ TATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATA	ACTCGGCAATGGTTGA GTTT	TGCTTTTGTGTGGC ACTC	59.6	833	INTERGENIC	--	--	--
Ca4_P1_46301292	Ca4	46301292	TAAAAAAAA/TAAAAAAAA	CGCTTTTGGTCTCTAA TGATTT	ATATGTCGCAGTCTCC CACC	57.6	184	INTERGENIC	--	--	--
Ca4_P1_46376353	Ca4	46376353	TNNNNNNNNN/TNNNNNN	ATTTTCATGTGGGCTT TCAC	TGAACCATGCTTTTCC ACAA	59.8	622	INTERGENIC	--	--	--
Ca4_P1_46384693	Ca4	46384693	T/TCCCTATAAAAA	GAGGAGGGTGGAGAA TGGAT	GGGTGCCTGGTACAA AACTC	60.3	708	INTERGENIC	--	--	--
Ca4_P1_46386159	Ca4	46386159	ATT/ATTT	GAGGAGGATGTCCTA AGCC	AGAATCCAATGCTCCA CAGG	60.0	779	INTRON	Ca_19274	--	Dof
Ca4_P1_46495777	Ca4	46495777	ATATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTAT/A TATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTAT TTAT	GAGGCTTCATTCTCT CGTG	TGAATTGGTGGATCAA TGAAAA	60.0	478	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_46496090	Ca4	46496090	TAAAAAAAAA/TAAAAAAAAA	AAAGTGGGTCAACTT TTTGAA	TGTCAAGGAGACCCAC CACT	59.9	481	INTERGENIC	--	--	--
Ca4_P1_46508599	Ca4	46508599	AATATATATATATATATATATA/AAT ATATATATATATATATA	AAAGGGGAGATTGT TGGG	CAAAGCTCTTTCATAA TTGTCTTGA	60.0	492	INTERGENIC	--	--	--
Ca4_P1_4651023	Ca4	4651023	GTTTTTTTTTTTT/GTTTTTTTTTTTT	CCACGCACATCAATCA TACC	TGTGTCGTAAACTTG TTGCTTT	59.8	467	INTERGENIC	--	--	--
Ca4_P1_46524540	Ca4	46524540	AATATATATATATATATAT/AATATA TATATATATATAT	CCTAATTACCATTGAC CGTGG	TGGCGATCAAGTAGGA CCTC	59.2	479	INTERGENIC	--	--	--
Ca4_P1_46537753	Ca4	46537753	TATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATAAT ATAATAATAATAATAATAATAATAA ATAATAATAATAATAATA	CAGCGAAATGTTAAGT GCTTTT	CGTTCTCTCTCCCTT CCTC	58.6	610	INTERGENIC	--	--	--
Ca4_P1_46560817	Ca4	46560817	CAAAAAAAAA/CAAAAAAAAA	ACCATTTCCTGATTTT GCG	ATGAGGAGGATGTCA GCCC	59.9	838	INTERGENIC	--	--	--
Ca4_P1_46581335	Ca4	46581335	TAAAA/TAA	AGTCCCATGTAATTG TCACG	TGAAAGGATCTATGAT TTCCCTC	59.7	544	INTERGENIC	--	--	--
Ca4_P1_46581610	Ca4	46581610	CAATAATAATAATAATAATAATAAT AATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATAA TAATAATA	CGTCCTCGAAACTAAG AGGAAA	TTTCGAAGAAGGCGAT AACAA	59.9	993	INTERGENIC	--	--	--
Ca4_P1_46674801	Ca4	46674801	A/AG	GGATGACTCGAAACGG TGTT	TTACCCAAAACCCCAA ATCA	60.0	667	INTERGENIC	--	--	--
Ca4_P1_47188403	Ca4	47188403	TTATATATATATATATATATATATAT TTATATATATATATATATATATATAT AT	ACGTCCACTGATTGGT CACA	ACAATAGCGCAATGCT CGTT	60.0	583	INTERGENIC	--	--	--
Ca4_P1_47193005	Ca4	47193005	TTTAT/TTTATTAT	CAATGTGGGTGAATTT GCTG	GATTCTGGCAAATTCG TCGT	60.0	287	INTRON	Ca_10862	--	--
Ca4_P1_47238699	Ca4	47238699	ATTT/ATT	TTTTGATCGAATCTGA CCCA	TCGGCCATTTTCTTC AATC	59.0	659	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/P)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_47240338	Ca4	47240338	AATATATATATA/AATATATATA	AAAGCTTAATTGTCGT GCATCA	TAGTTTGGAGCGAGGA GGAA	59.8	352	INTERGENIC	--	--	--
Ca4_P1_47245879	Ca4	47245879	TAATAAATAAATAA/TAATAAATAAAT AAATAAA	CAACGGGAGTTTGACC ACTT	TAAACATCTCCCGAC GACA	60.0	542	DRR	Ca_10857	--	B3
Ca4_P1_47247172	Ca4	47247172	CCTTTTCTTTCTTTT/CCTTTT	GCGTTGGGAAATACCA AGAA	GCCAAACAACACAAGC ATGA	59.9	663	DRR	Ca_10857	--	B3
Ca4_P1_47247298	Ca4	47247298	ATTTT/ATTT	GCGTTGGGAAATACCA AGAA	GCCAAACAACACAAGC ATGA	59.9	663	DRR	Ca_10857	--	B3
Ca4_P1_47249263	Ca4	47249263	GAAA/GAA	TTCTCTTCTTCTACG GCCA	TCAAAATTGATTCCAA CCTCA	59.9	663	DRR	Ca_10856	--	B3
Ca4_P1_47250438	Ca4	47250438	ATTTATTTATTTATTTATTTATTT TA/ATTTATTTATTTATTTATTTAT TTTATTTTA	GCAGAAATTCAGGAT GAATGA	AGTGCCACTCGCTTGA TTCT	59.2	725	INTERGENIC	--	--	--
Ca4_P1_47306163	Ca4	47306163	AATATATATATATATATATAT/AAAT TATATATATATATATATATATAT	GCAATATCGGTCAAT CATCA	GCATGGAGAAATTGGA AGGA	58.4	545	INTERGENIC	--	--	--
Ca4_P1_47410517	Ca4	47410517	CAAAA/CAAA	TTCTAACGCAAGGCA GGTT	GAAGCTATGGTGAG ACCCA	59.9	304	INTERGENIC	--	--	--
Ca4_P1_47437962	Ca4	47437962	CATTGATTGATTGATTGA/CATTGATT GATTGA	CTTGACGTAAATTGCA TGGC	TGACTTTGGAGCTTGG ACCT	59.2	263	INTERGENIC	--	--	--
Ca4_P1_47441910	Ca4	47441910	ATTTTTTTT/ATTTTTTT	AAAGCATCAAAACCAC GAAG	AGTGTGATTTTGCTCC CACA	60.1	557	DRR	Ca_10843	U	--
Ca4_P1_47442661	Ca4	47442661	AATATATATATATATATATATATATA T/AAATATATATATATATATATATAT ATATAT	TGTGGGAGCAAAATCA CACT	GACGATCAAAATCGGAA GAAAA	59.1	688	DRR	Ca_10843	U	--
Ca4_P1_47470984	Ca4	47470984	CTATATATATATATATAT/CTATATA TATATATATAT	GACTTATTTAGTGTGG ACCGTGG	ATGCATCCCAGCATAT CAAA	59.8	301	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_47533268	Ca4	47533268	ATTTTTTTT/ATTTTTTTT	CAAAGGAGATTGAAGA GGCG	TTAAGCGGTTTGTAC CAAC	59.9	621	DRR	Ca_10834	R	WRKY
Ca4_P1_47565027	Ca4	47565027	AAGAGAGAGAGAGAGAGAGAGAG AGAGAGAG/AAGAGAGAGAGAGAGAG AGAGAGAGAGAGAG	AGAAAATTGGGGAAT TTGG	CGTGACAAAGATCGT GATG	60.0	570	INTERGENIC	--	--	--
Ca4_P1_47604845	Ca4	47604845	GTTTTTTTTT/GTTTTTTTTT	CGGGTGGACATTCTTT TCAT	GAGCGAATATAATTGT TTGTGG	59.8	446	INTERGENIC	--	--	--
Ca4_P1_47669226	Ca4	47669226	AG/A	GATTCACCCAAAGTGG GCTA	AGCTGCTAAATCTCC GTCA	59.9	611	INTERGENIC	--	--	--
Ca4_P1_47685774	Ca4	47685774	A/AGGTT	AGTCAGACGCTACTCG GCAT	CCGACGAAATAAGTCC CTCA	60.0	837	INTERGENIC	--	--	--
Ca4_P1_47705093	Ca4	47705093	C/CG	TTCGCATCCGTATCAA ATCA	TCACCCCATGAAGAT ATGAGC	60.0	269	INTERGENIC	--	--	--
Ca4_P1_47723484	Ca4	47723484	ATTTTTTTTT/ATTTTTTTTT	TGCGGATCGCTCAATT TTAC	CCCTTGCCACTACACC TTGT	61.1	715	INTERGENIC	--	--	--
Ca4_P1_47755689	Ca4	47755689	CTTTTTTT/CTTTTTTT	TTTTCTTTTGGTGGAT TGG	TGTGCAACTTTCTCAC CCAG	59.8	480	INTERGENIC	--	--	--
Ca4_P1_47767559	Ca4	47767559	TATAATAATAATAATAATAATAATA ATAATAATAATAA/TATAATAATAATA TAATAATAATAATAATAATAATAAT AA	GTCTGGTCTGGTCTGG GAAA	TTTCGGTTGGTTTGC TTAC	60.1	636	INTERGENIC	--	--	--
Ca4_P1_47793461	Ca4	47793461	TATAAAATAAAATAAAATAAA/TATAA ATAAAATAATAAA	TGTGCCAATGGATTGA GAAAT	CTGCAAGCACGTATGC CTTA	60.3	396	DRR	Ca_10815	C	--
Ca4_P1_4779910	Ca4	4779910	ATTTTTTTTT/ATTTTTTTTT	AATTCGTGAATGGACA TTGATT	TTTCGTATTCTTTGCC GAAT	58.3	695	INTERGENIC	--	--	--
Ca4_P1_4784534	Ca4	4784534	ATTTTTTTTT/ATTTTTTTTT	CCCTTCGGAAGACCAC ATAA	TTCAATTTCTTACCCC GTTCA	59.9	657	DRR	Ca_03778	K	G2-like

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_47848250	Ca4	47848250	TAAAAAAAAA/TAAAAAAAAA	GACGGTGTTTGTAGCA GCAG	TTTCTTCCCTTTTG GGTT	59.5	273	INTERGENIC	--	--	--
Ca4_P1_47895561	Ca4	47895561	ATTT/ATTTT	AAAGGAGGCTAAATTC AAGAACCC	AAAGAATGATCAAACG CAAGG	59.2	317	DRR	Ca_10803	S	--
Ca4_P1_47936613	Ca4	47936613	AT/A	TTTGATACTATTGCG GAAGTTT	CCGTCAGTCAATTC CTTT	57.2	457	INTERGENIC	--	--	--
Ca4_P1_47940203	Ca4	47940203	TATTAATTA/TATTA	TATGGTGGTCGGAGTG ATGA	TAATTGCAAGTCATTG CCCA	59.9	115	INTRON	Ca_10795	--	ARF
Ca4_P1_47961030	Ca4	47961030	TG/T	CAAATTTATAACGATTC TCTCACAAA	GCAATGCATAGAGCA GCAA	58.0	270	DRR	Ca_10794	--	ARF
Ca4_P1_47961387	Ca4	47961387	TG/T	GCTGCTCTATGCATT GCTG	GAGCATGGACGTTTG GATTT	59.7	527	DRR	Ca_10794	--	ARF
Ca4_P1_47961570	Ca4	47961570	ATTTTTTTTT/ATTTTTTTT	TCCATGCATTCAAGAG CAAG	GAGCATGGACGTTTG GATTT	59.9	318	DRR	Ca_10794	--	ARF
Ca4_P1_47961712	Ca4	47961712	ATTT/ATT	TCCATGCATTCAAGAG CAAG	GAGCATGGACGTTTG GATTT	59.9	318	INTERGENIC	--	--	--
Ca4_P1_47962009	Ca4	47962009	ATTTTTTT/ATTTTTTTT	GAAATCCAAACGTCCA TGCT	CCACCAATCACATCAA CTCG	59.9	550	INTERGENIC	--	--	--
Ca4_P1_47966378	Ca4	47966378	CTTTTTTTTT/CTTTTTTTT	AGCAAATGGGAACCT TGTG	CGAGAAACCCATGAG GAAAA	60.0	361	DRR	Ca_10792	--	B3
Ca4_P1_47981505	Ca4	47981505	TCAATGGGA/T	TTCTGCATTGATGTGG AGGA	TGAGCCGTCATATTGT GTGA	60.2	381	INTRON	Ca_10790	U	ARF
Ca4_P1_47982618	Ca4	47982618	TTTTTATTTTATTTTATTTT/TTT TTATTTTATTTTATTTT	CCAAACCTCAAATCAAAT GGG	CAAATGAGAATTTCT GGGCA	60.2	483	INTRON	Ca_10790	U	ARF

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_47982672	Ca4	47982672	TC/TCC	CCAAACTCCAATCAAAT GGG	CAAATGAGAATTTCT GGGCA	60.2	483	INTRON	Ca_10790	U	ARF
Ca4_P1_47983864	Ca4	47983864	CTATATAT/C	GCTTTGTTTCCATAAG CCCA	GGACCTCTTTCTACCC CTGG	60.1	332	INTRON	Ca_10790	U	ARF
Ca4_P1_47985512	Ca4	47985512	G/GGTC AATATTGTAA	ATGGGAAGGGAGCTT TTGT	TTTGATACTATTTGC GAAGTTT	59.9	383	INTRON	Ca_10790	U	ARF
Ca4_P1_47989970	Ca4	47989970	CTAA/CTAATTAA	TGGCTAAGTTGCCAAA GTTTA	TGAGTGTGCAAGCATT TCAA	57.7	194	INTERGENIC	--	--	--
Ca4_P1_47991117	Ca4	47991117	GTTTTTT/GTTTTTTTT	ATTAGCCACGACGATG GTTT	TGGTGTACATGTAGGC GTGC	60.0	564	DRR	Ca_10789	--	B3
Ca4_P1_48019545	Ca4	48019545	AATATTTATTTATTTATTTATTTATTT TATTT/AATAATTTATTTATTTATTT	AAGCAACCCGTTATT TGTG	TTCGTACCATACCGGC AGAT	59.9	588	INTERGENIC	--	--	--
Ca4_P1_48021995	Ca4	48021995	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA	AGACAAAAGGGGAAT TTGG	ATGCCACCAAGCCTAA TCAC	60.2	896	INTRON	Ca_10786	V	NAC
Ca4_P1_48065584	Ca4	48065584	ATATCTTA/ATA	TTCAATTTGTTGCGTG CATT	CCAACTTGAGATGAGC CACC	60.1	312	INTERGENIC	--	--	--
Ca4_P1_48074355	Ca4	48074355	TG/T	GGTCGACATGACATCA CTAAATG	AGTGTCAAAGGGGA GGAAG	59.4	601	INTERGENIC	--	--	--
Ca4_P1_4808010	Ca4	4808010	GATTGCAGTCTC/GATTGCAGTCTCAT TGAGTCTC	CATGTAAATTGGATG CCCC	GAGACTAAACCCACCC GTCA	60.0	774	INTERGENIC	--	--	--
Ca4_P1_48115647	Ca4	48115647	AATATATATATATATATAT/AATATA TATATATATATAT	TCCTTCATATCCCACG AACC	TGGTGTGGAGTCATG CTTT	59.8	290	INTERGENIC	--	--	--
Ca4_P1_48116724	Ca4	48116724	AATATATATATATATA/AATATATATAT ATATATA	TTTGACGTTCGAAAA CCAC	ATGGAACAATCGGACA CCAT	58.6	433	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_48196964	Ca4	48196964	AATATATATATATAT/AATATATATATATATAT	GGGTTTTACCTAGAC GGTGA	TCATGACATGGCGTGG TAGT	58.1	709	INTERGENIC	--	--	--
Ca4_P1_4819702	Ca4	4819702	ATGTAGT/AT	AGCCAGCTGACACCTC ATTT	TTAGCTGGCCATATGG TTCC	59.9	553	INTRON	Ca_03777	O	FAR1
Ca4_P1_48203210	Ca4	48203210	AAT/AATAT	TCCAACGGCTCTCATA TCCT	GGTTATGGCCAAACAT GGTAA	59.7	921	INTERGENIC	--	--	--
Ca4_P1_48204819	Ca4	48204819	T/TAA	AAAGAGGAAGAGGGCA AAGG	GCAAACCCGATAGAG AGGG	59.8	425	INTERGENIC	--	--	--
Ca4_P1_48206970	Ca4	48206970	CAGATAAAAG/CAG	ATCGAATGTGCATCGT GAAG	CAATAAGGATAAGGGG CGGT	59.7	631	INTERGENIC	--	--	--
Ca4_P1_48207508	Ca4	48207508	AGATATAGT/A	CCGCCCTTATCCTTA TTGT	TTTCAAGCAGCTAAAA CGCA	60.2	568	INTERGENIC	--	--	--
Ca4_P1_48212976	Ca4	48212976	TAAAAAAAAA/TTAAAAAAAAAAAA	AAGAGGCTAATTGTGG CATCA	AATCAATCCTCGGGT TTCA	59.7	777	INTERGENIC	--	--	--
Ca4_P1_48214036	Ca4	48214036	AATATATATATATATATATATATAT/ATATATATATATATATATATATAT	CATAACCCTCCTCACC CACC	TGAGTTCGAGGGGTC ATTTTC	60.1	616	INTERGENIC	--	--	--
Ca4_P1_48214303	Ca4	48214303	CAA/CA	TCAATTGATGATGACG GTGAA	TGAGTTCGAGGGGTC ATTTTC	59.9	245	INTERGENIC	--	--	--
Ca4_P1_48214982	Ca4	48214982	GAAT/GAATTAAT	ATGCTTTCAAACATCATC GCC	CCATCGGATAGGTCAG AACC	60.2	525	INTERGENIC	--	--	--
Ca4_P1_48216580	Ca4	48216580	GAAA/GAA	ATGGATGTGGGTATGG AGGA	CACGTCAATGTCATCT TGCC	60.0	518	INTERGENIC	--	--	--
Ca4_P1_48218291	Ca4	48218291	ATT/ATTT	GATTTAAGGAGCGCAA CAAA	CGAGTGAGTGCAGCT GGTTA	58.0	929	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_48222166	Ca4	48222166	AAAAATAATAATAATAATAATA ATA/AAAAATAATAATAATAATA	GCCACCACTGGAGCAT AGTT	TGGATTAAGGCAATTA AAAGGG	60.1	580	INTERGENIC	--	--	--
Ca4_P1_48222325	Ca4	48222325	T/TA	GCCACCACTGGAGCAT AGTT	TGGATTAAGGCAATTA AAAGGG	60.1	580	INTERGENIC	--	--	--
Ca4_P1_48223068	Ca4	48223068	AC/A	CCCGAAGTAGAGTGAT GACAAA	AACAAGGCGAGACAA GGCTA	59.2	479	INTERGENIC	--	--	--
Ca4_P1_48225858	Ca4	48225858	GTTGCAAA/GTTGCAAAAAATTGCAA	TGCACAACCTGCACCTT TCAC	CCATACCCCCCTTTT CTTT	60.9	599	DRR	Ca_10766	--	DBB
Ca4_P1_48227983	Ca4	48227983	TTCTCT/TTCTCTCT	AAATTCGATCTCGGCA GCTA	AGACATGGATTGCGCA CTTC	59.9	594	INTERGENIC	--	--	--
Ca4_P1_48230328	Ca4	48230328	A/AC	TCCTTGAGGGACCAGG ATAA	ATTGTGGATTTTGTGT CGCA	59.5	431	INTERGENIC	--	--	--
Ca4_P1_48234625	Ca4	48234625	TAATATTCAGCTGTCAATATTC/TAAT ATTCA	GACATGACAACCAGT TTGC	AATTCGGCCAATCCTC TTTT	60.0	569	DRR	Ca_10764	--	--
Ca4_P1_48243356	Ca4	48243356	CCTTCT/CCT	TGCATTTGTTGGACGC TTAG	AAATCGATAGTTTGG CCCC	59.9	601	INTERGENIC	--	--	--
Ca4_P1_48246550	Ca4	48246550	GA/GAA	TCCAAGATGTTGTCGG TTGA	GAAATTCGGCGATGT TGAT	60.1	884	INTERGENIC	--	--	--
Ca4_P1_48260072	Ca4	48260072	CATATA/CATA	GGTGATCCCCAAGCT ACAA	ATGCAACAAAATGGC AACA	59.9	257	INTRON	Ca_10761	K	B3
Ca4_P1_4826016	Ca4	4826016	AT/A	GGATTGATTGCAGTTC CAAAA	GGCAAAATGCCTTTAG ACCA	59.9	445	DRR	Ca_03777	O	FAR1
Ca4_P1_48260228	Ca4	48260228	GT/GTTTTAAGTT	TGTTGCCATTTTGTTC CAT	ACCTGCACCACAAGAA AACC	60.0	635	INTRON	Ca_10761	K	B3

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_48260377	Ca4	48260377	TGG/TGGG	TGTTGCCATTTTGTTC CAT	ACCTGCACCACAAGAA AACC	60.0	635	INTRON	Ca_10761	K	B3
Ca4_P1_48265231	Ca4	48265231	ATTT/AT	TTTTTGGACCCATGT ATGTC	TGTTGCCGTTGTGTG AAAT	59.5	910	DRR	Ca_10761	K	B3
Ca4_P1_48277169	Ca4	48277169	T/TG	ATGGCGTTTTCTGGT ATTG	TAAGACGACACGACCC ATCA	59.9	637	INTERGENIC	--	--	--
Ca4_P1_48277827	Ca4	48277827	TCACACACACACA/TCACACACACACA	TGATGGGTCGTGTCG CTTA	CGAGTTCAAATCCGGA ACAT	60.1	828	INTERGENIC	--	--	--
Ca4_P1_48278382	Ca4	48278382	CGAGAGA/CGAGA	ATGTTCCGGATTGAA CTCG	ACCAACGACGAGATAG GGTG	59.9	604	INTERGENIC	--	--	--
Ca4_P1_48278655	Ca4	48278655	ATTTTTTTTT/ATTTTTTTTTTT	AATAGCAATGCCAGG TTTG	ACCAACGACGAGATAG GGTG	60.0	297	INTERGENIC	--	--	--
Ca4_P1_48280011	Ca4	48280011	ATTT/ATT	TCCCAATAATCAAAAT AGCG	GCGTCGTTGCTAGTC ACAA	59.9	878	INTERGENIC	--	--	--
Ca4_P1_48292143	Ca4	48292143	ATTTTTTTTT/ATTTTTTTTTTTTT	AATAATTGGGGAGTCT GGGG	AACAATTGCTTGACAG ACTG	60.0	660	INTERGENIC	--	--	--
Ca4_P1_48293271	Ca4	48293271	ATTC/ATTCTTC	CATGTCATGGGAAC CAACT	GTTTCGGTCGAAATGA CGAT	59.8	560	INTERGENIC	--	--	--
Ca4_P1_48293404	Ca4	48293404	CA/CAGTTA	TCCCATGAGGCATATC AAGA	GTTTCGGTCGAAATGA CGAT	59.0	459	INTERGENIC	--	--	--
Ca4_P1_48297107	Ca4	48297107	AAATTTTAAT/AAATTTTAATTTAAT	AACAAACACATTTGTG GCGA	TTCTGACTGTTTAGGC CGCT	60.0	678	DRR	Ca_10759	--	--
Ca4_P1_48300292	Ca4	48300292	AT/A	ACTTATTTTGGGGTCT GCCA	GCCATTGAGAAGCTCC TTTG	59.4	660	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_48304435	Ca4	48304435	TTAC/TTACAGAATAAACTAC	CAGTGGTTTTGGAAC TCGC	GGCAACGGCTGTGTT ATTA	60.7	257	DRR	Ca_10757	B	C3H
Ca4_P1_4830820	Ca4	4830820	TTTATACATT/TTT	AAATGATGAAGGGGAA AGGG	CAACGGTTTACATGAA TTGGG	60.1	815	INTERGENIC	--	--	--
Ca4_P1_48308452	Ca4	48308452	CTTTT/CTTT	ATCCGCCATTGATCCC TTAC	ATTGGGACGCGAATAC AAAA	61.0	207	INTERGENIC	--	--	--
Ca4_P1_48309823	Ca4	48309823	CAAATTTAAATTT/CAAATTT	TGCCTCCACAAACGTC ATTA	TGAAAACCTAATCTC CGCA	60.1	832	INTERGENIC	--	--	--
Ca4_P1_48310613	Ca4	48310613	TGAGAGAGAGAGAGAGAG/TGAGA GAGAGAGAGAGAGAGAGAGAG	CAATGTTCAAACGCA CCGT	CAGATTCCACCCAAGG TCAA	59.6	706	INTERGENIC	--	--	--
Ca4_P1_4831068	Ca4	4831068	TGAAG/TG	CACCGATTACCATTT AGCA	GGTTTTATTGCGCCAC AAAAT	59.5	980	INTERGENIC	--	--	--
Ca4_P1_48314680	Ca4	48314680	ATTT/ATTTTT	GTAATGCGTTTGACCT GCAA	ATAGGCGCATCTCAAT CACC	59.7	649	DRR	Ca_10756	--	BBR-BPC
Ca4_P1_48314877	Ca4	48314877	TA/T	TGCGCCTATCTCTCTG TGTG	TTCGATCCATTTTACC ACCC	60.2	365	DRR	Ca_10756	--	BBR-BPC
Ca4_P1_48316349	Ca4	48316349	TAA/TA	ACGAGCACCAAGAGG ACAT	TTTTACCAGTTGCAT CCTAAA	59.7	493	INTERGENIC	--	--	--
Ca4_P1_48318482	Ca4	48318482	AATA/AA	CAACATATTTGCGGTT ACCAA	CTCACCGTTTCACGTG ATTG	58.5	920	INTERGENIC	--	--	--
Ca4_P1_48323095	Ca4	48323095	AACACACACACA/AACACACACACACA	GCAGCCAAACGAGCTT AGAC	AATTGCAAAAATTCTG GCTG	60.0	515	DRR	Ca_10754	Q	GeBP
Ca4_P1_48323352	Ca4	48323352	CCAAACACAAACACAAACAC/CCAAAC ACAAACAC	TTTTCTGCAGCCGAAT TTTT	CATTTGAAATTGCTTT CCCC	59.8	625	DRR	Ca_10755	--	bZIP

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_48327298	Ca4	48327298	G/GT	TCCCTGTATGCATGAA CCAA	AAACCGGGAGGTGCT AGAAT	59.9	463	INTERGENIC	--	--	--
Ca4_P1_48330370	Ca4	48330370	AC/A	GCAAAGGAGCTTCTCA ATGG	GCATCAGGAACAACCA TCCT	60.0	617	INTRON	Ca_10753	J	--
Ca4_P1_48332704	Ca4	48332704	GTTTTT/GTTTTTT	GACCAATCCTTCGAGG AACA	AACTGGCAGATTATC ACACC	60.1	750	DRR	Ca_10753	J	--
Ca4_P1_48332874	Ca4	48332874	C/CAA	TTAGCTGTGGAAGGGC ATTT	AACTGGCAGATTATC ACACC	59.7	590	DRR	Ca_10753	J	--
Ca4_P1_48335941	Ca4	48335941	TA/TAAA	CATGCACTCCATGTTT TTGG	CAGTCATGTGAACCAC CCAC	60.0	493	INTERGENIC	--	--	--
Ca4_P1_48336369	Ca4	48336369	TTAT/TT	GTGGGTGGTTCACATG ACTG	TCCTTAAATTATAGG TGCCCG	59.8	374	INTERGENIC	--	--	--
Ca4_P1_48336651	Ca4	48336651	CTT/CTTTTT	GGAGAGCTTAGTTGGT TAATTGG	GTGCCTCTGTTGATGC TTGA	58.4	454	INTERGENIC	--	--	--
Ca4_P1_48340439	Ca4	48340439	ATTTTT/ATTT	TACGGCGGGCAATAAA AATA	AAAGGAAATCAAATGG CTCA	60.3	195	INTERGENIC	--	--	--
Ca4_P1_48341269	Ca4	48341269	TGG/TGGG	AACATTGATTTTGACGT GAGAAGA	TCGTTGTTGCACTATC CCAA	60.0	418	INTERGENIC	--	--	--
Ca4_P1_48342630	Ca4	48342630	TTA/TTACATA	GGGGCTTTTGTATACC CATT	TTTGCTTACAATATATT TGTGTCATTT	60.0	461	INTERGENIC	--	--	--
Ca4_P1_48345654	Ca4	48345654	T/TCA	GGTACGTTTCGCTCTCT GAGG	AGCAGCTTGCAACTTC ACAA	60.0	148	INTRON	Ca_10752	--	--
Ca4_P1_48351278	Ca4	48351278	TAATTCCAATTCCAATT/TAATTCCAAT TCCAATTCCAATT	GACACGTGATGTCTCT GTAATGG	AATGTATGTATCGAGA GCGCC	59.5	651	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_48366728	Ca4	48366728	A/AGAG	CAAGGGCTGGATTGTTGT	TTGGCTTTACACTTGGTCCC	60.0	673	DRR	Ca_10750	A	bHLH
Ca4_P1_48367765	Ca4	48367765	ATTT/ATTTT	CTGGTGCACTATCGCAAAC	CCAACACTTGCAATAAAGTGAA	59.3	418	INTERGENIC	--	--	--
Ca4_P1_48380924	Ca4	48380924	C/CCATACATACA	AATTGACCCCGTCTTTTGAA	GAAGAACCAACACATGCCA	59.4	605	DRR	Ca_10748	--	ARF
Ca4_P1_48389863	Ca4	48389863	TC/T	CCGTTTTCCACATTTTCGAT	CCATCAAATTCATCCACCAA	59.8	522	INTERGENIC	--	--	--
Ca4_P1_48393205	Ca4	48393205	AAATTTCTAAATTT/AAATTTCTAAATTTAATTTCTAAATTT	TTGGGAATATGTCATGCGTC	GACCACGCCACACTTTAGGT	59.4	760	INTERGENIC	--	--	--
Ca4_P1_48395017	Ca4	48395017	ATTTTTTT/ATTTTTTTATTTTTTTT	GCGACGCTCAAGTTTGGAT	CAAAAAGTATGCACCGTATTTTGA	60.3	207	INTERGENIC	--	--	--
Ca4_P1_48395750	Ca4	48395750	ATTTTTTTT/ATTTTTTTTTT	AATTCGGACCTTTCCACTTTT	TGTATGATAAGGGCTTCGCC	59.0	479	INTERGENIC	--	--	--
Ca4_P1_4839788	Ca4	4839788	A/ATTTTT	ACGTAATACTTTGTGGCGGC	TCTCTCCTTTGTGACGGCTT	60.0	138	DRR	Ca_03775	--	--
Ca4_P1_48398628	Ca4	48398628	GTATA/GTATATA	ATGGCCCAATTAAGCTTTGA	CTGTTCTTGCGTGACCTTCA	59.5	565	INTERGENIC	--	--	--
Ca4_P1_4840884	Ca4	4840884	AC/A	TTGGGCCTTTGTGGAGTAAG	TACCAAGTGGTGATGTGG	60.1	496	DRR	Ca_03775	--	--
Ca4_P1_48410907	Ca4	48410907	ATTT/ATT	CACCGTCCAAATTATGCCTC	TGAGAACGTGCGACCTGTAG	60.3	518	INTERGENIC	--	--	--
Ca4_P1_48414216	Ca4	48414216	CATAT/CAT	ATGAGCATAGCATGTGCCAG	GCATGGTTATCGGCTGATTC	59.9	418	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca4_P1_48414921	Ca4	48414921	GTTT/GTTTT	TTGAATGTGAATGGT GCAT	AAACCGAACAAATCAA TGCC	59.8	513	INTERGENIC	--	--	--
Ca4_P1_4842046	Ca4	4842046	AAATAATAATAATAAT/AAATAATA ATAAT	TGAGAAGAAGGGGCTT AGCA	CGAGGAGGTTATTGG CGTAA	60.1	754	INTERGENIC	--	--	--
Ca4_P1_48430726	Ca4	48430726	TTTATTATTATTAT/TTTATTATTAT TAT	GCTAAACTGAGTCGT CCCG	ATGGGATGGGACAAAA CAAA	59.9	639	INTERGENIC	--	--	--
Ca4_P1_48434508	Ca4	48434508	TGCGC/TGC	GGTGAGAGTAGGTGG GGACA	TCTGGCAAATGAAATG GAAA	60.0	112	INTERGENIC	--	--	--
Ca4_P1_48435268	Ca4	48435268	A/AG	TTGCAGTTGAATTCG AAAGAA	TGATGTGATCCTAGGG TGAAGA	59.9	610	INTERGENIC	--	--	--
Ca4_P1_48440014	Ca4	48440014	AGGT/A	ATGTTGCGGGTTTGAT CTTC	TGGCAAGAATACCTTG TAAACAAAT	59.9	412	INTERGENIC	--	--	--
Ca4_P1_48440263	Ca4	48440263	GTTTTT/GTTTTTTT	ATGTTGCGGGTTTGAT CTTC	TGGCAAGAATACCTTG TAAACAAAT	59.9	412	INTERGENIC	--	--	--
Ca4_P1_48440600	Ca4	48440600	GTT/GT	TTTGTTTACAAGGTATT CTTGCCA	GTCAATTGCACCTTTC CCAT	59.9	567	INTERGENIC	--	--	--
Ca4_P1_48442756	Ca4	48442756	TTATATATAT/TTATATAT	CTGATCCATTTCATGGT GTGG	TCAATTCTCTCCATCC CTCAA	59.8	499	INTERGENIC	--	--	--
Ca4_P1_48443075	Ca4	48443075	ATTT/ATTTT	CCGGTTGTTAGCTTGT TTGC	CAATAGGATGGATGGT TGGG	60.7	609	INTERGENIC	--	--	--
Ca4_P1_48443839	Ca4	48443839	AT/A	TGCCATAACTTTGAAAA ATTGC	GAGTTTGAGAAGTGCA GGGC	59.2	955	INTERGENIC	--	--	--
Ca4_P1_48444234	Ca4	48444234	TAAAA/TAAAAA	TGTCTTATGCAAAATA GAGAGACCA	GAGTTTGAGAAGTGCA GGGC	59.4	350	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_48450705	Ca4	48450705	GTATATATATATATATATATATATAT /GTATATATATATATATATATATATA TATATATAT	AATTGGTAACAAGCTC GTAATTG	CTGGACCAGAGGCATT CATT	57.5	619	INTERGENIC	--	--	--
Ca4_P1_48454259	Ca4	48454259	CTTTT/CTTT	TTGCTTTTCTACCAC CACC	CAGCAGAGTCCAATTC AGCA	60.0	376	INTERGENIC	--	--	--
Ca4_P1_48460211	Ca4	48460211	TATACACAATAACAA/TATACAA	TTGTGCTCGTCAAACA AACG	TTTCAGGGATTAAAT GACGG	60.9	744	DRR	Ca_10747	--	--
Ca4_P1_48461232	Ca4	48461232	TAGAG/TAG	TGCAAAGTTCGATCG AATAA	AATTTCCTACCACCAC CCAC	60.6	483	INTERGENIC	--	--	--
Ca4_P1_48462658	Ca4	48462658	GTATATATATAT/GTATATATATATAT	ACGTAACCGTTAATCG ACGC	TTTCCCGTTACAAACA AAACAA	60.0	689	INTERGENIC	--	--	--
Ca4_P1_48465859	Ca4	48465859	GTTTTTTTTTTT/GTTTTTTTTTTT	TGTGTGTCTCAGTGGT GGGT	GCCTTTCCTTGACAGT CTGC	60.0	619	INTRON	Ca_10746	LA	--
Ca4_P1_48467313	Ca4	48467313	TAG/TAGAG	CTATTTGCGTCTTTTCC CCA	ACGTGAACTTTTTGTT GCCC	60.1	202	INTRON	Ca_10746	LA	--
Ca4_P1_48483695	Ca4	48483695	ACT/A	CCTTGCTTATCCAACC CAGA	GCAAGAATCCCCGTGA TAAA	60.1	311	INTERGENIC	--	--	--
Ca4_P1_48493736	Ca4	48493736	CAA/CAAA	AGGCACATGAGCAACA TTGA	TTGGCAGTTTTTGTC ACCA	60.3	606	INTERGENIC	--	--	--
Ca4_P1_48494467	Ca4	48494467	TTTAATT/TTTAATTATGTTAATT	TGGTTGACAAAACTG CCAA	ACTGGACCCCAACCT CTCT	60.1	664	INTERGENIC	--	--	--
Ca4_P1_48501359	Ca4	48501359	GACA/GA	TACCTGGTATTCACGG AGCC	AAATGAATGTGTTAGG CGGC	60.0	915	INTRON	Ca_10741	J	E2F/DP
Ca4_P1_48502501	Ca4	48502501	GCATTAAGAC/GC	AGTGCAGCAGCAGCAA TTTA	TTGATATGTTTGGTGG CCTT	59.8	478	INTRON	Ca_10741	J	E2F/DP

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_48509401	Ca4	48509401	GAAAA/GAAAAA	ACTGTCGAGCATAAAT GGGG	CGATCGACCCGAAC AAAC	60.0	472	INTERGENIC	--	--	--
Ca4_P1_48515945	Ca4	48515945	GC/G	CAAATTC AATTCCAAG CTGACA	CAAAATAGTTTGACAC ATCTAGTGCAT	60.1	531	INTERGENIC	--	--	--
Ca4_P1_48516972	Ca4	48516972	CTCT/CTCTTCT	TGTCCACAAGAAACA TGACA	ACGTGTAGTTTCTCC ACCG	60.0	560	INTERGENIC	--	--	--
Ca4_P1_48517102	Ca4	48517102	AAGAAACA/AAGAAACAACAGAAACA	CTCACATCCTTGCCCTC AACA	ACGTGTAGTTTCTCC ACCG	59.8	340	INTERGENIC	--	--	--
Ca4_P1_48518146	Ca4	48518146	CT/CTTT	TGGTGGTTGACCACAA AAGA	CCACACTGATCACAA CACA	60.0	606	INTRON	Ca_10740	--	C2H2
Ca4_P1_48518404	Ca4	48518404	CTT/CTTT	TGGTGGTTGACCACAA AAGA	GCATGACGAACAGCTT GATG	60.0	660	INTRON	Ca_10740	--	C2H2
Ca4_P1_48520535	Ca4	48520535	GAGGGATAA/GAGGGATAAGGGATAA	ACCCACCAAAAGAACA GTGC	TCTCCACTATGTTCCG ACCC	60.0	928	INTRON	Ca_10740	--	C2H2
Ca4_P1_48522137	Ca4	48522137	TTTATTATTATTATTATTATT/TTTA TTATTATTATTATTATTATT	CATTGCAATCGGCCTC TATC	TCCCACTTTCACTTG GGTC	60.6	657	DRR	Ca_10740	--	C2H2
Ca4_P1_48541135	Ca4	48541135	TAAAAAAAAAAAA/TAAAAAAAAA	AATTCACACGTACG CTTC	GATGTTCTTGCTTGT GGCT	60.0	723	INTERGENIC	--	--	--
Ca4_P1_48547378	Ca4	48547378	TGAGAGAGAGAGAGAGAGAGAGA/ TGAGAGAGAGAGAGAGAGAGAGA GA	TGTGTGGTCCCAAAA GTCA	TCCAATTACCCACCAC CCTA	60.0	533	INTERGENIC	--	--	--
Ca4_P1_4855498	Ca4	4855498	CTGCTTGCTTG/CTGCTTG	CAGGATCTCTGCGG AATC	ATGCTTTTGTTTGGG TTGC	59.9	448	DRR	Ca_03773	--	--
Ca4_P1_48575054	Ca4	48575054	TGGGG/TGGGGG	GCAACAATTGAATCAA CCCC	CTTCATGAATTGCACC ATGC	60.2	705	CDS (FRAME SHIFT)	Ca_23007	P	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_48576925	Ca4	48576925	AT/ATT	ATCTCACCCCAAGACA ACCA	TCATTCCAGAAGGAGA TGGG	60.4	211	INTRON	Ca_23007	P	--
Ca4_P1_48577228	Ca4	48577228	A/AC	AACACATCCGGGATCC ATTA	TGATGACGAAGACGAA GACG	60.0	303	INTERGENIC	--	--	--
Ca4_P1_48651388	Ca4	48651388	AACTTTTAAGAGTACTTTTA/AACTTTT A	AAAACCACTCCAGACA TCGG	CTTGCAATACCCGCAA AGTT	60.0	682	DRR	Ca_23016	O	LBD
Ca4_P1_48658941	Ca4	48658941	CTTTT/CTTTTT	CCATAATCAAAATGCAA GATGTG	TGATTACGCTTGGA ACAA	59.4	636	INTERGENIC	--	--	--
Ca4_P1_48662498	Ca4	48662498	A/ATATATCAAAC	CGTTATAATATCGCGT TTTGATTAGA	AAATAAATAGCGCTGG CACC	59.8	609	INTERGENIC	--	--	--
Ca4_P1_48662786	Ca4	48662786	TAATAACAATAA/TAATAA	CAACATGTAGACCAAG TGGGG	AAATAAATAGCGCTGG CACC	60.3	216	INTERGENIC	--	--	--
Ca4_P1_48663015	Ca4	48663015	AAAA/AAAAATAAAAAATTGAAA	ATTAGACATTCGGGT GCCA	TATGTTAGTGCCACTG CCCC	60.3	571	INTERGENIC	--	--	--
Ca4_P1_48664333	Ca4	48664333	G/GGGTTGGAGGTAT	GTGCCGCATTCATCCT TAGT	AAACTGGTTGACGGGA TCTTT	60.1	504	INTERGENIC	--	--	--
Ca4_P1_48670108	Ca4	48670108	AAATATCT/A	TATCTCCATGGCGTCA CAAA	CTGCGCCGACTAACAA TACA	60.1	589	INTERGENIC	--	--	--
Ca4_P1_48670171	Ca4	48670171	AATTTA/AATTTATTTA	TATCTCCATGGCGTCA CAAA	CTGCGCCGACTAACAA TACA	60.1	589	INTERGENIC	--	--	--
Ca4_P1_48670468	Ca4	48670468	GATA/GATAAAATCTTATA	CTGTATTGTTAGTCGG CGCA	CCGACCCAACACGTTA TGA	59.9	620	INTERGENIC	--	--	--
Ca4_P1_48670668	Ca4	48670668	CATAT/CAT	CTGTATTGTTAGTCGG CGCA	TGACAATGTGGAATCG GAAA	59.9	812	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_48671006	Ca4	48671006	ATTTTTTTT/ATTTTTTTTTTT	GGTCGGCCCTGACTTT AGAT	TGACAATGTGGAATCG GAAA	60.5	198	INTERGENIC	--	--	--
Ca4_P1_48675486	Ca4	48675486	AT/ATT	AAAAGGAAATTGGCAC GTTG	CACCTTCATCATGCATC ACCC	60.0	702	INTERGENIC	--	--	--
Ca4_P1_48676406	Ca4	48676406	TAAAAAAAAA/TAAAAAAAAA	GGGTGATGCATGATGA AGTG	TAACTTGGTGGTGAT GGCA	59.9	707	DRR	Ca_23018	--	LBD
Ca4_P1_4868200	Ca4	4868200	TAAA/TAAAA	ATTGGTTTTGCTTTGA CCCA	CACCAATATTCCATT CCCG	60.3	423	INTERGENIC	--	--	--
Ca4_P1_48683487	Ca4	48683487	TAAA/TAAAA	GTGTTTGTCGATGAT TTGG	TGGCATCATAAATTTG TGTGTGA	60.0	200	INTERGENIC	--	--	--
Ca4_P1_48687183	Ca4	48687183	TTTACTTA/TTTACTTACTTA	TTCATAATTGCTGCAC CCTG	ATGGAACCCAATGATC CTGA	59.7	677	INTRON	Ca_23019	R	--
Ca4_P1_48692254	Ca4	48692254	GTGATAT/GTGATATGATAT	TCCCGACATTGTGGGT TAAT	TTGTGAAAATGTTGAT GGTCTTG	60.1	749	INTERGENIC	--	--	--
Ca4_P1_4869873	Ca4	4869873	CAA/CAAA	ATGGAAGCCTTGTTG TGAC	AAATGGTCCCAAACTG CAAG	60.0	635	INTERGENIC	--	--	--
Ca4_P1_4870497	Ca4	4870497	AC/ACC	ACTGCCTAGGTCACCA CCAC	AATGGCACACAATACC CCAT	60.0	142	INTERGENIC	--	--	--
Ca4_P1_4870551	Ca4	4870551	TC/TCGTGGCTGC	ACTGCCTAGGTCACCA CCAC	AATGGCACACAATACC CCAT	60.0	142	INTERGENIC	--	--	--
Ca4_P1_48711156	Ca4	48711156	T/TC	CTCTGGGCTGATCAGA AAGG	ACTCTTTGGGCCCTCA TTCT	59.9	229	INTRON	Ca_23021	U	--
Ca4_P1_48719311	Ca4	48719311	CAA/CAAA	TCAAAACCTTCTCCAC CAGC	AGGTCCCAGTGTTCTG CAAC	60.2	550	DRR	Ca_23022	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_48725994	Ca4	48725994	ATTTT/ATTT	AGGTGCGATTAGCAGC AAAA	TGTCGCAACTGTTGA TTGT	60.9	666	INTERGENIC	--	--	--
Ca4_P1_48740635	Ca4	48740635	CTTTTT/CTTTTTTT	TCAAGGAGGAATCCCA ACAG	TTACACCTGTGGCCAA TTCA	60.0	569	INTRON	Ca_23023	--	FAR1
Ca4_P1_48746264	Ca4	48746264	TA/TACCTCAA	CGTACTGCATCCATG AAACA	TCATCGCTGTCGTCAA ACTC	59.6	546	INTRON	Ca_23023	--	FAR1
Ca4_P1_4875484	Ca4	4875484	GC/G	AGCCTATGGCTTGGCC TATT	GCCTAAGCTTGACTTG TGGC	60.1	687	INTERGENIC	--	--	--
Ca4_P1_48759040	Ca4	48759040	GCC/GC	CATGGAATCATGTT AGTCGC	TTATGCAGCATGTCTC ACGTC	59.5	462	INTRON	Ca_23023	--	FAR1
Ca4_P1_48766746	Ca4	48766746	TAAAA/TAAAAA	ATATCCAGCCGTGTTT GCAT	TTCTCCCCACCACTAA CTCG	60.4	261	INTRON	Ca_23023	--	FAR1
Ca4_P1_48767304	Ca4	48767304	TTGTGTGTGTGTGTG/TTGTGTGT GTGTG	CGAGTTAGTGGTGGG GAGAA	TTGGAAGGAGCCTTTA CGTC	60.1	926	INTRON	Ca_23023	--	FAR1
Ca4_P1_48769666	Ca4	48769666	GTTTTTTTTT/GTTTTTTTTT	TTTCAATGAAGCCTAG TCCG	TTAAGGGTCCGCATGA TTGT	58.0	605	INTRON	Ca_23023	--	FAR1
Ca4_P1_48770331	Ca4	48770331	AC/A	TTTTGTTACAATCATG CGG	TGTTTTAACGTGGCTG ACCA	60.5	675	INTRON	Ca_23023	--	FAR1
Ca4_P1_48772701	Ca4	48772701	AT/A	GGTTGGAACGGAAC AACA	AAGAAATCTAAACGC CAAGG	59.8	295	DRR	Ca_23023	--	FAR1
Ca4_P1_48773094	Ca4	48773094	AGATTCC/A	GGTAACCTTGGCGTTT AGATTTT	CATTGGTCGGACTAAC AACTCA	59.8	427	DRR	Ca_23023	--	FAR1
Ca4_P1_48775290	Ca4	48775290	A/AAAATTATT	GATGGAGAGGGAGAC GAACA	CTTCAAATCTGTAGG GCCG	60.2	313	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_48776221	Ca4	48776221	AATATATATATATATATA/AATATAT ATATATATATA	GCGACTTCCCACATGA TTTT	TGTATCAAGGCGTCGT CAAA	59.9	753	INTERGENIC	--	--	--
Ca4_P1_48781102	Ca4	48781102	TAT/TATGAT	TCGGCATTTCATTGT CTCA	TGTGTACCGACCGATG TTTG	60.2	190	INTERGENIC	--	--	--
Ca4_P1_48786645	Ca4	48786645	TTA/T	TCAAGGAGGAATCCCA ACAG	TTACACCTGTGGCCAA TTCA	60.0	641	INTRON	Ca_23024	--	FAR1
Ca4_P1_48791786	Ca4	48791786	TAAA/TA	ATTAAGCGGGTATGAG TGCG	TGATGGCAAATATGGT AGCG	60.1	674	INTERGENIC	--	--	--
Ca4_P1_48791939	Ca4	48791939	CAAA/CAA	AAACTGCGGGTATGAG GATG	CAAAAGACCAACTCGG GAAA	60.0	421	INTERGENIC	--	--	--
Ca4_P1_48792226	Ca4	48792226	TA/T	AAACTGCGGGTATGAG GATG	CAAAAGACCAACTCGG GAAA	60.0	421	INTERGENIC	--	--	--
Ca4_P1_48793555	Ca4	48793555	TTCTCTCTCTCTCTCTC/TTCTCTC TCTCTCTCTCTCTC	ACGGAGAGTTTGGGTG TGAC	GTTATTCCACCGCGAG AAAA	60.0	451	INTERGENIC	--	--	--
Ca4_P1_48809672	Ca4	48809672	GAAAAAA/GAAAAAA	GCGAGCGAATTAACT CACC	GGGAACATGACTTGGT TCGT	59.9	190	INTERGENIC	--	--	--
Ca4_P1_48815945	Ca4	48815945	T/TCAAAATA	AAAAATGGTGACGTTG CACA	CGGATGAAGACTTGGT CGAT	60.0	210	INTERGENIC	--	--	--
Ca4_P1_48825493	Ca4	48825493	AC/ACC	ACCCACCATTTGTTG TCTT	TAAATCTTCGGTCGC AATC	59.2	316	INTERGENIC	--	--	--
Ca4_P1_48826540	Ca4	48826540	TTCACAT/TT	ATATTGCATTGGCATG GGAT	TTGGAAATGTCATTGC TACCC	60.0	489	INTERGENIC	--	--	--
Ca4_P1_48829333	Ca4	48829333	GATCAT/GAT	TTTGTGAGACTAAAA GGTGGA	ATTGCACCGTAACTCT TGGG	58.0	340	DRR	Ca_23025	--	FAR1

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_48831208	Ca4	48831208	GTATATA/GTATATATA	TATTTCCCAAGACCTC GTGC	ATGTGGTTGTTGTGC CTGA	60.1	255	INTERGENIC	--	--	--
Ca4_P1_48831529	Ca4	48831529	TTATATATATATATAT/TTTTATATAT ATATATATATATAT	TCAGGCAACAACAACC ACAT	ATGGGTCCAAATATGC AGGT	60.0	627	INTRON	Ca_23026	--	FAR1
Ca4_P1_4883531	Ca4	4883531	AT/ATGTT	CACCTGCCTTTTCTC AAGC	AGGAGCCAAACAGCAA GAAA	60.0	540	INTRON	Ca_03769	Z	NAC
Ca4_P1_48846764	Ca4	48846764	ACATCATCATCATCA/ACATCATCATC A	GGTAAACGTGTGTGC ATGG	ACAGCAGTAGCCCTTT GAGC	59.9	715	INTERGENIC	--	--	--
Ca4_P1_48850057	Ca4	48850057	GA/GATCA	GCATCAATTAATCA CCAATCA	TGACGATTTTATTAC GCCAA	59.7	857	INTERGENIC	--	--	--
Ca4_P1_48906072	Ca4	48906072	A/ATATT	TTTCGTGGCTAATTTT GTT	GGCGTTGGTTTCACTC AAAT	57.5	864	INTERGENIC	--	--	--
Ca4_P1_4891737	Ca4	4891737	AATTATTATTATTATT/AATTATTAT TATTATTATTATT	TGCCTTGATCGTTCC ATCA	TTCTGCTTTTCTTTC CGA	60.1	540	INTRON	Ca_03769	Z	NAC
Ca4_P1_4891996	Ca4	4891996	GAAAAAAAA/GAAAAAAAAA	TCGGAAAGAAAAAGCA GGAA	GGCAAATTGCTACTGA AGGG	59.9	265	INTRON	Ca_03769	Z	NAC
Ca4_P1_4893509	Ca4	4893509	CTTT/CTTTT	CAGCGTTTTGTCGCAA GTAA	GCCGAAGTTGAAGGA CAGAG	60.1	480	INTERGENIC	--	--	--
Ca4_P1_48942067	Ca4	48942067	GTTTTTTTTT/GTTTTTTTTTTT	TGATCTTTCTGCAATG AAACG	GATGGAAAAATGAAGGT CCGA	58.9	528	INTERGENIC	--	--	--
Ca4_P1_4897344	Ca4	4897344	ATTT/ATTTT	CTCTGCAGCCTTGATT GGTT	ATGGAGTATGGGGCT GTGAC	60.4	278	INTRON	Ca_03768	K	--
Ca4_P1_48975362	Ca4	48975362	GAAAA/GAAAAA	TGGTTGGGATTTTGG GTTA	GACCCTCTCTCTCAA TCCC	60.0	672	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_48983285	Ca4	48983285	AACAC/AAC	ATAATGGACTTCCCCT CGCT	AACGTCTCAAGGTGGT GGTC	59.9	401	DRR	Ca_20769	O	--
Ca4_P1_49004237	Ca4	49004237	ATTAT/A	TGACATCAATTCCCAAT CCTT	GGGGACAGAAACCTTA TCCA	59.2	311	INTERGENIC	--	--	--
Ca4_P1_49073579	Ca4	49073579	GTT/GT	GTGACTTGGAGGGAGT GGAA	ATCCGCTAACCAATCA CAGC	60.1	453	INTERGENIC	--	--	--
Ca4_P1_49074099	Ca4	49074099	ATTTTTTTTT/ATTTTTTTTT	GCTGTGATTGGTTAGC GGAT	CGACGCGGGTTACAC ACTA	60.1	694	INTERGENIC	--	--	--
Ca4_P1_49074487	Ca4	49074487	AATATATATATATATATATATATATAT TAT/AATATATATATATATATATATAT AT	CGTCGCACGGAAACTA TCTT	TGAGTAGCACCGBAAT GAAA	60.3	426	INTERGENIC	--	--	--
Ca4_P1_49135046	Ca4	49135046	ATATTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTATTATT ATTATTATTATTAT/ATATTATTATTATT ATTATTATTATTATTATTATTATTATTAT TTATTATTATTATTATTATTATTATTAT	TATAAAGCGGTTTGGT TCGG	ATCAACACAAACATCCA CCCA	60.0	938	INTERGENIC	--	--	--
Ca4_P1_49142216	Ca4	49142216	TTATATATATATATATATATATATATAT ATATATATATATAT/TTATATATATATAT ATATATATATATATATATATATATATAT	GATGGGATGGTTGGTA ATGC	GGACCAAATCGAAGAG AAAAA	60.0	257	INTERGENIC	--	--	--
Ca4_P1_49149348	Ca4	49149348	TCC/TCCC	GCACCTTGTATTTTG CTCC	GGGAAAACCTTGTGTAC CGGA	59.6	493	INTERGENIC	--	--	--
Ca4_P1_49160495	Ca4	49160495	TGGGTTTAGG/TGGGTTTAGGGTTTAG GG	CCGGGGAGAATAGGA AGAAC	CCCCAAACCCTAAACC CTAA	59.9	459	INTERGENIC	--	--	--
Ca4_P1_4978107	Ca4	4978107	AAATAAATA/AAA	GTCTAATCCCCCATTT GGC	TCTTGTGGTCGTTGCT TGAG	60.5	557	INTRON	Ca_03758	R	--
Ca4_P1_5030136	Ca4	5030136	TAAAA/TAAAAA	AACAATTCCTTCGTATT TTTCCTC	CATTGCATGAGAACCA AACAA	59.0	778	INTERGENIC	--	--	--
Ca4_P1_5040391	Ca4	5040391	AATATATATATATATATATAT/AAATATA TATATATATATATATAT	GTGAAAAGAGACAACC GCCT	GGCCACACAAGACTTT GTCA	59.3	777	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_5081255	Ca4	5081255	GATTATTATTATTATTATTATT AT/GATTATTATTATTATTATT ATTATTAT	CACCAGCAATAGCTTG CTCA	GAAAAACAGGGCTAGC AACG	60.2	711	CDS (large-effect mutations)	Ca_03748	K	Trihelix
Ca4_P1_5097117	Ca4	5097117	TNNNNNNNNN/TNNNNNNN	TGGAAGCAAGACACAT CTGC	ATATTGGTGGGGTGCA TGTT	60.0	550	INTRON	Ca_03746	S	--
Ca4_P1_5124845	Ca4	5124845	GATATATATATA/GATATATATAT ATA	CGAATAAGAGGGAGTA TCCATTG	TATGGCCAACAACAGC ACAT	59.0	162	INTERGENIC	--	--	--
Ca4_P1_5169385	Ca4	5169385	TAAAAAAA/TAAAAAAA	CATTCAATTGTCTGC CACG	CGCAGACCTTTGAGGT TGAT	60.1	768	INTERGENIC	--	--	--
Ca4_P1_5170510	Ca4	5170510	CTTT/CTT	CAAAGATAAAATGAAC CCTGCC	GATTGAGGTGCTGTCA CCCT	59.8	179	INTERGENIC	--	--	--
Ca4_P1_5222831	Ca4	5222831	T/TGAACCGAATC	CTTGGTGAATAGCAC GGAT	ACTGAAAAGGTGGTG GTGC	60.0	660	INTRON	Ca_03733	S	LBD
Ca4_P1_5247724	Ca4	5247724	CAAA/CAAAA	GCCACTGCTGCTCATT CATA	ACCCAGAAAGCAACCA CAAC	60.0	203	INTERGENIC	--	--	--
Ca4_P1_5248717	Ca4	5248717	ATTT/ATT	CCTCCAAAAGCGATA TCCA	TCACACCGAAATCGAA ATCA	60.0	760	INTERGENIC	--	--	--
Ca4_P1_5300098	Ca4	5300098	TAAAAAAAAA/TAAAAAAAAA	GGCTGGAGAAAGAATA TGCG	AAAAGGAGTTTGAAG GGGA	59.8	598	INTERGENIC	--	--	--
Ca4_P1_5335917	Ca4	5335917	TTCTCTCTCTCTCTCTCTCTC/T TCTCTCTCTCTCTCTCTCTC	AAGGAGCAGCATCCGA CTAA	AAAGTGCTGACCAAAA CGGT	60.0	444	INTERGENIC	--	--	--
Ca4_P1_5468294	Ca4	5468294	TTCT/TT	AGCTTTTGGCTCTCAG TGGA	GCAAAGGAGTGCCTG AAATC	60.1	389	INTRON	Ca_03705	P	--
Ca4_P1_5473420	Ca4	5473420	TTCTCTCTCTCTCTCTCTCTC/TC TCTCTCTCTCTCTCTCTCTC	TATGGAGATGGAGGTC GAGG	ATCAAAAGCAGGGTCT CGAA	60.0	255	INTRON	Ca_03704	E	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_5525661	Ca4	5525661	GAAAAAAAAA/GAAAAAAAAA	TATTTAGCCAAAAGG CAGC	TCCATGTGAATATGAT GAACCAA	59.3	320	INTERGENIC	--	--	--
Ca4_P1_5564394	Ca4	5564394	GATATATATATATATATATA/GATAT ATATATATATATATA	TTGCATCATTCGAAGG AACA	TCCACCTTCTCTTAG AACCACA	60.0	591	INTERGENIC	--	--	--
Ca4_P1_5570234	Ca4	5570234	CTTTTTTTTT/CTTTTTTTTTT	TGATGCATAAGTACAG GTGGG	AAGTTTTTGGCTTTAA ATAGTGTC	58.5	581	INTERGENIC	--	--	--
Ca4_P1_5581102	Ca4	5581102	TAAAAAAAAA/TAAAAAAAAA	TGGTGAACATAAATGG CCAGA	TACGGGGAAAAATCTC CTGA	60.5	231	INTERGENIC	--	--	--
Ca4_P1_5618968	Ca4	5618968	GTTATTATTATTATTATTATTATTA TTATTAT/GTTATTATTATTATTATT ATTATTATTATTATTAT	GTGTTCTGATGTTTT GCCA	GCAACTTCGAGATGCG ACTT	59.5	752	INTERGENIC	--	--	--
Ca4_P1_5629484	Ca4	5629484	CATATATATATATATATATATATA TAT/CATATATATATATATATATATA TATATATAT	TATCGCAAACCGGTCA ATTT	GGGTCACGTGGATTTT GTCT	60.3	906	INTERGENIC	--	--	--
Ca4_P1_5655244	Ca4	5655244	TATA/TATAAATA	TGAACCCACCAAAA TAAA	GCACCGCTCAAAATGA AATA	60.0	928	DRR	Ca_03683	R	--
Ca4_P1_568232	Ca4	568232	A/ACG	TTATCATTCCGCCAAG AAGG	TGTAACCACGACCATA GCCA	60.0	462	INTERGENIC	--	--	--
Ca4_P1_5707384	Ca4	5707384	AATATATATATATATAT/AATATATA TATATATATATAT	AAGCTAAGCACCGGTA ACGA	TTACAGTCTTGAAATT TTCCG	59.9	711	DRR	Ca_03679	DKL	MYB_related
Ca4_P1_5712745	Ca4	5712745	CTTTTTTT/CTTTTTTT	TGTTCCCTCAAAAGGA ATGC	AACAATGTGAGAGCTT CCCC	60.1	714	INTERGENIC	--	--	--
Ca4_P1_5793201	Ca4	5793201	TAAAAA/TAAA	GACTGCCACCGACCAC TTAT	GGTCACACCGTTTCAGC TTTT	60.0	469	INTERGENIC	--	--	--
Ca4_P1_5824436	Ca4	5824436	ATATATTATTA/ATATATTA	CCAAACACAAACCATC TCTCA	TGGAAATCCAAATTC ACCAA	58.6	452	DRR	Ca_03668	--	HSF

[illegible]

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/P1)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_6271796	Ca4	6271796	GAAAAAAAAA/GAAAAAAAAA	AAAAATTACGGGATGC ATAAAAA	AAAGGAAAAATAATGT AAACTTTGAGG	58.9	684	INTERGENIC	--	--	--
Ca4_P1_6271908	Ca4	6271908	GTATATATATATATATAT/GTATATA TATATATATATATAT	AAAAATTACGGGATGC ATAAAAA	TCCCCAAACAATGACA AAAA	58.9	775	INTERGENIC	--	--	--
Ca4_P1_6324755	Ca4	6324755	ATTAATAATTTAATAATTTAATAATT/AT TAATAATTTAATAATT	TGGGTGGAACATGACA GAGA	ATTTTGCCATTTGGGA TTGA	60.1	588	INTERGENIC	--	--	--
Ca4_P1_6353994	Ca4	6353994	CAAAAAAAAA/CAAAAAAAAA	TGGTCCTCAGAGTCGT TAACCT	ATCACAACCTTCACAAG CCCC	60.2	968	INTERGENIC	--	--	--
Ca4_P1_6363964	Ca4	6363964	CAAAAA/CAAAAA	ACAATATCCCCTAACG GCCT	TCCAAAGTTGCCCTG TATT	59.7	704	INTRON	Ca_03603	T	bHLH
Ca4_P1_6389441	Ca4	6389441	TT/TTCCTTATGTGGAAT	GCCCCACCTTCAGTGT TAAA	ATGCTGGCAATGATG TCAC	60.0	728	DRR	Ca_03602	--	ERF
Ca4_P1_6479135	Ca4	6479135	AATATATATATATATATATATATATA TATATATATATAT/AAATATATATATATAT ATATATATATATATATAT	TGACTCGTGCAACACA AGAG	GGATAAAACCGCATT GAGC	58.6	675	INTERGENIC	--	--	--
Ca4_P1_6528150	Ca4	6528150	CTTTTTTTTTTT/CTTTTTTTTTTT	TCCAAGTAAAGGATCG TGGG	AAAAATTCGAATGAAG AATCAAAA	59.9	690	INTERGENIC	--	--	--
Ca4_P1_6581955	Ca4	6581955	TAAAAAAAA/TAAAAAAAA	GCACGTGTGTAATGGT GCTC	TCTTGCTCAACGAAAA TCCC	60.2	612	INTERGENIC	--	--	--
Ca4_P1_6608507	Ca4	6608507	CGTGAAT/C	GGATGCACCATCTATT GCCT	GGATGCGACCATTTAT TGCT	59.9	779	INTERGENIC	--	--	--
Ca4_P1_6609098	Ca4	6609098	TTTATTATTATTATTATTATTATTA TTATT/TTTATTATTATTATTATTATT TATT	AGCAATAAATGGTCGC ATCC	CGTTCCTACTCCAACA ACTT	59.9	594	INTERGENIC	--	--	--
Ca4_P1_6732925	Ca4	6732925	T/TC	AAAACACTCGCCGTG AGAT	TCCAACCGTGAACCA TCAA	59.7	435	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_6764856	Ca4	6764856	TAAAAAAAAA/TAAAAAAAAA	AGCACGGTGTAGTCTT GGCT	GAGGGGTCATTTCTGTT CTCA	59.9	326	DRR	Ca_03564	K	MYB
Ca4_P1_6869072	Ca4	6869072	ATTTTTTTTT/ATTTTTTTTT	TGACACCAAGACAAC CCCA	AACGTTCTTGCTTCA CACG	60.1	552	INTERGENIC	--	--	--
Ca4_P1_6875620	Ca4	6875620	TGG/TG	GACAGTTTGTGCAAT CCGA	AACCTATACCCGCACA ATGC	59.7	859	INTERGENIC	--	--	--
Ca4_P1_6907181	Ca4	6907181	TTATATATATATATAT/TTATATATAT ATATAT	TTTGAAATGGCGACTT CCTT	CCAAATGGCAACTTCC AACT	59.7	569	INTERGENIC	--	--	--
Ca4_P1_7001379	Ca4	7001379	ATTTCTTTTTCTTTTTCTTTT/ATT CTTTTTTCTTTT	GGTACGATCTGCACAG GGTC	CAGGTCAAACCTTCCTC CCAA	60.5	999	INTERGENIC	--	--	--
Ca4_P1_7009936	Ca4	7009936	TTATATATATATATATATATAT/TTA TATATATATATATATATA	AATATGGGTCCCAGA CTCC	TCCTTTTGTGCGGTA ACAA	60.0	686	INTERGENIC	--	--	--
Ca4_P1_7031730	Ca4	7031730	GATATATATATATATA/GATATATAT ATATATATATA	GGATGTCGCTTGCAAG AAGT	TAAACTAACGTGTCGG CGTG	60.4	476	INTERGENIC	--	--	--
Ca4_P1_7081636	Ca4	7081636	AATATATATATATATATATATATA/A ATATATATATATATATATATATA ATA	AATTGGCCACACTTCT TTCG	GGCTTTGTGAAAACG AGGA	60.1	579	INTERGENIC	--	--	--
Ca4_P1_7089091	Ca4	7089091	GA/GAACAAAAGAGATTCACA	CTTTGCATACCCCTCT CGAC	TTGGGAGGATTGGTTT CAAG	59.7	644	INTERGENIC	--	--	--
Ca4_P1_7127718	Ca4	7127718	GAAAAAAAAA/GAAAAAAAAA	AATTTGGACAATACCG CGAA	AGGGAAGGGGAAGAA GATCA	60.3	580	INTERGENIC	--	--	--
Ca4_P1_7134588	Ca4	7134588	ATTTTTTTTT/ATTTTTTTTT	GAAAAGTCAAGCGCAA CACA	TGCACCTCAATAACA ACCA	60.0	727	INTRON	Ca_03523	--	--
Ca4_P1_714706	Ca4	714706	AATATATATATATATATATATATA TA/AATATATATATATATATATATAT ATATATATA	CATCAAATTGGCCCTT CAAT	GTTGCCCAACAAATCA AATC	59.8	640	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_719535	Ca4	719535	TTTTTTTAAATAATTTTTTAAAT/TTT TTTTAAAT	GCAACAAGTCAGCAAC GGTA	CATGTTTGATTCCATT TCCA	59.9	675	INTERGENIC	--	--	--
Ca4_P1_7271578	Ca4	7271578	CAAAAAAAAA/CAAAAAAAAA	GTTCGAAATTGCCCTT TTCA	ATCATAGGTTTCGGTG GACG	60.1	151	INTERGENIC	--	--	--
Ca4_P1_7282110	Ca4	7282110	TTATTATTA/TTATTATTAATATTATTA	CCCAACCCAAAAAGAT GAGA	ACGGGTTATGCCTCAT TTCA	59.9	764	DRR	Ca_03507	--	--
Ca4_P1_7299840	Ca4	7299840	T/TGTG	AGTCTGTCTCTTGCC CATA	GCATTGATACCGATT ACCA	59.8	276	INTERGENIC	--	--	--
Ca4_P1_7319426	Ca4	7319426	TTATATATATATATATATATATATAT AT/TTATATATATATATATATATAT	TGGGAGTGAATGAAGG GTTT	TTTGAGTGGGCACAAA TAAATG	59.9	677	INTERGENIC	--	--	--
Ca4_P1_7388463	Ca4	7388463	CAAAAAAAAA/CAAAAAAAAA	TTTTCTCTAATCCCGA CTCA	TGTTGTTGTCAAAC CTCAAA	58.8	565	INTERGENIC	--	--	--
Ca4_P1_7415395	Ca4	7415395	TAA/TA	TTTCTGTCCTCACCT CACC	TGTAGGTTGGACGGT AGGC	60.1	535	INTRON	Ca_03496	F	YABBY
Ca4_P1_7452921	Ca4	7452921	C/CTTATTG	TGCCAACTCGATTGAA CAAG	GCACGCTAAAAGCCTG AAAC	59.8	364	INTERGENIC	--	--	--
Ca4_P1_7555397	Ca4	7555397	AATATG/A	TTAGGAATCGGTTGGG TTTG	GCAACATTTAACGTGT GGCA	59.8	183	INTERGENIC	--	--	--
Ca4_P1_7572773	Ca4	7572773	AC/ACGATTC	AAAATAGCAATGGAGC CGC	TGTTGTCCCCTCTGCA AATA	60.2	930	INTERGENIC	--	--	--
Ca4_P1_7607022	Ca4	7607022	TACACACACAC/TACACACACAC	CGTGGTCGCAATGAAA GTTA	TCCACGAAGGATACAC CACA	59.7	430	DRR	Ca_03474	--	WRKY
Ca4_P1_7620418	Ca4	7620418	GATATATATATAT/GATATATATATATA T	CGATTTTTGTGAAGTG CGTC	TCTCATCGCCGACAAA GTAA	59.3	837	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/P)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_7638694	Ca4	7638694	AT/ATTT	TAGGCCATCATCTTT GGGT	TTCGAATCAGGGATAA GACGTT	60.2	896	INTERGENIC	--	--	--
Ca4_P1_7693662	Ca4	7693662	GTATATATATATATATATA/GTATAT ATATATATATATATATA	TCTTTTCTATTTTCATG CACGC	TTTTTGCCGCCACTAA AAGT	59.4	272	INTERGENIC	--	--	--
Ca4_P1_7710147	Ca4	7710147	AATATTATTATATATTA/AATATTATTAT ATATTATTATATATTA	TCGTTACCCCTCTCGT CATC	ACAGAATGCCTCATTG GTGG	60.1	927	DRR	Ca_03470	R	Nin-like
Ca4_P1_7713544	Ca4	7713544	ATTTTTTTTT/ATTTTTTTTTT	GTTCGACTCGGTCCA ATTT	TTTTTGAGATGTTAAAA TTCCGATT	61.2	486	INTERGENIC	--	--	--
Ca4_P1_7752166	Ca4	7752166	A/ATTAT	AGCAGATAAGGGGAG GCAAT	TTGACAGTTTTAGTTC ATTGTTTTGA	60.1	683	INTERGENIC	--	--	--
Ca4_P1_7783679	Ca4	7783679	GATATATATATATATATATATATATA TATATA/GATATATATATATATATAT ATATATATATATATATATA	GGAATATTCATTTGCAT GTTGG	GACAAAAACGTCGCACA AAAA	59.2	639	INTERGENIC	--	--	--
Ca4_P1_7938788	Ca4	7938788	CTTTTTTTTT/CTTTTTTTTTT	TGTGTGTCAGTTCTTC GCTACA	CCACATCTCACCACCT TCAA	59.6	235	INTERGENIC	--	--	--
Ca4_P1_8034485	Ca4	8034485	ATTTTTTTTT/ATTTTTTTTTT	TGTCGCTTTTTCTCAA GCA	CGATCCGATAAAACAC AGGAG	59.7	400	INTERGENIC	--	--	--
Ca4_P1_8039801	Ca4	8039801	ATAAAATTAATAAACTAAATTAATAAA ACTAAAA/ATAAAATTAATAAACTAAAA TTAAAAAACTAAATTAATAAACTAA A	TTCGAAAATTGGATTG CCA	TTTGTGCGAGATAGGT ACGAAA	60.0	267	INTERGENIC	--	--	--
Ca4_P1_8060069	Ca4	8060069	TACA/TA	GGTGGAACCTTCTCGA ATGA	CCACCACCAATGTGAC TCTG	60.1	453	INTERGENIC	--	--	--
Ca4_P1_8083441	Ca4	8083441	ATTTTTTTTT/ATTTTTTTTTT	GCTAAATAGCACCCAC GGTT	ACGAGCAGTAATGCAT GGTG	59.1	579	INTERGENIC	--	--	--
Ca4_P1_8084283	Ca4	8084283	CTTATGACACTTGTTATGACACTTGT A/CTTATGACACTTGTTA	TTAAATTTCCACCTC CCC	AATGATGTTTGGTCAT GGCA	60.0	327	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_8115754	Ca4	8115754	CATATATATATATATATATATA/C ATATATATATATATATATATA	GCTGCTAGGGATGCTG TTTC	GAATATTGGCCAAGGC TTCA	60.0	208	INTRON	Ca_03421	--	M-type
Ca4_P1_8169108	Ca4	8169108	T/TG	TAGCCCCATTTCAGTG TAGG	TCAACTGGAGGTGCCA TAAA	59.9	413	INTERGENIC	--	--	--
Ca4_P1_8169426	Ca4	8169426	GTCGATC/GTC	GACATCCGAAATGGGC TAAA	ATTCCAAGGTCACGG TTTG	59.9	907	INTERGENIC	--	--	--
Ca4_P1_8169626	Ca4	8169626	TAAATAAAAA/TAAATAAAAAATAAAAA	TATGGCACCTCCAGTT GAAA	TGTAAATCCTCCAGA CGGC	59.1	858	INTERGENIC	--	--	--
Ca4_P1_8170291	Ca4	8170291	G/GCTCA	GCCGTCTGGAGGATT AACA	CACCGTGAGGTAGAA GAATTGA	60.1	604	INTERGENIC	--	--	--
Ca4_P1_8171890	Ca4	8171890	GT/GTTTAAT	TCAATTTGGTCTTTCC GCTC	ACCTACGTTTGTGCC GAAC	60.2	572	INTERGENIC	--	--	--
Ca4_P1_8173142	Ca4	8173142	TAAAAAAAA/TAAAAAAAAA	TCCATCACACAATTGA AGGC	TGAATGTATCGCGTTG TTGG	59.5	569	INTERGENIC	--	--	--
Ca4_P1_8181721	Ca4	8181721	AATTTAATGAGTG/A	TTACCTTAGCCTCGGA ACGA	ATCAAGGGCTTGAAGT CGAA	59.8	672	INTERGENIC	--	--	--
Ca4_P1_8181769	Ca4	8181769	CAAAAA/CAAAAA	GTTACTGCCGGGAGAA ATGA	ATCAAGGGCTTGAAGT CGAA	60.1	412	INTERGENIC	--	--	--
Ca4_P1_8183765	Ca4	8183765	TA/TAA	AACTCAATCCAACCAA GCCA	TCACCACACCAACCTC AAAA	60.5	548	INTERGENIC	--	--	--
Ca4_P1_8183910	Ca4	8183910	TAAA/TAA	AACTCAATCCAACCAA GCCA	TCACCACACCAACCTC AAAA	60.5	548	INTERGENIC	--	--	--
Ca4_P1_8183976	Ca4	8183976	TAAAAAA/TAAAAAA	AACTCAATCCAACCAA GCCA	TCACCACACCAACCTC AAAA	60.5	548	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_8186089	Ca4	8186089	ATTT/ATTTT	TCTCTATTGCAAGTGC GGAGA	CGTTTTGGTTTTGTG GGAC	60.1	773	DRR	Ca_08308	T	--
Ca4_P1_8186328	Ca4	8186328	CTATATATATATATA/CTATATATATAT A	TGCTTTTCATTTCAGAG ATCC	TTTCACCTCCTGGTAG ACGG	60.2	626	DRR	Ca_08308	T	--
Ca4_P1_8187438	Ca4	8187438	CATATAT/CATAT	CTAAGCCGAGCAGAAG CAAT	TCCCTTTAATGCAAAG GTGG	59.8	363	INTRON	Ca_08308	T	--
Ca4_P1_8187730	Ca4	8187730	TCC/TC	CTAAGCCGAGCAGAAG CAAT	TCCCTTTAATGCAAAG GTGG	59.8	499	INTRON	Ca_08308	T	--
Ca4_P1_8189663	Ca4	8189663	C/CGG	TGAGCATATCGGAACA TGGA	TTATTTTCTCCGGTCA ACGC	60.0	580	INTRON	Ca_08308	T	--
Ca4_P1_8192071	Ca4	8192071	GAAAAAAAAAAAAA/GAAAAAAAAAAAAA	GAATGCGTATTCAAGG GCTGAA	TTTTTGACGTTGCGTT TTCC	58.3	240	DRR	Ca_08309	R	--
Ca4_P1_8193266	Ca4	8193266	TAAAAAAAAA/TAAAAAAAAA	GCATCTCTCCAAGATG TCTGC	TGGGAATTGGGAGCTA TCAG	60.0	620	DRR	Ca_08309	R	--
Ca4_P1_8201203	Ca4	8201203	GAAAAAAAAA/GAAAAAAAAA	CATCGAAAATTATTTG GCTGAA	ATTGCAATCAACGTGG CTCT	59.1	332	INTERGENIC	--	--	--
Ca4_P1_8202902	Ca4	8202902	TC/T	CGGGGCTTTATGAAAA ACAA	CCGATTTCTATCCTTC CACG	59.9	521	DRR	Ca_08310	T	MYB_related
Ca4_P1_8206232	Ca4	8206232	GTATA/GTATACTATA	CAAGGGTTGAAGTTG CATT	TTGAAGCCACCCTCTG ATCT	60.0	763	INTERGENIC	--	--	--
Ca4_P1_8207849	Ca4	8207849	CT/CTTAT	TTTGGTCAAATCAGAT GGCTC	TCAGCTTTCCAAAGAC ATGC	60.1	954	INTERGENIC	--	--	--
Ca4_P1_8208745	Ca4	8208745	AAC/AACAC	TAGCGAAATTCAAGGA TGGG	TGAAGCTCTTCACCTT CGGT	60.0	186	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_8209835	Ca4	8209835	CTTTTTTT/CTTTTTTT	AGACCAAGAGAGAGAG GCCC	GGGTTTGGTTTGTC GTAGT	60.0	306	INTERGENIC	--	--	--
Ca4_P1_8210483	Ca4	8210483	GATAT/GATATAT	GGCCAGGAAATCAACT TCAA	ATGAATTGCATGCATG GTGA	60.1	439	INTERGENIC	--	--	--
Ca4_P1_8214967	Ca4	8214967	TT/TTGT	TCCTAACTCGTTGAGT AAGAAATCA	CAATTGACGCAAAGGA AACA	58.6	855	INTERGENIC	--	--	--
Ca4_P1_8216116	Ca4	8216116	ATTTTTTT/ATTTTTTT	TCAAATGCACGAGAT TAGCA	CGAAGCGGATTCGAA CTAAG	59.5	745	INTERGENIC	--	--	--
Ca4_P1_8216534	Ca4	8216534	GTT/GTTT	CGAATCCGCTTCGTGT TAAT	CGACCCGCTTAATATG TGGT	60.1	507	INTERGENIC	--	--	--
Ca4_P1_8216710	Ca4	8216710	T/TG	CGAATCCGCTTCGTGT TAAT	CGACCCGCTTAATATG TGGT	60.1	507	INTERGENIC	--	--	--
Ca4_P1_8216816	Ca4	8216816	CGG/CGGG	CGAATCCGCTTCGTGT TAAT	CGACCCGCTTAATATG TGGT	60.1	507	INTERGENIC	--	--	--
Ca4_P1_8220449	Ca4	8220449	GATTATTT/GATTATTTAATTATTT	CGGTGAAGCAACGTAG AACA	ACAGTTTTGGGTGCAA AAGG	59.9	688	DRR	Ca_08312	--	--
Ca4_P1_8220978	Ca4	8220978	ATTTT/ATTTTT	CCTTTTGACCCAAAA CTGT	CGTGTTTCCCTCCTTG TGTT	60.0	404	DRR	Ca_08311	T	bHLH
Ca4_P1_8221070	Ca4	8221070	TTT/TTTATT	CCTTTTGACCCAAAA CTGT	CGTGTTTCCCTCCTTG TGTT	60.0	404	DRR	Ca_08312	--	--
Ca4_P1_8221604	Ca4	8221604	TAAAAA/TATTAATAAAAAA	AACACAAGGAGGGAAA CACG	CAAGAACTGCCAATG CAAA	60.0	644	DRR	Ca_08311	T	bHLH
Ca4_P1_8221744	Ca4	8221744	AATATATAT/AATATATATAT	AGCCACCATGACTTTT CCAC	CAAGAACTGCCAATG CAAA	60.0	533	DRR	Ca_08312	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_8221810	Ca4	8221810	ATAT/A	CACCACAAAGATAGAC GATCCA	CAAGAAACTGCCAATG CAAA	60.0	516	DRR	Ca_08312	--	--
Ca4_P1_8222692	Ca4	8222692	A/AC	TTCTGTCTTTGTTGTTG CGG	TGCTAAGGATTATGCA GGGG	59.9	483	INTRON	Ca_08312	--	--
Ca4_P1_8223032	Ca4	8223032	GAAAAAAA/GAAAAAAA	CAACCTTTGGTGTGG CTTT	ACGCGATAATCCAATC GAAC	60.0	252	INTRON	Ca_08312	--	--
Ca4_P1_8223617	Ca4	8223617	GAAAAA/GAAAAAA	GTTGATTGGATTATC GCGT	GATACACTGCGTGCCA ACTG	59.9	771	INTRON	Ca_08312	--	--
Ca4_P1_8224184	Ca4	8224184	AT/ATT	CAGTTGGCACGCACTG TATC	TTGGGATTGCAAGATG TGAA	60.3	714	INTRON	Ca_08312	--	--
Ca4_P1_8226617	Ca4	8226617	TG/T	TATATGTGTGCTGTG GGGG	GTACACCAAGCGGATT CGAT	59.3	969	INTERGENIC	--	--	--
Ca4_P1_8229365	Ca4	8229365	T/TTTAA	GCGAGAAGGTCGTGA GGTAG	TGCCTTTGAGCACATA GTGG	60.0	430	INTERGENIC	--	--	--
Ca4_P1_8232418	Ca4	8232418	TAT/TATAAT	CAGTATGGACGAATGG GAGG	GGTCTACTCTCGAACC ACCG	60.3	563	INTERGENIC	--	--	--
Ca4_P1_8232626	Ca4	8232626	T/TC	CAGTATGGACGAATGG GAGG	GGTCTACTCTCGAACC ACCG	60.3	563	INTERGENIC	--	--	--
Ca4_P1_8232812	Ca4	8232812	ATTT/ATTTT	CGGTGGTTCGAGAGTA GACC	CAATGATTGAGTCAGT TATGCCA	59.7	538	DRR	Ca_08313	--	--
Ca4_P1_8239700	Ca4	8239700	GTTTTTTT/GTTTTTTT	TGTCCAATTGAGGAG GTTG	CATGGTCATAACCTCA CTAATGC	58.5	822	INTERGENIC	--	--	--
Ca4_P1_8240019	Ca4	8240019	TTTTTATTTAATTTTATTT/TTTTTATTT	CGTGGAAATATGATAAA ATAAATCGAA	CCAAACCATTAACATT TGCC	59.6	313	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_8241602	Ca4	8241602	A/AAAG	TCGTCATATTTTCTTC GCTCA	TAATAAGAGGTGGATG GCCG	59.9	268	INTERGENIC	--	--	--
Ca4_P1_8241700	Ca4	8241700	GTTTT/GTTTT	TTCTCATGTGATTAA GCCC	TAATAAGAGGTGGATG GCCG	59.0	152	INTERGENIC	--	--	--
Ca4_P1_8266422	Ca4	8266422	CAAAA/CAAA	GCAAAGAGCAATTGGG TTGT	AACAATGCCTTCCTCA ATGG	60.1	559	INTRON	Ca_08315	S	--
Ca4_P1_8280157	Ca4	8280157	AT/ATT	ACCATCAACTTCGAA AACC	TCCAAATTAATATGGC CCAA	60.0	517	INTERGENIC	--	--	--
Ca4_P1_8281041	Ca4	8281041	ATTTTT/ATTTTTTT	TTTGGTGTCATTCGCC TTTT	TCGCAAGGATAATGGC TTTT	60.5	709	INTERGENIC	--	--	--
Ca4_P1_8281328	Ca4	8281328	CA/CCCTAA	TTGGTGTCATTCGCC TTTT	CAATCGCAAGGATAAT GGCT	60.5	711	INTERGENIC	--	--	--
Ca4_P1_8283564	Ca4	8283564	GTTTTTTTT/GTTTTTTTT	TTGTTTACAATAAACG AACACAAAA	GATTGTCCACTCCGA TGCT	59.8	757	INTERGENIC	--	--	--
Ca4_P1_8293335	Ca4	8293335	AT/AATT	CAATGGTTTTCGTTTT GGCT	TTCTCGAATGCGAAGA GTCA	60.1	492	INTERGENIC	--	--	--
Ca4_P1_8293495	Ca4	8293495	TA/TAAA	ACAATGGTTTTCGTTTT GGC	GGTCATTTCACTGCCA ACCT	60.0	729	INTERGENIC	--	--	--
Ca4_P1_8295749	Ca4	8295749	ATTTTATT/ATTTTATTATTTTATT	TCAACCCCTATTCAAC CACA	CCTGCGACAATCTGAA GGAT	59.9	840	INTERGENIC	--	--	--
Ca4_P1_8300206	Ca4	8300206	CTATTAACAATATTAACAAT/CTATTAA CAAT	GCCAATTTGCCTGTGT TTTT	ACAAATGAAACGCAGC TTCC	60.0	979	DRR	Ca_08318	S	--
Ca4_P1_8300267	Ca4	8300267	TATAAAA/TATAAATAAAA	GCTTCTGGGCATTGA TTGT	ACAAATGAAACGCAGC TTCC	60.1	605	DRR	Ca_08319	S	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_8305739	Ca4	8305739	TAAA/TAA	CATCATGCAGTCGCCT CTAA	ACCACATCTGCCATCA ATCA	60.0	510	INTRON	Ca_08319	S	--
Ca4_P1_8305796	Ca4	8305796	TTACTACCATACTACCAT/TTACTACC ATACTACCATACTACCAT	CATCATGCAGTCGCCT CTAA	ACCACATCTGCCATCA ATCA	60.0	510	INTRON	Ca_08319	S	--
Ca4_P1_8305998	Ca4	8305998	GAAA/GAA	CATCATGCAGTCGCCT CTAA	ACCACATCTGCCATCA ATCA	60.0	510	INTRON	Ca_08319	S	--
Ca4_P1_8308551	Ca4	8308551	TAA/TAAA	TAACAGGTGAGGGCAT GTCA	TATGCAAACCCAATTG ACCA	60.1	321	INTERGENIC	--	--	--
Ca4_P1_8309234	Ca4	8309234	TCAACACAA/TCAACACAACACAA	GAATTTAAGAGGAAGG CGATGA	TTCACCCTAATTCGTA GGCG	59.7	450	INTERGENIC	--	--	--
Ca4_P1_8309328	Ca4	8309328	TTGGTGGT/TTGGT	CATCCCAGGATCAACA CTCA	TTCACCCTAATTCGTA GGCG	59.5	272	INTERGENIC	--	--	--
Ca4_P1_8310925	Ca4	8310925	CAAAAA/CAAAAAA	CATGTGTGGGACTCTT TGGA	CTCAACACGGTTCTGC TCTG	59.5	764	INTERGENIC	--	--	--
Ca4_P1_8311787	Ca4	8311787	A/AG	TTACTCCCTCCTTCCC ATGA	ATGGATGGGGGATAAA AAGG	59.5	433	INTERGENIC	--	--	--
Ca4_P1_8311844	Ca4	8311844	TG/T	TTACTCCCTCCTTCCC ATGA	ATGGATGGGGGATAAA AAGG	59.5	433	INTERGENIC	--	--	--
Ca4_P1_8315320	Ca4	8315320	CCAAAGGCAAAGGCAAA/CCAAAGGC AAAGGCAAAGGCAAAGGCAAA	CCTTTACAAAAAGTGC CCCA	ATAACAGCATCACGG GTCC	60.0	287	INTERGENIC	--	--	--
Ca4_P1_8315933	Ca4	8315933	CTT/CTTATT	GGACCCGTGATGCTGT TTAT	TCTCGGTTGATGTCAT TATGCT	59.8	586	INTERGENIC	--	--	--
Ca4_P1_8316304	Ca4	8316304	GTTTTTTT/GTTTTTTT	GCATAATGACATCAAC CGAGAG	AAAAGAAATGTTGTT TCTCGTTC	59.6	235	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca4_P1_8316423	Ca4	8316423	TAAAAAA/TAAAAA	GCATAATGACATCAAC CGAGAG	CACGAGTGACACGCC ATTTA	59.6	794	INTERGENIC	--	--	--
Ca4_P1_8316722	Ca4	8316722	ACTCT/ACT	GAACGAGAAACAACA TTTCTTTT	CACGAGTGACACGCC ATTTA	59.9	583	INTERGENIC	--	--	--
Ca4_P1_8317987	Ca4	8317987	AAATGACAA/AAA	GCATGGTAGCCAAAGA AAGC	TTCCGTTAAACTCAAC TTCCG	59.9	758	INTERGENIC	--	--	--
Ca4_P1_8318067	Ca4	8318067	T/TA	GCATGGTAGCCAAAGA AAGC	TTCCGTTAAACTCAAC TTCCG	59.9	758	INTERGENIC	--	--	--
Ca4_P1_8318141	Ca4	8318141	GTTTTTTT/GTTTTTTTTT	GCATGGTAGCCAAAGA AAGC	TTCCGTTAAACTCAAC TTCCG	59.9	758	INTERGENIC	--	--	--
Ca4_P1_8318393	Ca4	8318393	TG/T	TGCTTTGAAAGTAAGG CACG	TAAAGGACCAAGTCGG GAAA	59.1	831	INTERGENIC	--	--	--
Ca4_P1_8319580	Ca4	8319580	CGTGTGT/CGT	TGTGACGTTTTTGTGT TGGTG	TTATATGGATGGGGGC AAAG	60.5	756	INTERGENIC	--	--	--
Ca4_P1_8320095	Ca4	8320095	AG/A	CTTTGCCCCATCCAT ATAA	TGCACATCGGTGCTAT CATT	59.6	333	INTERGENIC	--	--	--
Ca4_P1_8320682	Ca4	8320682	AAGAGAGA/AAGA	AAAATCTTCCGTTGTC TCCA	TTTTCCCAAGTTGGAA GTGG	59.5	668	INTERGENIC	--	--	--
Ca4_P1_8320715	Ca4	8320715	TAAAAA/TAAAAA	GAATCATGGTTGAACC CAAAA	TTTTCCCAAGTTGGAA GTGG	59.7	200	INTERGENIC	--	--	--
Ca4_P1_8325707	Ca4	8325707	TA/T	ACGGGGCTGTTACTTT ACCC	TTCTCAATGGGTGCGT ACAA	60.2	739	INTERGENIC	--	--	--
Ca4_P1_8326843	Ca4	8326843	TTCT/TTCTCT	TAAAGAGCACGAATTG CACG	CCAATTCCAAACCCA TACG	60.0	601	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_8329617	Ca4	8329617	T/TTTG	TGGTGATGTAAGCCAG GTGA	CTTCGTCGCCTTCAAG TTTC	60.1	476	INTERGENIC	--	--	--
Ca4_P1_8331477	Ca4	8331477	TTA/TTATA	AAGGGTATGCTGCCAT GAAC	TGCTGCTACTGGCAAA AATG	60.0	666	DRR	Ca_08320	--	--
Ca4_P1_8333108	Ca4	8333108	GAAA/GAAAA	TCCCACTTTCATGTCT CCAA	TGATCACCTTTGAAAA GCCC	59.1	147	INTERGENIC	--	--	--
Ca4_P1_8333443	Ca4	8333443	GCTTCTTC/GCTTC	TCAAAGGTGATCATGG ATGG	ACCCTTGCCAAACAC TACG	59.3	593	INTERGENIC	--	--	--
Ca4_P1_8333830	Ca4	8333830	ATTTTTTTTT/ATTTTTTTTTT	ACGTAGTGTTTTGCA AGGG	TCACACATCACCGBAA ACTT	60.0	342	INTERGENIC	--	--	--
Ca4_P1_8342865	Ca4	8342865	T/TTAAG	GAGCTTCAACCACAAG CACA	GCTTTTGTAGCAACTC GTCC	60.0	691	CDS (FRAME SHIFT)	Ca_08321	--	--
Ca4_P1_8345936	Ca4	8345936	AAAATCAC/AAAATCACTAAATCAC	CATACCTCGATGCACC TCCT	TGTGCGACCAAAGTT ACAA	60.1	213	DRR	Ca_08322	--	--
Ca4_P1_8349969	Ca4	8349969	CAAAAAAAAAAAAA/CAAAAAA	AGCCCAGAAAACAGTC CTCA	CTGATTCCTCCATTT CGGA	59.8	839	DRR	Ca_08323	--	--
Ca4_P1_8350510	Ca4	8350510	ATTTTTTTTT/ATTTTTTTTT	TCCGAAATGGAAGGAA TCAG	CCCTTGATAACACCAA CGCT	60.0	226	DRR	Ca_08323	--	--
Ca4_P1_8354913	Ca4	8354913	ATTTTTTTTT/ATTTTTTTTT	TTGATTGGGGGCTTT GATA	GGAGCAGTTGTCCAT TTGT	60.3	765	DRR	Ca_08324	T	bZIP
Ca4_P1_8372871	Ca4	8372871	T/TG	TCTTTTCTGCCCCACT AGC	CAGCTGAGTTGTGAG GTCCA	59.5	150	INTERGENIC	--	--	--
Ca4_P1_8373181	Ca4	8373181	TACA/TACACA	GGCAAAATGGACCTCA CAAC	GGAGAGTCGGTCTTT GTGGA	60.4	706	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_8373217	Ca4	8373217	TAAA/TAAAA	GGCAAAATGGACCTCAAC	GGAGAGTCGGTCTTTGTGGA	60.4	706	INTERGENIC	--	--	--
Ca4_P1_8373461	Ca4	8373461	AAC/AACCAC	TGAGCATAAAGTGCCATTGG	GTCGGTCTTTGTGGAGAGGA	59.7	398	INTERGENIC	--	--	--
Ca4_P1_8373669	Ca4	8373669	TAGAAA/TAGAAAGAAA	TGAATTGGATCCTCTCACC	AAGCCGAGTCTGGCCTATTT	59.9	680	INTERGENIC	--	--	--
Ca4_P1_8375280	Ca4	8375280	CTATA/CTATATA	AAGCCGTGTGGTACATACTCTTA	CCCTACCAAGAGAAGTTCG	57.9	209	INTERGENIC	--	--	--
Ca4_P1_8376162	Ca4	8376162	CT/CTT	TCGGGCTTGAGCTCTATCAT	TGGCCGAAATTGAGAGAAATC	59.9	541	INTERGENIC	--	--	--
Ca4_P1_8376866	Ca4	8376866	TAAAAA/TAAAAAA	GATTCTCTCAATTCGGCCA	TGCCCCAAACACGTACACTA	60.2	575	DRR	Ca_08327	KL	--
Ca4_P1_8377254	Ca4	8377254	ATTTTTTTTT/ATTTTTTTTTTT	CCACATATATCGCCCAACC	TGACTGTGTGCACTGAACAA	60.0	563	DRR	Ca_08327	KL	--
Ca4_P1_8377411	Ca4	8377411	AT/ATATATATATT	TAGTGACGTGTTTGGGGCA	GGGTGAGACTGAAGCTGGTC	60.0	949	DRR	Ca_08327	KL	--
Ca4_P1_8377585	Ca4	8377585	ATTT/ATT	TTCGTCCATTTGAATCTGA	CCTGCAAGCACTTACGACAA	59.0	891	DRR	Ca_08327	KL	--
Ca4_P1_8379420	Ca4	8379420	TCGTGCG/T	GGAAGGAATGAATCCCACAA	CTGTTTTGCAGCATGGCTAA	59.7	376	INTRON	Ca_08327	KL	--
Ca4_P1_8381452	Ca4	8381452	TAAAAAA/TAAAAAAA	CAATCCGTTAAGGACCTGGA	GATGATTCCCTTGCTGGAAA	59.9	388	INTRON	Ca_08327	KL	--
Ca4_P1_8382072	Ca4	8382072	AT/ATTT	TTCCAGCAAGGGAATCATC	GCATTCAAATCTGGGTGGT	60.0	534	INTRON	Ca_08327	KL	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_8384923	Ca4	8384923	AGGGGGG/AGGGGG	GCCGCAATAGTGT TGGT	GCGTATCGTTGGAAT TGTT	60.0	807	INTRON	Ca_08327	KL	--
Ca4_P1_8387348	Ca4	8387348	TAAGAAGA/TAAGA	CATTGCCTGATTTTC CAAT	GGGCTTTGAACCCGAT AAAT	59.8	460	INTRON	Ca_08327	KL	--
Ca4_P1_8389681	Ca4	8389681	CATA/CA	CGGCAACATGAAGAT CTGA	CGTGGCTTAACCTTGG ACAT	59.8	312	INTRON	Ca_08327	KL	--
Ca4_P1_8390760	Ca4	8390760	CG/CGG	TCCCTAATCAGAACCA TCGC	CGTCGCTATTCTGACT CCCT	60.0	238	INTERGENIC	--	--	--
Ca4_P1_8391171	Ca4	8391171	TAC/TACAC	AGGGAGTCAGAATAGC GACG	CGGTGAAAATTTGTCT GACG	59.5	564	INTERGENIC	--	--	--
Ca4_P1_8396183	Ca4	8396183	T/TG	TTTACAACACATTGCG CACC	CGTTTATTGACGGAAG GCAT	60.6	681	DRR	Ca_08329	O	B3
Ca4_P1_8400811	Ca4	8400811	GAATTACTAAT/GAATTACTAATTACTA AT	CTTAAGCATCAAAGCC CGAG	CCTCAATTGCCACCAA AACT	60.0	469	INTRON	Ca_08329	O	B3
Ca4_P1_8400838	Ca4	8400838	CAAAAAAAAA/CAAAAAAAAAA	CTTAAGCATCAAAGCC CGAG	CCTCAATTGCCACCAA AACT	60.0	469	INTRON	Ca_08329	O	B3
Ca4_P1_8401394	Ca4	8401394	GTT/GT	AGTTTTGGTGCAATT GAGG	AACCACTACGGAACAT TTGACA	60.0	742	INTERGENIC	--	--	--
Ca4_P1_8408536	Ca4	8408536	GCCC/GCCCC	CGCTGAAACAATTGCA GAAA	GGGAGGTCCAACAA AGTGA	60.0	450	INTERGENIC	--	--	--
Ca4_P1_8408879	Ca4	8408879	TAAAA/TAAAAA	TCACTTTGAGTGGAAC TCCC	TCCTACAAAATCACGG ACACC	60.1	469	INTERGENIC	--	--	--
Ca4_P1_8409110	Ca4	8409110	GC/GCC	TCACTTTGAGTGGAAC TCCC	TCCTACAAAATCACGG ACACC	60.1	469	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_8410839	Ca4	8410839	GATATA/GATA	AAGTACAGTGCGGAT CCAT	ATAGCGTAAGGGCACA TGCT	59.4	206	INTERGENIC	--	--	--
Ca4_P1_8413582	Ca4	8413582	AGTTGT/AGT	AATGGTGAACAAGGAG CAGG	CAAGATGTGCCGAAC GTGTA	60.1	279	INTERGENIC	--	--	--
Ca4_P1_8413764	Ca4	8413764	TA/T	AATGGTGAACAAGGAG CAGG	TCAAATATTAACCTCAA GCGCA	60.1	714	INTERGENIC	--	--	--
Ca4_P1_8414642	Ca4	8414642	GTGTTTTTTTT/GTTTTTTTTT	TCTTGGTCAGAACCAT GTGC	AAATGGCCAAATTGCA TGAT	59.7	616	INTERGENIC	--	--	--
Ca4_P1_8422191	Ca4	8422191	GAAA/GAA	AAGACGGATGCATTTT GCTC	GACACATGCCCAACTG AATG	60.2	841	INTERGENIC	--	--	--
Ca4_P1_8441953	Ca4	8441953	GTTTGTA/GTTTGATTTTGTA	AGCAGGAGAGCTGAG ATTGG	TACTGTGTATCGGGC AACA	59.7	731	INTRON	Ca_08335	R	--
Ca4_P1_8450126	Ca4	8450126	TA/T	TTGAAGGGTGGAAAT CAGC	GCACTTATGTGGGCCA ATCT	60.1	208	DRR	Ca_08336	--	--
Ca4_P1_8458330	Ca4	8458330	A/ATC	GAGTTCCTTGAAGGCG TCACA	TCCCCTACCCAAAATT GGAA	59.5	569	INTERGENIC	--	--	--
Ca4_P1_8458477	Ca4	8458477	ATTTTT/ATTTTTTT	GAGTTCCTTGAAGGCG TCACA	TCCCCTACCCAAAATT GGAA	59.5	569	INTERGENIC	--	--	--
Ca4_P1_8458644	Ca4	8458644	ATTTT/ATTT	GCCACATTTGGATGTT CACC	TCCCCTACCCAAAATT GGAA	61.2	185	INTERGENIC	--	--	--
Ca4_P1_8459775	Ca4	8459775	G/GA	TGGACCACAGGTCTAC TACCAA	TGTACCACTTTTGGTG ACCG	59.5	260	INTERGENIC	--	--	--
Ca4_P1_8459845	Ca4	8459845	ATTTT/ATTTTT	TGGACCACAGGTCTAC TACCAA	TGTACCACTTTTGGTG ACCG	59.5	260	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_8462210	Ca4	8462210	T/TTGTTTGA	TCCGTGCACTTATTT CCC	ATTTCAGCCAAGTGA GGTG	59.9	471	INTERGENIC	--	--	--
Ca4_P1_8467235	Ca4	8467235	CCATCATCATCATC/CCATCATCATC	GGCAAGCATTCAATTT CCAT	GGTTGGGATGTTATGT TCGG	59.9	449	INTERGENIC	--	--	--
Ca4_P1_8468674	Ca4	8468674	AGATTC/A	CCGAACATAACATCCC AACC	AGAACCCTCAAATCG GAGT	60.1	851	INTERGENIC	--	--	--
Ca4_P1_8471441	Ca4	8471441	TA/TAA	TCTCCAACACCATGG TTCA	TGTATTGGCGAAGTT GAAG	59.9	727	DRR	Ca_08339	G	--
Ca4_P1_8475153	Ca4	8475153	ATTT/ATT	TGGACCGTACATTTTC GTGA	GTGGTAGCAGAAAGGA GCAGG	60.0	829	INTRON	Ca_08339	G	--
Ca4_P1_8478290	Ca4	8478290	A/AT	TTTAGCTTGCCAAAC AGCA	CCTTTCTTCGTACGTC TCGC	59.6	607	INTRON	Ca_08339	G	--
Ca4_P1_8481188	Ca4	8481188	ATCTCTCTCTCTCT/ATCTCTCTCT CTCT	AGGGAAAAGTACGGC AAAT	ATAGATCCAAACGGCA CAGC	59.8	463	INTERGENIC	--	--	--
Ca4_P1_8482100	Ca4	8482100	T/TGTTGAA	GGTTTTGTGCGCTTTT CAAT	TGACTCTCCTCCTCTC CTCAA	60.1	403	DRR	Ca_08340	R	--
Ca4_P1_8482919	Ca4	8482919	TAAAAAAAAA/TAAAAAAAAAAAAA	ATTTGAGGAAAAGGG AGGA	TTTCAAGAGGGCAAT TGAG	60.0	515	DRR	Ca_08340	R	--
Ca4_P1_8483192	Ca4	8483192	A/ACT	ATTTGAGGAAAAGGG AGGA	GACCCTATCAGAGTGG CAGC	60.0	886	DRR	Ca_08340	R	--
Ca4_P1_8483262	Ca4	8483262	TAAAAA/TAAA	CAATTGCCCTCTTGA AAAA	TTTCTTGCAAGCATGT TGTC	60.0	518	DRR	Ca_08340	R	--
Ca4_P1_8483876	Ca4	8483876	TG/T	CAACAGAAGGCAATGA GCAA	AATTGAAGGCGTATTC GGTG	60.0	125	INTRON	Ca_08340	R	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_8489479	Ca4	8489479	CACATACA/CACA	CCCAAATCACACAT GAGC	AGAGTTGTTTCATCTC CAAACG	60.0	415	INTERGENIC	--	--	--
Ca4_P1_8490694	Ca4	8490694	TTATATATATATATA/TTATATATATATA TATATATA	TATGCCTTAGCGGTTT TTGG	GGTCCTTTGATCCAC GTTA	60.1	498	INTERGENIC	--	--	--
Ca4_P1_8494464	Ca4	8494464	CAAAAA/CAAAAAA	TGGTGATGAAGAAGT ATGGT	TCACAATGGGAACG AAAA	58.0	601	INTRON	Ca_08341	--	CPP
Ca4_P1_8497257	Ca4	8497257	TAAACTGAAGAACT/TAAACTGAAGA AACTGAAGAACT	AGCGTGAGAGGAACCT GTGT	GAAGTGGCAACAGCAAT TTGA	59.9	564	INTRON	Ca_08341	--	CPP
Ca4_P1_8502983	Ca4	8502983	AACGAC/AAC	CCAGTCAACTTTGCC ATTT	ACCTCAAATTTTCCC TTGG	60.0	533	INTERGENIC	--	--	--
Ca4_P1_8506656	Ca4	8506656	GACACACA/GACACA	GAGTGCCCAAGGACAA CCTA	CCTCTAGCAATTCCCA TCCA	60.1	414	INTRON	Ca_08343	YU	--
Ca4_P1_8509176	Ca4	8509176	CTTTT/CTT	GCCTTCTGGACAAAAC GAAG	TCTGCAGGTGAAGCAA CATC	59.9	578	INTRON	Ca_08343	YU	--
Ca4_P1_8509778	Ca4	8509778	TCTT/TCTTACTT	CCTTCGGCTTCAACT AGTC	CCGCTGCTAAATTTCT ACGC	60.0	188	INTRON	Ca_08343	YU	--
Ca4_P1_8514326	Ca4	8514326	CTTTT/CTTTTT	TGTCGTGCGGTAAGTT TGAC	GAAGCAAAGCTAGGG GTGTG	59.8	449	DRR	Ca_08343	YU	--
Ca4_P1_8514977	Ca4	8514977	G/GT	CACACCCCTAGCTTTG CTTC	CACGAACGCCTGTGAA CTTA	59.9	547	DRR	Ca_08343	YU	--
Ca4_P1_8521020	Ca4	8521020	CATA/CATATATA	AATTCAACCAATAAAT TCCA	CACGCAAAATGAAAGG TTGA	57.4	308	INTERGENIC	--	--	--
Ca4_P1_8521823	Ca4	8521823	AACA/AA	AATTTGGCAAAAGGAG ATGC	AATAGGGGGACCAAAA CTGC	59.2	816	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_8522151	Ca4	8522151	TG/T	TGTGATTGTTAGGATG ATGACG	CCAAAAGTGGGAGAA ACAA	58.5	288	INTERGENIC	--	--	--
Ca4_P1_8522296	Ca4	8522296	GT/GTT	GCAGTTTGGTCCCC TATT	GCAGTTTGGTCCCC TATT	60.2	328	INTERGENIC	--	--	--
Ca4_P1_8522801	Ca4	8522801	ATTTTT/ATTTTTTT	TTGTTTCTCCCAAGTT TGG	TATTCCTCGCCCTT TCAC	59.9	896	INTERGENIC	--	--	--
Ca4_P1_8523011	Ca4	8523011	AAGA/AA	AATAGGGGACCAAAA CTGC	TATTCCTCGCCCTT TCAC	60.2	638	INTERGENIC	--	--	--
Ca4_P1_8570714	Ca4	8570714	TAGAGAGAGAGAGAGAGAGAT AGAGAGAGAGAGAGAGAGAGA	ACATTGATTGCACTGG GACA	CTGGAGGCGTAAAA GCAAG	60.0	791	INTRON	Ca_08352	--	--
Ca4_P1_8573690	Ca4	8573690	CTTTT/CTTTT	AAAAAGTGTGTGG CCCT	TCGATTTCTGGGTCTA ATGTG	59.5	285	INTERGENIC	--	--	--
Ca4_P1_8576946	Ca4	8576946	GTTTT/GTTTTT	TGTCATAAGAACAATT GGACG	TTGCAGACTAACCCAG ATCG	57.7	440	INTERGENIC	--	--	--
Ca4_P1_8595450	Ca4	8595450	AAAGAAGAAGAAGAAGAA/AAAG AAGAAGAAGAAGAA	CACAACACAGCTGCTA CCAAA	GGTGGTCAAAGGAAC CAAGA	60.0	267	INTERGENIC	--	--	--
Ca4_P1_8612545	Ca4	8612545	AA/AAATTAAAGGTGTA	TTTCTTTCTGCTGTGCG GCTT	CATGCCATCCACTATG TTGC	60.1	393	INTERGENIC	--	--	--
Ca4_P1_8612629	Ca4	8612629	T/TTA	TTTCTTTCTGCTGTGCG GCTT	CATGCCATCCACTATG TTGC	60.1	393	INTERGENIC	--	--	--
Ca4_P1_8612851	Ca4	8612851	CATT/CATTATTTGATATATTTTAATT	TTTGATGGGTACAGTG CTCG	CCTAAAGGAAAACTA AAATGAAAGA	59.7	488	INTERGENIC	--	--	--
Ca4_P1_8613689	Ca4	8613689	TTTTCT/TT	TGCATTGGTTGAAAA TGAAA	TGGTGGCCTACGAG TAAAG	59.0	374	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/P)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_8614446	Ca4	8614446	AAATTAAT/AAAT	GCAATTTTAACATAGAC GACACG	TGCCAAAAACATTTTAT CCAAA	58.8	383	INTERGENIC	--	--	--
Ca4_P1_8616583	Ca4	8616583	GATGT/GATGTATGT	GCGAGAATACAATTTT CAGCA	ACTCGATCGTGGAAGC AAGT	60.2	324	DRR	Ca_08355	O	--
Ca4_P1_8621480	Ca4	8621480	GAAAAAAAA/GAAAAAAAAA	GTGCATGACCCCTTCT TGTT	TGTCAGGCAACAGAAA ACCA	60.0	889	INTERGENIC	--	--	--
Ca4_P1_8626887	Ca4	8626887	GTTTTTT/GTTTTTTTT	CTCCTCCCCCTTCATT CTTC	CATCAGTAGCAGGTG GAGCA	60.0	378	INTERGENIC	--	--	--
Ca4_P1_8633518	Ca4	8633518	ATAAAAAATT/AT	GCACGAAAAATTGTGA GCAA	ATGGGCATATGGGTCA ATGT	59.9	171	INTERGENIC	--	--	--
Ca4_P1_8633576	Ca4	8633576	TAAAA/TAAA	TTGCACGAAAAATTGT GAGC	TAAATGGACGGAGTTG GGAA	59.9	527	INTERGENIC	--	--	--
Ca4_P1_8638452	Ca4	8638452	AACACACACACACACAC/AACACAC ACACACACACACACACAC	GGCAATGTCCAACAA CACA	ACCTTTTAGGTAGCG GCGT	60.4	534	INTERGENIC	--	--	--
Ca4_P1_8639278	Ca4	8639278	AACCAC/AAC	TGAAGCCAGAGCAAAA TGTG	GGCAATGCTTTCTTTT CTGC	60.0	243	CDS (large-effect mutations)	Ca_08357	--	--
Ca4_P1_8649594	Ca4	8649594	ATTTTTTTTT/ATTTTTTTTTT	CAGATTGACAACTCG GGGT	CAAATCCCACTCAAAG GGAA	60.0	411	DRR	Ca_08358	--	G2-like
Ca4_P1_8686225	Ca4	8686225	TG/TGG	CAGAAATCAATGCTGA GGCA	GTTGAAGCGTGTGG GTTTT	59.9	590	DRR	Ca_08364	T	C3H
Ca4_P1_8688868	Ca4	8688868	CTA/C	AGGACCCACAACATCC ACAT	ACCAATCCATGCACGC TACT	60.1	505	INTERGENIC	--	--	--
Ca4_P1_8689007	Ca4	8689007	A/AT	AGGACCCACAACATCC ACAT	ACCAATCCATGCACGC TACT	60.1	505	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_8693633	Ca4	8693633	CTTTTTTTTT/CTTTTTTTTTTT	ATTTGAGTTTGTGGG GTTG	TTGCCCAAATATGACC CATT	60.0	162	INTRON	Ca_08365	G	--
Ca4_P1_8698891	Ca4	8698891	AAGAGTAGTAGAGTAGT/AAGAGTAG T	AAGCTGGCCACTGTAA GCAT	TCACAATCTCGACAAC CCAA	59.9	246	INTRON	Ca_08365	G	--
Ca4_P1_8704241	Ca4	8704241	G/GC	TTTGTACCCAACAGGG CATT	ATGCATGCGTTGACAA TGTT	60.2	569	DRR	Ca_08366	J	NAC
Ca4_P1_8705159	Ca4	8705159	GTT/GTTT	TCAATGGTGGAGCAAA TTCA	GGTTCCTTCCCCAAT TTAG	60.0	399	DRR	Ca_08366	J	NAC
Ca4_P1_8706314	Ca4	8706314	CAAAAA/CAAAA	GATAGTCGCAGGTGCA GTCA	AAGTTGTCCTGCCITT TTCG	60.0	150	INTERGENIC	--	--	--
Ca4_P1_8706854	Ca4	8706854	TAAAAA/TAAAAA	CGAATTACGAAAAAGG CAGG	ATCTCTCCGACCATGT GGAA	59.7	935	INTERGENIC	--	--	--
Ca4_P1_8708208	Ca4	8708208	GTT/GTTTT	TCACTGCAATCAACCG CTTA	GCCAGTCGCTAATTT TAGCTC	60.4	472	INTERGENIC	--	--	--
Ca4_P1_8708260	Ca4	8708260	AATT/A	TCACTGCAATCAACCG CTTA	TCAAACGATTTTATCAT TTCITTCAA	60.4	917	INTERGENIC	--	--	--
Ca4_P1_8708395	Ca4	8708395	GTTTTTTT/GTTTTTTTT	CCCATATGACCCCAAG TAGC	CCTAGCTTCCCACTCT TTCITTTT	59.3	807	INTERGENIC	--	--	--
Ca4_P1_8709451	Ca4	8709451	TAGATTGAAAAAGTTGTGAA/TA	AATTTGTGGGTGGGCA TAAA	GGAGTATCCACACCTT ACAGCA	60.1	608	INTERGENIC	--	--	--
Ca4_P1_8709656	Ca4	8709656	CAAAAAA/CAAAAAA	AATTTGTGGGTGGGCA TAAA	TGCATTGAGAGAATCA CCAACT	60.1	701	INTERGENIC	--	--	--
Ca4_P1_8709676	Ca4	8709676	TG/T	AATTTGTGGGTGGGCA TAAA	TGCATTGAGAGAATCA CCAACT	60.1	701	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_8711163	Ca4	8711163	CTTTTTTTTT/CTTTTTTTTT	CGCACCCTCTCATCA CCTA	CTTGCCAAACCAACC TTGT	59.9	826	INTERGENIC	--	--	--
Ca4_P1_8711907	Ca4	8711907	CTCTCTTCTCTTCT/CTCTCTTCTC TTTCTCTTCT	CAAGGTTTGGTTGGCA AAGT	GGGGGTGTTCCATGT TATG	60.0	429	INTERGENIC	--	--	--
Ca4_P1_8712181	Ca4	8712181	TCAACAACAACAACAACAACAAT CAACAACAACAACAACAACA A	ACTGCAGAGGGAGATG GAGA	CCCTTGATTGCCTTG TGCT	59.9	190	CDS (large-effect mutations)	Ca_08367	R	C2H2
Ca4_P1_8720139	Ca4	8720139	AAAGT/AAAGTTTAAGT	GGCTGATGGAGAATTC CAAA	ACCAAAGACCAGATTG GCAC	60.0	860	INTRON	Ca_08368	Q	--
Ca4_P1_8723077	Ca4	8723077	T/TC	GCGTGTGGTTGAA GGAT	GGTCGAGTTCCAAAT CCAA	60.0	619	INTERGENIC	--	--	--
Ca4_P1_8723541	Ca4	8723541	ATTTTTTTTTTTTT/ATTTTTTTTTTT	TTGGAATTTGGAACCT GACC	AAGCAGGTGCCCTGA GACTA	59.9	429	INTERGENIC	--	--	--
Ca4_P1_8724004	Ca4	8724004	AT/A	TAGTCTCAGGGCACCT GCTT	TGCCTCTAAATACGTT GGACTG	60.0	546	INTERGENIC	--	--	--
Ca4_P1_8727978	Ca4	8727978	A/AG	TGAATGCCCAAAATA GATGA	TGATTGAAAGAGCGTT GGATT	58.1	651	INTERGENIC	--	--	--
Ca4_P1_8730605	Ca4	8730605	CGTG/CTG	TTCACACCAACCCCT CAAA	ATTTTGAAGAACAAT CCGC	60.0	517	INTERGENIC	--	--	--
Ca4_P1_8730686	Ca4	8730686	TAA/TA	TTCACACCAACCCCT CAAA	ATTTTGAAGAACAAT CCGC	60.0	517	INTERGENIC	--	--	--
Ca4_P1_8733054	Ca4	8733054	TGGG/TGG	AAAAATCACCCAAAAT AACATCT	CACCTTCCTTGCTCCC TCTG	57.2	867	INTERGENIC	--	--	--
Ca4_P1_8734909	Ca4	8734909	TAAAAAAAAA/TAAAAAAA	ACTTCCTTCCACATGA CCCA	AATTGGGACCGTGAGT TCAG	60.4	410	DRR	Ca_08369	K	M-type

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_8736441	Ca4	8736441	G/GATATTAGTATATC	TGTAAATGTCTCTCGC CGTG	CAGAGGTGCACATGG AATCA	59.9	598	INTRON	Ca_08370	R	WOX
Ca4_P1_8742911	Ca4	8742911	AAT/A	AGGTGCTCCACCAAAA TCAG	CCACATCTTAATGTTTT GTTTGGT	60.1	547	INTERGENIC	--	--	--
Ca4_P1_8748201	Ca4	8748201	AG/A	CATTTCATCATTACCC CCC	TCACAACATGAGAATG GGACA	60.0	218	INTERGENIC	--	--	--
Ca4_P1_8748360	Ca4	8748360	ATTTTTTT/ATTTTTT	CATTTCATCATTACCC CCC	CAAAATTGCATTCAAA GTCCC	60.0	621	INTERGENIC	--	--	--
Ca4_P1_8748930	Ca4	8748930	TAAAAAA/TAA	GGGACTTTGAATGCAA TTTTGT	CGAGGATCTGTGACCA ATCA	60.2	482	INTERGENIC	--	--	--
Ca4_P1_8749252	Ca4	8749252	T/TTA	ATACGGATTGGATGAG GTGC	GGCGTAATTACTTCAA GGCAA	59.8	376	INTERGENIC	--	--	--
Ca4_P1_8751297	Ca4	8751297	CAAAA/CAAA	ATGGATGGGAAGTATG CCAA	GTTTTCCACAAACCTT GCGT	60.2	591	INTERGENIC	--	--	--
Ca4_P1_8753314	Ca4	8753314	TGCTGGAACGCTGGAAC/TGCTGGAA C	TTCTTTCCAGTCATTT CGG	CCAAATGGAGCTTCCA CCTA	60.0	841	INTRON	Ca_08371	--	NAC
Ca4_P1_8753834	Ca4	8753834	TAA/TA	GGTGGAAGCTCCATTT GGTA	TTGCCACTTATTCACG GTCA	59.9	539	INTRON	Ca_08371	--	NAC
Ca4_P1_8754248	Ca4	8754248	T/TCGTAGATGATG	CATGGAAAATTGCGA TCCT	TAAGAAGGAAGTCGCG CACT	59.9	139	INTRON	Ca_08371	--	NAC
Ca4_P1_8757256	Ca4	8757256	CATATA/CATATATA	TGGATATGGTGAGAT ACGAA	AGGTGCATGAGTATCA ATGTCAA	59.0	595	DRR	Ca_08371	--	NAC
Ca4_P1_8758495	Ca4	8758495	A/AG	TCACCATTCTGAGTT GGAA	TGCTCATGTCTTCTAA AGATCCA	60.1	762	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_8762153	Ca4	8762153	ATTTTT/ATTTT	TCATAAAGCTGTTGCC AAAAA	ATAGAGTGGGTGTT GCCAG	58.5	546	INTERGENIC	--	--	--
Ca4_P1_8765633	Ca4	8765633	G/GATTCTAA	GGGTGAAATTGTAGCG GACT	ATGAATGGAGCTCCCT GATG	59.1	868	INTERGENIC	--	--	--
Ca4_P1_8774388	Ca4	8774388	TAAAAA/TAAA	GACGATTGCGAATTTG AGGT	TGATTTATGTTTGTGG CGGA	60.1	295	DRR	Ca_08373	C	--
Ca4_P1_8775620	Ca4	8775620	CCTT/CCTTACTT	ACACATTGATCGAGAC CCGT	GCAGATTGGAAGATC ACACC	60.4	702	DRR	Ca_08373	C	--
Ca4_P1_8787589	Ca4	8787589	TA/T	CCAAGGGTTTTCTTC ACAA	ATCAATCAAAATGGT GGGA	59.9	436	INTRON	Ca_08375	R	NF-YA
Ca4_P1_8787727	Ca4	8787727	GTCCCACT/GTCCCACTTTCTTCCAC T	ATCCCAACCCATTTTGA TTGA	GGTACAGCAACAGCT GCAAA	60.0	107	INTRON	Ca_08375	R	NF-YA
Ca4_P1_8788652	Ca4	8788652	A/ATCTGCTTCC	CAGGGCAACCTGTTTC AAAT	TGGAATGGTCTCAACC ACAA	60.0	624	INTRON	Ca_08375	R	NF-YA
Ca4_P1_8788897	Ca4	8788897	GAAAAAA/GAAAAAA	TTGTGGTTGAGACCAT TCCA	TTGACCAACATTCAAC CTCA	59.9	219	INTRON	Ca_08375	R	NF-YA
Ca4_P1_8793043	Ca4	8793043	TAAAAAAAAA/TAAAAAAAAAAAAA	GGAAATTCGAAATGG CAGA	ACCCTCCATTCATTG TTGC	60.0	632	INTERGENIC	--	--	--
Ca4_P1_8795970	Ca4	8795970	TAGAGAGAGAGAGAGAGAG/TAGAGAG AGAGAGAGA	AACACGTGATATTCCA ACGG	GTAGCCCATGCCCTCA TAAA	58.4	756	DRR	Ca_08376	--	M-type
Ca4_P1_8797573	Ca4	8797573	TAAAAA/TAAAAA	TTATAAAAGTGCGAGT GCGG	AAACGTCAATTAGCTAT AAGATTCCA	59.0	595	INTERGENIC	--	--	--
Ca4_P1_8797898	Ca4	8797898	ATTTT/ATTTTTTT	TTTTACGGTGGAATTAT CTATCAATG	CTTAAACGCGATTGT TGGC	58.5	852	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_8798276	Ca4	8798276	CATATATATATA/CATATATATATAT A	CGGTGGGAACTAGGA GTGA	AACGAGTAGCCTTTAG CGGG	60.1	177	INTERGENIC	--	--	--
Ca4_P1_8799497	Ca4	8799497	TAATAGAGTTAAAA/TAA	TCAAAGTGCATACAG GAAGC	TGGGTTTAATACATGG AGATGG	60.4	922	INTERGENIC	--	--	--
Ca4_P1_8800004	Ca4	8800004	A/AT	TGATCGAGTTGCATCA TACAAAA	TGTGATTTGATGGCTT TATTGG	60.5	377	INTERGENIC	--	--	--
Ca4_P1_8803000	Ca4	8803000	GTTT/GTT	TATACGACACACCTTG CCCA	AGGATATTGACATCCG CTGG	60.0	293	DRR	Ca_08377	--	--
Ca4_P1_8805450	Ca4	8805450	CTGT/CTGTGT	ATTATGATTCGCCGA GAAC	CCGACCCCACTTATGA AGAA	60.1	324	INTRON	Ca_08378	AR	MYB
Ca4_P1_8810142	Ca4	8810142	ATTTTTTT/ATTTTTTT	ACTCCTCCCTCCTGTC TCGT	TGAATATAAATAGACC AATACCGCAA	60.3	585	INTERGENIC	--	--	--
Ca4_P1_8812070	Ca4	8812070	AT/ATGTT	TGGTGCACTTTTGTG TCCA	TCAAACACACAATAAT GGCGA	61.2	648	INTERGENIC	--	--	--
Ca4_P1_8812862	Ca4	8812862	AC/A	GTTTTTAATTCGACCC CCAA	GCAGTTTAAGCAATAA AATGATGC	59.8	427	INTERGENIC	--	--	--
Ca4_P1_8816656	Ca4	8816656	AT/A	ATCGTTGTCGTAGATT GGGC	TTGGATCAAAATCTGA AGCG	60.0	789	INTERGENIC	--	--	--
Ca4_P1_8836055	Ca4	8836055	TATTTTAAATTTT/TATTTTAAATTTT ATTTT	TGACCTGTAGGGCCGT AATC	TCACCAATCGAAGCT CAAA	60.0	508	INTERGENIC	--	--	--
Ca4_P1_8836705	Ca4	8836705	TTAAT/TTAATAAT	AGCTTCGATTTGGTGA GGTG	TGATGTATACCACAAT GATTCCG	60.3	444	INTERGENIC	--	--	--
Ca4_P1_8836902	Ca4	8836902	T/TG	AGCTTCGATTTGGTGA GGTG	TTGAGTTTCAATATGG TGATGTGA	60.3	854	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_8837106	Ca4	8837106	AA/AAGA	AAATATTTGGGAATCAT TGTGG	AATTTGGCCGATAAGC TCTC	57.9	627	INTERGENIC	--	--	--
Ca4_P1_8840379	Ca4	8840379	CTATA/CTA	CCAAATCGGACAGGC TAAG	TTGTAAAATCATTGTTT GAAGAAAA	59.7	545	INTERGENIC	--	--	--
Ca4_P1_8841401	Ca4	8841401	ATTTTTTTT/ATTTTTTT	TTTGGTGACATTTTAG CAAAGAC	TCTTCTTCATTCACCTG TTTGTC	58.4	229	INTERGENIC	--	--	--
Ca4_P1_8846872	Ca4	8846872	ATTTTT/ATTTTT	ACAACGACACACGGTC TCTG	CGCAGAACATAGATGA GCCA	59.8	729	INTRON	Ca_08381	--	--
Ca4_P1_8858467	Ca4	8858467	TTACTAA/TTACTAATATTATAATATAC TAA	TTGGTTTCCAAGTTCC CATC	TTCAACTTCGAGCAAA AGGG	59.8	602	INTRON	Ca_08382	--	MIKC
Ca4_P1_8861999	Ca4	8861999	CAAAAAAAAA/CAAAAAAAAAAA	CGAGGGAGCATTATGC AACT	TCCTTCGCCTCTCAAG AAAA	60.2	432	DRR	Ca_08383	C	--
Ca4_P1_8864397	Ca4	8864397	A/ATT	TTACCAAAAGCCTCTT GCTT	GTAAGCTCCCTTTCC CCAC	60.0	657	INTERGENIC	--	--	--
Ca4_P1_8867611	Ca4	8867611	AT/A	AGCTCCCATACCAGGA CCTT	GTAGCCACCATTTTCC TCCA	60.0	374	INTERGENIC	--	--	--
Ca4_P1_8878798	Ca4	8878798	TAAAAAAAA/TAAAAAAAA	ATGGACGGATTGGATG GATA	ATACGATGGTGGTTGG TGGT	60.0	581	INTERGENIC	--	--	--
Ca4_P1_8879630	Ca4	8879630	AATATATATATATATA/AATATATAT ATATATATATATATA	ACCACCAACCACCATC GTAT	TGGATCGTCTCTGTCC CTTT	60.0	477	INTERGENIC	--	--	--
Ca4_P1_8882680	Ca4	8882680	CTCTTCTTCTTCTTCT/CTCTTCTCT TCTT	CCAACTGCATTGCAGC ACTA	TGTGGATCTCTTTATT GCCG	59.9	386	INTERGENIC	--	--	--
Ca4_P1_8882981	Ca4	8882981	TT/TTTAT	GCCTGGCTAAGCAGAA ACAA	CAAATTTTACTGGGG AATGAA	60.5	845	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_8884777	Ca4	8884777	TAAT/TAATATATAAAT	ACACGTGGCTTGTGG TGTA	GTCGATCTCGTCACT CCAC	60.1	675	INTERGENIC	--	--	--
Ca4_P1_8884956	Ca4	8884956	ATTTT/ATT	GAGTGCCACAATGTGA ACTGA	CGATCTCGTCACTCC ACTC	59.7	595	INTERGENIC	--	--	--
Ca4_P1_8885843	Ca4	8885843	CTGT/CTGTGT	TGAGACCCCGTAAGAT CCAA	AAGAATGCAGATCAAT CGCC	60.5	194	INTERGENIC	--	--	--
Ca4_P1_8885877	Ca4	8885877	AATATATATATAT/AATATATATAT	TGAGACCCCGTAAGAT CCAA	AAGAATGCAGATCAAT CGCC	60.5	194	INTERGENIC	--	--	--
Ca4_P1_8889120	Ca4	8889120	ATTTT/ATT	TGAATCGAACAGGACA TCCA	TTATGGCTGCAACGAC TTGT	60.0	409	INTERGENIC	--	--	--
Ca4_P1_8889782	Ca4	8889782	A/AG	TTAAGAAGTATCACGC GGGC	TCCTTTCTCCGTGGTG AGTT	60.2	472	INTERGENIC	--	--	--
Ca4_P1_8890826	Ca4	8890826	CAGGTAG/CAG	TTTGAGGAGTGTGTGG TGGA	ACCCAACTCGCACTTT GAAT	60.1	360	INTERGENIC	--	--	--
Ca4_P1_8891264	Ca4	8891264	AAATTAATTAA/AAATTAA	AATTCAAAGTGCAGT TGGG	CCCGATGTGTACCCTC TGAT	60.1	753	DRR	Ca_08386	--	--
Ca4_P1_8894308	Ca4	8894308	A/AG	TGATATCCGTTTGGG TGTT	CTCCCGTTATCCGAAA CAGA	60.1	569	INTERGENIC	--	--	--
Ca4_P1_8894416	Ca4	8894416	CTATATATATATAT/CTATATATATATA TATATAT	TGATATCCGTTTGGG TGTT	CTCCCGTTATCCGAAA CAGA	60.1	569	INTERGENIC	--	--	--
Ca4_P1_8896251	Ca4	8896251	CAAAAA/CAAAA	GTCGCTAAACTGCAAA AGGC	TTTGTCCGGATGAGTT ATCAAA	60.0	477	INTERGENIC	--	--	--
Ca4_P1_8897505	Ca4	8897505	TATT/TATTAATT	GCCATCCAGATGCAAA AGTT	TCATAGACGGTCCGAT AGAGC	60.1	356	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_8898244	Ca4	8898244	CA/C	TCGGACCGTCTATGAT GTATG	CAAAATTTTCAAACAAA ACCCA	58.5	680	INTERGENIC	--	--	--
Ca4_P1_8900032	Ca4	8900032	TCAAAA/TCAAAAATATAACAAAA	AGACATGAAACATGTG GGCA	GCTTTTCGATCTGGCA ACTC	60.0	751	INTERGENIC	--	--	--
Ca4_P1_8900762	Ca4	8900762	TC/T	GAGTTGCCAGATCGAA AAGC	AATCCCCTGTAATGGA GGGT	60.0	518	INTERGENIC	--	--	--
Ca4_P1_8901196	Ca4	8901196	GT/GTTT	CCCTCATTACAGGGG ATTT	AAGCTCATCACCAGTC ATCC	60.0	813	INTERGENIC	--	--	--
Ca4_P1_8901492	Ca4	8901492	TTTATATGTTATA/T	GCAACAAATTATCTTG CCGTC	AAGCTCATCACCAGTC ATCC	59.6	334	INTERGENIC	--	--	--
Ca4_P1_8903771	Ca4	8903771	GAATTAAT/GAAT	GGATCTCATTGGTTCT ATGGG	CGAGTGTGGTGGGTT TTCTT	58.3	490	INTERGENIC	--	--	--
Ca4_P1_8903859	Ca4	8903859	CATAT/CAT	GGATCTCATTGGTTCT ATGGG	CGAGTGTGGTGGGTT TTCTT	58.3	490	INTERGENIC	--	--	--
Ca4_P1_8904444	Ca4	8904444	C/CTCTTA	AAGAAAACCCACCACA CTCG	ATGATTTCTGCATTCT CGGC	60.0	865	INTERGENIC	--	--	--
Ca4_P1_8943701	Ca4	8943701	GTTTTTTTTT/GTTTTTTTTT	TTCGTTCAATTTATCATT ATTTCAATTC	TACAACGACGGACTGC AAAA	60.0	923	INTERGENIC	--	--	--
Ca4_P1_8993223	Ca4	8993223	CATAAATAAATAAATAAATAAAT AAA/CATAAATAAATAAATAAATAA AA	TCACAAATCACATTCA CCC	GGCGGTTTGACAGTA GGAAA	59.2	314	DRR	Ca_08394	GMW	--
Ca4_P1_9024370	Ca4	9024370	AAATAATAATAATAATAATAAAT AATAATAATAATAATAATAA/AAAT AATAATAATAATAATAATAATAA ATAATAATAA	GAATGGGCTTAAGGGT GACA	TCCATTCCTTGAGTTT TCCG	59.9	885	INTERGENIC	--	--	--
Ca4_P1_9028821	Ca4	9028821	TTATATATATATATATAT/TTATATAT ATATATATATATAT	ATGGAACAATCGGACA CCAT	CTGTCAACTCACTCAT CAAATCG	60.1	422	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_9030140	Ca4	9030140	ATTTTTTTTTT/ATTTTTTTTTT	TGGTGTGGAGTCATG CTTT	AAATTTGCAATGACGG CTTC	59.1	656	INTERGENIC	--	--	--
Ca4_P1_9047358	Ca4	9047358	TTATATATATATATATATATATATAT/ TTATATATATATATATATAT	AGTTTATAACCGTGC GTCG	TTTTTCATCAATAACATT GAGCG	60.0	222	INTERGENIC	--	--	--
Ca4_P1_9047568	Ca4	9047568	CTTTTTTTTTT/CTTTTTTTTTT	AGTTTATAACCGTGC GTCG	TCACACAAATCAAAAG GATTCA	60.0	644	INTERGENIC	--	--	--
Ca4_P1_9066423	Ca4	9066423	ACC/AC	GCAACCCGTAGGTGTA GGAA	TGTGCGTTGGTAGTCA ATGTG	60.0	546	INTERGENIC	--	--	--
Ca4_P1_9079145	Ca4	9079145	ATTTTTTTTTT/ATTTTTTTTTT	AGTTGGAAGTCGCCAA AGAA	ATGGTGCAAGTTCTTGC CATA	59.9	629	INTERGENIC	--	--	--
Ca4_P1_9130579	Ca4	9130579	CATATATATATATAT/CATATATATATA T	AATTCTGACATGCGAA TCCC	TGTAAAGCGCTTCTAA GTCTCG	59.9	589	INTERGENIC	--	--	--
Ca4_P1_9224958	Ca4	9224958	CATATATATATATATATATA/CATAT ATATATATATATATATATA	ACGCTGTAAATGCAA ACCC	CTGGGCAAGGGATCT GAATA	60.0	609	DRR	Ca_08413	--	Trihelix
Ca4_P1_9339969	Ca4	9339969	TAAAAAAAAAAAA/TAAAAAAAAAAAA	TGAGGCCAGTTTCTT TCTG	TACACCCACATAGTGG GCAA	60.4	856	INTRON	Ca_08423	Q	E2F/DP
Ca4_P1_9359201	Ca4	9359201	TAAAAAAAAAAAA/TAAAAAAAAAAAA	TCTTTTCCACAATGTAA AGGAGATT	CGCATGCAACGAAATA AATG	59.5	658	INTERGENIC	--	--	--
Ca4_P1_9371255	Ca4	9371255	GAAAAAAAA/GAAAAAAAA	GGAGCATATGCCTCGT TGTT	TGGAAATCAACTTTTT GGACA	60.1	549	INTERGENIC	--	--	--
Ca4_P1_9385509	Ca4	9385509	ATTTTTTTTTT/ATTTTTTTTTT	TCGTCTCCAATAGATT GACCA	ATGTTGCGACATGAAC CTCA	59.6	380	INTERGENIC	--	--	--
Ca4_P1_9388140	Ca4	9388140	C/CTTCAT	TCGTGTTGCGCCTAAC AAT	AGTTTTTAATCCGTGC GTCG	60.3	976	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_9388557	Ca4	9388557	GATATATATATATATATATA/GATATAT ATATATATATATATATATA	CCACTTATACGGCAA GGCT	AGTTTTTAATCCGTGC GTCG	59.2	423	INTERGENIC	--	--	--
Ca4_P1_9453892	Ca4	9453892	GTATATATATATATATATATA/GTAT ATATATATATATATATATA	TTGATGGTGCTAGGAG AAGACA	AAACCCACAATTCATC AGGTT	59.9	433	INTERGENIC	--	--	--
Ca4_P1_9460620	Ca4	9460620	ATTTTTTTTT/ATTTTTTTTTT	TTGGTGGAATAAATGC CAAA	TTGCGTGTTTTAAGAA TTCGG	58.9	283	INTERGENIC	--	--	--
Ca4_P1_9569592	Ca4	9569592	CTT/C	CAAATGTGCAATTTAA GTATTGCG	TTGTCTTCTCCATT GTCC	59.9	355	INTERGENIC	--	--	--
Ca4_P1_9586182	Ca4	9586182	ATTTTTTTTT/ATTTTTTTTTT	CCACCTCCTTCTCTC CTCC	TCACCAAAAATTGAAT GCCC	60.2	597	INTERGENIC	--	--	--
Ca4_P1_9630289	Ca4	9630289	ATTAGTTAGTT/ATTAGTTAGTTAGTT	CCTCTTCCAAACAAAT CTTCG	CCAGCTCATCAAAGCC ATTT	58.8	550	INTERGENIC	--	--	--
Ca4_P1_9632653	Ca4	9632653	TG/T	TGGATTGCTGTGATCT CAAA	CACACCCGTACTCAGC ATTG	57.6	630	INTERGENIC	--	--	--
Ca4_P1_9632938	Ca4	9632938	ATTTTTTTT/ATTTTTTTT	CAATGCTGAGTACGGG TGTG	AACACAAGGAGGCCAT GTTT	60.2	503	INTERGENIC	--	--	--
Ca4_P1_9653112	Ca4	9653112	TAAAAAAAAA/TAAAAAAAAA	GGGTGTGACGATGACA GCAA	AAATCGTCGCAATCA GTCC	59.6	208	INTERGENIC	--	--	--
Ca4_P1_9654621	Ca4	9654621	AATATATATATATATATATATATATA TATAT/AATATATATATATATATATAT ATATATATATATATAT	GAATTAATCCGCACAT CCCA	TGAATGCATACAAGGA TCTCCA	60.7	483	INTERGENIC	--	--	--
Ca4_P1_9658674	Ca4	9658674	TAAAAAA/TAAAA	TGCAATTGATACCGA GCCT	TCCCCTTCTTTGAGGG ATTT	60.6	914	INTERGENIC	--	--	--
Ca4_P1_9670676	Ca4	9670676	ATT/ATTT	AACACCCTCATTGCTC ATCC	AATGGCAATCAGAAAC AGCC	59.9	430	INTRON	Ca_08446	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_9722413	Ca4	9722413	TAAAAAAAAAAAA/TAAAAAAAAAAAAA	TTTTGTTTTTACATCG CAAA	GGTCGCATGGGTAAACACT	58.3	167	INTERGENIC	--	--	--
Ca4_P1_9722503	Ca4	9722503	AATATATATATATATATATATATATATATATAT/ AATATATATATATATATATATATATATATATATATATATATATATATATATATATAT	AGTGTTTAACCCATGC GACC	TGTTTGGCATTAGAT ACACCAA	59.9	549	INTERGENIC	--	--	--
Ca4_P1_9732872	Ca4	9732872	A/AC	CGGTGGTTGATAAAGT CGTG	GAATTCAAATGGGGAA ATGC	59.0	416	INTERGENIC	--	--	--
Ca4_P1_9754081	Ca4	9754081	ATGT/ATGTTGT	TCACCGTGAAAACGAT GAGA	CAAAAGCAAATCCTTT GGGA	60.2	362	INTERGENIC	--	--	--
Ca4_P1_9764739	Ca4	9764739	GTTTTTTT/GTTTTTTTTT	TCAGCGGGGTTTTATA GACA	CTCTGCTCACAACCCA ACA	58.2	701	INTERGENIC	--	--	--
Ca4_P1_978893	Ca4	978893	TAAAAAAAA/TAAAAAAAA	TTTTGAGGTGCTTTCC CATC	CAATCCCCAAGCTTA ACA	60.1	535	INTERGENIC	--	--	--
Ca4_P1_9827543	Ca4	9827543	GAAAAAAAA/GAAAAAAAA	CGGTCAACCGGTACCA CTTT	CAATCTGCCATGTCAA TGAA	60.9	332	DRR	Ca_08460	--	--
Ca4_P1_9847676	Ca4	9847676	TAAAA/TAAA	GAGTTGCAGGGGATGT AGGA	CACAAGAAAGGCCTG GAAG	60.1	240	INTRON	Ca_08462	Z	--
Ca4_P1_9857350	Ca4	9857350	TGTGCGAGTGCGAGTGCGAGT/TGTG CGAGTGCGAGT	TGAGACGTTTTTCACA CCCA	CTGCAACATGAATCT TGAAGT	60.1	469	INTERGENIC	--	--	--
Ca4_P1_988616	Ca4	988616	TGAG/TGAGAG	GCGTTGTCTTCCATCA AGGT	GAAGGATATTGGGAAA CGCA	60.1	544	DRR	Ca_07731	R	S1Fa-like
Ca4_P1_988965	Ca4	988965	GA/GAGTGTAGGGAA	TGCGTTTCCCAATATC CTTC	TGGCAGGAAATATAGG GCTG	59.9	802	DRR	Ca_07731	R	S1Fa-like
Ca4_P1_992132	Ca4	992132	TTATATATATATATATATATATAT/TTAT ATATATATATATATATATATAT	CAACCCCCTTGAGATAC ACGA	GGGTTTGCCAAAACAA AGAA	58.6	420	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P1_9923455	Ca4	9923455	AATATATATATATATATA/AATATAT ATATATATATA	TGTGAACGTCGTCGTA TGGT	CCGATAACAAAAGCTC TCGC	60.0	892	INTERGENIC	--	--	--
Ca4_P1_9937299	Ca4	9937299	AATATATATATATATATATAT/AA TATATATATATATATAT	TTCAATGCTTCATCAC GAGC	TGACAGCCGTTAGTCT CAAAA	60.0	767	INTERGENIC	--	--	--
Ca4_P1_9966088	Ca4	9966088	TA/T	TGCCCTTTATTAACATA TTCTTGTA	TTCAAACATTTTGATG ATGTGACACT	59.5	594	INTERGENIC	--	--	--
Ca5_P1_10001330	Ca5	10001330	ATG/A	CCAATTTTCCAAGAAC ACCC	TGCAGTTTGTATCTCC GTTG	59.3	415	INTERGENIC	--	--	--
Ca5_P1_10004188	Ca5	10004188	GTTGTTGTTATTGT/GTTGT	TGCACATTTCCAACATA CTCC	AATTCCTCTCTCCAC CAGT	60.1	703	INTERGENIC	--	--	--
Ca5_P1_10016204	Ca5	10016204	ATTTT/ATTT	TTTTGGAACCAATTTT TAATTTT	ACATGTCACGCCTGAT CAAA	59.1	773	INTERGENIC	--	--	--
Ca5_P1_10019391	Ca5	10019391	TTTT/TTTTCATTT	TGCATTGGTGGTGAA CTGT	GCATCAAAATGAAGGA GGGA	60.0	591	INTERGENIC	--	--	--
Ca5_P1_10021365	Ca5	10021365	A/AG	CGGCCACAATTTACAT GACA	GTGGATGGACAAAAG GATGG	60.4	192	INTERGENIC	--	--	--
Ca5_P1_10023073	Ca5	10023073	A/AT	TGTGCCTAACGAGAAT GGTG	CCACTCCGTTCCCTG TTTA	59.7	386	INTERGENIC	--	--	--
Ca5_P1_10024689	Ca5	10024689	TAAA/TAAAA	GGGTCTTTAGGCCCTC TTGT	ACCTCGTGTGACTGAT GATGA	59.6	565	INTERGENIC	--	--	--
Ca5_P1_10025602	Ca5	10025602	TAAAAAAA/TAAAAAAA	TGAGTGCTCGACGACA TTTT	AGACCTGTTGATTGTG TTTTGG	59.4	700	INTERGENIC	--	--	--
Ca5_P1_10028140	Ca5	10028140	ATTT/ATTTT	CAAAGATATTGCACAT GCCG	AAAAGCGTTTCCTTTT AACCG	60.1	649	DRR	Ca_20513	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_10028201	Ca5	10028201	TGAAG/T	TGGAACTTTCCATATT GGTTCA	TGGATAAAAGACGGAG TCACG	59.3	777	DRR	Ca_20513	--	--
Ca5_P1_10029431	Ca5	10029431	ATTT/ATTTT	AAAAATGCCCTTAGTTA CACACAA	GAGACATTGGCAAGGT TGGT	59.1	513	DRR	Ca_20513	--	--
Ca5_P1_10047959	Ca5	10047959	GAAAAA/GAAAA	TGGAATCAACATGTG CCATCCA	TGCGATTATTTGTAAG GGGA	60.0	443	INTERGENIC	--	--	--
Ca5_P1_10048221	Ca5	10048221	AAAA/AAAATAAA	TCCCCTACAAATAATC GCA	TTGCACTCTCACCATA TCACAA	58.1	493	INTERGENIC	--	--	--
Ca5_P1_10054215	Ca5	10054215	ACTCT/ACTCTCT	TTGCCCACTTGATGA AACA	GCCATAGCACCTCTGT AGGC	60.1	531	DRR	Ca_20515	--	--
Ca5_P1_10054925	Ca5	10054925	AAT/AATAT	TATCCAGTTGGCGCTC TTTT	GGCAGATAGCAATGT AGCA	59.8	701	DRR	Ca_20515	--	--
Ca5_P1_10061262	Ca5	10061262	CAAAAA/CAAAAAA	TTGCTCAATCCCAATA GAAAA	TACCTTTTAGCGCCAC CATT	58.7	650	INTERGENIC	--	--	--
Ca5_P1_10076657	Ca5	10076657	CT/CTAT	GGACGGGTTGAACTT GAAA	GCTCCACCCACACTTT CATT	59.9	689	DRR	Ca_20517	I	--
Ca5_P1_10076985	Ca5	10076985	GATTTT/GATTTTAATATATTTT	TTGATATTTATCCGCC CTCG	ATTGCTCCACCCACAC TTTC	59.9	218	DRR	Ca_20517	I	--
Ca5_P1_10080488	Ca5	10080488	AAAGAAGAAGAAGAAGAAGAAGA AGAA/AAAGAAGAAGAAGAAGAAGAA GAA	CAATGAAGGTGAAGAT GGCA	CCACGTTCATACACAC TCCG	59.6	801	CDS (large-effect mutations)	Ca_20518	K	MYB_related
Ca5_P1_10084501	Ca5	10084501	CTTGTTTTGTTTT/CTTGTTTTGTT TTTGTTTT	TTTTTGCCATTCCCATC ATT	TCATGAAAATCATAAG CCACG	60.1	603	INTERGENIC	--	--	--
Ca5_P1_10084594	Ca5	10084594	TGGTCTCTCAATTGAA/T	TGGCAAAGTCCTCTTG AAGG	TCATGAAAATCATAAG CCACG	60.4	386	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_10121872	Ca5	10121872	TATT/TATTAATT	TTGCACTTTAGGCCAT TTTTG	TTTATTGGCACAAAAT AATCGTT	60.1	432	INTERGENIC	--	--	--
Ca5_P1_10124059	Ca5	10124059	TTTAATTAATTA/TTTAATTA	CCCACATTGACCTGAC CTTT	TTTGTGGAGTTGTTTC AACCAT	59.8	309	INTERGENIC	--	--	--
Ca5_P1_10125443	Ca5	10125443	TTCTCTCTCTCTCTCTCTCTCTCTC /TTCTCTCTCTCTCTCTC	TTTGGTTCTTGCTCA GCCT	CTTCAACCAACCCCT TTTT	60.0	593	INTERGENIC	--	--	--
Ca5_P1_10125497	Ca5	10125497	AATTATTATTATTATTATT/AATTATTAT TATTATTATTATT	TTTGGTTCTTGCTCA GCCT	GCACTCGAATTGTGAT CCCT	60.0	643	INTERGENIC	--	--	--
Ca5_P1_10127629	Ca5	10127629	AG/AGGG	CTAGTGAGCCGAGGT GAGG	GCCGCTGAATTCCTG GTAG	60.0	377	INTRON	Ca_20519	--	--
Ca5_P1_1012832	Ca5	1012832	GTTTTTTTT/GTTTTTTTTT	GATCCTAAGGCAGATG AGGG	TGCCATTCTTGAGTTG CTTG	58.7	871	INTERGENIC	--	--	--
Ca5_P1_10129472	Ca5	10129472	TAA/TAAA	TGAGGCAGACCAGGAA AACT	CTCACAAGGGGGAAT GAGA	59.8	265	INTRON	Ca_20519	--	--
Ca5_P1_10131612	Ca5	10131612	ATTTTGA/ATTTGAAGAGTTTGA	AATTAGACGACACGGG GTTG	GAGCCTCTTCATTTT CACCTT	59.9	485	DRR	Ca_20519	--	--
Ca5_P1_10131669	Ca5	10131669	TAAAAAAAAA/TAAAAAAAAAAAAA	AATTAGACGACACGGG GTTG	CGTATCAATTTCTTTTC AAATGG	59.9	635	DRR	Ca_20519	--	--
Ca5_P1_10132207	Ca5	10132207	CTTTTT/CTTTTT	TCCATTTGAAAGAAAT TGATACG	TCATCAACGGTCATTC AACC	59.4	737	DRR	Ca_20519	--	--
Ca5_P1_10148305	Ca5	10148305	ATATAT/A	GAGGCGGAAAGAACAC AAGA	GGAAAGGGCAACAAT GAGAA	60.4	437	INTERGENIC	--	--	--
Ca5_P1_10150121	Ca5	10150121	CG/C	TTTGAAATTAGTGCG ATTCAA	AGCTAGTGCATTGACC TGCC	59.6	511	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_10154398	Ca5	10154398	GGCAG/GGCAGCAG	CCTGCAATTGACAACA TTGG	GGCTTCTTAAAGGAT CCCC	60.0	657	DRR	Ca_20521	K	--
Ca5_P1_10159630	Ca5	10159630	TG/T	CCACAGGGCAAACG AAAT	GCACAATGGGCTTATT CGAT	60.0	197	INTERGENIC	--	--	--
Ca5_P1_10160827	Ca5	10160827	GAT/GATAT	GGTGGTGACTTGGCTT GATT	GGTTGAGTTAGGGGT GTCAAA	60.0	328	DRR	Ca_20522	--	C3H
Ca5_P1_10161411	Ca5	10161411	ATTTTTTT/ATTTTTTTTTT	TTTGACACCCCTAACT CAACC	TCCTTACGATTTTGGT CGATG	58.9	769	DRR	Ca_20522	--	C3H
Ca5_P1_10164457	Ca5	10164457	CAAA/CAA	GCGACTAAAGCGAAAA CCAG	TCCGGTTCTTACAGAC CACC	60.0	923	INTRON	Ca_20522	--	C3H
Ca5_P1_10165334	Ca5	10165334	GATAAATAAATAAATAAT/GATAAATA AATAAAT	GGTGGTCTGTAAGAAC CGGA	AGCGAATAGTCCAAC GTCCA	60.0	564	INTRON	Ca_20522	--	C3H
Ca5_P1_10165940	Ca5	10165940	TATGACCAATGAC/T	TGGACAGTTGGACTAT TCGCT	TTCTTCATTGAGGGGA CAAG	59.7	587	INTRON	Ca_20522	--	C3H
Ca5_P1_10176653	Ca5	10176653	CA/C	CTCTCAAACGGTTGCA TTGA	TGTTTCAGCTGTGATG CAAA	59.8	571	INTERGENIC	--	--	--
Ca5_P1_10185771	Ca5	10185771	CT/CTT	AAAAAGCAGTTTCGCC AGAA	GCCCTAGAATCCATGC AAAG	60.0	418	DRR	Ca_20524	--	--
Ca5_P1_10186000	Ca5	10186000	TTATC/T	ATTCTGCACCCCTCCAT GTTT	CCGTGGCATGTTATT CAAA	59.9	784	DRR	Ca_20523	Z	--
Ca5_P1_10191175	Ca5	10191175	CTTAAATTAT/C	TCTTGTTGCTGTGTCA TAGTTTCG	CATTTTTGCGTGTGTG TGCT	60.2	407	INTERGENIC	--	--	--
Ca5_P1_10191320	Ca5	10191320	ATA/ATATTA	TCTTGTTGCTGTGTCA TAGTTTCG	CATTTTTGCGTGTGTG TGCT	60.2	407	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_1020806	Ca5	1020806	TTTATTATTATTATTATTATTATT TTATTATTATTATTATTATT/TTTATTAT TATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATT	AATTATGCTCCGACTT CCCC	GAAGCCGAGAAAACG ACTTG	60.3	778	INTERGENIC	--	--	--
Ca5_P1_10222320	Ca5	10222320	ATTTTT/ATTTTT	CCACCGAAAACTTCA TCCA	CTACCGGCAAACTTCA TTCC	60.9	391	INTERGENIC	--	--	--
Ca5_P1_10223215	Ca5	10223215	CATAAAA/C	AATGGGGGTACATGGG AAAT	TCAATTCCACTTGCA CAATA	60.1	547	INTERGENIC	--	--	--
Ca5_P1_10224109	Ca5	10224109	TAAAAAAA/TAAAAAAA	GAATTGGCCTGGTATG GTTG	TGGAAATTTTGACAAT GGGG	60.2	182	INTERGENIC	--	--	--
Ca5_P1_10224537	Ca5	10224537	A/ATGATT	TCAAAAATCCGTTGT GAAA	CATCTTTGTGGTTGC ATTG	59.0	537	INTERGENIC	--	--	--
Ca5_P1_10234428	Ca5	10234428	AATATATATATAT/AAATATATATAT T	ACGACTTGCCGTTTCA GACT	GGGAATGTTTGAGAA ACCG	59.9	599	INTERGENIC	--	--	--
Ca5_P1_10234470	Ca5	10234470	TAAA/TAAAA	ACGACTTGCCGTTTCA GACT	GGGAATGTTTGAGAA ACCG	59.9	599	INTERGENIC	--	--	--
Ca5_P1_10250599	Ca5	10250599	CCA/C	TCTTTGGGTCAACAAC CTCC	TCCATTCTCATTCACT CGTCA	59.9	509	INTERGENIC	--	--	--
Ca5_P1_10251055	Ca5	10251055	TT/TTCT	ACCTGAATTGGATCAG CGAC	AAACAATTTTGATTTT GGTCAAG	60.1	725	INTERGENIC	--	--	--
Ca5_P1_10251441	Ca5	10251441	A/AG	TGACGAGTGAATGAGA ATGGA	ATAGTGCGCAATCATG CAAA	59.2	743	INTERGENIC	--	--	--
Ca5_P1_10262415	Ca5	10262415	AACACA/AACACACA	CATCAGGACCTCCCTT TGAA	AAGTCTGGTGGATTTG CTGC	60.0	635	INTERGENIC	--	--	--
Ca5_P1_10265605	Ca5	10265605	ATTTTTTT/ATTTTTTTTT	AGATGGAATGGATGCT TTGG	TCAAGATTAAAGTCGT CACGTA	59.9	467	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_10266065	Ca5	10266065	TAAAAAAAA/TAAAAAAAAA	CGTGACGACGTTAATC TTGA	CGAGGACAAGTCAAAC GACA	57.3	271	INTERGENIC	--	--	--
Ca5_P1_10269975	Ca5	10269975	TTATATATATATAT/TTATATATATAT AT	TGCAATGTTTATTGGAT GGC	AAATGATATATGATG GGAACATGG	59.4	455	INTERGENIC	--	--	--
Ca5_P1_10270264	Ca5	10270264	A/ATT	TGCAATGTTTATTGGAT GGC	AATGGAATGGTCAGAG AGTCAA	59.4	854	INTERGENIC	--	--	--
Ca5_P1_10270958	Ca5	10270958	AT/ATT	AGTAGCCAGTGGGTAA TGCC	CCACCGACGAAAGGTA TTGT	59.1	370	INTERGENIC	--	--	--
Ca5_P1_10275400	Ca5	10275400	A/AT	TGGATGGTTGTGATGT GCTAA	TGAATTGAAATATGGG TGATCAAA	60.0	295	INTERGENIC	--	--	--
Ca5_P1_10276357	Ca5	10276357	GC/GCC	TGCTCAAAACAATTTTCA GTTTCA	GTTGGGAATTTCAAAA ACGG	59.8	657	INTERGENIC	--	--	--
Ca5_P1_10276696	Ca5	10276696	A/AAAAAAAAAGATAAAAT	TGCTAACACAATGATT GGGC	GTTGGGAATTTCAAAA ACGG	60.9	285	INTERGENIC	--	--	--
Ca5_P1_10278876	Ca5	10278876	TGA/T	TCTGATATCTGCACCC CTCC	CAGTGGTCGATTTTGT GTGG	60.0	174	INTERGENIC	--	--	--
Ca5_P1_10280837	Ca5	10280837	AATATATATA/AATATATATATA	AAGTTCGAAATGCCGA TTTG	GCTGCATGTTCTTATG CTCG	60.1	689	INTERGENIC	--	--	--
Ca5_P1_10289518	Ca5	10289518	A/AT	TTGTGACACTTTTACC CGTG	GTTACGGTGTGCGGTT TTCT	58.6	343	INTERGENIC	--	--	--
Ca5_P1_10299950	Ca5	10299950	CAA/CAAAA	CCTTTTCAGCATTCCA ATTCA	GGTTAATTATTTTAAT GGGCGG	60.1	356	INTERGENIC	--	--	--
Ca5_P1_10300146	Ca5	10300146	GA/GATGATTAATAA	CCTTTTCAGCATTCCA ATTCA	GGTTAATTATTTTAAT GGGCGG	60.1	356	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_10300237	Ca5	10300237	TTCT/TT	CCTTTTCAGCATTCCA ATTCA	TTGACTTAATTCAGAG CACCCCTC	60.1	450	INTERGENIC	--	--	--
Ca5_P1_10313421	Ca5	10313421	CATATATATATATATATATATA/C ATATATATATATATATATATA	TTTGAGACTCGTCAG GACA	ATAATTTAGATGCGCC ACCG	59.4	452	INTERGENIC	--	--	--
Ca5_P1_10331676	Ca5	10331676	ATTTTTTTT/ATTTTTTTTT	AATGCCAAAATCTCAAA CCG	GCCATGTTTGCTTTG CACT	59.9	688	DRR	Ca_21237	O	E2F/DP
Ca5_P1_10331864	Ca5	10331864	TAAAAA/TAAAAA	AATGCCAAAATCTCAAA CCG	CAATGTTGTTGAGAAC CCGA	59.9	847	DRR	Ca_21237	O	E2F/DP
Ca5_P1_10338471	Ca5	10338471	TTAAAT	ACTGGCCATAAACTTG GTGC	AGAAAGATGGTGGTG CTGCT	60.0	703	INTRON	Ca_21237	O	E2F/DP
Ca5_P1_10346809	Ca5	10346809	GGTATATTGTATTTGTAT/GGTATAT TGTATATTGTATATTGTAT	AACAACGGATTGCTTT GACC	CAACCTTCTGGTGCAA CCTT	60.0	289	INTERGENIC	--	--	--
Ca5_P1_10348801	Ca5	10348801	ACC/ACCC	TGTGCCTGAAAATGAT TGGA	CAGCTTCGTACATTT GCCA	60.0	615	INTERGENIC	--	--	--
Ca5_P1_10363636	Ca5	10363636	T/TTAG	TTCCAGAGCGGACTCT TTGT	AGGAAATCCAGAGGA GCGAT	60.0	746	INTERGENIC	--	--	--
Ca5_P1_10363764	Ca5	10363764	TC/T	AAGTGGCAAAAGAGCA AACC	TCCCAAGAAAAGGAGC TTGA	59.4	530	INTERGENIC	--	--	--
Ca5_P1_10370673	Ca5	10370673	TAAAAAAAAA/TAAAAAAAAA	AAGGATACGGTTGCCT TGTG	AGGATCACTCCTTGCG TGTC	60.0	675	DRR	Ca_21234	V	bHLH
Ca5_P1_10370717	Ca5	10370717	ATTTTTTTTTT/ATTTTTTTTTT	AAGGATACGGTTGCCT TGTG	TTTGTGCGTTGTGACG TGTA	60.0	696	DRR	Ca_21234	V	bHLH
Ca5_P1_10370791	Ca5	10370791	ATATTTATTTATTTA/ATATTTATTTA	AAGGATACGGTTGCCT TGTG	TTTGTGCGTTGTGACG TGTA	60.0	696	DRR	Ca_21234	V	bHLH

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_10372230	Ca5	10372230	T/TGAATC	CGCGAACTAAGTCGCTCT	TGAGTGGCTTTAGGAA GCGT	59.9	296	INTERGENIC	--	--	--
Ca5_P1_10388504	Ca5	10388504	CTTT/CTTTT	TCCCATGTATTGCCACATC	AAATTGCAAGTGGAATGGC	59.2	464	INTERGENIC	--	--	--
Ca5_P1_10389384	Ca5	10389384	ATTTT/ATTTT	CATCACTGCATCCAGAGCC	CCTTTGCCAAGATGCA AAAT	60.4	506	INTERGENIC	--	--	--
Ca5_P1_10389582	Ca5	10389582	CTACGTTA/CTA	TGGTTGCTTCATTGCTTGTG	GCGAAGGATATTCGAC CAAG	60.8	216	INTERGENIC	--	--	--
Ca5_P1_10392503	Ca5	10392503	ATTTTTTTTT/ATTTTTTTTT	TCGATTTTTCTTCTTCGGG	GAGATAGATTTTGGTT GGTACGTT	59.3	533	INTERGENIC	--	--	--
Ca5_P1_10394462	Ca5	10394462	CATA/CA	GTGTTTTGACGGGAAGAA	TGAGCCACACATCACC ATCT	59.9	614	INTERGENIC	--	--	--
Ca5_P1_10396682	Ca5	10396682	TAAAAAAAA/TAAAAAAAA	TTGGAGGTCAAATCTGGGAG	AAATTTTATGCCGCC ACAC	60.0	310	INTERGENIC	--	--	--
Ca5_P1_10397846	Ca5	10397846	GAAAAAA/GAAAAAA	TCAAATTGTTGCAACTCCGA	TTTTATCCCATGGATACCAAGA	60.2	617	INTERGENIC	--	--	--
Ca5_P1_10404196	Ca5	10404196	TAAA/TAA	CGACAAAATTCATGGATGATAC	TGTGGGGTGAATGT GTATG	58.4	526	INTERGENIC	--	--	--
Ca5_P1_10409173	Ca5	10409173	TTGTGT/TTGTGTGT	TGGCTCTTGAAAAGAAACGAA	TCAATGGTGCTTTTGT TGGA	60.0	805	DRR	Ca_21231	--	WRKY
Ca5_P1_10413807	Ca5	10413807	GTTTTTTTTTTTT/GTTTTTTTTTT	TTCTCATGCTCACTGGTTGC	TCGCATTTAACCATTACACA	60.0	569	INTERGENIC	--	--	--
Ca5_P1_10414029	Ca5	10414029	TACCAC/TAC	TTCTCATGCTCACTGGTTGC	TCGCATTTAACCATTACACA	60.0	569	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca5_P1_10414356	Ca5	10414356	AG/A	TGTGTGAATGGTTAA TGCGA	TCGAGTACTCCAACGA CACCT	60.0	291	INTERGENIC	--	--	--
Ca5_P1_10415934	Ca5	10415934	GTTTTTT/GTTTTTTT	TGCTCCAATGATCTGG TAAAAA	AGCCATGATGGGAGC ATAAG	59.6	718	INTERGENIC	--	--	--
Ca5_P1_10417538	Ca5	10417538	A/AT	TGGGACCATAGCCAC ATTA	GCATTACCTCTCTTA TACCCG	61.1	595	INTERGENIC	--	--	--
Ca5_P1_10420664	Ca5	10420664	AATATATATATATATATATA/AATAT ATATATATATATATATATA	AAGGAAGGCCTACTCC CAAA	TACCAAGGCGTCGTCA AAAT	60.1	597	INTERGENIC	--	--	--
Ca5_P1_10456058	Ca5	10456058	TAAAAAAA/TAAAAAAA	CACTAATCACAAACAA AACCCA	CGATATGCTTGATGTA AATGTGC	59.0	609	INTERGENIC	--	--	--
Ca5_P1_10457260	Ca5	10457260	CACAATACTC/CACAATACTCTACAAT ACTC	GGGGCGAGATATTGAG ACAA	TGATTGTTCTAGTGGT CGCTCT	60.0	108	INTERGENIC	--	--	--
Ca5_P1_10457939	Ca5	10457939	CAAAAA/CAAAAAA	CAGGTTGATGAAATA GTATACACAAA	CAAGTTTGATACGCAT GAAGAGA	57.9	480	INTERGENIC	--	--	--
Ca5_P1_10472256	Ca5	10472256	ATCTTCTTCTTCTTCT/ATCTTCTTCT TCTT	CGGAATATTTTCCAC CACA	TGCGAAATCATTGAAG ATTGA	58.3	795	INTERGENIC	--	--	--
Ca5_P1_10474049	Ca5	10474049	TTC/TTCTC	CCTTTGGTTCGTTGAA GCTC	GCTTCAGGTGTTGGCT TCTT	59.9	415	INTERGENIC	--	--	--
Ca5_P1_10474510	Ca5	10474510	T/TA	CCTTTGGTTCGTTGAA GCTC	AAGGGAATGTCACCAT GGAA	59.9	695	INTERGENIC	--	--	--
Ca5_P1_10495487	Ca5	10495487	GTGAG/GTGAGATTGAG	GAACGGTTGTTGCACT TGATT	CAACAACATTGCGTTG AAGTG	60.0	741	INTERGENIC	--	--	--
Ca5_P1_10496835	Ca5	10496835	TTAAATAAA/TTAAATAAAATAAA	ATGGTGCTCTTCGAT GGTC	GGGTGCTCTTCGGTT GTAAA	60.1	410	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_10497866	Ca5	10497866	AT/ATT	GCAAACGGGTTAATTG GAGA	GTCTTATGAGCCGAAG GTCG	59.9	764	INTERGENIC	--	--	--
Ca5_P1_10507484	Ca5	10507484	ATTTTTTTTT/ATTTTTTTTT	TGCAAGTTAAAGAATA ATTTAGAGCG	GGAACGATTGGATTG GAGA	59.5	897	INTERGENIC	--	--	--
Ca5_P1_10508614	Ca5	10508614	GCA/GCACA	GCTTTGAAGCTCAACC TTGC	TGGGCCCTATTGCTCT AAAA	60.1	321	INTRON	Ca_21230	--	--
Ca5_P1_10513103	Ca5	10513103	AT/ATCTACACT	TTGACCGACACCAATC AGAA	CTTGCAATCCACAGGA AAAT	60.1	544	INTERGENIC	--	--	--
Ca5_P1_10513256	Ca5	10513256	AATATATATATATATATA/AATATAT ATATATATATATATA	TTGACCGACACCAATC AGAA	CTTGCAATCCACAGGA AAAT	60.1	544	INTERGENIC	--	--	--
Ca5_P1_10514189	Ca5	10514189	TAAAAA/TAAAAA	TGGTTAAATTGCTCTG AAGTGA	GGGAGGATGGGACAA TTTCT	57.6	501	INTERGENIC	--	--	--
Ca5_P1_10515370	Ca5	10515370	A/AT	CGATTAAAGTCAAAGT TTCACGA	AGCAAACAGGTTGTC CTGT	58.5	560	INTERGENIC	--	--	--
Ca5_P1_10516286	Ca5	10516286	TTTTTATTTATTTT/TTTTATTTATT TTATTTT	ATTTGGGTTGAAGTG TGCC	ATTCAATGCAACTCC CTGC	59.8	598	INTERGENIC	--	--	--
Ca5_P1_10531161	Ca5	10531161	G/GCTTGCA	ATGGTTTTCCAAGTTT TCG	CCTAGGTTCAAAACCA CCCA	59.8	501	INTRON	Ca_21228	--	--
Ca5_P1_10549913	Ca5	10549913	A/AG	ATTTAGCGGGTTAGG CACT	GGTTTTCAACAACAC GGCT	60.0	805	DRR	Ca_21226	--	--
Ca5_P1_10550017	Ca5	10550017	C/CATATTTTACCATTGAT	CTCCTCATATTGCAGG CGTT	CGGCTAAACAACAAGC CATT	60.2	703	DRR	Ca_21226	--	--
Ca5_P1_10559602	Ca5	10559602	AT/ATTATCATTCATATGT	TGTCAATTCAAATTAGA CCCCAAA	GCTTTTACGGAATGCG AAAA	59.8	250	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_10561090	Ca5	10561090	TAGAGA/TAGAGAGA	CACGAGATCTTGAGGC ATGA	TGTTGGTTTGTGTGG GTTG	59.9	383	INTERGENIC	--	--	--
Ca5_P1_10564601	Ca5	10564601	ATTTT/ATT	TCCAAATCCCAAGCTA CCAA	GGGCTCATTTCCCTT TAAC	60.4	408	INTRON	Ca_21225	--	--
Ca5_P1_10569446	Ca5	10569446	TT/TTCTCT	GCATTGGGGGCATACA TATC	AAAAGCTCACTGAAGC AGGG	60.0	362	INTERGENIC	--	--	--
Ca5_P1_1057278	Ca5	1057278	CCTC/CGGATTACTC	TACGGTGCTAGGGAAC CAAC	TTGGAAGGAGCCCTTA CCTT	60.0	109	INTERGENIC	--	--	--
Ca5_P1_10574825	Ca5	10574825	A/AT	CGTGGACAAAGATCGT GATG	TTGTTTATTAGCAGT GTCAATGG	60.1	479	INTERGENIC	--	--	--
Ca5_P1_10592850	Ca5	10592850	GAAAAAAAA/GAAAAAAAAA	GATCAAATGTCAGACC TCACCA	ACCAGCCCTAAACCA AGAT	60.0	770	INTERGENIC	--	--	--
Ca5_P1_10605600	Ca5	10605600	GT/GTT	AGTGAAACCAACGCCA AAAC	TCACTCAAAGGGCTAC TGCC	60.0	272	DRR	Ca_21224	--	--
Ca5_P1_10625989	Ca5	10625989	TAAAAAAAA/TAAAAAAAA	TGTAGGGGTACAGGG GAAAG	AAC TTCGTGTTTT GCCA	58.9	165	INTERGENIC	--	--	--
Ca5_P1_10634338	Ca5	10634338	AC/ACC	AATTTTTCAGTCCCGT GTCG	ATCCCTCAAAGGGCTA CTGC	60.0	229	INTERGENIC	--	--	--
Ca5_P1_10638738	Ca5	10638738	GAAAAAAAA/GAAAAAAAA	TTAAACTGCAATGTC CCCC	TGTTTATTGTTGTG TCAATGG	59.8	541	INTERGENIC	--	--	--
Ca5_P1_1065182	Ca5	1065182	TAAAA/TAAAAA	AATGGCCACGAATCTG AAAG	ACCATTTTCAACTGCA TCCC	60.1	634	INTERGENIC	--	--	--
Ca5_P1_10668282	Ca5	10668282	ATTT/ATTTT	GGGCGATTATATACCA GCGA	TGGCAACTATTTGAG CTTTTC	59.9	564	DRR	Ca_21221	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_10679625	Ca5	10679625	TAAAAAAAA/TAAAAAAAAA	GGGATTGTTTGAATA TGAGGG	TCACAGCATTTTG GCAT	59.6	596	INTERGENIC	--	--	--
Ca5_P1_10686981	Ca5	10686981	TAAAAAAAA/TAAAAAAAAA	GCTCCTTCTGCATCAA CACA	TGCCCCACATTTAGA CCTC	60.0	509	INTERGENIC	--	--	--
Ca5_P1_10689004	Ca5	10689004	A/AAC	GAGCCATCATCTAAAC CCCA	TGCCAAAGAAAAGGT TTCG	59.9	677	INTERGENIC	--	--	--
Ca5_P1_10689102	Ca5	10689102	TAAA/TAA	ATGGGCCACCTATTGA GACA	TGCCAAAGAAAAGGT TTCG	60.3	623	INTERGENIC	--	--	--
Ca5_P1_10689622	Ca5	10689622	AGAAGCATG/AG	CGAAACCTTTTCTTTG GCA	AACGGATTGTCCCTTC ATTG	60.2	418	INTERGENIC	--	--	--
Ca5_P1_10693789	Ca5	10693789	CTTGTGATTGTTTGTGTGATTG/CT TGTGATTG	CCAATTGAATTGTCC GTCC	TTGCAAAGCTGGGTC AAGT	60.2	406	INTERGENIC	--	--	--
Ca5_P1_10759502	Ca5	10759502	TA/T	GACCAGCAGCAAAC TTCC	CAGCAGCAATCTCTCT TCCC	60.0	856	INTERGENIC	--	--	--
Ca5_P1_10767937	Ca5	10767937	AATATATATATATATATATATATATA TATATATATATATA/AATATATATATAT ATATATATATATATATATATATATATA ATA	AGATGCAGACTTGCGT GTTG	CAAGTCATTCGTA ATCGG	60.1	202	INTERGENIC	--	--	--
Ca5_P1_10794967	Ca5	10794967	A/AC	GGTTTCAAACCAAAA TTCAAAA	TGCGTACTTAAATG TTTGGC	59.3	378	INTERGENIC	--	--	--
Ca5_P1_1083059	Ca5	1083059	ATTTTTTTTTTTTT/ATTTTTTTTTTT	TCAATCCGAACAAAC ATGAA	CGATGATCTTCTTCT CACCC	59.0	338	INTERGENIC	--	--	--
Ca5_P1_10852097	Ca5	10852097	AATATATATATAT/AATATATATAT	CACAGTTGTCCACGTA CGAAA	AAATGGAGGTTTCAAT TGCG	59.7	499	INTERGENIC	--	--	--
Ca5_P1_10854611	Ca5	10854611	ATTTTT/ATTTTTTTTT	GCGAGCATGAGAAGT GTTG	CAATCACTCATTAATG TCAATCCA	59.6	599	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_10931505	Ca5	10931505	AG/A	TTGATGAATTTGATGTC GTTGA	AAATACCTTACGCGGT CCCT	59.0	344	INTERGENIC	--	--	--
Ca5_P1_10995810	Ca5	10995810	AAATAATAATAATAATAAT/AAATA ATAATAATAATAAT	ACTTCAGGTGGTCGAT GTCC	GGGAGCGACCTCACA CTAGA	60.0	923	INTERGENIC	--	--	--
Ca5_P1_11014094	Ca5	11014094	TTTATTATTATTATTATTATTAT/TT TATTATTATTATTATTATTAT	AGTGTGTCGGTTAGGG ATGG	GGTCTGAGTCTGGCC TACGA	59.8	650	INTERGENIC	--	--	--
Ca5_P1_1105618	Ca5	1105618	TT/TTCCCT	GCACCAGTCATCTCAT CACG	TTACCAATGCTTGAGA TGCG	60.3	556	INTERGENIC	--	--	--
Ca5_P1_11058700	Ca5	11058700	AATATATATATATATATATATATATA T/AATATATATATATATATATATAT	AATTGCTCCCATAGTC CCTT	AATTGCTCATGCGGTC TCTT	57.6	469	INTERGENIC	--	--	--
Ca5_P1_11131180	Ca5	11131180	GT/GTT	CAAGTGACAGCGGAA TTTA	TCCGATTGGATTTTCA GGAC	59.9	148	INTERGENIC	--	--	--
Ca5_P1_11132723	Ca5	11132723	TTTATTATTATTATTATTA/TTTATTAT ATTATTA	AAAAACCAACATCTC CCCC	TGTTTTCTGCCTTTT GCCT	60.0	262	INTERGENIC	--	--	--
Ca5_P1_11167847	Ca5	11167847	CAAAAAAAAAAAAA/CAAAAAAAAA	GGTGGACTCGAGCAA GTAGC	AAAGCATCAGTTCGGT TTGAA	60.0	459	INTERGENIC	--	--	--
Ca5_P1_11168411	Ca5	11168411	AATA/AA	TTCAAACGGAAGTAT GCTTT	TTGGTTGGGGAGTTA TTGA	59.7	954	INTERGENIC	--	--	--
Ca5_P1_11168737	Ca5	11168737	ATGT/A	TCGTTGAGGAAAAACA AACAAA	TTGGTTGGGGAGTTA TTGA	59.6	557	INTERGENIC	--	--	--
Ca5_P1_11168801	Ca5	11168801	ACTATTAGTCTATTA/ACTATTA	TCGTTGAGGAAAAACA AACAAA	TTGGTTGGGGAGTTA TTGA	59.6	557	INTERGENIC	--	--	--
Ca5_P1_11168904	Ca5	11168904	GTCTCTCT/GTCTCT	TCAATAACTCCCCAA CCAA	TCACAATTGGGTTTGG ATCA	60.2	227	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_11169035	Ca5	11169035	CG/C	TCAATAACTCCCCAA CCAA	TGACGCCGTGAAAAAC ATTA	60.2	626	INTERGENIC	--	--	--
Ca5_P1_11169613	Ca5	11169613	C/CG	TGAAGCAGTTGTTGG GTGA	GAGCCCAAATCCAAAA TTCA	60.3	225	CDS (FRAME SHIFT)	Ca_23744	A	--
Ca5_P1_11169708	Ca5	11169708	T/TGCAA	TGAAGCAGTTGTTGG GTGA	GAGCCCAAATCCAAAA TTCA	60.3	225	DRR	Ca_23744	A	--
Ca5_P1_11233017	Ca5	11233017	TAAAAA/TAAA	ATTGGACGTATCCCGA GTTG	GTTGTGGGATGAACTG ACCC	59.8	633	INTERGENIC	--	--	--
Ca5_P1_11244127	Ca5	11244127	TAAAAAAA/TAAAAAA	AACTTGATGCCGAGTA GCGT	TCTCCCTCCTCCTTC ATTT	59.9	280	INTERGENIC	--	--	--
Ca5_P1_11272777	Ca5	11272777	A/ATTTATTTGTCGTGTAG	TTGTTAGTGATGGGCC ACAA	ACGAATGTTGGTCAGG GAAG	60.0	519	INTERGENIC	--	--	--
Ca5_P1_11338251	Ca5	11338251	TAAAAAAA/TAAAAAAA	CGAGGTAAGCATGGT GGAT	TTTGCTTTTCAAAGTT GGCA	60.0	690	INTERGENIC	--	--	--
Ca5_P1_11340361	Ca5	11340361	GTTTTTTTTT/GTTTTTTTTT	CATATTTGGGGGATGT CCAG	CACGTGTTGAATTAAG CGGA	60.0	341	INTERGENIC	--	--	--
Ca5_P1_11420785	Ca5	11420785	TTATTA/TTACTATTA	ATTAAGTGAATGGATC GCGG	AGTGTGGAAGGACGA GCAAG	59.9	485	INTERGENIC	--	--	--
Ca5_P1_11494201	Ca5	11494201	AGA/AGATATGA	CGTATGTTTATTTGAAA TGTTTTGA	GGATGCCAATTGGTAG GTTT	57.4	295	INTERGENIC	--	--	--
Ca5_P1_11498601	Ca5	11498601	ACATCGAATAGTTGGATCATCGAATA GTTGGATCATCGAATAGTTGGATCAT CGAA/ACATCGAATAGTTGGATCATCG AATAGTTGGATCATCGAA	CTGTTCAACCATCGAA ATTGT	CTTCGTTGATCGAACG GTTT	57.6	417	INTERGENIC	--	--	--
Ca5_P1_11505972	Ca5	11505972	TTCTTC/TTTC	GGACCTAAATTTTGCA ACAACA	GAACGCGAGATATTGG GTGT	59.0	199	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_115778	Ca5	115778	TTCACCGGTCA/TTCA	AAAGATTGCAATTTC CTGC	TTTTAGGGGGCGATT GTATT	60.2	511	INTERGENIC	--	--	--
Ca5_P1_11582454	Ca5	11582454	TT/TAAAAACCTTTTAT	TGACTCATCAATTCGA ACGC	GAATGCCACCAGGAAA AGAA	59.8	643	INTERGENIC	--	--	--
Ca5_P1_11582895	Ca5	11582895	AT/ATTGT	TTCTTTTCTGGTGGC ATTC	AGCGATGCATGTCTCA AGTG	60.1	490	INTERGENIC	--	--	--
Ca5_P1_11587595	Ca5	11587595	TTATATATATATATATAT/TTATATAT ATATATATAT	TCGAACTACCTTCCCC CTTT	TTGTTGGAGTGTTTT GACG	59.9	756	DRR	Ca_23350	--	Trihelix
Ca5_P1_11628665	Ca5	11628665	CNNNNNNNNN/CNN	TATCCCCGTCCATTAA CCAA	GGGAGTGTTGAGAC CTTGA	60.0	248	INTERGENIC	--	--	--
Ca5_P1_11729570	Ca5	11729570	AAATAATAATA/AAATAATAA	CACGGTCCCTAGAGCC AATA	CGGGAGATACGTAGG AGCAA	60.1	672	INTERGENIC	--	--	--
Ca5_P1_11760778	Ca5	11760778	A/AC	ACAACCTTCTCATGCTC GCAA	GGGAAAATCATGTTTA TCACAATC	59.6	329	INTERGENIC	--	--	--
Ca5_P1_11861465	Ca5	11861465	GTATA/GTATACATATATATA	TGAACCAAAGACACAA CGGA	TTTTTCAACAAAGCAAT GGAAA	60.1	232	INTERGENIC	--	--	--
Ca5_P1_11878820	Ca5	11878820	CATATATATATATATATATATATA T/CATATATATATATATATATATAT	TATTTTGGATTTTGGCT CGG	AGAGGGGTTTGTGTTT GACG	59.9	599	INTERGENIC	--	--	--
Ca5_P1_11879108	Ca5	11879108	TAA/TAAA	AAGATTTCCTCCCTCC TCCA	CTTTAACATGCGTTTC CGGT	60.0	327	INTERGENIC	--	--	--
Ca5_P1_11886997	Ca5	11886997	GATAATAATAATAATAATAA/GATA ATAATAATAATAATAATAA	TGCCTTCGGTTTTCTC ATTG	AATGTTTGAATTCCC CCTC	60.1	888	INTERGENIC	--	--	--
Ca5_P1_11930966	Ca5	11930966	TAAAAAAAA/TAAAAAAAAA	CATGCTGCAAGGGATT GTTA	GCGCGCTTGTTACT CGTT	59.7	856	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDCC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_11936712	Ca5	11936712	TTATATATATATATATATAT/TTATATATATATATATATATATAT	TCTCTTCGAGTCCCCTGTTCAC	GCTCTGGACCAATTACCACG	60.0	389	INTERGENIC	--	--	--
Ca5_P1_11973623	Ca5	11973623	AATATATATATATATATATATATATA TATATATATATATATATAT/AATATATAT ATATATATATATATATATATATAT	TCAATGCATATATTTACCGTGAGC	TTGCCAATGTTGGGATTTTT	60.2	520	INTERGENIC	--	--	--
Ca5_P1_11983861	Ca5	11983861	GTCT/GATCTTCT	CTGCTGTCAACTCCACTCCA	TCAAATCCCCCAATAACCA	60.0	713	DRR	Ca_17106	--	--
Ca5_P1_1202538	Ca5	1202538	ATTTTTTTTT/ATTTTTTTTTT	AGAAACCAACAACCTCACACA	GATCCCCTGGGTCTCTTTC	58.7	459	INTERGENIC	--	--	--
Ca5_P1_12040897	Ca5	12040897	T/TTTTAATGAAG	TCGATGATGTTAACTGCAAG	GCGGTGTCATTTTGTTTCAA	57.9	636	INTERGENIC	--	--	--
Ca5_P1_12194821	Ca5	12194821	TTTATTATTATTATTATTATTATTATTA TTATTATTATTATTATTATI/TTATTAT TATTATTATTATTATTATTATTATTATT ATTATTATTATTATT	TATTTTGCTCCCCATCAGC	GAGGAGTCACCAATGCAAG	60.0	560	INTERGENIC	--	--	--
Ca5_P1_12232596	Ca5	12232596	GTTTTTTTTT/GTTTTTTTTT	C GGACACCATCTCTGCTGTT	AAAAATCAATTCAATCCATCCA	61.3	588	INTERGENIC	--	--	--
Ca5_P1_12272837	Ca5	12272837	CAAA/CAA	TGACGTAACTGCATGTCCC	TTCATCTTCATCCTCCACCC	59.6	627	INTERGENIC	--	--	--
Ca5_P1_12292180	Ca5	12292180	AA/AATAATA	CAATGCAATCAGTGGAAGAAA	CCCCTCTCAAATTCATGACAA	58.8	663	INTERGENIC	--	--	--
Ca5_P1_1230644	Ca5	1230644	T/TCCGTA	ACGAATCGAAGAGAAGCGA	TCCAGGACACAAACAAATCCA	60.1	455	INTERGENIC	--	--	--
Ca5_P1_12371198	Ca5	12371198	TTATATATATATATATA/TTATATATATA TATATATA	ACATGCGAGAAAACCTCGAT	GGTGATTGATGGAAGGAGACA	59.7	459	INTERGENIC	--	--	--
Ca5_P1_12448859	Ca5	12448859	ATTTT/ATTTTT	TTCTACCCGAAATTTGTGCC	GTCAGTCAGCCTCTCTTGCC	59.9	361	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_12491196	Ca5	12491196	ATTTTT/ATTTTT	CCAATAGGTGGTGGCA ATCT	CACAAGCTGTTTTGTG CCAT	59.8	274	INTERGENIC	--	--	--
Ca5_P1_12619050	Ca5	12619050	AATATATATATATATATATATA/AAT ATATATATATATATATATATATATA	TCCTAACCTTTTGACTA ATTTTCTTC	TCAATCCTCTTAAGAT ATTCCCTG	58.9	685	INTERGENIC	--	--	--
Ca5_P1_12621591	Ca5	12621591	ATATTATTATTATTATTATTATTAT TATTATTATTAT/ATATTATTATTATTAT TATTATTATTATTATTATTAT	GCGAATTGGTAAACGT AAAGG	TCAACTCTAGCACCAT CCCC	58.7	410	INTERGENIC	--	--	--
Ca5_P1_12631984	Ca5	12631984	GCGTC/GC	GGTTATCACCGTGGTG CTCT	TGGCTTCTGGTTGGAT TTTC	60.0	648	INTERGENIC	--	--	--
Ca5_P1_12635374	Ca5	12635374	T/TAA	TGGAACCAACACACA CCAT	AGCGAAAAGAAGATTG GTCG	59.7	642	INTERGENIC	--	--	--
Ca5_P1_1269046	Ca5	1269046	AAATT/A	TCCGGTACACAACTTT TCCC	ACCCATCATTTCCAAC CAAC	59.8	376	DRR	Ca_26280	E	--
Ca5_P1_131876	Ca5	131876	GTTTT/GTTTT	ATCCAAGTATCCAACG GCTG	CACCTCTGCCCACTTC ATTT	60.0	493	INTERGENIC	--	--	--
Ca5_P1_132937	Ca5	132937	CAA/CAAA	CCAAAGACACAGCAA GCAA	CACCTCCACCAAGTTGC AAAA	60.0	569	INTERGENIC	--	--	--
Ca5_P1_133283	Ca5	133283	AATATAT/AATAT	ACCTTTACATGGTGCC AAGC	GCGTTGTGAAAACAGG ACAA	60.0	433	INTERGENIC	--	--	--
Ca5_P1_133428	Ca5	133428	GAACA/GAACAATTTTATAATAACA	ACCTTTACATGGTGCC AAGC	GCGTTGTGAAAACAGG ACAA	60.0	433	INTERGENIC	--	--	--
Ca5_P1_133862	Ca5	133862	ATTTTTTTTTTT/ATTTTTTTTTT	TTGTCCTGTTTTCACAA CGC	TCAACAATTTGTGGGC TTCA	59.7	574	INTERGENIC	--	--	--
Ca5_P1_1338861	Ca5	1338861	TTTATTATTATTATTATTATTATTA TTATTATTAT/TTTATTATTATTATTAT ATTATTATTATTATTATTATTAT	AACAGGGAGCGGAATT TTCT	GATCGCAACTGTGGA TGTG	60.1	677	DRR	Ca_26443	O	--

[illegible]

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_13837733	Ca5	13837733	TA/TAATCTTTGTAA	ATCATTGCGATGCCAT CTCA	AAAGGGATACACCTT TGGG	60.0	159	INTERGENIC	--	--	--
Ca5_P1_1384061	Ca5	1384061	TAAAA/TAAAAA	GAAGGGACTGCGGCA TAATA	CCACTTCTCCCCCTTC TTTC	60.1	165	INTERGENIC	--	--	--
Ca5_P1_13855690	Ca5	13855690	TA/TAA	CCAGGTTTCACTCAA CTCA	GGGTGATGAGGACTC AGGAA	59.9	573	INTERGENIC	--	--	--
Ca5_P1_13858932	Ca5	13858932	A/AC	GATTCCCCATTCTTAA CGCC	TCGCGAAGAGATAGAA GGGA	60.6	554	INTERGENIC	--	--	--
Ca5_P1_13970765	Ca5	13970765	TA/TGA	TATTTGGACAAACGAA GGGC	CCCTTTTGCTTGTTG GTTA	59.9	282	INTERGENIC	--	--	--
Ca5_P1_13971864	Ca5	13971864	AATATATATATATATATATATATA /AATATATATATATATATATATATA ATA	ATGGAGACTTTCTGCA GCGT	TCCTCCGGCTGCTAAA TAAA	60.0	691	INTERGENIC	--	--	--
Ca5_P1_14022502	Ca5	14022502	ATTT/ATTTT	GGAAATGGATGTCTGC CAAT	TTGCAATCTCATCAAC TCGG	59.8	318	INTERGENIC	--	--	--
Ca5_P1_14022785	Ca5	14022785	GA/GATAATGAA	CGGACCGAGTTGATGA GATT	TGCTTTGAAGACCATG TGGA	60.1	618	INTERGENIC	--	--	--
Ca5_P1_14084083	Ca5	14084083	A/ACAAGGATG	TGTTGTTGTGATTGTG CCCT	TTAGCATGCACCTTGA AAGC	60.0	385	DRR	Ca_20825	K	--
Ca5_P1_140974	Ca5	140974	AT/ATTT	GCTGAAAGGGAAATC ACCA	CAGTTGTAGAACCCGC CAAT	60.1	417	INTRON	Ca_18170	--	--
Ca5_P1_14184624	Ca5	14184624	AATATATATATATATATATATA/AAT ATATATATATATATATATATA	GCGTTAATTTCCATCG CAGT	TTTAGCCCGCAACAAG TAGG	60.1	384	INTERGENIC	--	--	--
Ca5_P1_14221007	Ca5	14221007	CATATATATATATATATATATAT/CA TATATATATATATATATATAT	TCCTAGCATCGTAGC GTGG	TGAGGTGCCTTCTTTC CTGT	60.0	749	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_14263455	Ca5	14263455	AATATATATATATATATATATA/AAT ATATATATATATATATATATATA	ACTTGCAGCAATTTCC ATCC	GGATGCTTCCCATAAT CTGC	60.1	716	INTERGENIC	--	--	--
Ca5_P1_14307259	Ca5	14307259	TTTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTAT/ TTTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTAT TATTAT	GCTCTCCAACAACAAA TCAACA	CACCTGAAATTTTAGG CCGC	60.2	798	INTERGENIC	--	--	--
Ca5_P1_14330970	Ca5	14330970	ATTTTTTTTT/ATTTTTTTTTT	TGATTAAGAAGTTTGA TTTGCG	GGTTTGGACAATCTGC CTTG	58.5	795	INTERGENIC	--	--	--
Ca5_P1_14344532	Ca5	14344532	GTCT/GT	CCCCAACAGTATCCGA AAAA	TGTTTGAAATGCTCT CCTAATTGA	59.8	600	DRR	Ca_20838	R	--
Ca5_P1_14394852	Ca5	14394852	CTTTT/CTTTT	TCTTCCACCCAGTTT CACC	TTGAGGGCTATGTTT TCGG	59.9	337	INTERGENIC	--	--	--
Ca5_P1_14419667	Ca5	14419667	TAAAAAAAAAAAAAAAAA A	ATTTGTCAAGCTTTGG CCTG	CTATTCTCCACGAGCG AAGC	60.2	624	INTERGENIC	--	--	--
Ca5_P1_144346	Ca5	144346	AATTATGACTTTATT/AATT	ATGGTTTAAGTCTGCG GTGG	TGCTGAAGTGGTTCCT TCCT	60.0	259	DRR	Ca_18170	--	--
Ca5_P1_146201	Ca5	146201	TAAAAAAAA/TAAAAAAAA	GCCTCTATAAACCCG CACC	TTTTTCTCAACATACC ACCTATTTAA	59.6	833	INTERGENIC	--	--	--
Ca5_P1_146635	Ca5	146635	GAAAAAAAA/GAAAAAAAA	TGCATTTATTACTTCT TACCAACA	CGAGGAAGGTAATACC ATTTTGA	57.2	712	INTERGENIC	--	--	--
Ca5_P1_150887	Ca5	150887	GTTTTTTTTT/GTTTTTTTT	CATTGTTGGTTTGAAC CGTG	GAGTTTGGCACCCAG TCAT	59.9	468	INTERGENIC	--	--	--
Ca5_P1_15176756	Ca5	15176756	AATATATATATATATATATATATA T/AATATATATATATATATATATAT ATAT	ACATTAGGGCCACTT GGTG	GTTGGTTCCCTAGCAC CGTA	59.9	725	INTERGENIC	--	--	--
Ca5_P1_15184248	Ca5	15184248	AGGGGGGG/AGGGGGGGG	TCTAACCCGGAATCCT TTGA	TGAGGATTGAACGTAA CCCA	59.5	300	DRR	Ca_21631	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_15188475	Ca5	15188475	AA/AAAATA	TTCATTGGATTGTTTGT GCAT	GGTTCAAAAGAGGG AGGAG	58.9	596	INTERGENIC	--	--	--
Ca5_P1_15219291	Ca5	15219291	AATCAAGTGATCAAGTGATCAA/AATC AAGTGATCAAGTGATCAAGTGATCAA	TGTGTTAGTCGTGTTT GGCA	CCTTTAGATTTTGCAT CGCC	58.8	378	DRR	Ca_21632	--	Trihelix
Ca5_P1_15241568	Ca5	15241568	GAAAAAA/GAAAAAA	CAATGGAAAAAGTTGC ACACA	TTGCATATTAGTATTG CATTGTCAAA	59.6	393	INTERGENIC	--	--	--
Ca5_P1_15339602	Ca5	15339602	GAAAAAAAA/GAAAAAAAA	AGGAGAGAAAAAGGG GGAA	GGGAAACCCACCTCTT GATT	59.1	211	INTERGENIC	--	--	--
Ca5_P1_15341704	Ca5	15341704	GTTT/GTT	AAACACATCAGCTTCC TTCCA	CGAGTTGGTGAACC AGAAT	59.7	388	INTERGENIC	--	--	--
Ca5_P1_15358764	Ca5	15358764	CTTTTTTTTT/CTTTTTTTTT	AAAGGCAAGGCTCGTT ACAA	TTGTGCTATGGTGCTT TTGC	59.9	392	INTERGENIC	--	--	--
Ca5_P1_155645	Ca5	155645	TAAAAA/TAAAAA	GAGTGGTCACTCACGG GTTT	CCAATTTTCCCACTTG GTTG	60.0	773	INTERGENIC	--	--	--
Ca5_P1_1558914	Ca5	1558914	TAAAAAAA/TAAAAAAA	TCAAGATTGCAACCT GCAT	TCTTCAGGTTCCAGCA AACC	59.3	452	INTERGENIC	--	--	--
Ca5_P1_15604604	Ca5	15604604	TAA/TAAA	ATGTAACTGGGCGTT GAGG	TCACGGGTCAACACGA TTTA	60.0	420	INTERGENIC	--	--	--
Ca5_P1_15634036	Ca5	15634036	CATATATATATATATATATATAT/CA TATATATATATATATATAT	TTGGAAGGAGCCCTTA CCTT	ATGCGTCTTGGAATT GGAG	60.1	944	INTERGENIC	--	--	--
Ca5_P1_15704508	Ca5	15704508	TTATTATTATTATTAT/TTATTATTATTA TTATTAT	CCCAAGTCGATCAAGG AAAA	TCCCAACAGCCTAAC AACC	60.0	421	INTERGENIC	--	--	--
Ca5_P1_15756736	Ca5	15756736	GACAC/GAC	GCGCGATTACCAAAA ATGT	TTTGAGTGGTGGGTTG TGAA	60.0	431	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_15773178	Ca5	15773178	GATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTATT TTATTATTATT	GCCTTAAATTTGGCA ATGG	TCTTCGCAATCAAAA GAATGA	59.4	807	INTERGENIC	--	--	--
Ca5_P1_15835478	Ca5	15835478	CAAAA/CAAA	TGCATGATTCCAGAA TCCA	AGCGGTGAGGAGAAC TCTGA	60.0	690	INTERGENIC	--	--	--
Ca5_P1_15877436	Ca5	15877436	GC/G	GGGCTACATCCAGTCC TCAC	TTTGGCTGTAGAGTT CCAAA	59.5	474	INTERGENIC	--	--	--
Ca5_P1_158794	Ca5	158794	TAAAAA/TAAAAA	TGATGCGTCATGGACA TAAA	TTTTAAAAATGTCCATT TACACCG	58.5	498	INTERGENIC	--	--	--
Ca5_P1_15885113	Ca5	15885113	CTTT/CTT	CAACCTCCATGACATG CACT	TGTCGGAGGGATTATT CGAG	59.6	409	INTERGENIC	--	--	--
Ca5_P1_15918981	Ca5	15918981	TTTATTATTATTATTATTATTATTAT TTATTATTATTATTATTATTATT/TTTAT TATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTATT	CCTCCCCCATTTGTCT TCTT	GCCTGATGTTCGAATT TTTCA	60.3	462	INTERGENIC	--	--	--
Ca5_P1_15929247	Ca5	15929247	AACCAC/AAC	TGATGACGAAGACGAA GACG	AACACATCCGGGATCC ATTA	60.0	416	INTERGENIC	--	--	--
Ca5_P1_15929348	Ca5	15929348	ACCC/ACC	TGATGACGAAGACGAA GACG	AACACATCCGGGATCC ATTA	60.0	416	INTERGENIC	--	--	--
Ca5_P1_15984521	Ca5	15984521	TAAAAAAAAA/TAAAAAAAAA	TTGTTTCTAGGATAAGT TTGTGATGC	CCATGCTTGTGCACA ATTT	60.0	811	INTERGENIC	--	--	--
Ca5_P1_160572	Ca5	160572	TAAAAAAAAA/TAAAAAAAAA	AATCCAATGGCTTTCA ATCAA	CACACGACAAAGTGA GTATCAG	59.4	570	INTERGENIC	--	--	--
Ca5_P1_16097947	Ca5	16097947	TATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATAA TAA/TATAATAATAATAATAATAAAT AATAATAATAATAATAATAATAATA ATAATAATAATAA	AAATCGATTATGGCA CCCA	CAATTAGCTCTTTCGC CACA	60.2	862	INTERGENIC	--	--	--
Ca5_P1_16251480	Ca5	16251480	T/TAGTGTAGAAAAGAGTG	TCAGAATCAACCGAGT TCCC	TAAACACACTCGTCCC CACA	60.1	249	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/P)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_16319965	Ca5	16319965	TGGG/TGGGG	TTGTGTGCAGGATCCA CATT	TTGACCATTCACGAA ACAT	60.0	502	INTERGENIC	--	--	--
Ca5_P1_16363340	Ca5	16363340	GTT/GTTT	AATCCTGGTGACGAT TTTC	ACATCGCCATTACCGA ACTC	59.9	445	DRR	Ca_17921	R	MYB_related
Ca5_P1_16393546	Ca5	16393546	CTTTTTTTTT/CTTTTTTTTT	CACAACTCCGCCATTA CCTT	GTTGCAAGTTGCCGTG TCTA	60.0	713	INTERGENIC	--	--	--
Ca5_P1_164138	Ca5	164138	T/TGTAAATG	GGTAAAGAGACTCGC GTGG	CTGATGTGCTCGTTGT TGCT	59.9	695	INTERGENIC	--	--	--
Ca5_P1_16462192	Ca5	16462192	CAAAA/CAAAAA	TCTGGTTTTGCTGATT CCTG	AGAGCTTGCAAGGA ACAAA	58.8	475	INTERGENIC	--	--	--
Ca5_P1_16469239	Ca5	16469239	GTATATATATATATATATATATAT AT/GTATATATATATATATATATATA T	TGCGTGTCAAATGAAG ACCTC	CGATTGACAACATCA CGCT	60.1	561	INTERGENIC	--	--	--
Ca5_P1_16471569	Ca5	16471569	AATATATATATATATATATAT/AATA TATATATATATATATAT	TACGAGCCAACAGTTG ATGC	TTTAAGTCCATGCTCG CTGA	59.9	618	INTERGENIC	--	--	--
Ca5_P1_16487729	Ca5	16487729	TAAAAAAAAA/TAAAAAAAAA	GTTTTTCAAAAGCGAG GGTG	CCTCAGATGAGAGCCA GGAC	59.7	443	INTERGENIC	--	--	--
Ca5_P1_16650628	Ca5	16650628	GTTTTT/GTTTTTTT	CCCGAAAGTCCTCCAA AAAT	CCAAGTCCCCAGAGT CAAA	60.3	583	INTERGENIC	--	--	--
Ca5_P1_16715155	Ca5	16715155	CTTTTTTTTT/CTTTTTTTTTT	TGGGTTACCCCAAT TAAA	TCATCAAATCCGTAAC GCAA	60.0	459	INTERGENIC	--	--	--
Ca5_P1_167611	Ca5	167611	CAAA/CA	TTTTGGGTGGAAGCGT ATGT	TGTTGAACGAAGCCCT CTCT	60.4	492	DRR	Ca_18171	--	NAC
Ca5_P1_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/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_1677289	Ca5	1677289	CTATATATATATATATATATATATAT AT/CTATATATATATATATATATATA TATATAT	AAGCGTGCTAAAAGT GCAT	ATGTGAATCCCACCAG GAAA	59.9	794	INTERGENIC	--	--	--
Ca5_P1_16780605	Ca5	16780605	AATATATATATATATATATATATAT/ AATATATATATATATATATATATA TATATATATAT	AAAAGACCGCATCAAC CATC	TTGAAATCATGGACGT GGTG	59.9	292	INTERGENIC	--	--	--
Ca5_P1_16781746	Ca5	16781746	ATTTTTTTTT/ATTTTTTTTT	GCCATTGGAATGACG ACTT	TTTGGAATTTGACCT TTCG	59.9	527	INTERGENIC	--	--	--
Ca5_P1_1678181	Ca5	1678181	TTATATATATAT/TTATATATATATAT	CGGTGAATCCTTTACG GAGA	AGGAAGAGTGGAGTT GCGAA	60.1	384	INTERGENIC	--	--	--
Ca5_P1_16808865	Ca5	16808865	ATATGT/AT	GATCGCACTTTTGTCA AGCA	GCTTAAGGATGCCATT TTGA	60.0	777	INTERGENIC	--	--	--
Ca5_P1_16881811	Ca5	16881811	AT/ATATGT	AATCAATCACAACCGT TAAATCA	CACGTTGCTCTTGGTC TTGA	58.4	902	INTERGENIC	--	--	--
Ca5_P1_168831	Ca5	168831	GTGGTTGGTT/GTGGTT	CGAGATACGCGTCATT AAAAA	TCGTCGAGAACAAGT CATC	58.0	358	INTERGENIC	--	--	--
Ca5_P1_16889364	Ca5	16889364	AATATATATATATATATAT/AATATA TATATATATATATATAT	GGAGAAAAATTCATTG GCATT	CCTTTGCATGGGACAG TTTT	58.0	985	INTERGENIC	--	--	--
Ca5_P1_16946068	Ca5	16946068	CAAAA/CAAAAA	ACATCCGTTCCCTCTG TGTC	TTTCGAAACCCATGAT GTTG	60.0	786	INTERGENIC	--	--	--
Ca5_P1_16958294	Ca5	16958294	AT/A	GGGAAGGATGGAATT TGGT	GGTGGAGAGTGAGGT GGTGT	60.0	684	INTERGENIC	--	--	--
Ca5_P1_1709760	Ca5	1709760	A/ATT	TGATGGGGGAAACATT TTGT	AAAAAGGCATGTGAA TGATCT	60.0	247	INTERGENIC	--	--	--
Ca5_P1_17244228	Ca5	17244228	CTTTTTTTT/CTTTTTTTTT	GTACCCTCCTCCTCGG TCTC	AGAATCACCAAGTTGT CGCA	60.1	481	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/Pf)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca5_P1_17244449	Ca5	17244449	TA/T	GTACCCTCCTCCTCG TCTC	TTGTGTTCAACAACT CCCA	60.1	729	INTERGENIC	--	--	--
Ca5_P1_17318628	Ca5	17318628	GTATATATATATATATATATAT/GTA TATATATATATATATAT	CCATTTTCCACGAGCA TCTT	GTTGGTTCCTAGCAC CGTA	60.1	807	INTERGENIC	--	--	--
Ca5_P1_17453242	Ca5	17453242	AAGACAAAAGAACAGAGACAAAAGA ACAAGAGACAAAAGACAA/AAGACAA AAGAACAGAGACAAAAGACAA	ATGGTCACGGCTCTTC TTTG	TCCTGCGGCATACTTT TTCT	60.3	501	INTERGENIC	--	--	--
Ca5_P1_17494887	Ca5	17494887	CTGA/CTGACCTCCTATATGTGA	CTACGCCAAGAACTG CTCC	GTACGCGTCCAGACAT AGCA	60.0	245	INTERGENIC	--	--	--
Ca5_P1_17549591	Ca5	17549591	TTATATATATATATATAT/TTATATATAT ATATATATATAT	GTGGGGTGCAATGTA AAAT	TTGCATAAACTACACA ATGGAAAA	59.6	357	INTERGENIC	--	--	--
Ca5_P1_17612584	Ca5	17612584	CATTCATAAAATTC/CATTCATAAA ATTCAATAAAATTCA	GTCTCTTGCTCTCCCA CCAA	TTTATGTGGTGAATTG GCGA	60.4	769	INTERGENIC	--	--	--
Ca5_P1_17757862	Ca5	17757862	TC/TCC	AGAGTCTTTCCAAACG GCCT	TGTTGGAATCAAGTTG GTTTT	60.2	815	DRR	Ca_22474	--	--
Ca5_P1_17760753	Ca5	17760753	TAATAAAATAAAATAAAATAAA/T AATAAAATAAAATAAAATAAAAT AAAA	TGAAACCGCGTTTGAT TGTA	GGTTGGGACCCTTCT CAAA	60.1	168	INTERGENIC	--	--	--
Ca5_P1_178618	Ca5	178618	TAAAAAAAAA/TAAAAAAAAA	TGCTTTCGTCAACCTC AGTG	TCTCTTGCCTCTGCTG CTAA	60.0	717	INTRON	Ca_18172	J	--
Ca5_P1_17867589	Ca5	17867589	A/AT	AACCATCCAGGACCCA ATTT	TGAGCCACTCTCTTAT GCCA	60.4	502	INTERGENIC	--	--	--
Ca5_P1_178716	Ca5	178716	AT/A	TGCTTTCGTCAACCTC AGTG	TCTCTTGCCTCTGCTG CTAA	60.0	717	INTRON	Ca_18172	J	--
Ca5_P1_17876530	Ca5	17876530	CAA/CAAA	TTTCATCCATCACCGA CAAA	CTCAACGAATGCCTGA AACA	59.9	573	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_17876693	Ca5	17876693	CACAAA/CAA	TGTTTCAGGCATTCTG TGAG	TCAATACCATTTTCAC CGCA	59.8	471	INTERGENIC	--	--	--
Ca5_P1_17936393	Ca5	17936393	CATATATATATATATATAT/CATATATA TATATATATATAT	GTTTTCGAATCAACGA GGGA	TATTTTGGATTTTGGC TCGG	60.1	533	INTRON	Ca_22850	I	bZIP
Ca5_P1_17939380	Ca5	17939380	ATTTTTTTTTTT/ATTTTTTTTTTTTT	TCTAGGAACGAAAGCC TGGA	CGGAATTGATCCCCCT ATTT	59.9	562	INTRON	Ca_22850	I	bZIP
Ca5_P1_17960147	Ca5	17960147	GTTTTTTTTT/GTTTTTTTTTT	TGCATTTTACAGCGCT TTTG	GCTGTTAGGCAAGGG ATCTG	60.0	556	INTRON	Ca_22850	I	bZIP
Ca5_P1_180097	Ca5	180097	ATTTTTTTTT/ATTTTTTTTT	ATGACCAAGGAGGCAC AGAC	GAATCAGAATGACGAT TGTTTGA	60.1	782	INTERGENIC	--	--	--
Ca5_P1_18028558	Ca5	18028558	GTATATAT/GTATATATAT	CACACTTAAGACAAAG AAGGGGA	GTTGACGCCTAATTC GTCC	59.7	652	INTERGENIC	--	--	--
Ca5_P1_18049660	Ca5	18049660	CATATATATATAT/CATATATATAT	GCACGTTGTAAAGAGT GGACTG	AAAAGGCCCAAGAG TTGA	59.8	694	INTERGENIC	--	--	--
Ca5_P1_180539	Ca5	180539	CTTTTTTTTT/CTTTTTTTTT	TGGATACATGTTTAAT GGTGCTT	TGACAAATTTGATTGG AGAGTCA	58.4	673	INTERGENIC	--	--	--
Ca5_P1_18061259	Ca5	18061259	TATAAA/TA	TTTGCACTTTGTCCCC AAAT	TTGGTGTGCCACCATC TAGT	60.3	480	INTERGENIC	--	--	--
Ca5_P1_18136111	Ca5	18136111	CTTTTTTTTT/CTTTTTTTTT	CGGGTCATTTTCTTC TCCA	TTGTGGTCCTTAAGA TGTTTG	60.0	327	INTERGENIC	--	--	--
Ca5_P1_18176797	Ca5	18176797	TAAAAAAAAA/TAAAAAAAAA	TGGGTTGAAAGTTGGA TGTG	ATCCTGGTTGGGGAA GGTAG	59.4	473	INTERGENIC	--	--	--
Ca5_P1_18191704	Ca5	18191704	ATTTTTTTTT/ATTTTTTTTT	TGAAATCCGCCTAAAT CCTG	TAAATGGGGAACCAA AAGC	60.0	715	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_18299239	Ca5	18299239	GTTTTTTTTT/GTTTTTTTTT	ATCACAAATTTTCGCG ACCT	CGGGATTGTGAAGAA GTGGT	59.6	880	INTERGENIC	--	--	--
Ca5_P1_18404984	Ca5	18404984	CATATATATATATATATATATA/CAT ATATATATATATATATATATATATA	ATTTTGGACAACAGGT TCGC	GCAAGAACATGTGAG GAGCA	60.0	397	INTERGENIC	--	--	--
Ca5_P1_18428839	Ca5	18428839	T/TG	CGATTGACGAATCGAT TGAA	GTTTAGGCACGTAGG GACCA	59.6	348	INTERGENIC	--	--	--
Ca5_P1_18539073	Ca5	18539073	ATTTTT/ATTTT	ACACTGAGACGGCGAA AATC	GAACCGGTGACCTTCA GTGT	60.3	739	INTERGENIC	--	--	--
Ca5_P1_18589511	Ca5	18589511	TTTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTAT TATTATTAT/TTTATTATTATTATTATTA TTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTAT	CACGTTCCCACTCT CTCA	TCCATTACGGCAAT TCAA	59.9	829	INTERGENIC	--	--	--
Ca5_P1_18589694	Ca5	18589694	TATAATAATAATAATAATAATAATA ATAATAATAATAATAA/TATAATAATAA TAATAATAATAATAATAATAATAAT AATAATAATAATAA	CACAAGCATCTTGTC GTCC	TGTGGTTTTGCTAATT GGGG	59.3	661	INTERGENIC	--	--	--
Ca5_P1_18593453	Ca5	18593453	GTTTTTTTTTTTTTTTT/GTTTTTTTTT TTT	GGTCTGTCCAATCAGA CCGT	CCAAATGGCTTCGACAT TTCT	60.0	291	INTERGENIC	--	--	--
Ca5_P1_18593864	Ca5	18593864	GTTTTTTTTTT/GTTTTTTTTT	GGTCTGTCCAATCAGA CCGT	TCCATTAAGCCCTCA ACAA	60.0	600	INTERGENIC	--	--	--
Ca5_P1_18625094	Ca5	18625094	AATATATATATATATATATATATATA T/AATATATATATATATATATATATAT ATAT	TTGGTATTGAACTCGG AGGC	TCACGGGTCAACACGA TTTA	60.1	642	INTERGENIC	--	--	--
Ca5_P1_18683897	Ca5	18683897	AGCG/AGCGCGAGTCATCAGCTCGCG	ATGGCCGTTCTTAGTT GGTG	GTACAAAGGGCAGGG ACGTA	60.0	395	INTRAGENIC	--	--	--
Ca5_P1_188946	Ca5	188946	CTT/CTTT	CCCCATTTTACAATCC ACG	CATGTATGAGCAGCCA CACC	60.0	366	INTERGENIC	--	--	--
Ca5_P1_18944656	Ca5	18944656	CAAAA/CAA	TCCTGTGATGTGCTTT GAGC	CTAACCTCCCAGGACC CAAT	60.0	131	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_18962064	Ca5	18962064	AAATAATAATAATAATAATAAT AATAATAATAATAA/AAATAATAAT AATAATAATAATAATAATAATA ATAA	GCCCTCTCCTCGTGT ACAA	CCGAAATAGCGATGA GAGC	60.3	394	INTERGENIC	--	--	--
Ca5_P1_191792	Ca5	191792	ACTATCTATCTATCTA/ACTATCTATCT ATCTATCTA	TCACACTTGCACCTTG GAGC	CTTGGAAATCGAAACCG TTGT	60.0	680	INTERGENIC	--	--	--
Ca5_P1_192213	Ca5	192213	AGA/AGATGATGA	TCTTCAGGGATCCCA CAAC	CAGTCGGAATCATCCT TGGT	59.9	394	CDS (large-effect mutations)	Ca_18174	L	--
Ca5_P1_19351420	Ca5	19351420	ATTTTTTT/ATTTTTTT	CAAGACCCGCACAAAT ACAA	AGGCAACACTTCTTGG TTGTC	59.6	618	INTERGENIC	--	--	--
Ca5_P1_19366220	Ca5	19366220	AAT/AATGGTTTAGGGAAGATAT	GGCACCGTATTTTTGC AAGT	TGACCATAGAGCCGTG AGTG	60.0	365	INTERGENIC	--	--	--
Ca5_P1_19391673	Ca5	19391673	ATTTTTTT/ATTTTTTT	CATGTTCCGGCTGCAC TCTA	GATTTTGGGCAATTT ACGTC	60.0	663	INTERGENIC	--	--	--
Ca5_P1_19478450	Ca5	19478450	A/ATACGGT	CTTGTTCCGGTACCTC GTGT	GCAAAATTGGGCATGG TATC	60.0	405	INTERGENIC	--	--	--
Ca5_P1_19542771	Ca5	19542771	C/A/C	GGCCACCTTACTGAGG ATGA	AGCATGCTTCCACAAA GGAT	60.1	196	INTRON	Ca_23525	--	--
Ca5_P1_195727	Ca5	195727	GC/GCC	CAACTCAACATCCCCT GCTT	TGAGGGGAAAGAACA GAGAGA	60.1	875	INTRON	Ca_18174	L	--
Ca5_P1_19579350	Ca5	19579350	A/A/C	ACGAACGTTGAAAATC CAGC	GTATCAAGTGACAGC GGAA	60.1	489	INTERGENIC	--	--	--
Ca5_P1_19591188	Ca5	19591188	CATATATATATATATATATATATATA TATAT/CATATATATATATATATATATA TATATATATATATATAT	CCACAGCTTCAACAAA AGCA	TGGATGATTTGATGTC ACATAGG	60.0	525	INTERGENIC	--	--	--
Ca5_P1_195971	Ca5	195971	GATAT/GATATTTTGTAAAGTGTTATAT	ATCACGGAAAGCTTGT GTCC	TTTCACCTTCATCCTC TGGC	60.1	866	INTRON	Ca_18174	L	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_19689124	Ca5	19689124	ATTTTTTTTT/ATTTTTTTTT	CATTGCAAACGAAAGG GAAT	ATGCGGCCTCCTTATT CTTT	59.9	678	INTERGENIC	--	--	--
Ca5_P1_1970073	Ca5	1970073	ATTTTTTTTT/ATTTTTTTTT	GATGAAATCGAGGACT GGGA	TTCGGACTAGACGAG GGCTA	60.0	596	INTERGENIC	--	--	--
Ca5_P1_19746235	Ca5	19746235	TAAAAAAA/TAAAAAAA	ACCATATCGGCATAGT GCAT	CCGAGCCAAAATCCAA AATA	57.9	259	INTERGENIC	--	--	--
Ca5_P1_19767482	Ca5	19767482	CTAATAATAATAATAATAATAATA TAATAATAA/CTAATAATAATAATA ATAATAATAATAATAATAATAA	TTGGCCTGGAAGCCTA TTTA	TGGCCTGACCTACTTA TGGC	59.7	538	INTERGENIC	--	--	--
Ca5_P1_19815809	Ca5	19815809	CA/CATACAGTGA	TTTTGGGTTGGGATGA CATT	ACCAGGAAAAGAAGAA GGGC	60.0	378	INTERGENIC	--	--	--
Ca5_P1_198698	Ca5	198698	AA/AAGA	CCGGAGCACGTAAGC TTAG	GTGGCATCCACAATGA CAAA	60.0	488	DRR	Ca_18174	L	--
Ca5_P1_19899928	Ca5	19899928	AATATATATATATATATATATATA TATATATATATAT/AAATATATATATAT ATATATATATATATATATATATAT ATATATAT	ATGACATGTCGTGCGA TAAA	GGTTGCGTGATTGCCT TAGT	57.6	483	INTERGENIC	--	--	--
Ca5_P1_19904231	Ca5	19904231	CATATATATATATATATATAT/CATA TATATATATATATAT	TCGTTTCCATGTCTTCT CCC	TGGCCAAAGACCCAAT TTAG	60.1	250	INTERGENIC	--	--	--
Ca5_P1_19922331	Ca5	19922331	A/AG	ATGTTGACTACGCGGG AGAC	CCCCTTTTGCACATG ATCT	60.1	334	INTERGENIC	--	--	--
Ca5_P1_1995521	Ca5	1995521	ATGTT/ATGTTGTT	TCTTCGTTTTGCAGTC AAACTT	TCTTCGTTTTATGGTTT TATTCA	59.1	279	INTERGENIC	--	--	--
Ca5_P1_19991868	Ca5	19991868	CT/C	TTTGCAAACCAAACC AAGTC	ACTTCACCCCTCTCTC CCAT	60.0	457	INTERGENIC	--	--	--
Ca5_P1_200719	Ca5	200719	GTTTT/GTTT	CGATCACCTCCAACCA AAAT	AAGTGTTTCCGCATGG TAGG	59.8	665	DRR	Ca_18175	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_20078124	Ca5	20078124	CATATATATATAT/CATATATATAT	AGCAAAAAGGAAGCAA ACGA	TGAAAGGTGATGTGGA AACG	60.0	282	INTERGENIC	--	--	--
Ca5_P1_20087836	Ca5	20087836	GAAGCCTATTTAAAA/GAAGCCTATTT AAAAGCCTATTTAAAA	AAACGAATTTTGAGGC CCTT	GGCTAGGCTTAGGCC ATTTT	59.9	697	INTERGENIC	--	--	--
Ca5_P1_20325522	Ca5	20325522	AATATATATATATATATATATATATA TATATATATATATA/AAAAATATATAT ATATATATATATATATATATATATAT ATATA	CTTGCCTTGAGAAGCTC CAAA	ATCCGGTTTTGGATT AGGG	59.0	800	INTERGENIC	--	--	--
Ca5_P1_20399117	Ca5	20399117	CATTATTATTATTATTATTATTATT CTTATTATTATCATTATTATTATTATTA TTATTATTATTATTA/CATTATTATTATT ATTATTATTATTATTATTCTTATTATTA TCATTATTATTATTATTATTATTAT	AAAATTTAACTAGATTG CCTTATCTGTG	AAAAATCGACAAACAT AAAATGC	59.5	732	INTERGENIC	--	--	--
Ca5_P1_20430611	Ca5	20430611	AAAA/AAAAATAAAAA	AGACAAAAGGGCCAAC AAAA	AACACATATTAATTTG GGCTCA	59.6	193	INTERGENIC	--	--	--
Ca5_P1_20444283	Ca5	20444283	TTTTTTATTTTATTTTATTT/TTTTT ATTTTATTT	GTGACGTGTGCTTTG TGGC	GACTTGAAGCTTTCAC AACGC	60.0	494	INTERGENIC	--	--	--
Ca5_P1_20455904	Ca5	20455904	TTTATTATTATTATTATTATTATTA TTATTATTATTATTGTTATTATTGTTAT TATTATTATTATTATTATTATTATT ATTATT/TTTATTATTATTATTATTA TTATTATTATTATTATTGTTATTATTGT	TCACTTTTCCAGCCTC CACT	CCCGGTCAAATCCAA ATTA	59.8	729	DRR	Ca_18207	--	--
Ca5_P1_204596	Ca5	204596	GTT/GTTT	TTTGTGTGCTTTGAC CCAA	TGCTGTTCTTGGTGT CCTG	60.1	373	INTRON	Ca_18175	--	--
Ca5_P1_20531337	Ca5	20531337	ATTTTTTTTT/ATTTTTTTTT	AGTCGCTGAAAATTCG GTTG	TGATTCAATGTCATAA GTGACGG	60.2	500	INTERGENIC	--	--	--
Ca5_P1_20542450	Ca5	20542450	AT/ATT	ATGCATTACCTGTGG CATA	ACTCCTTCCTTTCGTC CCAT	60.0	331	DRR	Ca_18213	--	HB-other
Ca5_P1_20547334	Ca5	20547334	AACCAACCAACACCAACA/AACCAA CACCAACCAACACCAACA	AGGAGATGGAGCGTTG TTTG	TTGGTTAGCGTGCATC TGAG	60.3	462	INTERGENIC	--	--	--
Ca5_P1_20743462	Ca5	20743462	AA/AATA	AAAATAAGCATGGCG TTGG	AGTTTGTAACCGTGC GTCG	60.0	258	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_20759180	Ca5	20759180	CAATAATAATAATAATAATAATAAT AATAATAATAATAAT/CAATAATAATAA TAATAATAATAATAATAATAATAAT	AACAGGAGGTGCTGTG GACC	ATCAGGTTCCGTTGCA AGAC	60.0	757	INTERGENIC	--	--	--
Ca5_P1_20760042	Ca5	20760042	ATTTTTTTTT/ATTTTTTTTT	TCGTTTGTCTTGTC GCTC	ACTTCATGTTGGAACC CGAG	60.0	413	INTERGENIC	--	--	--
Ca5_P1_20764578	Ca5	20764578	GA/G	AGGCGTGTGCATTTAC CTTC	CATACCAAGCCACAAA CCCT	60.1	559	INTERGENIC	--	--	--
Ca5_P1_20786503	Ca5	20786503	C/CT	TCAAAGTAGCCAAGGT CAACA	TGGATTTTCTCCACAC ACGA	58.4	632	INTERGENIC	--	--	--
Ca5_P1_209072	Ca5	209072	GTTTTT/GTTTTTTT	TGGCATCACCATCACT TGTT	ACGTTTATGGGATGCT TCAA	60.0	607	DRR	Ca_18176	--	C2H2
Ca5_P1_209793	Ca5	209793	AAATTAAT/AAATTAATTAAT	AAACATTCAACCAAC CACCA	TTAGACCATCCACAAC ACGG	60.1	320	DRR	Ca_18176	--	C2H2
Ca5_P1_2100607	Ca5	2100607	ATTTTTTT/ATTTTTTTTT	TGGACACGACGGTGAA ATAA	TTCGGTTCTTGTTGC CTCT	60.0	642	INTERGENIC	--	--	--
Ca5_P1_2100697	Ca5	2100697	ATTTTTTT/ATTTTTTT	TGGACACGACGGTGAA ATAA	TTCGGTTCTTGTTGC CTCT	60.0	642	INTERGENIC	--	--	--
Ca5_P1_2101143	Ca5	2101143	TTTATTATTATTATTATTAT/TTTATTAT TATTATTATTATTAT	AGAGGCAAACAAGAAC CGAA	ACCGTGTGAATAATTG TCGG	59.9	565	INTERGENIC	--	--	--
Ca5_P1_210200	Ca5	210200	ATTTTTTTTT/ATTTTTTTTT	TTAAACACCCGTGTTG TGGA	AAATGGCTTAGGGAG GGAGA	59.9	607	DRR	Ca_18176	--	C2H2
Ca5_P1_210510	Ca5	210510	ATT/ATTT	TCTCCCTCCCTAAGCC ATTT	GAATTATCCGCTGCTT GCAT	60.0	201	DRR	Ca_18176	--	C2H2
Ca5_P1_210683	Ca5	210683	CA/CAA	TCTCCCTCCCTAAGCC ATTT	CTTTTAGCCCTGAAAC TGGTG	60.0	697	DRR	Ca_18176	--	C2H2

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/P1)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_21085449	Ca5	21085449	A/AT	TTAGGCGACCACTGTA TCCC	TGAGCCACTTTGATCA GCAC	60.0	758	INTERGENIC	--	--	--
Ca5_P1_21106566	Ca5	21106566	TAGAA/TAGAAGAA	TGAAGGTGAGCAAGGA AAGAA	AAAAACCACAAGTGTG CTTAGG	60.0	236	INTERGENIC	--	--	--
Ca5_P1_21121401	Ca5	21121401	CACATA/CA	TGTCACCATTCAAGGA AGCA	TGCTACTAGGCCCTCA GCAT	60.2	721	INTERGENIC	--	--	--
Ca5_P1_21144099	Ca5	21144099	ATATTATTATTATTATTATTATTAT TATTATTATTATTATT/ATATTATTATTA TTATTATTATTATTATTATTATTAT TATTATT	AATCGTTGGTGGCCTT AGTG	AGGGGAAAACCTTGCT CCTA	60.0	484	INTERGENIC	--	--	--
Ca5_P1_21152020	Ca5	21152020	ATTTTTTT/ATTTTTTTT	AAATTGTGGTTCGCG GTAG	GAGGTAGGTGGCAA GGACA	60.0	459	INTERGENIC	--	--	--
Ca5_P1_21184724	Ca5	21184724	TAAAAAAAAA/TAAAAAAAAA	TGGTCTGATCAAGCCA ACTG	GTAAAGCCGCCACAA AAGA	59.8	873	INTERGENIC	--	--	--
Ca5_P1_21227596	Ca5	21227596	ATTTTTTTTTTT/ATTTTTTTTTT	AAAGAGAAGGAACCTT TGGC	TGAATGGAGGGAGTA CCAACA	59.7	755	DRR	Ca_18238	GM	WRKY
Ca5_P1_212468	Ca5	212468	CCTCCCTCTC/CC	TGTTGACGCTTTGTT GAAG	CCCAACCAAGTTTGT TGTAAG	60.0	922	INTERGENIC	--	--	--
Ca5_P1_21265475	Ca5	21265475	TAAAAAAAAA/TAAAAAAAAA	GCATGGGAGGACAATG AAGT	TAATGCCCATTTGGAA CACC	59.9	664	INTERGENIC	--	--	--
Ca5_P1_2140832	Ca5	2140832	G/GC	GCCCCGATTGCAAGTA TAAA	TTTGTGAGAGGGTGG GAGTC	59.9	549	INTRON	Ca_26505	B	--
Ca5_P1_21411216	Ca5	21411216	TAAAAAAAAA/TAAAAAAAAA	CCAAAGTGGGTCAATA ACGC	CTTCGACAGCCAGTTC ATCA	60.4	883	INTERGENIC	--	--	--
Ca5_P1_21458602	Ca5	21458602	GATATATATATATATATATATATATA TATATATAT/GATATATATATATATATA TATATATATATATATATATATAT	AAAATCAGAATGCCCC TTGA	TGGACATTTGTTTTTC ATTGAG	59.5	576	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_21462460	Ca5	21462460	TTTATTATTATTATTATTATTATTA TTATTAT/TTTATTATTATTATTATT ATTATTATTAT	AATTGGAGATGAGCGG TTTG	ACGGACCAAAATCCAC TACG	60.1	933	INTERGENIC	--	--	--
Ca5_P1_214675	Ca5	214675	TAAAAAAA/TAAAAAAA	CAACCCAAAAACAAAA ATTTC	GGGGTGCATCGTACAT TTCT	58.9	141	INTERGENIC	--	--	--
Ca5_P1_21503119	Ca5	21503119	AATATATATATATATATATATATATA TATATATATATA/AATATATATATAT ATATATATATATATATATA	CCTCTGTTCTGCGGTT AAGG	AAAGTGGATGGCACA CACA	59.9	574	INTERGENIC	--	--	--
Ca5_P1_21623515	Ca5	21623515	AAATTAATT/AAATT	AGGTCATTTTCATCCA CCCA	ACACACCTATGGGATG CACA	60.2	678	INTERGENIC	--	--	--
Ca5_P1_216256	Ca5	216256	GT/GTT	CATCCCAAATCCCATC ATT	GTGTTGTGTTGTGTC CTCG	60.0	421	INTERGENIC	--	--	--
Ca5_P1_2169747	Ca5	2169747	CTATTTATTTATTTATTT/CTATTT ATTTATTTATTTATTTATTT	GTTGTGGTGGTGGA CTTCT	TGGGGATACGTAGGA GCAAG	59.9	471	INTRON	Ca_26506	B	--
Ca5_P1_21755455	Ca5	21755455	CATAG/CATAGTATAG	TGGCTTTGTTGATCTC ATGC	ACCAATGCAAGCTGGA AGAA	59.8	363	INTERGENIC	--	--	--
Ca5_P1_217922	Ca5	217922	CTT/CTTAGTTT	AAGGACATCCACAATG GAAA	ATCACAACACCACCAC GCTA	57.8	406	INTERGENIC	--	--	--
Ca5_P1_21850123	Ca5	21850123	GTTTT/GTTT	CTCGTTGGAAAAATCG GGTA	AGGGTTTCTAGCGCC GTTAT	59.9	459	INTERGENIC	--	--	--
Ca5_P1_218592	Ca5	218592	TATAATAATAATAATA/TATAATAA TAATAATAATAATA	TAGCGTGGTGGTGTG TGAT	CCTTTCAAGGTCAGCC ACAT	60.0	739	INTERGENIC	--	--	--
Ca5_P1_21866481	Ca5	21866481	GA/GAA	TCCGATTGGATTTC GGAC	GCTTCGTTCTTCGTT TTCG	59.9	437	INTERGENIC	--	--	--
Ca5_P1_21883868	Ca5	21883868	AATATATATATATATATA/AATATAT ATATATATATATATA	GCTCCATTTGTGGTTC CAAT	CTATTTGCTATGCCG CTCC	59.8	405	INTRON	Ca_24467	--	C2H2

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_21899576	Ca5	21899576	TAAAAAAAAAAAA/TAAAAAAAAA	TGACCTGACCTGGCCT ATTG	CCCAACAAAGCCTTA TGGA	60.1	519	INTERGENIC	--	--	--
Ca5_P1_21913821	Ca5	21913821	CTATATATATATATATATATATAT/C TATATATATATATATATATATATAT	CAGAAGCACTGGGAG GAGAG	AAAGCTCGTCATTCGA AATGTT	60.1	772	INTERGENIC	--	--	--
Ca5_P1_2192617	Ca5	2192617	A/ACAC	ACAAACCCATTTTTTCG CAAC	CAGCGCTTTTCCCAA TAAG	59.8	454	INTERGENIC	--	--	--
Ca5_P1_21953528	Ca5	21953528	TATAAATAAATA/TATAAATAA	AAGTTGCCGATGGA AATG	TTGCAAAAGTCAAAC CTCTT	59.9	513	INTERGENIC	--	--	--
Ca5_P1_21965060	Ca5	21965060	AG/AGG	ACGCTCAGAGTTCAC GGGT	GGCAATCGATTGGAC AAGT	59.9	365	INTERGENIC	--	--	--
Ca5_P1_220185	Ca5	220185	CTTT/CTTTT	GATCCAACACCCGA TTAG	ATGGCTTGTGGAGA TTGC	59.2	695	INTERGENIC	--	--	--
Ca5_P1_22103271	Ca5	22103271	TAA/TA	CCCCGTAAGTTGTAT AGTCCA	TTCTTCCATTGGAAC AACC	59.3	545	INTERGENIC	--	--	--
Ca5_P1_22119979	Ca5	22119979	TTAATAATAATAATAATAATAATAA TAATAATAATAATAATAATA/TTAATA ATAATAATAATAATAATAATAATAA TAATAATAATAATAATAA	TTCTTGGCAACACTAA CCCC	CGTCATCATCTTCAGC ATGG	60.0	730	INTERGENIC	--	--	--
Ca5_P1_22135355	Ca5	22135355	TA/TAAAGCACA	TGCAACCTGTTGTCC AAAC	TGCTAGGATCAATAGC CGGT	59.6	759	INTERGENIC	--	--	--
Ca5_P1_22145708	Ca5	22145708	GAAAAAAAAA/GAAAAAAAAA	TTGGTGATCATGATGC TGGT	TGGTCGCCAATTATGT CTCA	59.9	368	INTERGENIC	--	--	--
Ca5_P1_22149309	Ca5	22149309	TAAAAAAAAA/TAAAAAAAAA	TGTGGTGCGGTAGTG GATTA	CAACCTGCGATCCAA AAGT	60.0	440	INTERGENIC	--	--	--
Ca5_P1_22218019	Ca5	22218019	TAAATTAAATTAAATTAA/TAAATT AAATTAAATTAAATTAAATTAA	AAATCCTGCATTGTG AGGG	TGCTATTGTGGCTGC TTTG	59.9	676	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_222671	Ca5	222671	AAGGCAGGCAGGCAGGCAGCAG/A AGGCAGGCAGGCAGGCAG	CCGCTTTACAGAACAA CCGT	TGCTTGCACTATCAGC CATC	60.2	627	INTERGENIC	--	--	--
Ca5_P1_222733	Ca5	222733	CTCTTTCT/CTCTTTCTTTCT	AGCCATGTTTTGTCTC CACC	TGCTTGCACTATCAGC CATC	60.0	110	INTERGENIC	--	--	--
Ca5_P1_22316499	Ca5	22316499	GTC/GTCCTC	TTAGGCAGAAACCAA CATGC	CAAATAAAGCGATTGT ACCCA	60.1	479	DRR	Ca_21150	J	FAR1
Ca5_P1_22484789	Ca5	22484789	TAGAGAGAGAGAGAGAGAGA/TAGAG AGAGAGAGAGAGAGAGA	ACAACCTGGTGCTTTTC CACC	GGCTCAACCCGTCAAT AAAA	60.0	245	INTRON	Ca_27586	J	--
Ca5_P1_22538002	Ca5	22538002	ACATGAGGAG/ACATGAGGAGCATGA GGAG	GGGGATTGTGGTACAT GAGG	AAATCGGTATTGGGGA AACC	60.1	331	INTERGENIC	--	--	--
Ca5_P1_22591817	Ca5	22591817	CATATATATATATATATAT/CATATATA TATATATATATAT	CAATCTCCTCCTTCAAA TCCC	TCAACGAGAGTCAAAC ATCCTC	59.9	860	INTERGENIC	--	--	--
Ca5_P1_226146	Ca5	226146	TT/TTAT	TTGCAGTTTGAATCAC TGCC	ATATGTCGTGGGTAGG CGAG	59.8	133	INTERGENIC	--	--	--
Ca5_P1_22615880	Ca5	22615880	AT/ATATGTGGGTGTTCTCT	TGAGTGGGTGGGTACT GACA	TGATTGAGAGGGTTG GGAAC	60.0	448	DRR	Ca_20080	--	SAP
Ca5_P1_22631833	Ca5	22631833	TGAGAGAGAGAGAGAGAGAGAGA GAGAGAGA/TGAGAGAGAGAGAGAGA GAGAGAGAGAGAGAGAGAGA	TGGAGAATTGGCTGGA GTTC	GCTTAAACTCATGGCG AAGC	60.2	749	INTRON	Ca_20079	--	--
Ca5_P1_22659116	Ca5	22659116	AATATATATATATATATA/AATATATAT ATATATA	CGGCGACTTTTCATT GATT	AATCGGCATTTCAAAC TTGG	60.1	501	INTERGENIC	--	--	--
Ca5_P1_22671231	Ca5	22671231	ATTTTTTTTTTTTT/ATTTTTTTTTTTT TTT	CCATTTTAAACTTGG GTTTACT	TCGAAATAGCGACTTC CCAC	57.7	165	DRR	Ca_20074	--	--
Ca5_P1_2277714	Ca5	2277714	ATTTTTTTTTTT/ATTTTTTTTTTT	TTTTCGGGAGAAGCCA CTTA	TCGATTACGAAATTG GTCAT	59.8	512	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_22847043	Ca5	22847043	AATATATATATATATATATATATATA /AATATATATATATATATATATATAT ATATATATATA	CGTGTCTTCTATTATTA AACTTTCGC	TTTTCACATGACATAAA CGACG	59.0	712	INTERGENIC	--	--	--
Ca5_P1_22918447	Ca5	22918447	T/TG	TTATCGGCCTTATCCA CTGC	GGATTCCACCAAAATC AGGA	60.1	721	INTERGENIC	--	--	--
Ca5_P1_22918526	Ca5	22918526	AT/ATT	TTATCGGCCTTATCCA CTGC	TGAAATCCATGAACC GTGA	60.1	915	INTERGENIC	--	--	--
Ca5_P1_22919631	Ca5	22919631	AG/A	GATTTGGTGGAATCTC CGAA	GCCACCGACTACTTCT CCCT	59.9	336	DRR	Ca_21962	--	--
Ca5_P1_22919722	Ca5	22919722	GTT/GT	GATTTGGTGGAATCTC CGAA	GCCACCGACTACTTCT CCCT	59.9	336	DRR	Ca_21962	--	--
Ca5_P1_2295220	Ca5	2295220	GAA/GA	GCACCAGCATAAACTG CACA	GCAGGAGTTTTCCTTG CATT	60.9	739	INTERGENIC	--	--	--
Ca5_P1_23012363	Ca5	23012363	TATAAAATAAAATAAAATAAAAT AAAAATAAAATAAAATAAAATATAAAAT AAAAATAAAATAAAATAAAATAAA AA	TGCTGCCAACAACTT AGCA	GGCACCTTCTCTGTA CTGG	60.6	202	INTERGENIC	--	--	--
Ca5_P1_23051252	Ca5	23051252	ATTTTTTTTT/ATTTTTTTTT	TGGGACTAAACATAG CGCC	ACGGATGAGTGACGT GACAA	60.1	118	DRR	Ca_21972	U	--
Ca5_P1_23068669	Ca5	23068669	C/CA	CATTGCCAACTTTGAG GGTT	AGGAGAGACCAAGGT GAGCA	60.0	602	INTERGENIC	--	--	--
Ca5_P1_23096429	Ca5	23096429	TGTG/TGTGAGTG	GAATGTGCCGCCTATT GTTT	TGTCCTCCCTTAATTG CACA	60.0	662	INTERGENIC	--	--	--
Ca5_P1_23111759	Ca5	23111759	ACCCCC/ACCCCCC	TCTCACGGTTGTGAGG ACTG	TAGAGAAAGTGTGCACC GTGG	59.9	600	INTERGENIC	--	--	--
Ca5_P1_23141346	Ca5	23141346	GTAATAATAATAATAATAATAATA ATAATAATAATAA/GTAATAATAATAAT AATAATAATAATAATAATAATAA	TTCAGCAACGCTTACT GTGG	GGAGACGGAATTGGA GATGA	60.1	566	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_23166274	Ca5	23166274	AA/AACTA	GAGAAGCGAAAGCGAA GAGA	GATATTAGGGGCAACT CGCA	60.0	658	INTERGENIC	--	--	--
Ca5_P1_2323461	Ca5	2323461	GAAAA/GAAAAA	GCGCCAGATTTCAAAC ACTA	ACCAGCAGACCAAAAT GGAC	58.9	262	INTERGENIC	--	--	--
Ca5_P1_2323757	Ca5	2323757	CT/CTTATAAATGT	GTCCATTTTGGTCTGC TGGT	TCCCTGCTCCTGATTT CATC	60.0	425	INTERGENIC	--	--	--
Ca5_P1_2327252	Ca5	2327252	TAA/TAAA	TCGAAATGAAATCGAG GACC	ACAGACGAGGGCTAG GGATT	60.0	721	INTERGENIC	--	--	--
Ca5_P1_23276338	Ca5	23276338	GC/G	AAATGGTGAAAGTGCCG TACC	TTGTTCTCCAAAACA TCACA	59.9	920	INTERGENIC	--	--	--
Ca5_P1_23407701	Ca5	23407701	TTATATATATATATAT/TTATATATAT ATATAT	TGCGAAATCGCAATTG TTAC	TTAAATAGGCTTCCAG GCCA	59.7	563	INTERGENIC	--	--	--
Ca5_P1_23425515	Ca5	23425515	GTATATATATATATA/GTATATATATAT A	CTGCTACCCAAACCGA ACAT	TTTGTGTGATGAAT TTGATGC	60.0	746	INTERGENIC	--	--	--
Ca5_P1_234322	Ca5	234322	AT/A	AGCAACGTTCTAAGAG CCGA	GGAAAGATGCTTTTTG CTCG	60.2	369	INTRON	Ca_18178	S	--
Ca5_P1_23533132	Ca5	23533132	TTTATTATTATTATTATTATTATTA TTATTATTATTATCATTATTATTAT TATTATT/TTTATTATTATTATTATT ATTATTATTATTATTATCATTATTA TTATTATTATT	CCGCAAGATACGCAAT ATCA	TTCTTGCAATGATTGA CCCA	59.7	613	INTERGENIC	--	--	--
Ca5_P1_23552592	Ca5	23552592	CATAAAATAAATAAATAAATAAAT AAATAAATAAATA/CATAAATAAATAA TAAATAAATAAATAAATAAATAA TA	AAGCCGACAACAAATC CAAC	TGAATGGAACAGCATT GGAA	60.0	298	INTERGENIC	--	--	--
Ca5_P1_23557622	Ca5	23557622	C/CAGCT	GTGACTGGGGACTGG TGACT	CTGTGACTAGGGAAG GCTCG	60.0	122	INTERGENIC	--	--	--
Ca5_P1_23595694	Ca5	23595694	GTTTT/GTTT	CCAGTGGATGCTGAGA CTGA	GGCTGTGTAATGGTTG CTGA	60.0	170	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_236073	Ca5	236073	CGAAGAAAAT/CGAAGAAAATGAAGAA AATGAAGAAAAT	TTGAATTGACCGGAGG AATC	GGGATAGGGAGGGTT GTGTT	59.9	680	INTERGENIC	--	--	--
Ca5_P1_23663097	Ca5	23663097	TAATGAATGAATGAA/TAATGAATGAA	GAGGGTTTTGGGTCAG TGAA	AGTTTTCAGGGTAGC GGGT	59.9	789	INTERGENIC	--	--	--
Ca5_P1_23663125	Ca5	23663125	C/CAA	GAGGGTTTTGGGTCAG TGAA	AGTTTTCAGGGTAGC GGGT	59.9	789	INTERGENIC	--	--	--
Ca5_P1_23664574	Ca5	23664574	TT/TTCCAAC	CAAGAAGGAACGAGGT GCTC	TAGCCTAGAGCAGGG GTGAA	60.0	626	INTERGENIC	--	--	--
Ca5_P1_23672060	Ca5	23672060	TC/TCGCCC	TGAGTAAGGGGGCTGA AATG	TGAGAGACGGTGTGTT ACCC	60.1	822	CDS (FRAME SHIFT)	Ca_17683	--	--
Ca5_P1_23673793	Ca5	23673793	T/TACGAACGT	AAATCATCGCACCTAC GGTC	GACAATCGTTCGGACT TGGT	60.0	497	INTERGENIC	--	--	--
Ca5_P1_236751	Ca5	236751	A/AT	AACACAACCTCCCTA TCCC	CCACAATGCATGTC CATC	60.1	819	INTERGENIC	--	--	--
Ca5_P1_23724279	Ca5	23724279	GAAAAA/GAAAAA	ACATGGCACAATCAAA CAGC	AAGAAGGTTTCATGGCA AACG	59.6	706	INTERGENIC	--	--	--
Ca5_P1_2375435	Ca5	2375435	TTTA/T	ATGTTTTGGATTTTGG CTCG	AGGAAGAGTGGAGTT GCGAA	59.9	571	INTRON	Ca_18664	--	B3
Ca5_P1_23770283	Ca5	23770283	ATTTTT/ATTTTT	TTGGCCTTCCTTTTACA TGC	CCATCAAGCGTCTGTT GAGA	60.1	882	INTERGENIC	--	--	--
Ca5_P1_238011	Ca5	238011	GTTTTT/GTTTTT	CATGCACGATTCACAC ATGA	GTGTCGTCCAACCTCT CCAT	60.1	486	INTERGENIC	--	--	--
Ca5_P1_23807010	Ca5	23807010	ACAGAAGTCACCCAGAAGTCACCCA/ ACAGAAGTCACCCA	GCAAGTCATGCATGCT CCTA	GCCTGTGTGGCTGGT TTAAT	60.0	110	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_23812349	Ca5	23812349	TAAAAAAAAA/TAAAAAAAAAAAA AAA	ATTGCTAGCCACATTT GGG	CGCTATGATAGGATGG TCCAA	60.0	664	INTERGENIC	--	--	--
Ca5_P1_239546	Ca5	239546	AATA/AATATA	CTCAACGCTGCCACAA TAGA	TGGATTCCCAACACT AGCC	60.0	473	INTERGENIC	--	--	--
Ca5_P1_23989176	Ca5	23989176	AAATAATAATAATAATAAT/AAATA ATAATAATAATAATAATAATAAT	GGCCTGCTTTTGAAC TCAG	AAATTGGTCAGGTACA CACAAAAA	60.0	407	INTERGENIC	--	--	--
Ca5_P1_23990846	Ca5	23990846	GCCC/GCC	TTCAGCTGTTGCACC ATAG	AGTTGGAAGTCGCCAT TTTG	59.9	261	INTERGENIC	--	--	--
Ca5_P1_23995501	Ca5	23995501	CATATATATATATATATATA/CATAT ATATATATATATATA	TTGCGAGCATGAGAAG TTGT	AAAAACCCTAATCG CTCA	59.6	714	INTERGENIC	--	--	--
Ca5_P1_240288	Ca5	240288	AAAAAAATAAAAA/AAAAAATAAAAA TAAAAA	GGCTAGTGTTTGGGAA TCCA	ACGGTGTGTTGGGTTA AAGG	59.9	820	INTERGENIC	--	--	--
Ca5_P1_24054306	Ca5	24054306	CTATTATTATTATTATTATTATTAT TATTATTAT/CTATTATTATTATTATTAT TATTATTATTATTATTATTAT	TCAATAGAAGGTCGCA TCCC	TCGCACATCTACCTAA ACGC	60.0	759	INTERGENIC	--	--	--
Ca5_P1_24086787	Ca5	24086787	TGGGG/TGGGGG	TGAATCCATGTCCTTG AGTCAT	CTCAATGGAAAAGACC ACCAA	59.4	445	INTERGENIC	--	--	--
Ca5_P1_24097297	Ca5	24097297	AAGCTTTGGATAC/A	CAGAGCCAACACTACA GGCA	ATTTGAAGGGCCATGT GAAG	60.0	329	CDS (large-effect mutations)	Ca_17656	S	--
Ca5_P1_241028	Ca5	241028	GAAAAAAA/GAAAAAAA	CCTTTAACCCAACACA CCGT	GGGACGTCTTCGCATA CATT	59.8	624	INTERGENIC	--	--	--
Ca5_P1_241183	Ca5	241183	ATTTTTTT/ATTTTTTTT	AAAACACAACCCCTTCA AGAGACA	GGGACGTCTTCGCATA CATT	60.1	129	INTERGENIC	--	--	--
Ca5_P1_24246490	Ca5	24246490	TG/TGCGAAAGAG	TTGAATAGACGGATTC GGGA	TCTATAATGCATGGTT GCCG	60.4	118	CDS (FRAME SHIFT)	Ca_15567	S	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_24429597	Ca5	24429597	GTTTTTTTTTTT/GTTTTTTTTTTT T	CGGTCTCTACCAAGT CCCA	CATTGTGCCGTAAGA GCAA	60.1	520	DRR	Ca_15577	AR	--
Ca5_P1_244348	Ca5	244348	TA/TAATACAAA	TTTTGCGCGAGAATTG ATAA	GCATTACCACCGCTC TCCT	59.4	918	INTERGENIC	--	--	--
Ca5_P1_2446310	Ca5	2446310	TTA/TTATTATTAGTA	TCCCGACTCTGACGCT AACT	GACAGGGAGGGTGAA CAAAA	60.0	664	INTERGENIC	--	--	--
Ca5_P1_24522455	Ca5	24522455	CTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTAT/CTATT ATTATTATTATTATTATTATTATTA TTATTATTATTA	CATTGAATTTAAGGAG TTATGACATTG	TGGGGTCATACTTGGT CCAT	59.3	791	INTERGENIC	--	--	--
Ca5_P1_245296	Ca5	245296	TTAATAATAATAATAAT/TTAATAA TAATAATAATAAT	CTTACAGCACAGAAG ACGC	GGAATGGCAGGAATCT GAAA	59.8	337	INTERGENIC	--	--	--
Ca5_P1_24602434	Ca5	24602434	GTAAATAATAATAATAATAATAA A/GTAAATAATAATAATAATAATAA AAATAATAA	TCACATCAGTTAGGCC ACCA	GTTTCGAACCCGGAC CTTA	60.1	235	INTRON	Ca_15595	G	bHLH
Ca5_P1_24620208	Ca5	24620208	GAAA/GAA	CCACTACCCGATCAC TTTT	TTGGCTCCACAATAGT GCCT	60.0	622	INTERGENIC	--	--	--
Ca5_P1_24625027	Ca5	24625027	GT/G	GGTCCAACAATGGCA AATC	ACCCACAACCCGTAT GTCA	60.2	503	INTERGENIC	--	--	--
Ca5_P1_24644196	Ca5	24644196	GAAAAAAAAA/GAAAAAAAAA	CATTTTGGCTCAACC CACT	CCTAACTCTTGGGCTC TCCA	60.0	420	INTERGENIC	--	--	--
Ca5_P1_24722410	Ca5	24722410	T/TTCA	TGAATCATTTTTCAC TAACACT	ATATGGGTGAGTTGCT TCGC	57.9	333	INTERGENIC	--	--	--
Ca5_P1_24723063	Ca5	24723063	ATTTTTTTTT/ATTTTTTTTTT	CCGAAATTTAAGGATG AGGGT	GCTAGTCCCATATCCC TCCA	59.3	426	INTERGENIC	--	--	--
Ca5_P1_24865224	Ca5	24865224	TAAAAAAA/TAAAAAAA	TGGAATGTAAATTGGG GGAA	GTTGCCACCGACATT AGTT	60.0	381	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_2486711	Ca5	2486711	A/AT	CACCTTGTAGAGGGGA GCAA	CTGTCAATTGAGTTGC GATGA	60.2	280	INTERGENIC	--	--	--
Ca5_P1_24881793	Ca5	24881793	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA	CCGAAAGAATAGCTGG TGGA	TTCAAAAATCTGACGG AGGG	60.2	681	INTERGENIC	--	--	--
Ca5_P1_24882886	Ca5	24882886	CATATATATATATATATATATATATA TATATAT/CATATATATATATATATATA TATATAT	GTCCTACGTGCCAAATC CCAT	AGAGAAGAATGCGCG GTAAA	59.8	516	INTERGENIC	--	--	--
Ca5_P1_24886870	Ca5	24886870	TAATAAATAAATAAATAA/TAATAAAT AAATAAATAAATAAATAAATAA	TGTTGACGTGAGACCC AAAG	GGCCCCAACACAAGC TAAG	59.7	550	INTERGENIC	--	--	--
Ca5_P1_24932738	Ca5	24932738	ATTTTTTTTT/ATTTTTTTTT	TGAAGAAACTTTTCCG CTGC	TGGAAATTTTACGGTG CAGA	60.5	710	INTERGENIC	--	--	--
Ca5_P1_24982766	Ca5	24982766	GTATATATATATATATATATAT/GTATA TATATATATATATATATATAT	CTTGGCCAGAAAATTG GAAA	CGTTGAATACGCCTAA CGGT	60.0	676	INTERGENIC	--	--	--
Ca5_P1_25032941	Ca5	25032941	CATATATATATATATATATATATATA TA/CATATATATATATATATATATATAT ATATATA	TCCTCTCACACCACACA CTCA	AGGTGCAGACGCAGAGA TTTTT	60.3	301	INTERGENIC	--	--	--
Ca5_P1_25050486	Ca5	25050486	AATATATATATATATATATATATATA TATATATATAT/AAATATATATATATAT ATATATATATATATATATATATATAT	AGTGCGGAGCTTGAT AGAA	GGGTCCAAGTTGAAC AAACCA	60.0	677	INTERGENIC	--	--	--
Ca5_P1_25079687	Ca5	25079687	AATATATATATATATATATATA/AATAT ATATATATATATATA	GATTCGCCAAAAATCC TGAA	AGCTTAGCTTCGAGAT TGCG	60.0	402	INTERGENIC	--	--	--
Ca5_P1_25186556	Ca5	25186556	GAAAAAAAA/GAAAAAAAAA	TCAGAGGTACATTGCG CAGA	GTC AATTTGATAGGCC CCCT	59.4	686	DRR	Ca_15627	L	--
Ca5_P1_25202952	Ca5	25202952	ATTTTTTTTTTTTT/ATTTTTTTTTTTTT	AACCAGGGTCTATTCC ATGC	TTGGTAATGCGTTGAT GGTG	58.9	790	DRR	Ca_15629	O	--
Ca5_P1_25213368	Ca5	25213368	CTTT/CTT	CTTCGTTTCTGCTTTG AGGG	ACTGGCACATGACAGT TGGA	60.0	256	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_25232481	Ca5	25232481	T/TC	CCACCCTGATTTTGG AGAA	AAATCCAACAATCTC CCCC	59.9	790	INTERGENIC	--	--	--
Ca5_P1_25240326	Ca5	25240326	T/TACATGTC	CGAAGTCCAGGAGTTT GGAA	TTTGGCCAGACCACCT TTAC	60.2	468	INTERGENIC	--	--	--
Ca5_P1_25250090	Ca5	25250090	ATCTT/AT	TGCTCTGACTCATTCA ACCG	TCTTTAGCTAGACGCC CTGC	60.0	638	INTERGENIC	--	--	--
Ca5_P1_25288223	Ca5	25288223	AGAACTTGATTGAGGAAAC/AGAA AC	TTGCTTGAAGACATGA ACGC	TGGATGTCAAGCAGTC TTGC	60.0	493	INTERGENIC	--	--	--
Ca5_P1_2529829	Ca5	2529829	TAA/TAAGAA	CTTTTAAAGGAAGTGC GCCT	TAAACCATGTCGTCCG TCAA	58.7	577	INTERGENIC	--	--	--
Ca5_P1_25308756	Ca5	25308756	T/TA	TGAATCTCAAGCAATC AAGCA	TGGCAATGGGCTAATT TCTC	59.6	692	INTERGENIC	--	--	--
Ca5_P1_2532130	Ca5	2532130	ATTTTTTTTT/ATTTTTTTTTT	AACGCCGAGTTCACAA AATC	CAACTGTTGCACCCC TTTT	60.1	687	INTERGENIC	--	--	--
Ca5_P1_2539785	Ca5	2539785	TGAATAAGAATAAG/TGAATAAGAATA AGAATAAG	GGAGGGGTGAATTA GGTGT	CTGGAATGGCTCCAAA TCAT	60.1	626	INTERGENIC	--	--	--
Ca5_P1_2551220	Ca5	2551220	ATTTTTTTTT/ATTTTTTTTTT	GGCTAGACGAGTTCGA CGAC	GGTTGTTGAATTTGT TATTGGG	60.0	365	INTERGENIC	--	--	--
Ca5_P1_25531858	Ca5	25531858	TAAAAA/TAAAAAAA	ATTGGGCAATCGATTT GGTA	AGGGAGGTGGAGGTG AAAGT	60.2	299	INTERGENIC	--	--	--
Ca5_P1_25544088	Ca5	25544088	TAAAAA/TAAAAAAA	TTCAACCAATTCATT CCAA	TGGTTATGCATGTTCCG TCGT	58.9	175	INTERGENIC	--	--	--
Ca5_P1_25589243	Ca5	25589243	CT/C	ATATTAAAGGATCGCG GATG	CCCCAAATAAAACGC AGAA	58.9	360	DRR	Ca_09032	--	B3

[illegible]

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_25922321	Ca5	25922321	TTTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTA	AGGCGTTTGTGTATGG AAGG	ATTGGACAAAAGGAGG ACCC	60.0	580	INTERGENIC	--	--	--
Ca5_P1_25994318	Ca5	25994318	TTATATATATATATATATATATATAT/ TTATATATATATATATATATATATAT ATATATAT	TGTGAAATACATCAG CGGT	CAAATTCACCAACGCA ACAA	60.0	623	INTERGENIC	--	--	--
Ca5_P1_261320	Ca5	261320	TCAC/TC	GATAACCGAACAACCG CAAT	CGGAGCTTCGGTAGG ACATA	59.8	754	DRR	Ca_18179	R	--
Ca5_P1_26136771	Ca5	26136771	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA	TGGCCCATGAACAACA GTAA	ATGCGTATGGTATGCG TTGA	60.0	327	INTERGENIC	--	--	--
Ca5_P1_26141778	Ca5	26141778	AG/AGG	ATGGGTAGGGTAAAA CCCG	TCTTTCCCAACCTCC TACT	59.9	767	INTERGENIC	--	--	--
Ca5_P1_26146691	Ca5	26146691	ATCTCTCTCTCTCTCTCTCTCTCTCTC TCTCT/ATCTCTCTCTCTCTCTCTCTC TCTCTCTCTCTCTCTCTCTCT	TCTAGTGTCCCCTACC CACG	GTGATTGTAACGGCT TGGT	60.0	507	INTERGENIC	--	--	--
Ca5_P1_26159204	Ca5	26159204	GTTTTTTTTT/GTTTTTTTTT	TGTCCCGTGGTATTG TATGC	AAAAATACGGGGCAAA TATTGA	60.6	377	INTERGENIC	--	--	--
Ca5_P1_26159871	Ca5	26159871	TATAATAATAATAATAATAATAATA ATAATAATAATAA/TATAATAATAATA TAATAATAATAATAATAATAATAAT AATAATAA	TCCCAATGAATTCGTT TTAGA	TGGATTAAACCAACTG TCCCA	58.6	389	INTERGENIC	--	--	--
Ca5_P1_26228101	Ca5	26228101	TAAAAAA/TAAAAA	TCACAAAATGATCAGG GCAA	TCCATGGTTTTCTCA AAGC	60.0	503	INTERGENIC	--	--	--
Ca5_P1_262311	Ca5	262311	CTTT/CTTT	TCGCTCGCACAAGTAA AATG	GGTCGATGCGTAGTT CCAT	60.0	859	INTRON	Ca_18180	A	--
Ca5_P1_26341914	Ca5	26341914	GTTTTTTTTTTT/GTTTTTTTTTTT	ATGCATGACTCGGCTA TTCC	GTCCTAGAAACGTCGG TCCA	60.1	446	INTRON	Ca_08986	P	--
Ca5_P1_26374984	Ca5	26374984	GTATATATATATATATATATAT/GTA TATATATATATATATATATATAT	GGAAACACGCGAATGA AGTT	CCATGATCTTGATGAA AACCTCT	60.1	962	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/P1)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_26550928	Ca5	26550928	ATTTTTTTTT/ATTTTTTTTTTT	ATTGTGCTGATTGCGA AGAA	TCTGCTAACGCTTCGA ATGAT	59.4	573	INTERGENIC	--	--	--
Ca5_P1_26816643	Ca5	26816643	AATATATATATATATATA/AATATAT ATATATATATATATA	CGCACAAAAATCATGT GGAC	GGACACCCCAATTTC TCAA	60.0	896	INTERGENIC	--	--	--
Ca5_P1_26833070	Ca5	26833070	TTCATCATCATCATCATCATCATC /TTCATCATCATCATCATCATC	CTTCATTGGGTCCGA GAAA	CCCTCCCTTGGTCTC TACC	60.0	811	CDS (large-effect mutations)	Ca_08943	O	--
Ca5_P1_26852877	Ca5	26852877	TGAA/TGAACGTCGTCGATGTTAGGA A	CCATTGCTTGCTCGCT AAAT	CCTTCAAAGAATTGG TTGGG	60.4	218	INTERGENIC	--	--	--
Ca5_P1_26856153	Ca5	26856153	AATATATATATATATATATATATA TA/AATATATATATATATATATAT ATATATATA	AAAAAGTTCATCATTGC AAATGTTAGT	TTACCCGACGACAAAA GTCC	59.8	650	INTERGENIC	--	--	--
Ca5_P1_26889418	Ca5	26889418	TAAAAAAAAA/TAAAAAAAAA	TCATCGCAGGTGTACC ATGT	TCCCTTCGCAGACAA GAAT	60.0	712	INTERGENIC	--	--	--
Ca5_P1_26889455	Ca5	26889455	T/TTA	TCATCGCAGGTGTACC ATGT	GCGCTGACATGATCCC TATT	60.0	792	INTERGENIC	--	--	--
Ca5_P1_26892310	Ca5	26892310	AT/ATAGTGAAGAGCGTCCCTT	AAGGGTGTGGTGGTAA TCCA	TTGTGGAAGAGGGTC CAAAC	60.1	206	INTERGENIC	--	--	--
Ca5_P1_26904550	Ca5	26904550	GTTTTTTTTT/GTTTTTTTTT	CGTGGTAGACCTTCGG TGAT	TCCTTCACGAGTAAAA TGCTCA	60.0	786	INTERGENIC	--	--	--
Ca5_P1_26906467	Ca5	26906467	GTAATAATAATAATAATAATAATA ATAATAATAATAA/GTAATAATAATA ATAATAATAATAATAATAATAATA TAATAATAATA	GGCAAGAGAGGTTGAC CAAT	TCGAAAATGTTTCAA AAGCC	59.1	911	INTERGENIC	--	--	--
Ca5_P1_26989148	Ca5	26989148	AG/A	CCAAAGCAAGCCAGAA AGAC	GCGAGTGGAACCCAC ACTAT	60.0	609	INTERGENIC	--	--	--
Ca5_P1_26989487	Ca5	26989487	T/TCACCTAAGAC	ATAGTGTGGTTCACC TCGC	TAAGGCTGGGCGCTA ATCTA	60.0	379	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_26995171	Ca5	26995171	TAG/TAGCACAAAGCACTAAG	GGAGCGGGAATATGAC TGAA	GCGGCAGAAGAACCT ATTTG	60.0	576	DRR	Ca_08931	R	MYB
Ca5_P1_26996806	Ca5	26996806	A/AAAAGCAAATTA	TCGTTTTGGGTGAATT GTGA	TGCCTCTCGTTCCTT TTTA	59.9	410	INTERGENIC	--	--	--
Ca5_P1_27000261	Ca5	27000261	A/AG	ATCCTGGCTTTTCCAC CTTT	CGAGCACTATTCAGTG CCAA	59.9	508	INTERGENIC	--	--	--
Ca5_P1_27000467	Ca5	27000467	AA/AAGA	TTGGCACTGAATAGTG CTCG	TCGAAGCTGTGCTAAT GGTG	60.0	361	INTERGENIC	--	--	--
Ca5_P1_27000513	Ca5	27000513	A/AGTCG	TTGGCACTGAATAGTG CTCG	TCGAAGCTGTGCTAAT GGTG	60.0	361	INTERGENIC	--	--	--
Ca5_P1_27000752	Ca5	27000752	CTTTTTTTTTTTTT/CTTTTTTTTTT TT	TTGGCACTGAATAGTG CTCG	CGTCCGAATAGACGA ACAT	60.0	698	INTERGENIC	--	--	--
Ca5_P1_27000834	Ca5	27000834	ATCTCT/ATCT	TTGGCACTGAATAGTG CTCG	CTCAGCGGGTAGAGT ATCGC	60.0	940	INTERGENIC	--	--	--
Ca5_P1_27068816	Ca5	27068816	ATGTGTGTGTGTGTGTGTGT/ATG TGTGTGTGTGTGTGTGTGT	GACTGCCACGATCAGA CTCA	AAATCAACACAATTC CACACAA	60.0	654	INTERGENIC	--	--	--
Ca5_P1_27068854	Ca5	27068854	T/TTATATTATA	GACTGCCACGATCAGA CTCA	AAATCAACACAATTC CACACAA	60.0	654	INTERGENIC	--	--	--
Ca5_P1_27099226	Ca5	27099226	GAA/GAAA	TGGCAGACAAACCAAA CAAA	TGGTTTTGCCATGAGA CAGA	60.1	406	INTERGENIC	--	--	--
Ca5_P1_27103158	Ca5	27103158	ANNNNNNNNN/ANNNNN	CAAGTGAGCTTGCCA ATTT	CAGAGCGAAAATCAAG GAGG	60.2	685	INTERGENIC	--	--	--
Ca5_P1_27119717	Ca5	27119717	TTATATATATATATATATATATATAT ATATATATATATATAT/TTATATATATAT ATATATATATATATATATATATATAT	TGCATGCATTGGTTGA AAAG	CCAATAAGTTTGCAAC AACATTT	60.6	794	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_27119906	Ca5	27119906	AATATATATATATATA/AATATATAT ATATATATATA	TTAACGATTGGAATTTA GTGCAT	TGGTCTCATCCGAAAG CTTATT	57.8	874	INTERGENIC	--	--	--
Ca5_P1_271613	Ca5	271613	GA/GAA	TGTTGTCCAAAAGTCC ACCA	ATGGGACTTGGAGTTT TCCC	60.0	575	INTRON	Ca_18181	D	--
Ca5_P1_2719278	Ca5	2719278	GAAAAAAAAA/GAAAAAAAAA	GGTTTGAGGAGGGGA AACAT	GAATATTCGCGATTCA GGGA	60.2	473	INTERGENIC	--	--	--
Ca5_P1_27198455	Ca5	27198455	AGTCATTTTTATGAATTGTCATTTTT TATGAATTGTCATTTTT/AGTCATTTTT TATGAATTGTCATTTTTTATGAATTGT CATTTTTATGAATTGTCATTTTT	TGCTGTCCTCTCTGA TCCT	AGGGTTGAAAAAGTAA AGATTA	59.9	592	DRR	Ca_08920	O	--
Ca5_P1_27249906	Ca5	27249906	CATATATATATATATATATATATATA T/CATATATATATATATATATATAT ATATATATATATA	TTGCATTTGTTTCCCA TGA	TGTATCGGGATGCGAC ATAG	59.9	234	INTERGENIC	--	--	--
Ca5_P1_27252736	Ca5	27252736	TACACA/TACA	TAATTGGCGTCACTCA ACCA	TTGAAAAATTGAGTTAT GCATTGA	60.1	659	INTERGENIC	--	--	--
Ca5_P1_27327142	Ca5	27327142	GG/GAAAGAAAATGGAG	TGCTCCAGTTGAGAG GAGT	CAAAGTCTTCGGCAC AGTA	60.0	542	INTRON	Ca_08909	L	--
Ca5_P1_27364017	Ca5	27364017	AAAAAAAAATAAA/AAAAAAAAATAA AAAAATAAA	CAAGAAGAGTCCATTG GGGA	GGTAAGACCACTCGAT CAATCA	60.0	748	INTERGENIC	--	--	--
Ca5_P1_27389155	Ca5	27389155	A/AAAAAT	CACGAGCTTCAAGAGA GCCT	ATGAGATCGTTGTTGG GAGC	59.9	507	INTERGENIC	--	--	--
Ca5_P1_27393057	Ca5	27393057	CAGTCATA/CAGTCATAGAGTAGTCAT A	TGGTGCTGATGAATTT TCACCT	TGCAATTTCCCTTACG CTTT	59.6	639	INTERGENIC	--	--	--
Ca5_P1_27393629	Ca5	27393629	TTATATATATATATATATATATAT/TT ATATATATATATATATATATATATAT	GAAATTGCAGTGACGG AACA	TTGGAGAATTCAAAA TAAGGCA	59.7	536	INTERGENIC	--	--	--
Ca5_P1_27397872	Ca5	27397872	AATATATATATATATA/AATATATAT ATATATATATA	CCTGCAACAATTCAC CAAA	TTCGTCGTGTTGCGTC TAAC	59.6	885	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_27458409	Ca5	27458409	ATTATATATAAAATTTTATATATAAAAT TTTAT/ATTATATATAAAATTTTATATAT AAAATTTTATATATAAAATTTTAT	CAATTGGTCGGCAGAG TTTT	CCCACAACCATGCAAT AGAA	60.1	531	INTERGENIC	--	--	--
Ca5_P1_27458530	Ca5	27458530	TTATATATATATATATATATATATATAT ATAT/TTATATATATATATATATATATAT ATATATATAT	CAATTGGTCGGCAGAG TTTT	CCCACAACCATGCAAT AGAA	60.1	531	INTERGENIC	--	--	--
Ca5_P1_27460399	Ca5	27460399	GAAAAAAAAA/GAAAAAAAAA	GCACATGTGTTGGCAA CTTT	AAAGCTCACCAATGC CACT	59.6	456	INTERGENIC	--	--	--
Ca5_P1_27472549	Ca5	27472549	AG/A	GCATTATGCCGTCATC ATTTT	TTGCGATTCAAATTG TTGTT	59.8	491	INTERGENIC	--	--	--
Ca5_P1_27477754	Ca5	27477754	ATTTTTTTATTTTTTTTTTTTTTTTTTTT/ ATTTTTTTATTTTTTTTTTTTTTTTTTTT/ TATTTTTTTT	CCGCCCTCCTTTCTA GTCT	AAAAACCCAAAATATG CCCC	59.8	678	INTRON	Ca_08905	--	bHLH
Ca5_P1_27510424	Ca5	27510424	AATATATATATATATAT/AAATATATA TATATATATATAT	CCAACACGGCAAAAG AGAT	GCCATTGGGAATGACG ACTT	60.1	799	INTERGENIC	--	--	--
Ca5_P1_2754706	Ca5	2754706	GAAAAAAAAA/GAAAAAAAAA	GAGCTTTTGAGCCGAA ACAC	GGGTTGTAATGGGGC TTAGG	60.0	597	INTERGENIC	--	--	--
Ca5_P1_27603143	Ca5	27603143	GATATATATATATAT/GATATATATA TATAT	CTTGCCTTCATCGGAA TTTT	GATTTCAAAGATGCAG GGGA	60.2	555	DRR	Ca_08896	--	--
Ca5_P1_2764482	Ca5	2764482	GATAATAATAATAATAATAATAAT AATAATAATAATAATAATAATAATA ATAA/GATAATAATAATAATAATAA TAATAATAATAATAATAATAATAAT AA	CTGGTGATGGGTGCTT TTTC	TGCCGGGGATTAATTT AACA	60.5	457	INTERGENIC	--	--	--
Ca5_P1_27675113	Ca5	27675113	GATATATATATATATATATATA/GAT ATATATATATATATATATATA	TTGCCACTTGATACAG CAAAA	ATCGGTGGGAATAAGA GCCT	59.4	891	INTERGENIC	--	--	--
Ca5_P1_276846	Ca5	276846	T/TGCATCGGTTCA	TTGTTGCTTTTCTTCG GCT	ACAGGCACTCCAGGAT CAAC	60.0	330	INTRON	Ca_18181	D	--
Ca5_P1_27724401	Ca5	27724401	GATATATATATATATATA/GATATAT ATATATATATA	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/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_2774211	Ca5	2774211	CTCT/CTCTTCCCTTAATCT	ATCCGACATTCTTTG GCAG	CAAAGCAAGTGAAGT GCAA	60.1	842	INTERGENIC	--	--	--
Ca5_P1_27776620	Ca5	27776620	ATTTTTTTTT/ATTTTTTTTTT	TCCAACTTGGGTTGG TTTC	CATGAGCATGCAAGAT GGAT	59.8	603	INTERGENIC	--	--	--
Ca5_P1_27800989	Ca5	27800989	GATAAATAAT/GATAAATAAATAAT	CACCCCTTGGCTCAAA TAAA	CTTCCGTTGCCATGCT TAAT	59.9	124	INTERGENIC	--	--	--
Ca5_P1_27835534	Ca5	27835534	CTA/CTATA	AAATGGAGTAGCACCC GTTG	GAGTGTGGTGGAAT TGTG	60.0	584	DRR	Ca_13433	F	--
Ca5_P1_27880873	Ca5	27880873	GAAAAAAAAA/GAAAAAAAAA	GGCAGCTTCTGTTTTG TCAAC	CATTTCCTCCTCCAAA GGGT	59.9	786	INTERGENIC	--	--	--
Ca5_P1_27899130	Ca5	27899130	AAACCCTAACCTAACCTAACCTA ACCCTAA/AAACCCTAACCTAACCT AACCTAACCTAACCTAA	ACGATACGGTTGAGCA AAGG	GATTGGGTTAGGGTTA GGGC	60.1	875	INTERGENIC	--	--	--
Ca5_P1_27945125	Ca5	27945125	TAATAATAA/TAATAATAAAATAATA	TGGCTACATCCAGTCC CTTC	TTGGGCAAATTTAGTT CTTGTTT	60.1	579	INTERGENIC	--	--	--
Ca5_P1_27953405	Ca5	27953405	A/AGAGGTG	AACAACAGCCCAATG TAGC	ATCATCCCCTCCATTA CGAA	60.0	599	CDS (large-effect mutations)	Ca_13422	--	Trihelix
Ca5_P1_28012407	Ca5	28012407	AATATATATATATATAT/ATATATATA TATAT	TTGAAGGAAGATGAAT CGTTGA	ATGCGGATACTCTCTG CCAC	59.7	622	DRR	Ca_13417	S	--
Ca5_P1_280542	Ca5	280542	AATTATTATTATT/ATTATTATTATTAT T	CAACAAGCTTTTTTCAC TTTCTCA	AGGACCTCCCTTTTTTC TCCA	60.0	636	DRR	Ca_18183	--	ARF
Ca5_P1_28068856	Ca5	28068856	CTATATATATATATATATATA/CTAT ATATATATATATATATATA	GATTTCGTCGGTTCCT CGTT	TGATGATGAATGTTGC ACGA	60.1	139	INTERGENIC	--	--	--
Ca5_P1_28092681	Ca5	28092681	ATATTATTATTATTATTATTATTAT TA/ATATTATTATTATTATTA	GGAACCAATTCCAAT CCCT	CGCGTGAGAAGAATG AGACA	60.0	708	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_28131912	Ca5	28131912	ATTT/ATT	TGCCATATTCAGGAGT GTGC	ATGTACATTGCATGAG GCCA	59.7	850	INTERGENIC	--	--	--
Ca5_P1_28133204	Ca5	28133204	CA/CACATA	AATCCAAAAGAGCAAC ACGG	TTCCAACATGTAAATT GAGCCC	60.1	393	INTERGENIC	--	--	--
Ca5_P1_28134488	Ca5	28134488	TAAAAAAAA/TAAAAAAAA	AACAAAACTGACGCA TTTTGA	AACGGGTGAACATAGC CATC	59.7	404	INTERGENIC	--	--	--
Ca5_P1_28150139	Ca5	28150139	TGG/TGGACAGG	ATTGTGCAATGAATGT CCGA	CAC TTGTGCGCTACAC CACT	59.9	199	DRR	Ca_13406	--	--
Ca5_P1_28188039	Ca5	28188039	T/TC	CAAGAAAAGTAACCAT CGTAATGA	TGTGGATTCATGATCC TTGTG	57.5	494	INTERGENIC	--	--	--
Ca5_P1_28227066	Ca5	28227066	AT/ATTT	TGCTTGCAAAAATCATT CAAA	CCAGGATTTGTGGCAG GTAT	59.3	619	INTERGENIC	--	--	--
Ca5_P1_28234704	Ca5	28234704	AATATATATATATATATATAT/AATA TATATATATATATATATATAT	TTTCAAGCTTTTGATGC ACG	TTTCTTTTCCAGTTCCA CCG	60.0	751	INTERGENIC	--	--	--
Ca5_P1_28243344	Ca5	28243344	C/CTGCGTATTCTGA	GCCTAATGGGTACGAA AAGGA	GGTTGGGATCCCTTTG TTTT	60.3	578	INTERGENIC	--	--	--
Ca5_P1_28268765	Ca5	28268765	CAAAAAAAAA/CAAAAAAAAA	AAAATTTAGACAAACG GGCCT	TGTCCTTTGAAAAGTT TTGCC	59.0	635	DRR	Ca_13398	R	G2-like
Ca5_P1_28305464	Ca5	28305464	GTGTATATATG/GTGTATATATGTATA TATG	AATATGTGGCGATTAA TCTATTGTT	TGGTTGATCATTTTCGT TAGTACG	57.3	960	INTERGENIC	--	--	--
Ca5_P1_28342481	Ca5	28342481	TTCAAAATCAAAATCAAAATCAAAATC A/TTCAAAATCAAAATCAAAATCA	CTCCTTAAGTGTACGG CCCA	GGACTATTTTCGCGAA TGAGTAA	60.1	329	INTERGENIC	--	--	--
Ca5_P1_28399764	Ca5	28399764	GT/GTACTAGCATCCT	AGAGTCGCCAGCTGAA CAAT	TGATTTCTCCATAGCA CCGA	60.0	502	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_28413401	Ca5	28413401	A/AT	TTCTCCTTGAAGCTG CGGT	ATTGCCAACATTCCG GTAG	60.0	252	INTERGENIC	--	--	--
Ca5_P1_28417361	Ca5	28417361	AATATATATATATATATAT/AAATATA TATATATATATATATATAT	AACGTTCTTCGTTTTCC AGA	ACACTTAAATGGGAGC ACGG	57.5	611	INTERGENIC	--	--	--
Ca5_P1_28463884	Ca5	28463884	TAAAAAAAA/TAAAAAAAAA	TGTTTCCTTCGACAC ATTGA	TGTTGAGCCCAAAATA CAAGG	59.2	590	INTERGENIC	--	--	--
Ca5_P1_28463958	Ca5	28463958	ATTTTTTTT/ATTTTTTTT	TGTTTCCTTCGACAC ATTGA	TGTTGAGCCCAAAATA CAAGG	59.2	590	INTERGENIC	--	--	--
Ca5_P1_28483546	Ca5	28483546	ATTTTTTTT/ATTTTTTTT	TGAAGCGTATGGAACA ATCG	TGAATCATTTGAATTT GCACG	59.7	674	INTERGENIC	--	--	--
Ca5_P1_28503677	Ca5	28503677	TATAATAATAATAATAATAATAATA ATAATAA/TATAATAATAATAATAA TAATAATAATAATAA	GCACGGAACCGACTTA AAAA	CGGGAAAGATGTACCT GAGTG	60.1	726	INTERGENIC	--	--	--
Ca5_P1_28519997	Ca5	28519997	TATAATAATAAT/TATAATAATAATAAT	TTTGAATGATGAACCT TTTATGT	CCATTCTCCATAAC GCAT	57.0	822	INTERGENIC	--	--	--
Ca5_P1_28536233	Ca5	28536233	TTATATATATATATAT/TTATATATATAT ATATAT	TGACACAGGGTGTGAC GATT	GTATTTGGCAAAATTG CGGT	60.0	582	INTERGENIC	--	--	--
Ca5_P1_28588926	Ca5	28588926	TGGG/TGG	CAACTGCTCCTGTTCT CCAA	CTAGGAGCATGTCGCT CTCC	59.0	412	INTERGENIC	--	--	--
Ca5_P1_28651932	Ca5	28651932	ACTT/ACTTCTT	CTCCGTCAAAGTGCTC ACAA	ACGGCTACCTCCATCA AATG	60.0	296	INTERGENIC	--	--	--
Ca5_P1_28701451	Ca5	28701451	TAAAAAAAA/TAAAAAAAAA	TCAATAGAAGGTTGGG GACG	TTGTATCTCGTTTGC ACATAAA	59.9	655	INTERGENIC	--	--	--
Ca5_P1_28761252	Ca5	28761252	ATTTTTTTT/ATTTTTTTT	CTTGCCTCGTGAATTC GTAA	GTCGCCGTTTATCGT CATT	59.9	449	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_28766272	Ca5	28766272	ACC/AC	ATGAAAACGTTTGCTC CAGG	GCCAAGTCCCACCAAC TTGT	60.1	160	INTERGENIC	--	--	--
Ca5_P1_28864108	Ca5	28864108	AATATATATATATATATATAT/AA TATATATATATATATATATAT	AAAAGGGACGATACTT GCCA	TCCTCTCAAAGCCCT CAAA	59.6	787	DRR	Ca_13346	--	NF-YC
Ca5_P1_28865362	Ca5	28865362	TTCT/TT	TTTAGTGGTGCAAGTG CATGT	CGAAAGCTAGCCATGA GGTT	59.3	104	INTERGENIC	--	--	--
Ca5_P1_28869871	Ca5	28869871	TAAAA/TAAAA	TGCTGGTGAACCTGGT GGTA	AAGTGGTCGACCGTCA TTTC	60.2	912	INTERGENIC	--	--	--
Ca5_P1_28902276	Ca5	28902276	TAAA/TAAAA	GCGTACCCTGATCAAC GATT	TCAGTGCAAATTCAAA CATGG	60.0	726	DRR	Ca_13344	--	ERF
Ca5_P1_28905411	Ca5	28905411	TNNNNNNNNN/TN	GGGAGTCATCTTGGGT CTGA	GTGACTCCCTCTCGTT TGGA	60.0	506	INTERGENIC	--	--	--
Ca5_P1_28918279	Ca5	28918279	GC/GCCACACATC	CTGGTTTGCATAGCAC CAAC	AAAGGCCACAAATAA GCCT	59.2	320	INTRON	Ca_13343	--	ERF
Ca5_P1_28974386	Ca5	28974386	TAAAAAAAAA/TAAAAAAAAA	GCCATAATCGAGAGGA ATGG	ATTAATCCCCGTCAG ACCC	59.5	527	INTERGENIC	--	--	--
Ca5_P1_28974452	Ca5	28974452	AATTCAATATTC/AATTCAATATTC AATTCA	GCCATAATCGAGAGGA ATGG	ATTAATCCCCGTCAG ACCC	59.5	527	INTERGENIC	--	--	--
Ca5_P1_289898	Ca5	289898	ATT/ATTT	AAAGTGCCGAAGTTTG CAGT	TTTTCCCTTCAACAGT CATGG	59.9	351	INTRON	Ca_18185	R	B3
Ca5_P1_28994344	Ca5	28994344	CATATATATATATATATATAT/CA TATATATATATATATATATATAT TATATATAT	CACTCACGTCATGCAT ACCA	GGAATTGAGGAGGGG AGAAC	59.1	677	INTERGENIC	--	--	--
Ca5_P1_29001853	Ca5	29001853	TAAAAAAAAA/TAAAAAAAAA	TGCACGGATAATGAAG TCGT	TCTCACATTTTATGCA CACAAACC	59.2	897	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_29099232	Ca5	29099232	CATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTA TT/CATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTAT TATTATTATTATTATT	GGCATGACATGTGAAG ATGG	TAGCCCCACAACACAA ACAA	59.9	413	INTERGENIC	--	--	--
Ca5_P1_291054	Ca5	291054	TAAAAAAAA/TAAAAAAAAA	TGCTTCATATGCTTGA CCACA	TGGTGCTTCTTTGGCT CTTT	60.3	476	INTRON	Ca_18185	R	B3
Ca5_P1_29141885	Ca5	29141885	ATTTTTTTTTTT/ATTTTTTTTTTT TT	AAGCCACCATGCACAA ATCT	TTGGCTGCATATGGA ATAA	60.5	233	INTERGENIC	--	--	--
Ca5_P1_29144882	Ca5	29144882	AATTATTATTATTATTATTATTATT ATTATTATTATTATTATTA/AATTATTAT TATTATTATTATTATTATTATTATT ATTATTATTATTA	AGTGCTGATTGATATG CCGT	ATTAGGGCTGCACTTG GACA	58.2	583	INTERGENIC	--	--	--
Ca5_P1_291688	Ca5	291688	ATTTTT/ATTTTTTTT	AAAGAGCCAAAGAAGC ACCA	AGCAAATGCGACTGTG ATTG	60.0	722	DRR	Ca_18186	--	--
Ca5_P1_29178138	Ca5	29178138	TTATATATATATATATATATATAT ATATATATAT/TTATATATATATATAT ATATATATATATATATATATATAT	AGTTATGGTTCGGCTT GGTG	CGCTTCTCCCTCGTC ATTA	60.0	386	INTERGENIC	--	--	--
Ca5_P1_29190001	Ca5	29190001	TTATATATATATATATATAT/TTATAT ATATATATATATAT	AACGGACAATATTCTC TATGGCA	TATCCCTACGTCTCAT GCCC	59.9	176	INTERGENIC	--	--	--
Ca5_P1_291943	Ca5	291943	GCGCAACCGCAA/GCGCAACCGCAAC CGCAA	TTCGTGGCTTAATCCC ACTC	GTCTGGTGCTCTTCCC AATC	60.1	517	DRR	Ca_18186	--	--
Ca5_P1_29207513	Ca5	29207513	TAAAAAAAA/TAAAAAAAA	AAGGAACAAACAAGAT GGCG	AAACGTGCACATAGCA TCTGA	60.1	743	INTERGENIC	--	--	--
Ca5_P1_29213687	Ca5	29213687	GAAAAAAAA/GAAAAAAAA	TGCCTGAACCATTGTG TTAGA	GATGGGTTTCGTCTGTT GTCT	59.2	184	INTERGENIC	--	--	--
Ca5_P1_292149	Ca5	292149	A/C	AAAGTGCCGAAGTTTG CAGT	TGCTTCCCTTCAACA GTCA	59.9	485	DRR	Ca_18186	--	--
Ca5_P1_292231	Ca5	292231	C/CA	AAAGTGCCGAAGTTTG CAGT	TGCTTCCCTTCAACA GTCA	59.9	485	DRR	Ca_18186	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_29247345	Ca5	29247345	ATTTTTTTTT/ATTTTTTTTTT	CGTGAAAACTCCCT CAAA	TGACGAGCGTAAGAAC ATGC	60.1	853	INTERGENIC	--	--	--
Ca5_P1_29338654	Ca5	29338654	TTTCNNNNNNNNNTTC/TTTC	GGCCAACTCATAGCCC ATAA	GGAGGGAATGGAAAA AGGAG	59.9	512	INTERGENIC	--	--	--
Ca5_P1_29384323	Ca5	29384323	CTTTTTTTTTT/CTTTTTTTTT	CTTGGACAATTGAGGC ATTTT	ATAGACAAACGTCCGC CTTC	59.6	545	INTERGENIC	--	--	--
Ca5_P1_29394829	Ca5	29394829	TTATATATATATATATATATATAT ATATATATATAT/TTATATATATATAT ATATATATATATAT	GCGGTGAACAATTCC AAAT	TGTTGCACACTCATTA TCACCA	59.8	532	INTERGENIC	--	--	--
Ca5_P1_29418887	Ca5	29418887	TTATATATATATATATA/TTATATATATA TATATATA	CCCAAGCTAGAAGTGT CACGA	TTGCATGGGCATAGTG AGAG	60.4	671	DRR	Ca_16633	G	--
Ca5_P1_29477611	Ca5	29477611	ATTCAAACTTCAAA/ATTCAAA	AGCGGCATAAACAAAC CAAC	TGTGGGTTGCCTACAA ATCA	60.0	222	INTERGENIC	--	--	--
Ca5_P1_29489113	Ca5	29489113	TTATATATATATATATATATATATAT A/TTATATATATATATATATATATATA TATATA	CGAAGAAAGTGTGGG GTGT	GAGCGGCATCCATAG ACAAT	60.0	572	INTERGENIC	--	--	--
Ca5_P1_29535039	Ca5	29535039	AATATATATATATATATATATATATA TATATATATAT/AATATATATATATATAT ATATATATATATATATATATATATAT ATATATAT	CCGCATCGACATACAT TTTG	TGGTTGATGGTGTCTG TTTG	60.0	405	INTERGENIC	--	--	--
Ca5_P1_29601698	Ca5	29601698	ATTATTTATTTATTTAT/ATTATTTATTT ATTTATTTATTTAT	ATCTTTGGTTGGTTGG TTGC	TGCATATCCATTGAGT TTCACA	59.8	607	INTERGENIC	--	--	--
Ca5_P1_29654312	Ca5	29654312	CAAAAAAAAA/CAAAAAAAAAA	TGATTGCAACCTCTAG CGTG	ATCGATTTCATCGGT TCAT	60.0	643	INTERGENIC	--	--	--
Ca5_P1_29664249	Ca5	29664249	GAAAAAAAA/AAAAAAAAA	ATTCATAAACACATGG CCCC	TAGGGTTAGGTGAGG GGCTT	59.5	255	INTERGENIC	--	--	--
Ca5_P1_29665140	Ca5	29665140	ATCACATTTACATTTACATTT/ATCA CATTTACATTTACATTTACATTT	TGGAAAGCGATTATC CTGG	AGAGATCTTCTTGCGG TGGA	60.0	579	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_29725806	Ca5	29725806	AATATATATATATATATACATATATA TATA/ATATAATATATATATATATAT ATATACATATATATATA	AAGACATCGTCAAAAT CCCG	TCCACAGACGACGAGA TGAG	59.9	687	INTERGENIC	--	--	--
Ca5_P1_29778782	Ca5	29778782	TAAAAAAAAA/TAAAAAAAAA	TTCGATTACCCGAAG AAAT	GTGGCGTGAAACAACA AATG	59.5	329	INTERGENIC	--	--	--
Ca5_P1_29827143	Ca5	29827143	TAAAAAAAAA/TAAAAAAAAA	ATCTGGTTAACGGATG CGAG	TTGGGACTGACAGAAA GAAAAA	60.1	669	INTERGENIC	--	--	--
Ca5_P1_29858771	Ca5	29858771	ATTTTTTTTTTT/ATTTTTTTTTTT	TTTCAATTCTCTCACGG TGCT	CGCATCGAAAACAGTG GTAA	59.9	789	INTERGENIC	--	--	--
Ca5_P1_29860525	Ca5	29860525	ATTTTTTTT/ATTTTTTTTTT	TTCAAATTTGGCTACTT TTCGAC	TGAGAAAGAGCATGAA AGGTCA	59.7	649	INTERGENIC	--	--	--
Ca5_P1_2987506	Ca5	2987506	GGAGAGAGAGAGAGAGAGAGAGA GAGAGAGAGAGAGA/GGAGAGAGAG AGAGAGAGAGAGAGAGAGAGAGA GA	GGGCCTCTATAAGTGC CCAT	TTGGTGGGACCTACGT GAAT	60.3	348	DRR	Ca_18683	--	--
Ca5_P1_29881935	Ca5	29881935	CT/CTCTAT	ACATGCTTGGAGAGTT GCCT	TCCATGCAATTCGTTT TTGA	59.9	425	INTRON	Ca_16670	K	--
Ca5_P1_29892981	Ca5	29892981	T/TA	CCCCATTCATAGGTGG ATTG	ACCGCTACTCTCCAA CTCA	60.0	286	INTRON	Ca_16671	--	--
Ca5_P1_29901145	Ca5	29901145	GTATATATATATATATATAT/GTATA TATATATATATATATATATATATATA TAT	GCAGTTTGCGGAGGAT TAAG	ATGACGCGGGTGATT AGTC	59.8	646	INTERGENIC	--	--	--
Ca5_P1_29932210	Ca5	29932210	AT/ATTGTT	AAAATGAGCATGGGAA ATGG	TGAAAAATTGCTCGCC TCTT	59.8	504	INTERGENIC	--	--	--
Ca5_P1_29932346	Ca5	29932346	CATA/CATATA	AAGAGCGGAGCAATTT TTCA	AAATTGGATCCTCGTG ATGC	60.0	242	INTERGENIC	--	--	--
Ca5_P1_29933300	Ca5	29933300	TAAAAAAAAA/TAAAAAAAAA	TGTTTCAAGCATGCAT TTAATTTT	TCAGCGTACACTTTTC GACG	59.9	758	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_29933558	Ca5	29933558	AATATATATATATATATATATATAT T/AATATATATATATATATATATAT ATATATATATATATAT	GACCTTTTCAAAGGAT GCATTA	TCAGCGTACACTTTTC GACG	58.3	369	INTERGENIC	--	--	--
Ca5_P1_29933647	Ca5	29933647	GATATATATATATA/GATATATATAT ATA	GACCTTTTCAAAGGAT GCATTA	CGTGATGACAGACCAA CACC	58.3	713	INTERGENIC	--	--	--
Ca5_P1_29938246	Ca5	29938246	ATT/ATTT	GCAAAAAACAGCGACAC TGAA	TTGTGTGGGAAAGGT GACAA	60.0	764	DRR	Ca_16674	--	--
Ca5_P1_29938358	Ca5	29938358	ATT/AT	AGCTTTGAATGGCAAT GGAC	TTGTGTGGGAAAGGT GACAA	60.1	380	DRR	Ca_16674	--	--
Ca5_P1_29974701	Ca5	29974701	TAAAAAAAA/TAAAAAAAAA	TGCAACCAGGAAACAT ACCA	AAACGTGGCATCAAC AACA	60.0	907	INTERGENIC	--	--	--
Ca5_P1_29978017	Ca5	29978017	CTATTATTATTATTATTATTATTAT TATTATTATTA/CTATTATTATTATT ATTATTATTATTATTATTA	CATCCATTCTCCAAC ACCT	TGTGATATGGATGAGA TGAAGCA	57.4	806	INTERGENIC	--	--	--
Ca5_P1_30080567	Ca5	30080567	CAAAAAAAAA/CAAAAAAAAA	AGATTTGGTGATTGGG CAAG	CATGCTAAATTGATTTT TCAGTCTTC	59.9	326	INTERGENIC	--	--	--
Ca5_P1_30107423	Ca5	30107423	TG/TGG	CAATTTGGGTCAATGT GCAA	GCCAACCTAGTCTCAG AAGCA	60.4	475	INTERGENIC	--	--	--
Ca5_P1_30114886	Ca5	30114886	TTATATATATATATATATATATAT ATA/TTATATATATATATATATATATA	CGGGTGGCTTAGTGA GAAGT	AAACTCTTCCGCTCA CCTTT	59.4	325	INTERGENIC	--	--	--
Ca5_P1_30121835	Ca5	30121835	TTATATATATATATATATATATAT AT/TTATATATATATATATATATAT ATATATATATAT	CATGCGTGAATTGAT CGTC	AAACGCGTCACTTTAC CTTCTC	60.1	224	INTERGENIC	--	--	--
Ca5_P1_30126893	Ca5	30126893	ATTTTTTTTT/ATTTTTTTTT	GTGGCTTCCAAGAGA AACG	TTCGGTACACAATTTT CCCC	59.9	612	INTERGENIC	--	--	--
Ca5_P1_30128968	Ca5	30128968	GATTATAATTAATAA/GATTATAATT AAAAATAATTATAATTAATAAATA	TGTTTCTCTCTCCGCT CACA	CCGCCGACTATACCTG TTTT	59.7	681	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_30129905	Ca5	30129905	CTTTTT/CTTTTT	TGTGGGTTACCTTTG GAGT	GTCCACTGTGCCACAT CATC	60.4	599	INTERGENIC	--	--	--
Ca5_P1_30131050	Ca5	30131050	AATATATATATATATATATATA/AAT ATATATATATATATATATA	CAAATTCGAGCAACA ATGC	AACACAAATGTTAAAT GCGAAGA	59.3	571	INTERGENIC	--	--	--
Ca5_P1_30135601	Ca5	30135601	CAT/CATAT	CTGGTCCTCCTCTGT CGAG	ATCCCATCAAAATAGC TGCG	60.0	426	DRR	Ca_04690	J	E2F/DP
Ca5_P1_30339552	Ca5	30339552	ATGTAGCTTGATTGTAGCTTGAT/ATG TAGCTTGAT	TGGAACAGGTCCACA AAAA	TTTCTGCCCCTTCCAA AACAA	59.1	606	INTERGENIC	--	--	--
Ca5_P1_30355494	Ca5	30355494	CATATATATATATATATATA/CATAT ATATATATATATATATA	CCTTTGGTTCAAGTAA TGGCA	TGCACACCAATTCC AAGT	60.0	531	INTERGENIC	--	--	--
Ca5_P1_30399557	Ca5	30399557	AATATATATATATATATATAT/AA TATATATATATATATATAT	GACAATAGTCAAAAGT TGTCGGT	CGCCTATTTTGGCAAC GTAT	57.4	831	INTERGENIC	--	--	--
Ca5_P1_30417013	Ca5	30417013	TTTATTATTATTATTATTATTATTA TTATTATT/TTTATTATTATTATTATT TATTATTATTATTATTATT	TCGGCTCAATGTAGC TTCTCA	GCATCATCGACGAAAA TGTG	59.3	653	INTERGENIC	--	--	--
Ca5_P1_30478691	Ca5	30478691	GTTTTTTTTTT/GTTTTTTTTTTTT	TTCGTCAATCTTTTGA CAACG	AAAACAGACGGGTCCA CAAA	60.1	423	INTERGENIC	--	--	--
Ca5_P1_30540589	Ca5	30540589	TATC/TATCATC	CATTAATAGCTGCACG CCAA	AAGTTTTGGGACAAAA TTGAACA	59.9	643	DRR	Ca_04742	--	--
Ca5_P1_30612967	Ca5	30612967	TAAAAAAAA/AAAAAAAAA	CGGCATATCATCACCC TTTT	ACCCCCGAAAAAGTGC TAGT	59.8	378	INTERGENIC	--	--	--
Ca5_P1_30613533	Ca5	30613533	CATATATATATATATATATATA/CAT ATATATATATATATATATATA	ACTAGCACTTTTTCGG GGGT	AAATCCATAATTTGGT TCACTCA	60.0	746	INTERGENIC	--	--	--
Ca5_P1_3061873	Ca5	3061873	GATAATAATAATAATAATAATAAT AATAATAATAATAATAATAATA/GA TAATAATAATAATAATAATAATAAT AATAATAATAATAATAATA	TTGCTCTACGTATCC CCAG	TTATTTACCGTCGTG TCCA	60.1	332	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_30672584	Ca5	30672584	TATAATAATAATAATAATAATAA A/TATAATAATAATAATAATAA TAATAA	TGAAGTAGGGCATAGC AGCA	TTTTATTCTATTTTCG CAACAAACTT	59.6	757	INTERGENIC	--	--	--
Ca5_P1_3070185	Ca5	3070185	AGG/AGGGG	GAATAAAAGGGTGCCC CAAT	CATACCAATCACTTGG ATGCC	60.0	404	INTERGENIC	--	--	--
Ca5_P1_30712358	Ca5	30712358	G/GGATAGAAA	TATTGGATTGGGCCAA ACAT	TTCGTTGGTTTGGGT TCTC	60.0	534	INTERGENIC	--	--	--
Ca5_P1_30777454	Ca5	30777454	TTATATATATATATATATATATAT AT/TTATATATATATATATATATAT	AAACCTTTGAGAAATC GGCA	AGGAAGCCCAAGTTCC AAAT	59.7	382	INTERGENIC	--	--	--
Ca5_P1_30819739	Ca5	30819739	CAATAATAATAATAATAATAA AATAATAATAATAATAATAA A/CAATAATAATAATAATAA ATAATAATAATAATAATAA TAATAATAATAA	GGAAAGGAAGGAAAA GGTG	CATCATTGTTGGATAT GCGG	59.9	428	INTERGENIC	--	--	--
Ca5_P1_30824972	Ca5	30824972	CTTTTTTTT/CTTTTTTTTTT	GCCATGGTTAGGTAT GTGC	TTGGCCTACCGAAAC TTTG	60.2	768	INTERGENIC	--	--	--
Ca5_P1_30828711	Ca5	30828711	CG/CGG	GCAAAGATCCGAAAA CCAA	TTGTGGTGGTGTCTGT GATT	60.1	770	INTERGENIC	--	--	--
Ca5_P1_30829625	Ca5	30829625	CTATATATAT/CTATATATAT	AATCACAGCAACCACC ACAA	ACGTCGCTAACCAAA CCAC	60.0	776	DRR	Ca_04779	O	MYB_related
Ca5_P1_30835479	Ca5	30835479	TTATATATAT/TTATATATAT	TCGGCGATGTAAATT CTCG	TGATAGACAAGCCACA TGCC	61.1	495	INTERGENIC	--	--	--
Ca5_P1_30841056	Ca5	30841056	GATATATATATATATATATAT/GA TATATATATATATATATATATAT TATATAT	CCAACTTCGTGAATTG GTAAAA	CACTCATAAGTTACTT GAGCTATGCTT	59.0	472	INTERGENIC	--	--	--
Ca5_P1_30846189	Ca5	30846189	T/TTATAGCAAATA	GCCGACTTCGCTAAAA AGAA	AAGTCGGGTTTGCAAA TGAT	59.6	494	INTERGENIC	--	--	--
Ca5_P1_30852467	Ca5	30852467	TAGAGAGAGAGAGAGAGAG/AGA GAGAGAGAGAGAGAG	TCCCTCTGTCTTCGT CAAC	TCTGTTTTCTTGCC ATTG	60.2	497	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_30858994	Ca5	30858994	TTT/TTTATT	ATGAAGGCTGCGTTCTGACT	GGCCCTTGGAAGTCA CATAA	60.0	214	DRR	Ca_04781	--	NF-YB
Ca5_P1_30860511	Ca5	30860511	CAA/CAAA	ATAGCAACTCCATCCGCT	TTAGCAACTGATCGCC ACTG	59.7	580	INTERGENIC	--	--	--
Ca5_P1_30860744	Ca5	30860744	TA/T	CAGTGCGGATCAGTTGCTAA	CGTGAAACAATGAAAA TTGTGAA	60.0	491	INTERGENIC	--	--	--
Ca5_P1_30861801	Ca5	30861801	TTAAT/TTAATGTAAT	TTACTACTCCGAATGCCCA	TGATGGTGGTGAGGATCAAA	60.5	658	INTERGENIC	--	--	--
Ca5_P1_30864475	Ca5	30864475	TAA/TAAA	TTCTGCAAGACGGTTCTGTG	CGGATGTCTACCCTCGTGT	60.0	260	INTRON	Ca_04782	T	bHLH
Ca5_P1_30868972	Ca5	30868972	AT/A	ACCATTCAATTTCTGCAGCC	ATTTCCATGTCCAACAAGGC	60.1	526	DRR	Ca_04782	T	bHLH
Ca5_P1_30875873	Ca5	30875873	ATT/ATTT	GTCGTCCAGCGTTAGGATA	AAGAGAATTAGAGAAGAGTGCGG	60.1	318	DRR	Ca_04783	--	BES1
Ca5_P1_30883881	Ca5	30883881	GGAGA/GGAGAGTGGCGCGGTGA GA	GGCTGCCCACTGTCTAATAA	GTCACTGCCTCCGTTCTCTC	60.0	430	INTERGENIC	--	--	--
Ca5_P1_30886397	Ca5	30886397	CTT/CTTT	GTGACATATTGAGGGTGGGG	CTCCCCAACGTAGAACCAAA	60.1	791	INTRON	Ca_04785	R	--
Ca5_P1_30892879	Ca5	30892879	ATTTTT/ATTT	GCTTTTTACCAGGGGCTTTC	CACACTGGCAAAATTTGGTG	60.1	806	INTRON	Ca_04786	U	--
Ca5_P1_30899231	Ca5	30899231	CAAAAA/CAAAAAA	TTTCGACCCATAATGGTGGT	TTCAACAAAAACACAATCGG	60.1	796	DRR	Ca_04787	T	MYB_related
Ca5_P1_30900578	Ca5	30900578	AAAA/AAAAATAAA	AGTGTACGTGAGAGTGCCA	TCAAAGGAGGCAAAATGTAAAA	60.5	570	DRR	Ca_04787	T	MYB_related

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_30916760	Ca5	30916760	CAAA/CAAAAA	GTGCGCTAATGCTTCC ATTT	CTCTCCAAGGTTCTAC CCCC	60.2	617	INTERGENIC	--	--	--
Ca5_P1_30917049	Ca5	30917049	CAAA/CAAAA	GTGCGCTAATGCTTCC ATTT	CTCTCCAAGGTTCTAC CCCC	60.2	617	INTERGENIC	--	--	--
Ca5_P1_30917121	Ca5	30917121	TA/TAA	GTGCGCTAATGCTTCC ATTT	CTCTCCAAGGTTCTAC CCCC	60.2	617	INTERGENIC	--	--	--
Ca5_P1_30917430	Ca5	30917430	TTATGTATGTATGT/TTATGTATGT	GGGGGTAGAACCTTG GAGAG	TTTTGTCCACAACCTT GGTTC	59.9	465	INTERGENIC	--	--	--
Ca5_P1_30917514	Ca5	30917514	T/TA	GGGGGTAGAACCTTG GAGAG	TTTTGTCCACAACCTT GGTTC	59.9	465	INTERGENIC	--	--	--
Ca5_P1_30926822	Ca5	30926822	ACC/ACCC	CGATCTCGGTTCTTT TCCA	TTGGTAGTGCTTTGCA TCGAA	60.2	724	INTERGENIC	--	--	--
Ca5_P1_30935076	Ca5	30935076	TC/T	TTCATTTTCTCACCCCT TGC	TGGGTTTGTAACCTT TCTTGGA	60.1	250	DRR	Ca_04790	--	--
Ca5_P1_30937217	Ca5	30937217	GATTA/GATTATTA	GGCTGGCTAAAAGATA CCCC	GATAGGAAATCGCAG GGTCA	59.9	311	DRR	Ca_04792	--	--
Ca5_P1_30947977	Ca5	30947977	AATAT/AAT	TGCAATTTTGGGTTTTA GGC	TAATATCATGGCATCG GCAA	59.9	573	INTERGENIC	--	--	--
Ca5_P1_30948284	Ca5	30948284	T/TGTTCTG	GTTTTTAAGTTGCCGA TGCC	GCTAATAGGTCGAACG CCAA	59.6	575	INTERGENIC	--	--	--
Ca5_P1_30948697	Ca5	30948697	CAA/CAAA	ATATTGTTGGTAGCGT CGGC	TGTGCGGAGACATCTT ATGC	60.0	601	INTERGENIC	--	--	--
Ca5_P1_30949879	Ca5	30949879	AATTGAATAACCAGCCATTGAATAAC CA/AATTGAATAACCA	TGTTAATGTTTATGGC CGCA	CAGCGTCTTGTCAAAT TGTGT	60.0	508	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_30950328	Ca5	30950328	C/CT	CCATTGAATAACCAAC CAACG	GCACGACATAACCTCA ACCC	60.1	712	INTERGENIC	--	--	--
Ca5_P1_30953573	Ca5	30953573	CTTTTT/CTTTTTT	CGTGCATACACTGTAC CACTCC	TCAAGAGCTACATGCC TCCC	60.5	342	INTERGENIC	--	--	--
Ca5_P1_30959016	Ca5	30959016	CTATAT/CTAT	GGGGCATACTGCTACG ATGT	TTCGCTACACCTTGAC CACA	60.0	639	INTERGENIC	--	--	--
Ca5_P1_30959641	Ca5	30959641	AT/ATGATACT	TGTGGTCAAGGTGTAG CGAA	TGCCATGTATTCTGAG CGTC	60.3	425	INTERGENIC	--	--	--
Ca5_P1_30961344	Ca5	30961344	CTCCATC/CTC	GGACGATCGATGGAGA CAGT	GAAGCCAAGATAGCAC AGGC	60.1	383	INTERGENIC	--	--	--
Ca5_P1_30961731	Ca5	30961731	A/AC	GCCTGTGCTATCTTGG CTTC	AGGATTGCTCCAGCAA AGAA	60.0	493	INTRON	Ca_04795	R	--
Ca5_P1_30986745	Ca5	30986745	GATAAAT/GATAAATTTGTCATTAA AT	AAAAAGACTGCAACAA GAAAAACT	TCTCATAACTGCATCC GCTG	57.9	957	INTERGENIC	--	--	--
Ca5_P1_30987681	Ca5	30987681	C/CA	TCAGCGGATGCAGTTA TGAG	GCGACTACTGTGCGA GTCAC	60.0	501	INTERGENIC	--	--	--
Ca5_P1_30990191	Ca5	30990191	TATT/TATTCATT	GAATCCCCAAACAAAA CCCT	CACACCACGACATTT TGAC	60.0	540	INTERGENIC	--	--	--
Ca5_P1_30997360	Ca5	30997360	GA/GAA	TTGGTGCCAAATTGGT GTAA	CTCTCGACTCTCAAT TCCGA	59.8	419	DRR	Ca_04797	K	--
Ca5_P1_31000618	Ca5	31000618	AA/AAATA	TTAGGTTGGGAGGGG AGAGT	CCAATCAGGAACACCG ATCT	59.9	618	DRR	Ca_04798	--	--
Ca5_P1_31001905	Ca5	31001905	AAT/AATATAT	CGACTCACGACAGAGG ATGA	CGAAGAGGAAATCTT GTTTGTTT	60.0	836	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_31002418	Ca5	31002418	TAAAAAAAAA/TAAAAAAAAA	AAGCAAAACAACAAGA ATTTCTCT	CGAACTTAGGCTCAAA TTCCC	60.0	497	INTERGENIC	--	--	--
Ca5_P1_31002558	Ca5	31002558	TAAA/TAA	AAGCAAAACAACAAGA ATTTCTCT	GTTATGCGAGTGTGG ATGG	60.0	720	INTERGENIC	--	--	--
Ca5_P1_31006740	Ca5	31006740	CA/CAA	CTGGTCCCTCTTGAA CCAA	GGACCTTAAACGCAAA CAAA	60.1	583	INTERGENIC	--	--	--
Ca5_P1_31027801	Ca5	31027801	CATAAATA/CATAAATAATA	ACAGTGGTCCCCTAAT CGAG	TCCGATCTGGTCTGAC CTTT	60.0	793	INTERGENIC	--	--	--
Ca5_P1_31036160	Ca5	31036160	TTTATTATTATTAT/TTTATTATTATTAT TATTAT	GCAGAGGATGTTGGTG GAAT	GCTTGGTTTTGGCAAA CATT	59.9	463	INTERGENIC	--	--	--
Ca5_P1_31036248	Ca5	31036248	AAGA/AAGAGA	GCAGAGGATGTTGGTG GAAT	GCTTGGTTTTGGCAAA CATT	59.9	463	INTERGENIC	--	--	--
Ca5_P1_31038126	Ca5	31038126	ATTTTTTTTT/ATTTTTTTTT	TGGTCGAAATCTTTTT AATGAAGT	CCGAGTTGAGACTAGC GAAA	59.5	777	INTERGENIC	--	--	--
Ca5_P1_31038384	Ca5	31038384	ATACTACT/ATACT	TCAAAACACAATCCTTC CTTCA	TGGAATAATGACGGTG ACGA	59.6	625	INTERGENIC	--	--	--
Ca5_P1_31043053	Ca5	31043053	A/AC	GTTGGGTGCTTATGGC AAGT	GCACCACAATTTCAAA TGTC A	60.0	485	INTERGENIC	--	--	--
Ca5_P1_31045566	Ca5	31045566	AT/ATT	AACTCACTTCCACAAT GCCC	CACCTGCAATCAACC CCTT	60.0	231	INTRON	Ca_04803	O	--
Ca5_P1_31049058	Ca5	31049058	CAAAAA/CAAAA	ATATTTTAGCGGGCTG ATGC	TGTGCATGTAACAATC GGTG	59.2	594	INTERGENIC	--	--	--
Ca5_P1_31052451	Ca5	31052451	TAAAAAAAAA/TAAAAAAAAA	TGGATCTTGCCATGTG GATA	TCTGAAACCTGGTGGG AGAC	59.9	581	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_31055329	Ca5	31055329	GTTTTTTT/GTTTTTTT	TGCATTCTCATCAGGA GCTG	TTTGTATTGATCCCA CCTTG	60.1	698	DRR	Ca_04804	--	NAC
Ca5_P1_31061529	Ca5	31061529	A/AAAAAGGT	GCGAGACGTGTCCTTG AAAT	TACCTGGGTGGGATG TGATT	60.3	157	INTERGENIC	--	--	--
Ca5_P1_3106419	Ca5	3106419	CACA/CACATAACTACA	CAATTTTCGTGATGTG GCAG	TGAGTGATGCGAGTTG TTCG	60.1	749	INTERGENIC	--	--	--
Ca5_P1_31065540	Ca5	31065540	TATAA/TATAATAA	GTGCATCCTTGTTTC GGTT	GTGATGACTTCAAGGG GCAT	60.0	938	INTRON	Ca_04805	R	--
Ca5_P1_31068432	Ca5	31068432	TTTATTATTATTATTATTATTATTA TT/TTTATTATTATTATTATTATTAT TATTATT	AGCAAATTGATTAATC GCAA	TTCAATAGGAGTCTGA GTTTTTC	57.5	508	INTERGENIC	--	--	--
Ca5_P1_31069620	Ca5	31069620	ATTT/ATT	ATTCTAAATGGCGGC TTTT	TGATTGTTGGAGGGT TTGA	59.9	282	DRR	Ca_04806	--	--
Ca5_P1_31072514	Ca5	31072514	GAAAAA/GAAAAA	CCTTCACAGCAGCAAC AAAA	AGGGAGCAATGCATG AAAAC	60.0	566	INTRON	Ca_04806	--	--
Ca5_P1_31072835	Ca5	31072835	A/AC	GTTTTTCATGATTGCT CCCT	TTCAACCAATGCACT TCAA	60.1	622	INTERGENIC	--	--	--
Ca5_P1_31083274	Ca5	31083274	ATTTTT/ATTTTTTTT	TCTTGAACACTTGGC GGCT	CCAATCATGTTGCGTT TTTG	60.0	662	DRR	Ca_04808	--	--
Ca5_P1_31084271	Ca5	31084271	TAAC/TAACCAAC	GATTCGGGGCAAAACA GTAA	ATTTACCCCAACCCCT TAGC	59.9	524	DRR	Ca_04808	--	--
Ca5_P1_31094152	Ca5	31094152	AATATATA/AATATA	TTTCATGCAATCAAAA ATCG	CTGCCCCAATGTCTAA TGCT	58.7	438	DRR	Ca_04810	O	--
Ca5_P1_31094417	Ca5	31094417	A/AG	GGAACCAACTCAGGTC AAGG	CTGCCCCAATGTCTAA TGCT	59.5	100	DRR	Ca_04810	O	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_31104065	Ca5	31104065	TTT/TTTACATATT	CCGTTATATTATGGGC CGTG	TGCTTTCCAATTTCATT CCA	60.1	802	DRR	Ca_04812	R	--
Ca5_P1_31110488	Ca5	31110488	AGGATAATG/AG	GGTGAGTCAACGGCAT TTTT	CCGGGTGCAAGTTCA GTAAA	60.0	279	INTERGENIC	--	--	--
Ca5_P1_31119149	Ca5	31119149	TTAAGTAAG/TTAAG	GCCTCCTATGAGCTTT GTGC	ACAATCCACCAGGGAA TCAA	60.0	430	DRR	Ca_04814	--	NF-YC
Ca5_P1_31121983	Ca5	31121983	TCAACTCCAACCTCAA/TCAACTCCAA CTCCAACCTCAA	CTGCTGCCAACTTCT CCTC	CCGTTTGTGCAGTGTT CATC	60.1	614	INTRON	Ca_04814	--	NF-YC
Ca5_P1_31130198	Ca5	31130198	GAATGGTAATGGTAATGGTAATGGTA ATGGTAA/GAATGGTAATGGTAATGGT AATGGTAA	GAGAGGGTGAAAAATG GCAA	ATTGAGTGGGAAGCTT GGTG	60.1	912	INTERGENIC	--	--	--
Ca5_P1_31136023	Ca5	31136023	AAAAT/A	TCACAATTTCCCAACC CAAT	AATTTCTACCAATGCG TCCG	60.0	796	INTRON	Ca_04816	G	Trihelix
Ca5_P1_31143593	Ca5	31143593	CTAATAATAATAATAATA/CTAATAATA ATAATAATAATAATAATAATA	CATTTTGCTCCTCGTGC ATTG	GTTGGTGTGGGAGA AGGAA	60.1	355	INTRON	Ca_04817	PET	NAC
Ca5_P1_31154924	Ca5	31154924	CAA/CA	GTGGGTGTACCGGAAC AAAT	GCCATATTCGAGTTCA ACGG	59.6	115	INTERGENIC	--	--	--
Ca5_P1_31161117	Ca5	31161117	T/TC	AATTCACACCATGTCT CGCA	TACATGGGTCCATGCT TTCA	60.1	200	DRR	Ca_04820	S	CPP
Ca5_P1_31161168	Ca5	31161168	TTATATATATATATATATATATATAT AT/TTATATATATATATATATATATAT ATATAT	TTCTTTGAAAGCATGG ACCC	TCTCGGGAATCTTTCC AAAC	60.1	469	DRR	Ca_04820	S	CPP
Ca5_P1_31188289	Ca5	31188289	TAAAA/TAAA	AAAGTGTTGAGGCGCA GAAA	GCATGAGTTCATTGGT GGTG	60.0	479	INTERGENIC	--	--	--
Ca5_P1_31189431	Ca5	31189431	C/CG	TTCAGCATCGATTTTG ACCA	CCGAAGCAAACCAACT CAAT	60.2	394	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_31189593	Ca5	31189593	GTTTTTTTTT/GTTTTTTT	TTCAGCATCGATTTTG ACCA	CCGAAGCAAACCACT CAAT	60.2	394	INTERGENIC	--	--	--
Ca5_P1_31189857	Ca5	31189857	GTTTTTT/GTTTTTTT	ATTGAGTTGGTTTGCT TCGG	TTGAATGGAGTGAGAA GGGG	60.1	569	INTERGENIC	--	--	--
Ca5_P1_31192669	Ca5	31192669	AC/A	CCTCTCACAACCGACG AAAT	AAGTATCCATTGGCTC CGTG	60.1	764	DRR	Ca_04825	R	WOX
Ca5_P1_31193802	Ca5	31193802	T/TTC	TTAATTCCAATGCGGA AAGC	CCTTTCCAATGCACCA AACT	60.0	367	DRR	Ca_04825	R	WOX
Ca5_P1_31197193	Ca5	31197193	TA/T	TTGGCTAAATACCTCT CGTTCC	GTCGGTTGAGCTAGG GCTTA	59.6	488	INTERGENIC	--	--	--
Ca5_P1_31229749	Ca5	31229749	GATATATA/GATATATATA	TCGGCTCCTTTTCATT ACG	CTACCGATTGCAATC CAAT	60.2	272	INTERGENIC	--	--	--
Ca5_P1_31231469	Ca5	31231469	ATCTC/ATC	TTATGGGTCACCTCAAC GTGAA	AAAGTTTGGGTTCTGT CCCT	59.0	474	DRR	Ca_04829	--	--
Ca5_P1_31237915	Ca5	31237915	TAAAAAA/TAAAAAA	ACACAAATTCGCCAAA ATCC	CATCATGCCTCAAGAT CACG	59.8	768	INTERGENIC	--	--	--
Ca5_P1_31240093	Ca5	31240093	CTT/CTTT	TTTGAAATGTGGTTCC ATGC	AGCAGTAATCTCGTCT GCGA	59.4	433	INTERGENIC	--	--	--
Ca5_P1_31241531	Ca5	31241531	CTTTTTTT/CTTTTTTTTTT	CGATGAACGCAAACTC AAGA	TAATCAACCAAAACCC CCAA	60.0	689	INTRON	Ca_04830	R	--
Ca5_P1_31254707	Ca5	31254707	T/TC	CTCACTTTTCCATTTCC AAACA	CCGACATGACAATGAT CAAGA	59.1	313	INTERGENIC	--	--	--
Ca5_P1_31255527	Ca5	31255527	GATATAT/GATATATAT	TCTGTCTTTAGCTTTG GCACG	AAAGGCCAGTATTTGT TGCC	60.6	100	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_31255829	Ca5	31255829	TG/T	AGACGGCAACAAATAC TGGC	TGTCTATTTTGGTGTG CGTAAAA	60.1	673	INTERGENIC	--	--	--
Ca5_P1_31256076	Ca5	31256076	TA/TAA	TTTTTGTGTACGATG GCTAA	CGCTCAACACACGTT CATT	57.5	672	INTERGENIC	--	--	--
Ca5_P1_31259108	Ca5	31259108	TAAAAAAAAAAAAA/TAAAAAAAAA	TCCAAGTCACAAATGG GTCA	CTTGTGGTGCTCAGTC CAAA	59.9	160	INTERGENIC	--	--	--
Ca5_P1_31264749	Ca5	31264749	TTATATATATATAT/TTATATATATAT AT	CTGGAGCTGGTGTGTC ATTG	GGCCATTTCGAAAAAC TTGT	60.3	374	DRR	Ca_04832	T	WRKY
Ca5_P1_31269201	Ca5	31269201	AG/A	CTCTAACGGTAAACTC GCCG	TGATTTAGGGTGATGT GGCA	59.9	440	INTERGENIC	--	--	--
Ca5_P1_31272781	Ca5	31272781	TTATAT/TTAT	CATAAAGAAGCAGAA AATCCCA	TGAAACGGACCTAATC CCTG	59.6	572	INTRON	Ca_04833	T	WRKY
Ca5_P1_31281161	Ca5	31281161	T/TGGACA	AGGAATAGACATGGCA ACGG	TCGCATGTACTCACCC AAAA	60.0	518	INTERGENIC	--	--	--
Ca5_P1_31287109	Ca5	31287109	TTATATATAT/TTATATAT	TGGGTGAAATATAAA GCCGA	TATCGCTCAACAAGC AACG	59.4	911	INTERGENIC	--	--	--
Ca5_P1_31288969	Ca5	31288969	CAATA/CA	ACCTGGCTCCACTTTC ACAC	TGGTGAATTTTCATGA CCCA	60.2	655	INTERGENIC	--	--	--
Ca5_P1_31290507	Ca5	31290507	ATTTTTTTTT/ATTTTTTTTTT	CAAAAACGACGAGCAA AACA	CTCGAGAACGTGCAG ATGG	59.9	509	INTERGENIC	--	--	--
Ca5_P1_31290985	Ca5	31290985	AAGA/AA	TAACTGACCCCATCTG CACG	CCCACAACCTCTTACA ACCC	62.1	875	INTERGENIC	--	--	--
Ca5_P1_31292592	Ca5	31292592	CCACACAC/CCACACACAC	AAATGCGGGTTTTCAC TGTC	TCTGCTTCCCGTTGTA GCTT	60.0	527	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_31300703	Ca5	31300703	ATATT/AT	ATGCCATTCTCTGAT GCTC	GAACAGCCAATGCTGT GAAA	60.2	581	INTERGENIC	--	--	--
Ca5_P1_31311316	Ca5	31311316	CTTTT/CTTTT	TTGGCACATATGGGGT TTTT	CCAACGCATAAGTCAT GTGG	60.1	730	DRR	Ca_04834	--	Nin-like
Ca5_P1_31316791	Ca5	31316791	T/TC	TCCACCAAAGCAAAAA TCAA	ACGTACCAAAGTTGG AAGG	59.1	747	INTERGENIC	--	--	--
Ca5_P1_31318324	Ca5	31318324	TTATATATATATATATATATATAT AT/TTATATATATATATATATATAT ATATATAT	GCTTCTCATCCTTAGC CCTTG	ATTGGAATCAAGCACA ACCC	60.3	590	INTERGENIC	--	--	--
Ca5_P1_31320591	Ca5	31320591	AAGTTAT/A	TGATTAACTCATGAA ATTGCG	TTATTTGACGCCAATC CACA	60.0	706	INTERGENIC	--	--	--
Ca5_P1_31329096	Ca5	31329096	T/TA	TGGCAATGAAACATCT TGGA	TTCTTGAATGCGAG AATC	60.0	755	DRR	Ca_04835	P	--
Ca5_P1_31333742	Ca5	31333742	CAA/CA	GCGTTTGGGGTGACTT ACAT	TGGTTCGTTCGTGTGT TGAT	59.9	780	INTRON	Ca_04835	P	--
Ca5_P1_31334829	Ca5	31334829	TATTATAAAATT/TATT	AATGTCCCCAACCAAT TTGA	ATGGGTGATAAATACC TGTTTTG	60.0	774	INTERGENIC	--	--	--
Ca5_P1_31335183	Ca5	31335183	TG/T	CATTAACGATGGGTTT TCITTTT	TGAATGTATTGCAATT GTTTTGA	58.5	745	INTERGENIC	--	--	--
Ca5_P1_31336470	Ca5	31336470	TTTATT/TTT	GGAATAAAAAATCGCA CGGA	CGCCAGAATCAGGATA AGGA	60.1	867	INTERGENIC	--	--	--
Ca5_P1_31351417	Ca5	31351417	ATTTTTTTT/ATTTTTTTTTT	TGGTCCACATTTTCC CAAT	TTGCTATCTTCGCTTT CCGT	60.0	724	INTRON	Ca_04836	G	--
Ca5_P1_31355774	Ca5	31355774	TC/TCCTGCTTTGCC	TATGGCTTGAAGCAAA TCCC	GCATCACCAACCTTT TTGT	60.0	293	DRR	Ca_04837	--	M-type

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_31359587	Ca5	31359587	GAAAAAAAAAAAAAAAAA/GAAAAAAA AAA	TTCTTGCACCAACAA GGTG	CCAACATTGTACCACA CCCA	59.7	702	INTERGENIC	--	--	--
Ca5_P1_31364615	Ca5	31364615	GAAAAAAAA/GAAAAAAA	TTTGATGTTGTTGGAG ATGAAAA	TCGTCTAATTTGTCGC TTTCG	59.5	448	INTERGENIC	--	--	--
Ca5_P1_31370715	Ca5	31370715	A/AT	ATCCTCATGGTGCCTC AGTC	TGAAATTTATGCTCC AGCC	60.1	705	DRR	Ca_04838	S	--
Ca5_P1_31375160	Ca5	31375160	ATTT/ATT	TTGTCCGTTTGTACG TGGA	TCCAAAGCCTGAAGCT CAAT	60.0	429	INTERGENIC	--	--	--
Ca5_P1_31382813	Ca5	31382813	GTT/GTTT	GAATTGGAGAGGATGC CGTA	GAACAAGGACTGCGTT GTCA	60.0	415	INTRON	Ca_04840	S	--
Ca5_P1_31383552	Ca5	31383552	AGGG/AGG	TGGCCGAATTAAGAA CCTG	CCTTTTCATTAGCACC GCTC	60.1	437	INTRON	Ca_04840	S	--
Ca5_P1_31393806	Ca5	31393806	TT/TCTCT	CACAAGAAAACTACG GGCA	TCATGTTGTGAGATCA TGCG	58.8	615	INTERGENIC	--	--	--
Ca5_P1_31410036	Ca5	31410036	CAAAATAATAAATAA/CAAAATAA TAAATAA	TTTTCATCTCCAACAAC ATCAAA	TTGGCAGAAAGTGTC ATTC	59.5	507	INTERGENIC	--	--	--
Ca5_P1_31411318	Ca5	31411318	GT/ATATA	GCCCCAAGTCCATGAT GTCT	TATGGACACGTTTAC GGCA	59.9	846	INTERGENIC	--	--	--
Ca5_P1_31412254	Ca5	31412254	AATTA/AA	CACGTGTCCATCAAAA TTGC	TGCAAGCGAATCAAAAC AAAA	60.0	721	INTERGENIC	--	--	--
Ca5_P1_31419625	Ca5	31419625	AAAAATAATAATAA/AAAAATAATA ATAATAA	CGTTAGGGTGCGAAAA CAAT	AATGCAAGCTGCATCA TCTG	60.0	401	INTRON	Ca_04844	S	--
Ca5_P1_31420220	Ca5	31420220	ATTTTTTTTT/ATTTTTTTTT	TTGCTTGCTGGCTTCT TTTT	ATTTCTCTCCATTCC TCCC	60.1	707	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_31421448	Ca5	31421448	A/AT	TCCCTCGTGCTTCTT GAAC	CGACACAGTTGACCAT TTTACA	60.4	510	INTERGENIC	--	--	--
Ca5_P1_31421612	Ca5	31421612	TAAAAAAAA/TAAAAAAAAAAAA	TCTCCCTTCAAACTC CTCAA	CAAAAGGGAGTGCTG ATTGG	58.9	946	INTERGENIC	--	--	--
Ca5_P1_31421702	Ca5	31421702	TC/TCC	TGTTGTTTGCACTTCTC CAAAG	CAAAAGGGAGTGCTG ATTGG	60.1	768	INTERGENIC	--	--	--
Ca5_P1_31424388	Ca5	31424388	CTTTTTTT/CTTTTTTTTT	ATATCTTTCGCCAACAA CCG	TGGAAGCTGAAGTGCA CAAC	60.0	531	INTRON	Ca_04845	--	--
Ca5_P1_31429154	Ca5	31429154	CG/CGCTAG	TTTGCACCGATCCATA TTCA	ACTGTGGCGATTTTCC TTTG	59.9	700	DRR	Ca_04845	--	--
Ca5_P1_31435124	Ca5	31435124	CTTTTT/CTTTTTT	TTGAAATCCGATTGGT GACA	ATTTGGTGCTCCCTGT CTCG	59.9	538	INTERGENIC	--	--	--
Ca5_P1_31471422	Ca5	31471422	TAAAAAAAA/TAAAAAAA	TCGATGATTGAACGTC AAAA	AGTAAGTGCCACTGT TCGG	57.7	825	INTERGENIC	--	--	--
Ca5_P1_31474499	Ca5	31474499	TTT/TTTTCTT	CAGCATGTAGAACTTA TTGACCG	TTGGAGAAATCCAAT AACCTC	58.8	667	INTRON	Ca_04848	--	--
Ca5_P1_31475055	Ca5	31475055	GTTT/GTTTT	CGATAGAATCATGCTA CAAAATGTG	AGTGCTCTCCCAAGC TACA	59.9	705	INTRON	Ca_04848	--	--
Ca5_P1_31481808	Ca5	31481808	TG/T	GATGGTTTGGTTGTTT TGGG	ACTACAGTCCACCGGC CTTA	60.1	507	INTERGENIC	--	--	--
Ca5_P1_31483203	Ca5	31483203	ATT/AT	AATGTGTCCGCTTTGA ATCC	GATCAGTTCGGTTCGG GTTA	59.9	783	INTERGENIC	--	--	--
Ca5_P1_31483256	Ca5	31483256	G/GT	AATGTGTCCGCTTTGA ATCC	GATCAGTTCGGTTCGG GTTA	59.9	783	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_31486871	Ca5	31486871	T/TA	CAACGTGTTTTATGC ACGG	CTCTCGTATTTCCGG TGAG	60.0	310	INTERGENIC	--	--	--
Ca5_P1_31489305	Ca5	31489305	TACACACACACACACA/TACACACA CACACA	GATTCAGGGCCACGTC ATAG	TTGTAATCCAGTTTG CACG	60.5	733	INTRON	Ca_04850	E	--
Ca5_P1_31489568	Ca5	31489568	TAAAA/TAAA	TGCATGGTGCAATTAA ATCCT	TTGTAATCCAGTTTG CACG	60.3	385	INTRON	Ca_04850	E	--
Ca5_P1_3149545	Ca5	3149545	AATATATATATATATATATATATATA TATATAT/AATATATATATATATATAT ATATATATATATATATAT	GAAGAAGGCGCCATAA TCAA	TTGCCACAAATTTCAA TCCA	60.2	779	INTERGENIC	--	--	--
Ca5_P1_31506859	Ca5	31506859	TAA/TA	GTTTTTGGAACAACAT GCCC	GGGGTAGGAGTGGGG ACTAA	60.2	793	INTRON	Ca_04853	Q	--
Ca5_P1_315249	Ca5	315249	AATATATATATATATAT/AATATATATA TATATATAT	CCCCATTGAAAGGAGA CAAA	AAATTGCACCCTCACA CACA	59.9	673	INTRON	Ca_18187	UR	--
Ca5_P1_31526667	Ca5	31526667	CTTTTT/CTTTTTTT	GGATGTTTATTGGTCA TTTTTCG	TTGTGAAATGCACGAG AGAA	59.6	254	INTERGENIC	--	--	--
Ca5_P1_31526889	Ca5	31526889	TATAATAATAATAATAATAATAATA ATAAT/TATAATAATAATAATAATAATA ATAATAATAATAAT	GGATGTTTATTGGTCA TTTTTCG	GGGAATTTGCTATTGC ACG	59.6	617	INTERGENIC	--	--	--
Ca5_P1_31532842	Ca5	31532842	CTT/CTTT	AAGCAAAAGGAGGGGA TGAT	CCTGAAAACCTCAACCC AAGG	59.9	577	INTERGENIC	--	--	--
Ca5_P1_31533703	Ca5	31533703	GAGTAGTAG/GAGTAG	AAACCCTAGGAAGAGC GCAT	TTTTGCTTTGCTTTGG AGGT	60.2	382	INTERGENIC	--	--	--
Ca5_P1_31539606	Ca5	31539606	GATA/GATAAAAAATA	TGACCAGGATAATGGT CTGTTTC	AAACGCCTTTTGTGAA CACC	60.2	674	INTERGENIC	--	--	--
Ca5_P1_31539844	Ca5	31539844	GTTTT/GTT	TGTTTGAAGGACCCAA TGAA	ACCGGAGAGGGCATA AAAGT	58.9	146	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_31540146	Ca5	31540146	TAAA/TAAAA	ACTTTTATGCCCTCTC CGGT	CTCGGACAATTCGTC AAGT	60.0	446	INTERGENIC	--	--	--
Ca5_P1_31545695	Ca5	31545695	T/TC	AACACCTCCAGTTGGT TTGC	CAAGCAGGTTCAATT GCCA	60.0	460	INTERGENIC	--	--	--
Ca5_P1_31548798	Ca5	31548798	AACAC/AAC	CCCTTGCTGCTTTTAG TTGC	TAGGGCTGTACACTT CACG	60.0	594	DRR	Ca_04856	--	--
Ca5_P1_31549084	Ca5	31549084	AAA/AAATCAA	TTCCTTGCATCATTGC ATGT	AAATAGCTCAATGCGG TTGC	60.1	579	DRR	Ca_04856	--	--
Ca5_P1_31549632	Ca5	31549632	GAAA/GA	GCAACCGCATTGAGCT ATTT	AAGCGCTGATGGTATC TGCT	60.2	689	DRR	Ca_04856	--	--
Ca5_P1_31550703	Ca5	31550703	CAA/CA	TGTTAGGTTGGACGTC ATGTTT	AATGATGCTTTTGTCT GCTG	59.9	656	INTERGENIC	--	--	--
Ca5_P1_31560873	Ca5	31560873	CAAA/CAA	AAAAAGACACCTCAAC GAACG	GACAATTACGGATTGG CGAC	59.3	365	INTERGENIC	--	--	--
Ca5_P1_31563038	Ca5	31563038	TTTAATTAA/TTTAA	CACTCCCTGTCTCGTT TTCC	CGAACGAGACTGTCA GCAAG	59.7	313	INTERGENIC	--	--	--
Ca5_P1_31585638	Ca5	31585638	TTTAAATATTAAATATTAAAT/TTTAAAT ATTAAATATTAAATATTAAAT	CACAGAATTGGTGGC ATTG	TGATCATGCGTGGATT TTGT	60.0	745	DRR	Ca_04861	R	--
Ca5_P1_31589277	Ca5	31589277	CAAAA/CAAAAA	GCTCATGGGGATCAAC TTGT	ACAGCATAGCATGGTC CTCC	59.9	419	INTRON	Ca_04861	R	--
Ca5_P1_31590678	Ca5	31590678	TAAA/TAA	TGCAAGGTTGCTGAAG AATG	TTCACCATTGACCAAG ACCA	60.0	342	INTRON	Ca_04861	R	--
Ca5_P1_31591981	Ca5	31591981	T/TATA	GATGACTGAATCCCGA AGGA	CCTTGCTCTGCTCTAG CTTA	60.0	442	INTRON	Ca_04861	R	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_31594106	Ca5	31594106	TAAAAAAAA/TAAAAAAAA	GTATGGGCGGAGAACTCAA	GCAGACAATAGTGGCTAAAAA	60.1	813	INTRON	Ca_04861	R	--
Ca5_P1_31609156	Ca5	31609156	CAATAATAATAATAATA/CAATAATAATAATAATAATA	TGATCCCAAGTGGCCTAAAG	GCAGCCTGCTTTTAATGGAC	60.1	290	DRR	Ca_04863	--	--
Ca5_P1_31609524	Ca5	31609524	T/TGTATATGAA	GCAGGCTGCCTATTTGAGTC	ATGTAGCAAACCTGCGGGTC	60.0	627	DRR	Ca_04863	--	--
Ca5_P1_31611802	Ca5	31611802	TGGG/TGG	TTCTTACCTGGGCTGATGG	GCAGGCTGTTTCACAACTGA	60.1	689	INTERGENIC	--	--	--
Ca5_P1_31614350	Ca5	31614350	CA/CAGATA	ACCTCATGGCTGCATTAAACC	GGATGGTTTGACTGAAGGGA	60.0	500	DRR	Ca_04864	R	B3
Ca5_P1_31614555	Ca5	31614555	GCC/GC	ACCTCATGGCTGCATTAAACC	GGCATTATAGCCGAGAGAG	60.0	616	DRR	Ca_04864	R	B3
Ca5_P1_31621509	Ca5	31621509	CTT/CTGTATATCTACTTTT	ATCCGAGTTTGCGTATGTCC	GGGACGTGGAGATTGTTGAT	60.0	635	INTERGENIC	--	--	--
Ca5_P1_31631188	Ca5	31631188	AAAATTTGTAA/AAAATTTGTAAGGACAAATTTGTAA	GCATGTCCAGCTTCCATTCT	ACGAGGAACCCAGAGACAAA	60.2	670	INTERGENIC	--	--	--
Ca5_P1_31631321	Ca5	31631321	CTTAAATTTAAATTTT/CTTAAATTTTAAATTTTAAATTTT	TGCAACAAAGAGCACTTCCA	ACGAGGAACCCAGAGACAAA	60.6	376	INTERGENIC	--	--	--
Ca5_P1_31633201	Ca5	31633201	TTATATATATATAT/TTATATATATAT	CCCAATTCAACCCCTCAATG	CACCACCGTATCTCAAGCCT	60.2	419	INTERGENIC	--	--	--
Ca5_P1_31633632	Ca5	31633632	TGAC/T	AGGCTTGAGATACGGTGGTG	CGTCCCTTATTTCCCCATT	60.1	186	INTERGENIC	--	--	--
Ca5_P1_31641292	Ca5	31641292	TAAAA/TAAAAA	ATTAAATTGGCTCGGCTTT	CAGAGATGCCTTAGTTGCCA	59.9	613	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_31645581	Ca5	31645581	TTATATA/TTATATATA	TGGTCAACCATAACAC TGCC	GTACCACATATTGGCG GCTT	59.1	704	INTERGENIC	--	--	--
Ca5_P1_31647654	Ca5	31647654	GAAAAAAAA/GAAAAAAAAA	TCCCACCAATTGTTTA GTCCA	TTTCACGAGTTGTTTC GGTG	60.2	422	DRR	Ca_04866	A	GATA
Ca5_P1_31657850	Ca5	31657850	ATCATTTC/ATC	CAGCATTGCACAACCA AACT	CAGATTTCTCACCTT CACACA	59.8	618	INTERGENIC	--	--	--
Ca5_P1_31663219	Ca5	31663219	TCA/TCACA	CTGGCAGCTGGTCAAA CATA	CAGTAGCCATTGCACT CTGC	59.9	463	INTERGENIC	--	--	--
Ca5_P1_31672372	Ca5	31672372	GAAAGAAAAAGAAAAA/GAAAGAAAA AAGAAAAAGAAAAA	CAAGAGTGCATAATTA CATCCCA	GAACAGGCGGAGAAA CAGAG	59.0	283	INTERGENIC	--	--	--
Ca5_P1_31684732	Ca5	31684732	TTTCT/TTTCTTCT	AGGCTGTGACCCTAGT TCCA	GTGTGGGAACATTTT GGTT	59.7	145	INTERGENIC	--	--	--
Ca5_P1_31691079	Ca5	31691079	GTTATTATTATTATTATTATTATTATTA TTATTATTATTATT/GTTATTATTATTAT TATTATTATTATTATTATTATTATTATT ATTATTATT	TTGGAAGGGGTGTTAG GGAT	GAGCATTGCACCACAA AAGA	60.5	669	DRR	Ca_04871	OJ	bZIP
Ca5_P1_31691419	Ca5	31691419	TACATACAC/TAC	CCGTTCAACCTCTGCA TCTT	TCTGTCAATCAATCTC AACTCG	60.3	216	DRR	Ca_04871	OJ	bZIP
Ca5_P1_31692690	Ca5	31692690	CTTTTT/CTTTT	GATTTATGGCCAGGCA AAGA	CAAACGACACACAAAC ACCA	60.0	533	INTERGENIC	--	--	--
Ca5_P1_31694006	Ca5	31694006	GGAATGAATGAATGAATGA/GGAATG AATGAATGAATGAATGAATGA	CCAAGCATGCTCATCA GAAA	TGAGAATGGGATCAG GGAAG	59.9	484	INTRON	Ca_04872	--	G2-like
Ca5_P1_31698289	Ca5	31698289	GTTTTTTTT/GTTTTTTTTTTTT	CTGCCTCCACATTAAC ATGC	CATGCAAAACAGCCAA GAAA	59.2	407	DRR	Ca_04872	--	G2-like
Ca5_P1_317066	Ca5	317066	TAAA/TAAAA	GAGCATTGATCCGGAT TGTA	TTTGACGATGCAACGG TTTA	59.9	544	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_31708422	Ca5	31708422	TAGAGAGAGAGAGAG/ TAGAGAGAGAGAGAGAGAG	CGTGGTGGTAGCCTT TCAT	ACCCTTGATGATCAT TGCC	60.0	244	DRR	Ca_04874	--	--
Ca5_P1_31708773	Ca5	31708773	CA/C	CGTGGTGGTAGCCTT TCAT	CCTTGGGGCAACTGAA ACTA	60.0	935	DRR	Ca_04874	--	--
Ca5_P1_31710056	Ca5	31710056	CA/CAGA	GCATTGAGTCAAACAG CCAA	TTTTGCTTGAAGCCAG GTCT	59.8	353	DRR	Ca_04874	--	--
Ca5_P1_31710230	Ca5	31710230	GAAAA/GAAAAA	GGATTCTCTTCAGAA CCCC	TTTTGCTTGAAGCCAG GTCT	59.9	178	DRR	Ca_04874	--	--
Ca5_P1_31716024	Ca5	31716024	AAA/AAATAA	CAATGAAACCTGCAA CCTT	CACGAGAATCTCCCT ACCA	60.0	717	INTRON	Ca_04875	--	FAR1
Ca5_P1_31732127	Ca5	31732127	CTGT/CT	TGCTAGCTTCTTCCCA CGTT	AAACGAAACAAAATA ACATTCTG	60.0	306	INTERGENIC	--	--	--
Ca5_P1_31732481	Ca5	31732481	GTAT/GTATATAT	CGAATGTTATTTTGT CGTTTT	AGGTGTCTTGGTCTTC GTTCA	57.4	616	INTERGENIC	--	--	--
Ca5_P1_31738522	Ca5	31738522	TTTTTTTTTT/TTTTTTTTTTTT	GACATAATGCGGTGGT GTGA	GCATGTTTGCCTCAT CTTT	60.4	916	DRR	Ca_04877	R	bHLH
Ca5_P1_31738589	Ca5	31738589	ATTTT/ATTT	TGTTTGAAAAATTAGAA GCAGTGAA	GCATGTTTGCCTCAT CTTT	59.4	821	DRR	Ca_04877	R	bHLH
Ca5_P1_31746670	Ca5	31746670	CAAAAAAAAA/CAAAAAAAAAA	GACTTGGGAAACATTA TGATCCA	TCGCTCGACTCACCAA CTAA	60.1	935	INTERGENIC	--	--	--
Ca5_P1_31747367	Ca5	31747367	ACT/A	TTTAGTTGGTGAGTCG AGCG	ACATCGAAAACATGAG GGAA	59.1	553	INTERGENIC	--	--	--
Ca5_P1_31749607	Ca5	31749607	TGG/TGGG	CGTCACTGTGCTTGAT TGCT	TGCAGCATTATACGGA GCTG	60.1	794	DRR	Ca_04878	R	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_31753784	Ca5	31753784	ATTTATTT/ATT	GGGGAAGTTTGGAGG AAGTC	ACTGGAAGTATGACG TGGC	59.9	520	INTRON	Ca_04879	--	--
Ca5_P1_31754975	Ca5	31754975	TTAT/TT	TTTGGTGCAGTACAC TTCC	TGAGGATTGGTTGAG AGGTG	58.8	261	INTERGENIC	--	--	--
Ca5_P1_31755077	Ca5	31755077	CTTT/CT	TACACTCCGTGCACC GTTA	TGAGGATTGGTTGAG AGGTG	60.2	250	INTERGENIC	--	--	--
Ca5_P1_31759396	Ca5	31759396	G/GC	CCACAAGCAGCACAAA GTGT	GGATTAGCGCTCTGA CTTC	59.9	490	DRR	Ca_04880	O	MYB_related
Ca5_P1_31772153	Ca5	31772153	AATTAATATTAATAT/AATTAATAT	CTTGTGCCACACACA TTTT	TCCATTGTTGTTGTCG TCGT	59.5	498	INTERGENIC	--	--	--
Ca5_P1_31778112	Ca5	31778112	TACCATTGCTGAACCATTTGCTGAA CCATTT/TACCATTGCTGAACCATTT	AGGCATCACCAAGCTT CTTC	TGTGTTGTGTCAGTT CTCAAG	59.4	837	INTRON	Ca_04882	Z	MYB_related
Ca5_P1_31781303	Ca5	31781303	GTAATT/GTACTTTACTT	GGACTGCCATGTTGT TCCT	TGGCTTTGACGATGAG ACAG	60.0	594	INTRON	Ca_04882	Z	MYB_related
Ca5_P1_31787653	Ca5	31787653	CA/C	GAACCCCAACACGCT TCTA	GCTTTAACGGCGCATA TGTT	60.1	626	DRR	Ca_04883	--	--
Ca5_P1_31789899	Ca5	31789899	TC/T	GCAACAATTTTATTTA TTGCG	TGCATTGGTGGTTAAA GCAG	59.5	640	INTERGENIC	--	--	--
Ca5_P1_31791515	Ca5	31791515	ATTTTGTAGCTTTGTTT/ATTT	TAAGGCGCCAGACTCA AGTT	TCAACGACCTTCTTC CACT	60.0	370	INTERGENIC	--	--	--
Ca5_P1_31792907	Ca5	31792907	T/TG	TATTGGTTGCAGGTCG ATGA	TGCGTATCACCCACAA AAGT	60.1	483	DRR	Ca_04884	--	--
Ca5_P1_31793780	Ca5	31793780	TTAT/TTATAT	CGGAGGGATGATCTTC AAAA	CTTTGTGGCTCGACA TTGA	60.0	457	DRR	Ca_04884	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_31804308	Ca5	31804308	TAA/TA	TGCTAGGATTGAAAA TCGG	TTCTCCTCGTTATGC TGCT	60.0	714	INTERGENIC	--	--	--
Ca5_P1_31805131	Ca5	31805131	GAAAAAA/GAAAAAA	TGCAGTGGATAGATAA CGGG	TCTTTGGCAGTGTCA GCAC	58.6	919	INTERGENIC	--	--	--
Ca5_P1_31805938	Ca5	31805938	GTTTTTTTT/GTTTTTT	GTGCTGACACTGCCAA AAGA	TAAGCGGTGGAGGTA GGAAA	60.0	503	INTERGENIC	--	--	--
Ca5_P1_31807859	Ca5	31807859	TCC/TC	AATCATACACGGTGGG TCGT	TTGCATTGTTACATG CTCA	60.1	224	INTERGENIC	--	--	--
Ca5_P1_31809508	Ca5	31809508	TAAAAAAA/TAAAAAAA	TCTGTTCTCGACGTTG TTCG	CAAAAGAACATGGACC ACGA	60.0	637	INTRON	Ca_04886	Z	--
Ca5_P1_31835054	Ca5	31835054	CTTT/CTTTCCTTTTTT	GCAAGGAACAAGGTAA CCCA	CCAACAAAAGAGGGG GAGTT	60.0	657	INTERGENIC	--	--	--
Ca5_P1_31835201	Ca5	31835201	TAAAAAAA/TAAAAAAA	AGAGTGATCCTATGC GACC	CCAACAAAAGAGGGG GAGTT	60.2	211	INTERGENIC	--	--	--
Ca5_P1_31836262	Ca5	31836262	T/TCC	GGAGTTAGTGGTATGC CCGA	AGAGGTCCATACATGG CGTT	60.0	711	INTERGENIC	--	--	--
Ca5_P1_31838442	Ca5	31838442	TATAATAAAT/TATAATAAT	CACAGGGTTGGTTGAT GATG	CAGATGGAAGGGGAA GACAA	59.8	666	INTERGENIC	--	--	--
Ca5_P1_31844171	Ca5	31844171	CGG/CG	CAAGAACAGGGCCGTT AAGA	CGGTAGCCTAATGAAC TCGC	60.2	371	INTERGENIC	--	--	--
Ca5_P1_31846087	Ca5	31846087	CATTTAATT/CATTTAATTATTATTTA ATT	TGCTTTGGCTTATGAT GCTG	TGGGATTGTCCCGGAT TTAT	60.0	246	INTERGENIC	--	--	--
Ca5_P1_31849847	Ca5	31849847	CTCGATCG/CTCG	AAACTCGGGCCAGTA AAGT	TGCCATCATCTCCCAT CATA	60.0	424	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_31852169	Ca5	31852169	T/TTA	CCATTCAACCACTTC ACCA	TTCGTACGAGTTGAGG GTGTT	59.4	907	INTERGENIC	--	--	--
Ca5_P1_31853677	Ca5	31853677	TAAAAA/TAAAAAA	TGCGTGATGGTCAAG AAAG	TCTGTGAAAATTGTGT GACTTGTT	59.8	522	INTERGENIC	--	--	--
Ca5_P1_31858708	Ca5	31858708	GTCAA/G	CTCCAGCTTTTGGGA CATA	TCTTCTGCTTGAGAC AAAACA	60.1	267	INTERGENIC	--	--	--
Ca5_P1_31860555	Ca5	31860555	GNNNNNNNNN/GNNNNNN	CGGTGATCATGTCTGC TACC	AACACCATCCTCTCCT CCCT	59.1	478	INTERGENIC	--	--	--
Ca5_P1_31860766	Ca5	31860766	TAATTTAA/TAATTTAATAAATTTAA	TTTGGGAATGAGGAGG TGTC	CGCTTGTGTTCTGTGC ATTT	59.9	333	INTERGENIC	--	--	--
Ca5_P1_31862518	Ca5	31862518	CTTT/CTTTTTTTTT	TTGGGGCTAACAAAA GGTG	AGTTGGCACCAAGGAA TCTG	60.0	650	INTRON	Ca_04892	--	--
Ca5_P1_31869532	Ca5	31869532	TAA/TA	GCTGGAGGCACCTCAA GAGT	TTGGTCATTGAAATAA TTGGGTT	59.6	788	DRR	Ca_04893	--	--
Ca5_P1_31869823	Ca5	31869823	TAAAAAA/TAAAAAA	TGCACTTATACCACAC ACATTGA	AAAGAGGAAGCCGAAT GTTAGA	59.0	817	DRR	Ca_04893	--	--
Ca5_P1_31870168	Ca5	31870168	TC/T	TCTAACATTCGGCTTC CTCTTT	CCAAACTAACACCGC ACAA	59.4	264	DRR	Ca_04893	--	--
Ca5_P1_31878621	Ca5	31878621	AACACATACATA/AACACATA	TTTCCACCCAAACAAA AGC	GTAACACAGCGTTCGA CCAA	60.0	700	DRR	Ca_04895	V	GRAS
Ca5_P1_31883630	Ca5	31883630	T/TC	CATTTTCCGAGCAATC CACT	TGATTGCGGGATTTTA TGGT	60.1	946	INTERGENIC	--	--	--
Ca5_P1_31883810	Ca5	31883810	AAAATTA/AAAATTATAAATTA	TGTGGTGTGTAAAT CAGGATG	TGATTGCGGGATTTTA TGGT	59.8	780	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_31886554	Ca5	31886554	AATA/AA	AGGCTTCAAGGTCAG CCAG	AATGGCTGGGCAGTAA AACA	59.5	235	INTERGENIC	--	--	--
Ca5_P1_31887987	Ca5	31887987	ATTTTTTTTT/ATTTTTTTTTTT	GTGAGGTGTGACTGGT GCAT	TTCAAGGACATGAATT TTGCC	59.6	722	INTERGENIC	--	--	--
Ca5_P1_31888751	Ca5	31888751	TG/T	TTTCATGTCCTTGAATCA CCG	GTCCCACTTTGCACA ATCT	59.5	616	INTERGENIC	--	--	--
Ca5_P1_31895026	Ca5	31895026	AAATTAATTAATT/AAATTAATT	GCTCACCTTATGAAGG GCAT	ATTTGGGGTTTGACA TGAA	59.2	850	DRR	Ca_04896	--	WRKY
Ca5_P1_31895865	Ca5	31895865	AACACA/AACACACA	TGCTATTTGCACGGCT TAAA	ATGCCCGCAATCAGTT TATC	59.5	261	DRR	Ca_04897	--	--
Ca5_P1_31904310	Ca5	31904310	ATTTTTTTTT/ATTTTTTTTTTT	TTGGAATCCGTTGTTC GAGT	TTTTACCAACCACAC CAAA	60.5	406	INTERGENIC	--	--	--
Ca5_P1_31917057	Ca5	31917057	ATATATC/ATATATCTTACTATATC	GTGATGCAGCAGAAGC ACAT	TTGCGACGAGAATGTC AAAA	60.0	325	INTERGENIC	--	--	--
Ca5_P1_31919310	Ca5	31919310	TA/T	CGGTAGCTATACTCGG TGCC	ACAAATTCCTCCTCCA ACCC	59.8	795	INTERGENIC	--	--	--
Ca5_P1_31919471	Ca5	31919471	AAGTA/AA	CCCTCTCTCCCTCAGT TCCT	ACTCCTCCTAGCTCCC CTTG	59.8	485	INTERGENIC	--	--	--
Ca5_P1_31926675	Ca5	31926675	A/AG	TCCAAAACATCCCCA ACAT	TGGGTGAAGGAGAAG GAGTG	60.0	682	INTERGENIC	--	--	--
Ca5_P1_31932559	Ca5	31932559	AAACAACA/AAACAACAACA	CAAAATGGGAGGAAAA CCAA	TCATCAAAAGGGAAC CTGC	59.8	284	DRR	Ca_04898	--	--
Ca5_P1_31937830	Ca5	31937830	TAA/TAAA	CCACTGCACTTTCCTT TTCC	GCTCAGATGCTTCCTT GCTT	59.7	874	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_31941021	Ca5	31941021	AATATATATATATATATATATATAT TA/AATATATATATATATATATATAT ATATATA	CGTAAACAAGGCCAA ACAC	GCCCCCTTCAATAAT CCAT	60.4	568	INTERGENIC	--	--	--
Ca5_P1_31957519	Ca5	31957519	TGGGGG/TGGGG	GGGATATGTTGTAGG GGCT	AACCGTGGTTCAGTAA TGGC	60.0	733	INTERGENIC	--	--	--
Ca5_P1_31961599	Ca5	31961599	ATT/ATTT	AAAAATCACGGCAAAT TCAAA	TAAGATGTGCATGGGA TGGA	59.5	549	INTERGENIC	--	--	--
Ca5_P1_31961640	Ca5	31961640	TTATATATATATATATATAT/TTATAT ATATATATATATAT	AAAAATCACGGCAAAT TCAAA	TAAGATGTGCATGGGA TGGA	59.5	549	INTERGENIC	--	--	--
Ca5_P1_31965257	Ca5	31965257	T/TA	CCAATCTTTATTGTGTG AGACCC	TTCTCCTCCAGGAAAT GTGG	59.8	285	INTERGENIC	--	--	--
Ca5_P1_31967141	Ca5	31967141	AATATATATATAT/AAATATATATATATA T	ACGGGTCATTTTAAAC ACGC	TTCGCCACCAAGTCAT GATA	59.9	550	DRR	Ca_04900	--	--
Ca5_P1_31970233	Ca5	31970233	CATATATATA/CATATATATATA	CGCTGTCACTAGGGAA TGTGT	CTGTTTTTACCACCA AGCG	60.2	435	INTERGENIC	--	--	--
Ca5_P1_31974080	Ca5	31974080	ATGTTTGTT/ATGTT	GGCTAAGTTTTCTTTG GGGG	GCACTCCATGAATCAA AGCA	59.9	696	INTERGENIC	--	--	--
Ca5_P1_31974245	Ca5	31974245	GTTTTTTTTTT/GTTTTTTTTT	GGCTAAGTTTTCTTTG GGGG	GCACTCCATGAATCAA AGCA	59.9	696	INTERGENIC	--	--	--
Ca5_P1_31978316	Ca5	31978316	ATTTTT/ATTTT	CCCTCCTGCTTCCATT AACA	TGATTGAGCACACACG TCTT	60.1	477	INTERGENIC	--	--	--
Ca5_P1_31987065	Ca5	31987065	AT/A	TGACCGATATGGGGAA AAAG	GGATTTTGATGATGCT GGCT	59.8	574	INTRON	Ca_04901	R	--
Ca5_P1_31997148	Ca5	31997148	AG/A	TTGCACGAACGAGTAA AACG	GCTCACTCACTCACTC AGCG	59.9	713	DRR	Ca_04902	R	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_31997300	Ca5	31997300	TTCTC/TTCTCTC	AGCAATCATAGGGTCC AAGC	GCTCACTCACTCACTC AGCG	59.2	242	DRR	Ca_04902	R	--
Ca5_P1_31999312	Ca5	31999312	GA/G	AACGGTTATTTTCCGG CTTT	TTACAACAGCACGTGC AACC	59.8	433	DRR	Ca_04903	--	S1Fa-like
Ca5_P1_3200393	Ca5	3200393	T/TCGGAAGAG	GGCCTTCTTGCAATTTG TCAT	TCCTGCCAAAATTGAT GTGA	60.1	196	INTERGENIC	--	--	--
Ca5_P1_32005000	Ca5	32005000	TTTCTTC/TTTCTTCTTC	GGTTAGAGGAGCGTTT GCTG	ACAGAAAAAGCGGATA GGCA	60.0	799	DRR	Ca_04904	Z	MYB_related
Ca5_P1_32015788	Ca5	32015788	CGAGAGAGA/CGAGAGA	CTCCCCAAAGTTTGC ATTA	CGTTGATGGTGATGAT GGAG	59.9	501	INTERGENIC	--	--	--
Ca5_P1_32021738	Ca5	32021738	CAAA/CA	CTTGGGAAGGTCACAA CGAT	TACTGTCAGCATGGCA CCTC	60.0	659	INTRON	Ca_04906	S	--
Ca5_P1_32039481	Ca5	32039481	AT/ATT	TGTTGGCTCCATTGTT GAAA	AGGTTGGTCCGTCACA AAAG	60.1	265	INTERGENIC	--	--	--
Ca5_P1_32041461	Ca5	32041461	CTT/CT	GAAGTAGCGGTCATGC CAAT	ATAGTGGAGGAGCTG GAGCA	60.1	338	DRR	Ca_04909	K	MIKC
Ca5_P1_32041974	Ca5	32041974	GAAA/GATCAAAA	ATGCTCCAGCTCCTCC ACTA	GCCATTCTCATCACAG CTCA	60.0	650	INTRON	Ca_04909	K	MIKC
Ca5_P1_32044056	Ca5	32044056	AGGG/AGGGG	CTTCCAATATGCGTCT GGGT	ATTTTGGCGGTGAAAA ACAG	60.0	411	INTERGENIC	--	--	--
Ca5_P1_32044646	Ca5	32044646	TA/TAATCA	CTGTTTTTCACCGCCA AAAT	TCTCGAAGCTTGGGTT TGTC	60.0	672	INTERGENIC	--	--	--
Ca5_P1_32044892	Ca5	32044892	T/TC	CTGTTTTTCACCGCCA AAAT	TCTTCCCTAATCACGC ATCC	60.0	763	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_32062989	Ca5	32062989	ATATTATTATTATT/ATATTATTATT ATT	GAGGGAGAGCTCATGT GGAA	TTCTGTCATGCAAATT GAGT	60.3	376	INTERGENIC	--	--	--
Ca5_P1_32063449	Ca5	32063449	GTTTT/GTTT	ATTTGCATGCACGAAA ACAA	GGTTGTCGGGTGGAG ATAGA	60.1	618	INTERGENIC	--	--	--
Ca5_P1_32068203	Ca5	32068203	TT/TTGATAAATGAAT	TGAAAAATGGAATCCC ACTAGC	GAGCATTAGTGGAGC GGAG	60.3	683	INTERGENIC	--	--	--
Ca5_P1_32069046	Ca5	32069046	GTTAATTA/GTTA	CCACAGCCAGTGTGTG GATA	TGATCTCGTGAATTGT AGGCA	60.6	356	INTERGENIC	--	--	--
Ca5_P1_32072078	Ca5	32072078	TTTGTTG/TTTGTTGTTG	CAATGAACCCAGGTTA TGAAA	GCGTACCCATGCATCC TACT	57.5	326	INTERGENIC	--	--	--
Ca5_P1_32073685	Ca5	32073685	CTTTTTTTTT/CTTTTTTTTTTTTT	AGCATTTTGTACCGCG AGAT	AGTTTAAGGCGTAACC GCAA	59.7	371	INTERGENIC	--	--	--
Ca5_P1_32076587	Ca5	32076587	ATTTTT/ATTTTTTTTT	TCTCCTTGACAGAAGT TGGT	GGGGGCACAATACAAA CATC	59.8	544	INTRON	Ca_04910	C	--
Ca5_P1_32079305	Ca5	32079305	ATATTATTATTATTATTATTATTAT T/ATATTATTATTATTATTATTATTA TTATT	TTATAGCCCAATCCCT GCAC	TTTTCTTTTCCGGTC ATCAA	59.9	488	DRR	Ca_04910	C	--
Ca5_P1_32087284	Ca5	32087284	TAA/TAAA	GGATGTCACATTTTGG GACC	TTGAGTTATACCATGC TTCTCAACA	60.0	553	DRR	Ca_04911	K	LBD
Ca5_P1_32087748	Ca5	32087748	TAAAAA/TAAAAA	TTCTAAATGTTGAGAA GCATGG	TGTGTGTGGTGGGTC AATCT	57.1	630	DRR	Ca_04911	K	LBD
Ca5_P1_32089769	Ca5	32089769	GATATATATATATATATATATATA TATAT/GATATATATATATATATATA TATATATATATATATATATATAT	CGTTGAAGTTTCCCGG TAGT	TCCGATTGGGATTGTC TCTC	60.2	697	INTERGENIC	--	--	--
Ca5_P1_32096296	Ca5	32096296	AGAT/AGATGAT	TTGTGGATACCAAAG AATCTCAA	CACACCACCTCCTCT GTTT	59.9	648	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_32100080	Ca5	32100080	CATAT/CATATATAT	GTGGCATCAGGAATAG CGTT	CACCTAAAGGTCCCAA CCAA	60.1	480	INTRON	Ca_04912	--	ERF
Ca5_P1_32102038	Ca5	32102038	TCC/TC	TTATTTCAACACCGCC ATCA	CTCTGGAGTGTGGAG TTTGCT	59.9	267	DRR	Ca_04912	--	ERF
Ca5_P1_32104183	Ca5	32104183	TCC/TC	TCTTGCAGTTGTTTA TTTATATTCG	GTGGTTAATCGGGTT TGAA	60.0	558	INTERGENIC	--	--	--
Ca5_P1_32110494	Ca5	32110494	ATT/ATTT	TCATATCGCGTGA CCCA	TGAGTCTCATAGGCTC ACCAGA	60.1	475	INTERGENIC	--	--	--
Ca5_P1_32111548	Ca5	32111548	GT/GTCT	TCTCCACATTTCTCAA GCAAA	TGTGCAACAATGTCAT ACCG	59.9	239	INTERGENIC	--	--	--
Ca5_P1_32111728	Ca5	32111728	CATGATTAT/CAT	CATTGTTGCACACTGG TGGT	TAGCGATAGAAGCG GAGTG	60.5	443	INTERGENIC	--	--	--
Ca5_P1_32112775	Ca5	32112775	TAAAA/TAAA	TGTTTTGTTTCCATTT CCA	AGTAAATGCATGTGG CCGT	58.8	252	INTERGENIC	--	--	--
Ca5_P1_32117404	Ca5	32117404	CAG/CAGCTAG	TACGCAAATTGTTCAA CCCA	AGAGACCTTGATGGGA GCAA	60.0	191	INTERGENIC	--	--	--
Ca5_P1_32119264	Ca5	32119264	TG/T	GTCGGTGAAGTTGTT GGGT	TCAATTGGAAGCACAT CGAC	59.9	449	INTERGENIC	--	--	--
Ca5_P1_32149202	Ca5	32149202	TCAC/TCACAC	AAATTCCATTTTCGGG AACC	GGTGGGAATCCTTGG AAAAT	60.0	466	DRR	Ca_04917	G	C2H2
Ca5_P1_32151064	Ca5	32151064	TATCT/TATCTTAAATCT	ATGCTTGTTTTGTGTC CTCC	GAATGTGCGGCTTTTC TAGC	60.0	757	INTRON	Ca_04917	G	C2H2
Ca5_P1_32159083	Ca5	32159083	TT/TTGT	CCTCAACCTGATGGGA CACT	CAATGTGCTCCACCT TGAA	60.0	618	INTRON	Ca_04917	G	C2H2

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_32162808	Ca5	32162808	CAAA/CAA	CCTATTCTTACACCT TGAAACG	AAATCTTGTGGAGCA GCGT	59.2	520	INTRON	Ca_04917	G	C2H2
Ca5_P1_32163070	Ca5	32163070	CCTTCTT/CCTTCTTCTT	CACGTGCCTTTTCTCA CTCA	GTTGATCTTTACGGCC TCCA	60.0	552	INTRON	Ca_04917	G	C2H2
Ca5_P1_32165754	Ca5	32165754	TAA/TA	TCCCTTAATGCTGATG GAGG	TCGGAGAATTAACAC ACTCCTT	60.0	544	INTRON	Ca_04917	G	C2H2
Ca5_P1_32179322	Ca5	32179322	CTTTTTTTTT/CTTTTTTTTT	TTTCGGAAGGGTGTAA GTTG	GGCTGTCATGGTTGG TTTT	60.1	690	INTERGENIC	--	--	--
Ca5_P1_32185326	Ca5	32185326	ATTGGTTGGTTGGT/ATTGGTTGGT	CGCAGTTGCGATAAAA GACA	AGCCAAGACAAATGCC AATC	60.0	588	INTERGENIC	--	--	--
Ca5_P1_32187371	Ca5	32187371	TTCGAACTC/TTC	CACCCCTCAGATCAAT GCTT	ATGAGTGGCTTTTCTG GTGG	60.1	814	INTRON	Ca_04918	K	TALE
Ca5_P1_32190656	Ca5	32190656	CAATTTGAA/CAA	TGAATGCAAAAGCTTC AAACA	GGCGCATACCTTCATC AAAT	59.5	749	DRR	Ca_04918	K	TALE
Ca5_P1_32196357	Ca5	32196357	TC/TCC	AGCATTTCCAAGGGG ACTC	CCAAAACGGTGGACT GGTTA	60.4	779	INTRON	Ca_04919	K	TALE
Ca5_P1_32201348	Ca5	32201348	A/AC	ATGGAGTTGGCGTTTC TGTT	TTCTCCTGCCTCTCTC CAAA	59.6	772	INTRON	Ca_04920	M	--
Ca5_P1_32211941	Ca5	32211941	CAAAA/CAA	TGGCAGTGCATGTTTA GAGC	AAAACCTCCCCAAACC AAAC	60.0	402	DRR	Ca_04921	O	FAR1
Ca5_P1_32212470	Ca5	32212470	TAGAAGAAGAA/TAGAAGAA	GTTTGGTTTGGGGAGG TTTT	GCCTCTGGAATTGCGA CTAC	60.1	278	DRR	Ca_04922	--	--
Ca5_P1_32222025	Ca5	32222025	ATGTTGTT/ATGTT	ATGGTGGCAAAAGCAA AAAC	GGACCTTGCTTGGA TTGT	60.0	474	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_32226518	Ca5	32226518	CTTTTTTTTT/CTTTTTTTTTTTT	ACGGCTCCGATAATGA TGAA	GGAGTGGGTATTCTT TTGGC	60.4	730	DRR	Ca_04923	T	WRKY
Ca5_P1_32226752	Ca5	32226752	ACC/ACCC	TTGGGCGACGTTACTT TTAGA	GGAGTGGGTATTCTT TTGGC	59.8	189	DRR	Ca_04923	T	WRKY
Ca5_P1_32227067	Ca5	32227067	G/GA	TGGCCAAAAGAATAAC CCAC	CAAAACAGGGGATAA CCGA	59.8	634	DRR	Ca_04923	T	WRKY
Ca5_P1_32230168	Ca5	32230168	CAATAA/CAATAATAA	AAAAAGCGTGTTTTT ATGG	TTGTTGTGATTGCA GGGA	60.0	702	INTRON	Ca_04923	T	WRKY
Ca5_P1_32231884	Ca5	32231884	ACAAATCAAATCAAATCA/ACA AATCAAATCAAATCA	AAGGAACGAAGGGGA GGATA	GCTACGTTGTATTAGC CGGG	59.9	566	INTERGENIC	--	--	--
Ca5_P1_32232572	Ca5	32232572	TAAAAAAAAA/TAAAAAAAAA	AAAACATCCACCAAGA CGAAA	TGGTGGGAAGAATGAA ATGA	59.5	355	INTERGENIC	--	--	--
Ca5_P1_32241464	Ca5	32241464	GTAATAATAATA/GTAATAATAA ATAATAATA	ATCATGGCCAAAAGAG GTTG	TCGGTTGGTTGGGT TAAA	59.9	724	INTERGENIC	--	--	--
Ca5_P1_32245122	Ca5	32245122	GA/GAA	CTGGAATTTGCCACTG AACA	CACCTCTGTATGAATG AATATGTGGA	59.7	703	INTERGENIC	--	--	--
Ca5_P1_32275582	Ca5	32275582	CTTTTTTTTT/CTTTTTTTT	ATGTGACGGTTGAGGT GTGA	ATTTGCACGTATGGTG GTGA	60.0	267	INTERGENIC	--	--	--
Ca5_P1_32279291	Ca5	32279291	TA/T	TTCGAAATGAAATCATA GGTAGCA	AACCAGCTTTTATGTT CGTCCTT	60.0	458	INTERGENIC	--	--	--
Ca5_P1_32290531	Ca5	32290531	ACCCCC/ACCCCCC	TTGGAAATGGGCCAC TTAG	CACCACCGTCAGATT TCCT	59.9	545	INTERGENIC	--	--	--
Ca5_P1_32305512	Ca5	32305512	AG/A	GGAAATGACCATCACA TCCC	CCTACATGCCACTAT GCCT	60.0	245	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_32313737	Ca5	32313737	TAA/TA	ATCTTGATCTCATCG ACGC	GGGATTGAGAAATCAA AGAAACC	60.2	673	INTERGENIC	--	--	--
Ca5_P1_32314501	Ca5	32314501	TAAA/TAAAA	GGACCATATGAATGCA CTGGA	AAACGAGGGGAGAGA TCTGG	60.7	326	INTERGENIC	--	--	--
Ca5_P1_32319551	Ca5	32319551	ATT/ATTT	TGATTCATTGCATGTC ATGTT	GGTGTCTGGCAAAAGA CAAAT	58.9	796	DRR	Ca_04929	--	bHLH
Ca5_P1_32324347	Ca5	32324347	GCTCTCTCTCTCTCTC/GCTCTCTC TCTCTCTC	TGATGCCACGTGAGAA AGAG	CTGTTCAAGATGCAGG CAAA	60.0	899	DRR	Ca_04930	I	bHLH
Ca5_P1_32325371	Ca5	32325371	ATT/ATTT	TGCCAGAAAACAAGCA CAAG	ATGCATCCTGTGCCAT ACAA	60.0	780	DRR	Ca_04930	I	bHLH
Ca5_P1_32344384	Ca5	32344384	TGATCGAT/TGAT	GAGTTACGTGGGTCTC CGAA	ATGCCAATGCCATACC AAAT	60.1	222	INTERGENIC	--	--	--
Ca5_P1_32349282	Ca5	32349282	TTATATATA/TTATATA	TGCGCATGGTTTGTA TAGA	GCTGAAGCAGAACCTT GTCC	60.1	406	DRR	Ca_04932	QI	GeBP
Ca5_P1_32349699	Ca5	32349699	TAAAAA/TAAAAAA	AGGGGCCATGTGTAAG TACG	CATTAAACCCGATGAG GGCT	59.9	566	DRR	Ca_04933	--	--
Ca5_P1_32388975	Ca5	32388975	TTATTATT/TTATTATTCTATTATT	AATTGCGATAAGCAAT TGGG	TAGGATTACACGGGG CAGAC	59.9	821	DRR	Ca_04938	--	bZIP
Ca5_P1_32397439	Ca5	32397439	AATATATATATATATATATATATATA TAT/AATATATATATATATATATATAT ATATATAT	TCCCTGCGTACTGATT TGAA	ATCGGAAGACATCGAA GGTG	59.3	427	INTERGENIC	--	--	--
Ca5_P1_32435142	Ca5	32435142	TC/T	CCATCGCAAGGCTGTA AAAT	ACATGTCAAGTGGGG GTGTT	60.1	873	INTERGENIC	--	--	--
Ca5_P1_32467772	Ca5	32467772	AATATATATATATATATATATA/AAT ATATATATATATATATA	AAGCCCAAGTTGCAAA TGAC	GGCCACATATGAAG GTGAA	60.1	729	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_3246856	Ca5	3246856	AAAGTG/A	ACTTTTGGGAAGGCAT TGTG	TCGGATTCAATCTCCT TTGG	60.0	880	INTERGENIC	--	--	--
Ca5_P1_32488739	Ca5	32488739	ATTTTTTTT/ATTTTTTTT	TACGTAGTTGCTTCCC CCAC	TTGTTTTTGTGGCTT ATTCG	60.0	688	INTERGENIC	--	--	--
Ca5_P1_32540371	Ca5	32540371	TA/T	TGTTGCTTGTGGTT TCTG	GTGAAAGAGCGTTAGA GCGG	59.7	706	INTERGENIC	--	--	--
Ca5_P1_32605650	Ca5	32605650	TAAAAAAAA/TAAAAAAAA	TCAATCACAAATCAGG GTGC	ATCCAGATCCAATACG ACGG	59.5	874	INTERGENIC	--	--	--
Ca5_P1_32612383	Ca5	32612383	T/TC	AAAATCGCTAAAAGTG ACTGGC	CCCAATCAATGACTTG AGTTTGA	59.8	705	INTERGENIC	--	--	--
Ca5_P1_32649599	Ca5	32649599	ATTTTTTTTTT/ATTTTTTTTTT	TCGGACAAGTTAGCAA AAACAA	CCGTATTTTGAATAT CAGTGGC	59.8	561	INTERGENIC	--	--	--
Ca5_P1_3267354	Ca5	3267354	CTATATATATATATATATATATAT ATATA/CTATATATATATATATATAT A	CTCGATTGCAATTTGT GCG	CTACTCAGCGGCTCCC TATG	60.3	661	INTERGENIC	--	--	--
Ca5_P1_32745764	Ca5	32745764	TAAA/TAAAA	AGGCATCACATTGAGG GACT	CCTCGGTGACCCTGAA TAAA	59.5	148	INTERGENIC	--	--	--
Ca5_P1_327512	Ca5	327512	ATTTTTTTTTT/ATTTTTTTTTT	GCTTCTGCATGGTTT GTCA	AGGATCATCCATTGGA GCAG	59.8	466	INTRON	Ca_18189	G	--
Ca5_P1_32769704	Ca5	32769704	TAGA/TA	CATGGCGTGAGTGAGT GAGT	GCCCTTGTGGTCTTA ATCA	59.9	970	INTERGENIC	--	--	--
Ca5_P1_32771738	Ca5	32771738	AT/ATT	GAGCGCTGTAAAAGAC CACC	CGTTGTAAAAGGATTG CGCT	59.9	419	INTERGENIC	--	--	--
Ca5_P1_32790929	Ca5	32790929	GTTTTTTTTT/GTTTTTTTTT	GTTTCGCAACAAAACC GAAT	TCGTTGAACCAAACTG AACCT	60.0	344	DRR	Ca_04981	--	bHLH

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_32848829	Ca5	32848829	GAAAAAAAAA/GAAAAAAAAA	AACATTACCAGTCCA GCGG	TCACCGTATGCAAAGA CGAG	60.0	848	INTERGENIC	--	--	--
Ca5_P1_328796	Ca5	328796	ATTTTTTTTTTTT/ATTTTTTTTTTT	ATGAACAGGTGGCATG TGAA	TGCAATGAGCAATCT CCAG	60.0	467	INTRON	Ca_18189	G	--
Ca5_P1_32912336	Ca5	32912336	AATATATATATATATATATATATAT/ AATATATATATATATATATATATATA TATATATATAT	ACCCCTCACCTCCTT ATTG	TTTTCTTGGCTCACTT GTTGA	60.2	499	INTERGENIC	--	--	--
Ca5_P1_3293717	Ca5	3293717	GTATATATATATATATATATATAT A/GTATATATATATATATATATATAT A	GCCTCTCAGGCCTAAC ATCA	TTTGGGGACAAGATCC AACT	60.4	391	INTERGENIC	--	--	--
Ca5_P1_33047107	Ca5	33047107	AAATAATAATAATAATAATAATAAT AATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATAA TAATAATA	TAGAAAGGGCCAGAAA AGCA	CGATACAAGTCGTAGG AAGGG	60.0	236	INTERGENIC	--	--	--
Ca5_P1_33146690	Ca5	33146690	TAAAAAAAAA/TAAAAAAAAA	TACCCGACAACCTTG ACCC	TGCTTCGTGATTCCA ACAA	59.8	731	DRR	Ca_05009	D	YABBY
Ca5_P1_33219564	Ca5	33219564	TAAAAAAAAA/TAAAAAAAAA	GTTGCGTCCTCGAAA TGAT	TGATGTTGGGTGACT CCAG	60.1	552	INTRON	Ca_05014	E	MYB
Ca5_P1_33224611	Ca5	33224611	TCATGCATG/TCATG	AGGAAGGGGAAGAGA GAACG	CAGAAACAGCAACTCT GGTCC	59.8	702	INTERGENIC	--	--	--
Ca5_P1_33258007	Ca5	33258007	C/CT	TCTTGTAGGTTGCAGT TGCG	AAAAAGGGTCAAATAG GGGG	60.1	110	DRR	Ca_05019	MO	--
Ca5_P1_3337230	Ca5	3337230	CATATATATATAT/CATATATATATA T	TCATCCCGAATCAGTT CACA	GGCATGATGCAAGGG ATAGT	60.0	291	DRR	Ca_18697	--	--
Ca5_P1_33384808	Ca5	33384808	AATATATATATATATATATATATATA T/ATATATATATATATATATATATA TATAT	ACAGACGTGACGAGAC CGTA	TGTTGTTATAACGATG TTTGTGAGA	59.3	557	INTERGENIC	--	--	--
Ca5_P1_33444170	Ca5	33444170	CTTTT/CTTTT	TGCAAGTTACTGCATA GCCA	ACCAGGAAACATTGCC AGAC	58.1	460	DRR	Ca_01912	O	MYB_related

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/P)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_33444959	Ca5	33444959	GATATA/GATATATA	TTATGGAGGCCACATT CACA	GAAATTAAGCCTCTT GATCTTTTT	59.9	961	DRR	Ca_01912	O	MYB_related
Ca5_P1_33456475	Ca5	33456475	TTATGTTAAATATGTTAA/TTATGTTAA ATATGTTAAATATGTTAA	GATGAAGTGCTGATCA GAGGC	ACCAGGAAACATTGCC AGAC	60.0	789	DRR	Ca_01911	O	MYB_related
Ca5_P1_33457018	Ca5	33457018	TTTTATTATTATTATTA/TTTTATTATT TATTATTTA	GTCTGGCAATGTTTCC TGGT	GGTGGTGATGTATAT CTTTACGGG	60.0	430	DRR	Ca_01911	O	MYB_related
Ca5_P1_33457459	Ca5	33457459	ATT/ATTT	TCTTCAAATTAATAATC CACCCA	GTTGAAATTTTGGGTG TCGG	59.7	750	DRR	Ca_01911	O	MYB_related
Ca5_P1_33457924	Ca5	33457924	ATTTTTTT/ATTTTTTTT	CCGACACCCAAAATTT CAAC	GCCCTCAGATGAGAGT CAGG	60.2	680	DRR	Ca_01911	O	MYB_related
Ca5_P1_33464957	Ca5	33464957	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA	GCGGGACAAATCTAG GTGA	AACGCGAGTTGATAAA GCGT	60.1	873	INTERGENIC	--	--	--
Ca5_P1_33492033	Ca5	33492033	AATATATATATATATATATATATAT/ AATATATATATATATATATATAT	CTGGCCTTCCCATCT TGTA	AAAACATAAGCTTGAC CACCAAA	60.1	235	INTERGENIC	--	--	--
Ca5_P1_33502374	Ca5	33502374	CTTATTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTATTAT TATTA/CTTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTATTA	TTAGGGGGCCTTATTT TTGG	TGGGATGTAGGGGTG GATAA	60.1	701	INTERGENIC	--	--	--
Ca5_P1_3353130	Ca5	3353130	A/AC	GCGGTCACCTCCACAT AGTT	TGTGTGGAGCCCATAT GAAA	60.0	659	INTERGENIC	--	--	--
Ca5_P1_33534147	Ca5	33534147	TTTATTATTATTATTATTATTATTATTA TATTATTATTATTATTATTATTATTAT T/TTTATTATTATTATTATTATTATTAT ATTATTATTATTATTATTATTATTATTA TTATT	GGGAATGCAAGATCGG AGTA	TCGTAATTATTCATCA CAATCATTCA	60.0	785	DRR	Ca_01904	GMW	ERF
Ca5_P1_33541448	Ca5	33541448	ATAATTTTTTTTTTAATTTTT/ATAATT TTTT	GCTTTGATTTGGGCTT TGAG	CCAAAAACCGAATTC ACCA	59.8	877	INTERGENIC	--	--	--
Ca5_P1_33549168	Ca5	33549168	TAAAAAAAAA/TAAAAAAAAA	CAAAAACGGGTTTCAC CAAC	GCTCTGCATCCAATTC CATT	60.2	447	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_33579979	Ca5	33579979	GTTATTATTATTATTATTATTATT TT/GTTATTATTATTATTATTATTAT TATTATT	GACCCTAATTGAAAC GCCA	ACCCACCAAACACAT GACT	59.9	587	INTERGENIC	--	--	--
Ca5_P1_33600042	Ca5	33600042	CT/C	TAACCATTCCACAGCC ACAA	CTTAGAGGTCGCTTCA ACGG	60.0	680	DRR	Ca_01896	--	--
Ca5_P1_33630459	Ca5	33630459	TTATATATATATATATATATATAT A/TTATATATATATATATATATATA TATATATA	GCCTATGAATTGATCC AGCC	AACTGCACTTGCAACA CACA	59.5	199	INTERGENIC	--	--	--
Ca5_P1_33652953	Ca5	33652953	TATAATAATAATAAT/TATAATAAT AATAATAATAAT	TTTTGATAAGGGTGGT TTTATTATTTT	TGGGATTGTTGGTTG ATAAGA	58.8	526	INTERGENIC	--	--	--
Ca5_P1_3366602	Ca5	3366602	A/ATATATAT	TGTCGGTTGTTGGTGG TCTA	TTTTTGTTTGAGCATT GCCTT	60.0	543	INTERGENIC	--	--	--
Ca5_P1_336785	Ca5	336785	CAAAAAAAAA/CAAAAAAAAA	GCCTACGTCAGACCGA TGTT	TCCTGGCAGAAATTTG GTTC	60.1	458	DRR	Ca_18190	H	--
Ca5_P1_33682329	Ca5	33682329	GATATATATATATATATATATAT/ GATATATATATATATATATATAT	AACGGTGAGGTGTGG GTAAA	TGAGGATTTTGTGCA CTCG	60.3	529	INTERGENIC	--	--	--
Ca5_P1_33687861	Ca5	33687861	TTATATATATATATAT/TTATATATAT AT	GACTTCCTAAGGAGGG TGGC	ATTCCACGGCAAATT CGTA	60.1	381	DRR	Ca_01887	--	--
Ca5_P1_33797968	Ca5	33797968	AT/A	GCGGAATGACCTACCG AATA	ATAGGCTAGGTCGTCC GTCA	59.9	263	INTERGENIC	--	--	--
Ca5_P1_33798523	Ca5	33798523	ATTTTT/ATTTTT	TGACGGACGACCTAGC CTAT	TCATTTTCCCAATCTCT CCG	59.7	618	INTERGENIC	--	--	--
Ca5_P1_338511	Ca5	338511	ATTTTTTTTT/ATTTTTTTTT	TTTGTGGTAGGGCAT AAAAA	CGCACGTGTGAGATT TGTT	57.3	826	DRR	Ca_18191	A	--
Ca5_P1_33918677	Ca5	33918677	TTCTCTCTCTCTCTCTCTCTCTCT TCTC/TTCTCTCTCTCTCTCTCTCT CTCTCTCTCTC	TGTGCTTGTGCTTAA GTGG	GGTTGCGCATAACAAA CCTT	59.9	414	INTRON	Ca_01860	P	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_33967546	Ca5	33967546	GAAAAAAAAA/GAAAAAAAAA	TGTCGCAATGGCAAC TAAA	TCCATCTTCGCCTAAC CAAT	60.3	619	INTERGENIC	--	--	--
Ca5_P1_3406072	Ca5	3406072	TAAAAA/TAAAA	TTCACCCATTGTATGC TTTGA	GCGGTGTTGAAAAGG AAAAG	59.0	832	DRR	Ca_18699	K	MYB
Ca5_P1_34072036	Ca5	34072036	CCCAAAGCAGAT/C	CATTGGTGTGTCTGT TCGG	ACCGTTCGTTTGTTC TGAC	60.0	262	INTERGENIC	--	--	--
Ca5_P1_34164848	Ca5	34164848	C/CA	CTTCCAGGGGATGCAA GATA	CGTAGGCAATAAGACA CGCA	60.0	377	DRR	Ca_01832	--	NF-YB
Ca5_P1_34206574	Ca5	34206574	AAATAATAATAATAATAATAATAAT AATAATAATAATAATAATAATAAT AATAATAATAATAATAATAATAATA ATAATAATAA	CCGTACTGGAATTTGT AGCCA	CAGAGCACATAGAGTG CTGTCC	60.0	509	DRR	Ca_01827	O	GATA
Ca5_P1_34332054	Ca5	34332054	AATATATATATATATATATATAT/AATA TATATATATATATATATATATATATA TAT	AAATTGCAAGACCA TGAACA	CAACAAAACGGCACA ATCC	59.5	659	DRR	Ca_01814	--	--
Ca5_P1_34466554	Ca5	34466554	AA/AATAATA	TGTTGTTCTCTTTTCA CGTTG	ACCAAAGTAATGCGGT TGAA	60.2	762	INTERGENIC	--	--	--
Ca5_P1_34512508	Ca5	34512508	CAAAATAATAATAATAATAATAATA ATAAA/CAATAATAATAATAATAA	AAACCGACCACCACTC AAAC	CTCGGACCTGTTGGT AAGA	59.9	261	INTRON	Ca_01790	R	WRKY
Ca5_P1_34523237	Ca5	34523237	GTTTTTTTTT/GTTTTTTTTT	ATTGAACTCGGAGACG GAAA	CCTTGACCCTGAACCA AATC	59.7	457	INTERGENIC	--	--	--
Ca5_P1_34629428	Ca5	34629428	A/ACTTAAAAAGTTG	TTAGGTTGAGGCAGTT CGCT	TTTGGGTTTCGACCAT AAAAA	60.0	587	INTERGENIC	--	--	--
Ca5_P1_34698063	Ca5	34698063	GATAATAATAATAATAATAATAAT AATAATAA/GATAATAATAATAATA ATAATAATAATAATAATAA	ATGGCTTTTCTACCTT CGG	ACCAAAACAAAACCA ACGG	60.4	560	INTERGENIC	--	--	--
Ca5_P1_34731811	Ca5	34731811	TA/TAA	AGGCCTTAGCCCAATA TCCA	TGGTGTGATTCCAGG TTCA	60.8	603	INTRON	Ca_01768	A	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/P1)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_34835083	Ca5	34835083	GATAATAATAATAATAATAATAAT AATAATAATAATAATAATAATAAT/ GATAATAATAATAATAATAATAAT AATAATAATAATAATAATAATAATA ATAAT	TCCTCTATTGCGTCC TTCG	CACCCATAACCCGA GCAA	60.3	586	INTERGENIC	--	--	--
Ca5_P1_34850633	Ca5	34850633	ATTTTTTTTT/ATTTTTTTTTTT	CCCAACTTTGTTTTTAC AGGGA	TCATGACGGTGAAAG ATGA	60.2	920	INTERGENIC	--	--	--
Ca5_P1_34854970	Ca5	34854970	AAATAATAATAATAATA/AAATAAT AATAATAATAATAATA	TCCCACCGTGATCGTT TTAT	CAAGGAACCTGGACC GTCAT	60.2	732	DRR	Ca_01754	--	ARF
Ca5_P1_34870671	Ca5	34870671	TTATATATATATATATATAT/TTATATA TATATATATATATATA	TGCTTGCCACTAGCTC CATA	GGAAAGTTTGGTCAAAA GGGG	59.6	924	INTERGENIC	--	--	--
Ca5_P1_34871969	Ca5	34871969	GA/GAAATGAA	TGACGTTGCATTCACC AAAT	AGGGAGGACGAAAT GACCT	60.0	609	INTERGENIC	--	--	--
Ca5_P1_34877309	Ca5	34877309	TGCCGG/TGCCGGCCGG	TGGTATGGTTGGAAG AGCC	TCTCAAAAGTGCTTAA TGGCAA	59.9	239	INTERGENIC	--	--	--
Ca5_P1_35072594	Ca5	35072594	GATATATATATATATATATAT/GATA TATATATATATATATATATATATAT	GGTAGAGGCACATGG GAAAA	CTTGAAGCTCTCATG CATGAAC	59.9	760	INTERGENIC	--	--	--
Ca5_P1_35104483	Ca5	35104483	TTATATATATATATATAT/TTATATAT ATATATATATATATATAT	GCTTCACCCACCTTCC ACTA	TCTGTTTTAGAGTGT TGCAAATGA	60.1	833	INTERGENIC	--	--	--
Ca5_P1_35115501	Ca5	35115501	TTTATTATTATTATTATTATTATTA TTA/TTTATTATTATTATTATTATTATTA TTA	TGTTTTGTGCATCAGC ATCA	AAAGAGGCAGTAGG GTCGT	59.8	361	INTERGENIC	--	--	--
Ca5_P1_35123509	Ca5	35123509	GATATATATATATATATATATATATA TATATAT/GATATATATATATATATATA TATATATATATAT	TGGTTTTCGTGGGATG TGTA	ATCAACATTTTCATGGG GCAT	59.8	607	INTRON	Ca_01725	R	--
Ca5_P1_35152998	Ca5	35152998	TAAAAAAA/TAAAAAA	CCCAAGAGATGTGGTT TGTG	TGAGAAGTTGCAATGA CCGA	59.0	648	INTERGENIC	--	--	--
Ca5_P1_35157632	Ca5	35157632	AATATATATATATATATAT/AATATA TATATATATATAT	GTGTCGTTTACCACTG GGCT	CATGCCATACAAGCCA CAAC	60.0	652	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/P1)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_35190711	Ca5	35190711	GAAAA/GAAAAA	TGTCACTTTTTTGTTTCG TCCT	TGAAATGTTGCCACT GTGT	57.4	454	DRR	Ca_01716	O	--
Ca5_P1_35203176	Ca5	35203176	AACACACACACACACA/AACACACA CACACACA	CACATGTTTGTGATG GCCA	TTTTTGCCAATGAAC TGAA	60.0	304	INTERGENIC	--	--	--
Ca5_P1_35231327	Ca5	35231327	ATTTTTTTT/ATTTTTTTT	CACGAACCATAGCATG GGA	ATTGGATCGGGCCTAG TGTA	60.5	834	INTERGENIC	--	--	--
Ca5_P1_3527039	Ca5	3527039	TTATATATATATATAT/TTATATATAT	AATTGGCATTTTCAAC TTGG	TCTAAATGGCGACTTC CCAC	59.9	346	INTERGENIC	--	--	--
Ca5_P1_35328160	Ca5	35328160	ATTTTTTTT/ATTTTTTTT	ACCACGTGACCCCTTA ACTT	TGATGAAATTACGTTA TATTGAGGATG	58.4	204	INTERGENIC	--	--	--
Ca5_P1_35351030	Ca5	35351030	TAAAAAAAAA/TAAAAAAAAA	ACCTTCCAAAAACGGT CTAA	CATAAATCCTGCGCG TTTT	57.8	623	INTERGENIC	--	--	--
Ca5_P1_3536168	Ca5	3536168	AATATATATATATATATATATATATA T/AATATATATATATATATATATATAT ATAT	CGCACATGACATTGAG GTTT	GGTGTGTGGGATT TGGT	59.6	548	INTERGENIC	--	--	--
Ca5_P1_35376190	Ca5	35376190	ATTTTTTTT/ATTTTTTTT	AATTTTGGGTGCTGAG GTTG	CCTCTACCTCCCCTTC CACT	60.0	343	DRR	Ca_01696	R	--
Ca5_P1_35434774	Ca5	35434774	ATTTTTTTT/ATTTTTTTT	CAACGGCGTATACAA TTACC	CTCAGGCGTCGGTTAA GAAG	59.3	223	INTERGENIC	--	--	--
Ca5_P1_35462508	Ca5	35462508	CATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATT/C ATTATTATTATTATTATTATTATTATTA TTATTATTATTATTATT	AGTAAACAAGCACCA CCGC	CTTTTGCTCACACCCA ACAA	60.2	459	INTERGENIC	--	--	--
Ca5_P1_35492914	Ca5	35492914	AATATATATATAT/AAATATATATATA TATATATATATAT	ACCACATCCATCATCC AGGT	TGAGATGACATATGCG GGTT	60.1	692	INTERGENIC	--	--	--
Ca5_P1_35519818	Ca5	35519818	TTAATAATAATAATAATAATAATAA TAATAATAATAATAATAAT/TTAAT AATAATAATAATAATAATAATAATA AT	TTGGCAAAATCGTTGC AATA	TCGAATTTCAAGTCGA GAAACA	60.1	319	DRR	Ca_01680	IE	B3

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_35595695	Ca5	35595695	TTAATAATAATAATAATAATAATA TAATAATAATAATAAT/TTAATAATAAT AATAATAATAATAATAATAATAATA ATAATAAT	ACCATTCAAACGGCGA GTAG	ATGCAATCGTATCTCG TGGT	60.1	306	INTERGENIC	--	--	--
Ca5_P1_35599782	Ca5	35599782	TTATATATATATATATATATA/TTATA TATATATATATATATA	ATTTCCTCACTGTTTG GCAG	TACTAGATCGCGTCCC ACG	60.0	665	INTERGENIC	--	--	--
Ca5_P1_35604138	Ca5	35604138	ATATTTTTGTTATTTATTTTTGTTATTT A/ATATTTTTGTTATTTA	ACGTGAATTGGAGTTG AGCA	CAAAAAGTCGGTCGGT GAAT	59.3	476	DRR	Ca_01672	R	CAMTA
Ca5_P1_35607633	Ca5	35607633	CAATAATAATAATAATAATAATAAT AAAAATAATAATAATAA/CAATAAT AATAATAATAATAATAATAATAATA ATAAAAAATAATAATAATAATAA	TCGTTTACAGCATCGA CCAA	GAACAATCTTTCACG TCCC	60.3	531	INTERGENIC	--	--	--
Ca5_P1_35668277	Ca5	35668277	CATATATATATATATA/CATATATATAT ATATATA	ATTGATTGTCTTGTCG GCCT	AATTAACCTCCACGGA GCCC	59.6	590	INTERGENIC	--	--	--
Ca5_P1_35706185	Ca5	35706185	TAAAAAAAAAAAA/TAAAAAAAAAAAA	TGTCGATTCAAGTTC AAACA	ATAAGCTTGGGAGAG GGAGG	60.3	572	INTERGENIC	--	--	--
Ca5_P1_35734976	Ca5	35734976	CNNNNNNNNNN/CNNN	TTTTGGGCACTTGGT TAGG	TCAATATAAACGGCGA AGGG	60.0	570	INTERGENIC	--	--	--
Ca5_P1_35836224	Ca5	35836224	ATTTTTTTTT/ATTTTTTTTTTT	TAGGGAAAAGGTGGT GTGA	GAGACATTTGTGCTG GCCT	60.3	749	INTERGENIC	--	--	--
Ca5_P1_35872148	Ca5	35872148	TAAAAAAAAAAAA/TAAAAAAAAAAAA	ACCCTCACGTAAGCCT GATG	TCGCCTTCGTAAATAA CGATT	60.1	357	INTERGENIC	--	--	--
Ca5_P1_35872705	Ca5	35872705	AATATATATATATATATATATATA TA/AATATATATATATATATATATA ATATATATA	CGAAGCGCACTTGTA ATGA	TTACCCGAGCATTATG GAGC	58.9	777	INTERGENIC	--	--	--
Ca5_P1_35901622	Ca5	35901622	AAATAATAATAATAATAATAATAAT AA/AAATAATAATAATAATAATAAT AATAATAA	AAGCAAGAGCATGTGA AGGAA	TTGATCATTGCCCTTG TGAA	60.0	347	INTERGENIC	--	--	--
Ca5_P1_35915901	Ca5	35915901	ATTTTTTTTT/ATTTTTTTTT	AGCATGTGTTCTTG GCAG	TCGGAAGTTTCACATT CATCC	59.9	589	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_35973135	Ca5	35973135	TTATATATATATATATATA/TTATATA TATATATATATA	GGAACGAGGGAATG GTTAT	GAGATGAATCTCAGTG CATCCTAA	60.0	401	INTERGENIC	--	--	--
Ca5_P1_36031906	Ca5	36031906	A/ATCT	TTGAATGCAGGCAAAAC CATA	AAGGATGCACCATTCG TACC	60.1	914	INTERGENIC	--	--	--
Ca5_P1_36057227	Ca5	36057227	CAAAAAA/CAAAAA	TTCATTCAATTTTCCAC GCA	TCTTTTCAAACCTCGC TCGT	60.1	574	INTERGENIC	--	--	--
Ca5_P1_36057618	Ca5	36057618	TAAAAA/TAAAAA	TTCATTCAATTTTCCAC GCA	TCTTTTCAAACCTCGC TCGT	60.1	574	INTERGENIC	--	--	--
Ca5_P1_36058555	Ca5	36058555	GAAAAA/GAAAAA	CTACACGCATGCAGAC GAAT	CTTGCTTGATTTTGG GAGG	59.9	846	INTERGENIC	--	--	--
Ca5_P1_360986	Ca5	360986	ATTTTTTTTT/ATTTTTTTTT	TGTGAGTTTAAGGGAG GGGA	GCATCCAGGATCAGA GGTGT	59.5	390	DRR	Ca_18192	P	--
Ca5_P1_36101390	Ca5	36101390	TAAAAA/TAAAAA	AGAGCAAAATCCTTT CGTGA	TAGTGCAATGGGCC TCTC	59.0	711	INTERGENIC	--	--	--
Ca5_P1_36120649	Ca5	36120649	GA/GATAA	GCTTTCAGGCCAGACT ATGC	AGGGGTAGGAATAGG CCAGA	60.0	118	INTERGENIC	--	--	--
Ca5_P1_36176137	Ca5	36176137	AATATATATAT/AAATATATATATA T	TCATTGACATTTTGCC CCA	TTGGTTGGAAGGTTT GTCA	59.8	617	DRR	Ca_01608	--	--
Ca5_P1_36212540	Ca5	36212540	GTT/GTTAGATT	TTTCATTGTTCCGTCA CCA	TTGAGTCAATGCAAGA GTCCTT	59.9	874	DRR	Ca_01603	I	B3
Ca5_P1_36214320	Ca5	36214320	G/GC	TACCAACCAACAATG CAGA	TGGTGATGGTGATGG AACTG	60.0	475	DRR	Ca_01603	I	B3
Ca5_P1_36308359	Ca5	36308359	TTTATT/TTTATTGGTATTATTATT T	GTTTGTGGCGGATTT GTTT	CCGATACAACGAATT GTCC	59.8	423	DRR	Ca_01593	Z	--

[illegible]

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_36963374	Ca5	36963374	CTTTATTTATTTATTTATTTATT/CTTTA TTTATTTATT	TGCCGCTGTGTCAGTT AGTT	GACAATTATTTTGTC ATGAACGC	59.5	360	INTERGENIC	--	--	--
Ca5_P1_36963472	Ca5	36963472	TATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATA TAATAATAATAATAATAATAATAAT AA	TGCCGCTGTGTCAGTT AGTT	GTACCGCCTCGGTCTC TAAA	59.5	704	INTERGENIC	--	--	--
Ca5_P1_36974555	Ca5	36974555	TAAAAAAAA/TAAAAAAAA	TGCATGCATTTCCATT TAAGTT	GGTCAGCCTTACGCCT AAAA	60.7	372	INTERGENIC	--	--	--
Ca5_P1_37015456	Ca5	37015456	TTATATATATATATA/TTATATATATATA TATA	TTGCATTTTGGTCTCT CTCTCA	TGTCAGCATCATGCAC TTCA	60.0	534	INTERGENIC	--	--	--
Ca5_P1_37061135	Ca5	37061135	GTTTTTTTTTTTTTTTTT/GTTTTTTTT TTT	CCTTTTCCTTGGCAAA TTGA	TATGTGGGCAAGTGGA TTGA	60.0	331	INTERGENIC	--	--	--
Ca5_P1_37086090	Ca5	37086090	AGGGGGGGGGG/AGGGGGGGGGG	CCGTGCAAAGGATGAA AAGT	TACTCGGCCCAAAATT AACG	60.1	614	INTRON	Ca_01507	--	G2-like
Ca5_P1_37101601	Ca5	37101601	CTTTTTTTTTT/CTTTTTTTTTTT	ATACCAACACCATCAT GCGA	TTTGGTTCCAAAAGGA AAGC	59.8	595	INTERGENIC	--	--	--
Ca5_P1_37107723	Ca5	37107723	TAAAAAAAAA/TAAAAAAAAA	TTACCCGCTGAAAACC TTTG	GAGCAGAGGCGGATG TTTTA	60.1	445	DRR	Ca_01506	D	LBD
Ca5_P1_37108495	Ca5	37108495	TTATATATATATATATATATATATA/ TATATATATATATATATATA	TAAACCCGTTTGATTT GGC	TTTCATCAATTGCTGCT GAGG	59.8	617	DRR	Ca_01506	D	LBD
Ca5_P1_37112216	Ca5	37112216	CTTATTTATTTATTTATTTATTTATTA T/CTTATTTATTTATTTATTTATTTATTT ATTTATTTAT	TTCTTCCAGGGACATC CAAG	AGGAGGTGCCCATTTA GGAT	60.0	648	INTRON	Ca_01505	R	--
Ca5_P1_37124729	Ca5	37124729	CAAAAAAAAAAAAA/CAAAAAAAAAAAAA	TGGAAGACTCCACACA ATGC	GGAGAAACAAATGGA GGGA	59.7	166	INTERGENIC	--	--	--
Ca5_P1_3715872	Ca5	3715872	CATATATATATATATATAT/CATATATA TATATATATATATATATAT	TACAATTGATTGGCGG CATA	TTGACACGAGGATCAA CCAA	59.9	930	INTERGENIC	--	--	--

[illegible]

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_37521122	Ca5	37521122	GTTATTATTATTATT/GTTATTATT ATTATTATTATTATT	ATCGGTTTTGTTTGG CTTG	TGGTGTGATTTTGTG TTCCC	60.0	571	INTERGENIC	--	--	--
Ca5_P1_37633576	Ca5	37633576	TAAAAAAAA/TAAAAAAAAA	TGCAATGTTAAAGATG GTTGG	GTGCGAATTTGTGAT TACTGA	58.5	264	INTERGENIC	--	--	--
Ca5_P1_37799581	Ca5	37799581	CTTTTT/CTTTTT	GCACCGTGATTTGAT GATG	ATCAAGTCAGTGCTGC ATCG	59.9	594	DRR	Ca_01443	--	--
Ca5_P1_378415	Ca5	378415	T/TG	AGCTTAGCTTGAGGG GGAG	TCGATTTAATCCGCAG AAGG	60.0	510	DRR	Ca_18193	E	--
Ca5_P1_37851777	Ca5	37851777	CATTTATTATTATTATTATT/CAT TTATTATTATTATTATTATT	TGCTTGTAATCACAA AAGACCT	GCCAACTGCTTGGGT AGAA	58.8	446	INTERGENIC	--	--	--
Ca5_P1_37980353	Ca5	37980353	CT/CTCTTTTT	AGGTATGCATCGGTGG TAGC	TGTTGCCCAACAATCA TAAA	60.0	605	DRR	Ca_01422	B	MYB_related
Ca5_P1_37984795	Ca5	37984795	TAAAAAAAA/TAAAAAAAA	TCGAATGAAGTGTCTG TCTG	AAATATCGGTGGTGTG TAGC	60.1	362	INTRON	Ca_01422	B	MYB_related
Ca5_P1_37985691	Ca5	37985691	TAGAGAGAGAGAGAGAG/TAGAGA GAGAGAGAGAGAGAG	GTTTCGAGGCAGCGAA ATAG	CCAACCGAGATCAACT TCGT	60.0	604	INTRON	Ca_01422	B	MYB_related
Ca5_P1_37989706	Ca5	37989706	GAAAA/GAAAA	GCGTTACTTGTTCCC TGTC	TCTGCATCCCATTATC GTCA	59.6	813	INTERGENIC	--	--	--
Ca5_P1_37992976	Ca5	37992976	TCCTATCTTTAATCCCTAT/TCCTAT	GGGCCAAGATAAAGGA AAGG	TACAGCATGCCAGGAT GAAG	59.9	823	INTRON	Ca_01421	B	--
Ca5_P1_37999235	Ca5	37999235	AATTATTATTATTAT/AATTATTAT TTATTATTATTAT	ACCTCCACCAATCTA TGCG	GGATGTTGCACAATCA ATGAA	60.0	547	INTERGENIC	--	--	--
Ca5_P1_38001520	Ca5	38001520	TAG/TAGAG	TTGGCATTTTATCCAA TTTCA	CAATGGGAGAGGATG CTTGT	59.3	572	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_38002609	Ca5	38002609	GTTTTTTT/GTTTTTTT	TTGCCATGCCTTCAAT ATCA	TTTGTCTGCAATGTT CCCA	60.0	478	INTERGENIC	--	--	--
Ca5_P1_38002903	Ca5	38002903	GTTT/GTTTT	TGGGAACATTGACGAC AAAA	CAAGCAAATGGCAAC AAGA	59.9	382	INTERGENIC	--	--	--
Ca5_P1_38005397	Ca5	38005397	CTCT/C	TGAGAGACCTTGATTG ATACAAATG	TCAATTTGGTTCCAAC GTCAT	59.6	540	INTERGENIC	--	--	--
Ca5_P1_38006809	Ca5	38006809	G/GATCGTT	TGGAAGTGCATATGAT GTTGG	CGAGGTGTTGCACATG ACTT	59.4	585	INTERGENIC	--	--	--
Ca5_P1_38007843	Ca5	38007843	ATTT/ATTTT	TGCGGTGGAATAAATG TGTC	TTTAACGTAGGCAAGC AGGC	59.5	530	INTERGENIC	--	--	--
Ca5_P1_38011560	Ca5	38011560	GAAAAA/GAAAAAA	CCCTACCCTCTCTCCG TTTC	TTTGCATCTTCCATTC CCTC	60.1	563	DRR	Ca_01420	BK	NAC
Ca5_P1_38016624	Ca5	38016624	TAAGAAA/TAA	ATCCTCGAGAAGGAAG GAGC	CCTTTCCCTCCAATG TCAA	59.9	276	INTRON	Ca_01419	A	--
Ca5_P1_38017649	Ca5	38017649	CAAA/CAAAA	TGATCCCATGTGCACA AACT	CTATCCACACAACGTC GAGC	60.0	405	INTRON	Ca_01419	A	--
Ca5_P1_38019385	Ca5	38019385	CTTTCA/CTTTCAGGAAAGTTTCA	TTTTCCAGCTTTGGA CCAG	TGGAGTAATGTGACGC GAGA	60.2	142	DRR	Ca_01419	A	--
Ca5_P1_38019468	Ca5	38019468	ATTTTTTT/ATTTTTTT	TTTTCCAGCTTTGGA CCAG	CAAACGTAACCATTGT GCCA	60.2	644	DRR	Ca_01419	A	--
Ca5_P1_38019751	Ca5	38019751	CTT/CTTTT	TTTTCCAGCTTTGGA CCAG	ACTTTGTGCCGACTCT TGCT	60.2	750	DRR	Ca_01419	A	--
Ca5_P1_38021320	Ca5	38021320	CATATAT/CATATATAT	TCTTGCATTTCTCAG CCT	TGTCGATTCTGGTCA TCAT	60.0	142	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_38021365	Ca5	38021365	AAAGCA/AAAGCAAGCA	TCTTGCATTTCTCTCAG CCT	ATTTTGGCAGCTGTCT TTGG	60.0	507	INTERGENIC	--	--	--
Ca5_P1_38021428	Ca5	38021428	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA AAA	TCTTGCATTTCTCTCAG CCT	ATTTTGGCAGCTGTCT TTGG	60.0	507	INTERGENIC	--	--	--
Ca5_P1_38023373	Ca5	38023373	CATATTAGTA/CATATTAGTATATTAGT A	CCTAGCGTATTGGGA GCTG	GCATTCATGCCACTTA GTTTG	59.9	736	INTERGENIC	--	--	--
Ca5_P1_38023980	Ca5	38023980	AACACAC/AACAC	CCGCAGTAAGAGTTTG ACCA	TTCGAGGAATGGTTG TTTC	58.9	548	INTERGENIC	--	--	--
Ca5_P1_38026040	Ca5	38026040	GCC/GCCC	ATGCCAAAAATAACG CCAG	ATTGCAATGAAAAGGC AACC	60.0	738	INTERGENIC	--	--	--
Ca5_P1_38027085	Ca5	38027085	AC/A	AAGCCTCTTGTTCTCC ACCA	TGCACCACAAAAGTG GTATCA	59.8	504	INTERGENIC	--	--	--
Ca5_P1_38027177	Ca5	38027177	TC/T	AAGCCTCTTGTTCTCC ACCA	TGCACCACAAAAGTG GTATCA	59.8	504	INTERGENIC	--	--	--
Ca5_P1_38028017	Ca5	38028017	CTTTTTTTTT/CTTTTTTTTT	TGGCAAGAATACCTTG TAAGCA	TGGCTATTGTTTGAG TTTTTGA	59.8	449	INTERGENIC	--	--	--
Ca5_P1_38028753	Ca5	38028753	A/AC	TGGACCACGTGTACTA TTTAACC	CCAAGTGTTATTGGAG GGAGA	58.0	524	DRR	Ca_01418	R	DBB
Ca5_P1_38029328	Ca5	38029328	A/ACCTAAGT	TCTCCCTCCAATAACA CTTGG	AATTGAGCCGTTTCGC AATA	59.0	482	DRR	Ca_01418	R	DBB
Ca5_P1_38030046	Ca5	38030046	AAT/AATAT	TCAAAAACGGACATGA GCAA	TTTATGGACAGCTCCC GAAC	60.2	614	DRR	Ca_01418	R	DBB
Ca5_P1_38030247	Ca5	38030247	TTCTTG/TTCTTGTTTCATCTTG	TCAAAAACGGACATGA GCAA	TTTATGGACAGCTCCC GAAC	60.2	614	CDS (large-effect mutations)	Ca_01418	R	DBB

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_38032027	Ca5	38032027	ATCTCTCTCTC/ATCTCTCTCTCTC	CAGTGGTGCAGAAAA CAGA	TTCCAATATGCCAG CAAA	60.0	429	INTERGENIC	--	--	--
Ca5_P1_38033205	Ca5	38033205	GATAATAATAATAATAATAATAAT AATAAT/GATAATAATAATAATAATAAT AATAAT	TCCCATCAGTCAAAAC ATTCA	AGCAATCATAAGGGT GCAA	59.0	576	INTERGENIC	--	--	--
Ca5_P1_38033491	Ca5	38033491	GTATATATAT/GTATATATATAT	AAAGCGGCATTATCTC GTTG	CGCGTCAAATAAGCA TTGA	60.2	520	INTERGENIC	--	--	--
Ca5_P1_38034605	Ca5	38034605	CG/CGG	CTGCTATTGCGATCCC TCTC	TTTTGAACGCAAGAAA ACAGAA	59.9	800	INTERGENIC	--	--	--
Ca5_P1_38034841	Ca5	38034841	TTTA/TTTAATTA	TCGTCCGATTATACC GACA	CGACGAGGTATATGCC AACA	59.0	856	INTERGENIC	--	--	--
Ca5_P1_38034918	Ca5	38034918	A/AAG	TCGTCCGATTATACC GACA	CGACGAGGTATATGCC AACA	59.0	856	INTERGENIC	--	--	--
Ca5_P1_38036769	Ca5	38036769	TAA/TA	TGATAACTCGTCGGCT TGTG	TTTTCTCTCCAAATAA GCCTC	59.9	633	INTERGENIC	--	--	--
Ca5_P1_38040682	Ca5	38040682	TAA/TA	TATAATTGCGCACCTC CTCG	GCAATGCGTATTACTG CTCC	61.1	823	INTERGENIC	--	--	--
Ca5_P1_38041023	Ca5	38041023	TA/TAATTAA	TCCTTAAGTACTTGCA CGTTACCA	TTTTGTTGCATGTTGA CATTTTT	60.1	606	INTERGENIC	--	--	--
Ca5_P1_38042134	Ca5	38042134	T/TA	TTGTCATAGGTTATAC GGTAGGTCTC	GGGGACCAAAACCAC AATTA	59.0	265	INTERGENIC	--	--	--
Ca5_P1_38042375	Ca5	38042375	TA/T	AATTGTGGTTTTGGTC CCCT	AAGATGTCGAATGTCC ACGA	60.5	621	INTERGENIC	--	--	--
Ca5_P1_38043572	Ca5	38043572	TAAAA/TAAA	AGGAGGCTAATTGAGG GAGC	TGTGGTGCATGGTA GAAAA	59.8	519	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_38045991	Ca5	38045991	ATT/ATTTTCTT	TGACATTTTCAAATGC CCAG	TGAAATGCGAAAGAGG TGAA	59.5	652	INTERGENIC	--	--	--
Ca5_P1_38049889	Ca5	38049889	TAAAAAA/TAAAAA	TCAAATGCATAATCATG AAAGGA	TCTCATTCACAAACGA CCCA	59.4	190	INTERGENIC	--	--	--
Ca5_P1_38052063	Ca5	38052063	CATATGAATATATGAAT/CATATGAAT	CAACAAAATTTCCCAA AATTGA	TTTTTGGCAGTTATCG ACATT	60.1	822	INTERGENIC	--	--	--
Ca5_P1_38053910	Ca5	38053910	CTTTTTTTTTT/CTTTTTTTTTT	TCAACCAACACGACT CTGG	TTCCAAGCGGATAAG TTCT	59.7	766	INTERGENIC	--	--	--
Ca5_P1_38054752	Ca5	38054752	ATTTTTTTTT/ATTTTTTTTTT	AGAACTTATCGCGCTT GGAA	TTCCAGTGCGTTCAAA CCTT	60.0	553	INTRON	Ca_01417	R	--
Ca5_P1_38059062	Ca5	38059062	ATTTTTTTTT/ATTTTTTT	CGGCCTAAATAGTACC GCAA	TTTGTGGCACCACACA AGAT	60.1	728	DRR	Ca_01417	R	--
Ca5_P1_38061239	Ca5	38061239	A/AT	TGCATTTATCCCAGCA TTCA	CGGTAATAAACACGG AGGG	60.0	547	DRR	Ca_01416	--	--
Ca5_P1_38061334	Ca5	38061334	TAA/TAAA	TGCATTTATCCCAGCA TTCA	CGGTAATAAACACGG AGGG	60.0	547	DRR	Ca_01416	--	--
Ca5_P1_38067693	Ca5	38067693	CTATATA/CTATATATA	GAGCACAAATATTTTC GTCAACA	GCGACAGATTCAACTC ACAGA	59.2	593	DRR	Ca_01413	--	--
Ca5_P1_38068102	Ca5	38068102	TATTAATTA/TATTA	GCAATGTGCACAATCC AAAC	CCCTTACCTGCTAAGC GAAA	60.0	580	DRR	Ca_01413	--	--
Ca5_P1_38068190	Ca5	38068190	GAAAAGAAAAAGA/GAAAAGAAAAAGA AAAAGA	GCAATGTGCACAATCC AAAC	CCCTTACCTGCTAAGC GAAA	60.0	580	DRR	Ca_01413	--	--
Ca5_P1_38070509	Ca5	38070509	TGTCGCGA/TGTCGCGAGTCGCGA	ATCGCATGGCTATTCA AGGT	TCATGATTCTGATCTC TTGTGGA	59.6	616	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_38075218	Ca5	38075218	GTITTTTTTTTT/GTITTTTTTTTT	ATTTTGAAGCTGTG GTGG	TGATCCACTCCCCTCT TGTC	60.0	457	DRR	Ca_01412	O	MYB_related
Ca5_P1_38075506	Ca5	38075506	TCC/TC	GACAAGAGGGGAGTG GATCA	CACAACGGCAAGACA GACAT	60.0	441	DRR	Ca_01412	O	MYB_related
Ca5_P1_38075915	Ca5	38075915	TC/T	ATGTCTGTCTTGCCGT TGTG	ACGGTAGCAACAAAT TCGG	59.8	288	DRR	Ca_01412	O	MYB_related
Ca5_P1_38081854	Ca5	38081854	TC/TCC	TCAAGCCATCAACAAT TGGA	ATTCCGGTGCTCTTGT TGTC	60.0	431	DRR	Ca_01411	D	WRKY
Ca5_P1_38093452	Ca5	38093452	TCTAG/TCTAGCTAG	GCCTGCAGTCTCACTC TTCC	TGCTAAATCTGCGAC CCAT	60.1	499	INTERGENIC	--	--	--
Ca5_P1_38096209	Ca5	38096209	GAAAAAAAA/GAAAAAAAAA	CAACCAACAACATTCT CCAAA	ATGCTGCAACCACCAT GATA	58.5	930	INTERGENIC	--	--	--
Ca5_P1_3809714	Ca5	3809714	CATTATTATTATTAT/CATTATTATTAT	GGGGTACAATGTGGA CCAA	TCTTCTTGGTAGTGGG CAGG	60.5	505	INTERGENIC	--	--	--
Ca5_P1_38099079	Ca5	38099079	AAATAATAATAAT/AAATAATAATA ATAATAATAAT	TTTCCGTTTTCTTCTGC ACC	AACAACTTTCTCCATTT TTGCAC	60.2	678	INTERGENIC	--	--	--
Ca5_P1_38099316	Ca5	38099316	GATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTAT/G ATTATTATTATTATTATTATTATTA TTATTATTATTAT	GGAAAACAAATATGGT ATGCC	CACGGATAATCGGAGA TTCCT	59.5	767	INTERGENIC	--	--	--
Ca5_P1_38100297	Ca5	38100297	AC/ACGC	GTTGCCAGTTTTGGTC CACT	ATCGGATTAGGAAGGT TGGG	60.0	855	INTERGENIC	--	--	--
Ca5_P1_38100833	Ca5	38100833	TA/T	CGAATTTGAACCCGAG ACAT	CATCATAACCGAGCAC ATGG	59.9	635	INTERGENIC	--	--	--
Ca5_P1_38102985	Ca5	38102985	TA/T	GCTGGTGGCATACTTT GGTT	GTCCATGACAGCAGCA AAAA	60.0	122	CDS (FRAME SHIFT)	Ca_01408	P	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_38103461	Ca5	38103461	TAAAAAAAA/TAAAAAA	GCTGCTGTCATGGACA CACT	ACGAACATGTTGCAAA ACCA	59.9	628	DRR	Ca_01408	P	--
Ca5_P1_38107026	Ca5	38107026	AAAACAA/AAA	GGGCTTTCTTGAAGGG TTTC	TGTGCCTAATGAAGTT GCCA	60.1	564	INTERGENIC	--	--	--
Ca5_P1_38110715	Ca5	38110715	CATATATATATATA/CATATATATATA	TATACGCAGCCACAA TCAC	GATTGTCTGCTGGATT GGGT	59.6	426	DRR	Ca_01407	S	--
Ca5_P1_38112023	Ca5	38112023	TGGTGTTCTTAGGT/TGGT	ACTGAGCTTCACCGGC TTTA	TTCATGCATGCCAACT GAAT	60.0	770	DRR	Ca_01406	S	--
Ca5_P1_38117183	Ca5	38117183	ATTTTTTT/ATTTTTTTT	AATTTTGAATGTTCAAG TGCATTA	AACAATTCTACAAGTT CGGAAGTG	57.8	570	INTERGENIC	--	--	--
Ca5_P1_38117488	Ca5	38117488	TTATA/TTATATA	CACTTCCGAACCTGTA GAATTGTT	GACAAAATTGAGGAAT ATATCCTGTG	58.8	654	INTERGENIC	--	--	--
Ca5_P1_38117566	Ca5	38117566	TA/T	CACTTCCGAACCTGTA GAATTGTT	TTTTACCCAAAACAAAT GTGG	58.8	741	INTERGENIC	--	--	--
Ca5_P1_38121467	Ca5	38121467	AA/AAAACAATA	ATTGGATCTAGTGCGA TGCC	GGTGATAGGTGGACG GCTTA	60.1	198	INTERGENIC	--	--	--
Ca5_P1_38122648	Ca5	38122648	T/TA	TCATTCTTAGCGCTTTT TCTGA	AAACACGAGTTGGGTC CATT	59.3	387	INTERGENIC	--	--	--
Ca5_P1_38125355	Ca5	38125355	TG/TGGGG	AGGCTCGATAATCCGC CTAT	CATTGTGTTGGGTATG AGCG	60.0	874	INTERGENIC	--	--	--
Ca5_P1_38125773	Ca5	38125773	GTT/GT	AAAGTGCAAAATTGC CTTG	CATTGTGTTGGGTATG AGCG	60.1	175	INTERGENIC	--	--	--
Ca5_P1_38128871	Ca5	38128871	GTTTTT/GTTTT	CACAAGGGAAAAAGAAC CAGC	GTGATCTGGAGGCGA TGATT	59.7	233	DRR	Ca_01405	A	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_38129748	Ca5	38129748	A/AC	AAACCAATCGAACCA CCAG	TTCTTCGGAGAATTG GGTG	59.8	705	DRR	Ca_01405	A	--
Ca5_P1_38132086	Ca5	38132086	AATAAT/A	GAGAAAGTTTACCCCA CACCC	GCACGGTACAAACCTC CTGT	59.7	566	INTERGENIC	--	--	--
Ca5_P1_38137873	Ca5	38137873	TC/T	GGCTAATGGCTCAGTT CGAC	TTTCATGGGTGCAAA AAAA	59.8	622	INTERGENIC	--	--	--
Ca5_P1_38142286	Ca5	38142286	GACACA/GACA	TTGTTCCCTTTTGGAT GAGG	ACTTTGCTGGCAATGT GTGT	59.9	526	DRR	Ca_01403	R	NAC
Ca5_P1_38149555	Ca5	38149555	GAATGATAAT/GAAT	ATGGCCAGTCATGTCA CAAA	TGGAGGAAGAACCGA AAATG	60.0	330	DRR	Ca_01402	--	bHLH
Ca5_P1_38149695	Ca5	38149695	TGATGTAGATGTAGA/TGATGTAGATG TAGATGTAGA	ATGGCCAGTCATGTCA CAAA	TGGAGGAAGAACCGA AAATG	60.0	330	DRR	Ca_01402	--	bHLH
Ca5_P1_38152936	Ca5	38152936	TATTAGATTAA/TA	TTGTGAAGGAGGAGGA CCAG	GCGGAAAACGAGAAAT TTTG	60.2	950	INTERGENIC	--	--	--
Ca5_P1_38156359	Ca5	38156359	TTAT/TTATAATTAATAT	CCTTGCTATGCCACAC ATCA	GCCATGATATTGAGAT TTGGG	60.7	575	INTERGENIC	--	--	--
Ca5_P1_38157438	Ca5	38157438	GTATATATA/GTATATATATA	CACTGGCATTTACAAC CAGG	TTTTATTAGTTTGATT TCCCTTCA	59.0	504	INTERGENIC	--	--	--
Ca5_P1_38159191	Ca5	38159191	GAAAAAA/GAAAAAA	CCAGCATCCAATTCC ATTT	AGGATTGTTCGCGAG TTGG	59.9	862	INTERGENIC	--	--	--
Ca5_P1_38159703	Ca5	38159703	GTT/GTTGGCCATTTT	CCAACTCGCAACAAA TCCT	ATTGGTTCACCCCTTC AAAA	60.1	559	INTERGENIC	--	--	--
Ca5_P1_38165078	Ca5	38165078	GTATA/GTATATA	AGCAGGAGCAAGGAAA CAAA	CTGAAGGGGTGTGGT TGAGT	60.0	678	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDCC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_38401552	Ca5	38401552	TTCTCTCTCTCTCTCTC/TTCTCTCTCTCTCTCTCTC	TTGTCTCCAGTTTGGTCCC	GTTTAGAGGCAACACAGCCC	59.9	482	INTERGENIC	--	--	--
Ca5_P1_38405942	Ca5	38405942	AATATATATATATATATATATATATATATATATA/AAATATATATATATATATATATATA	CCCTTGTGCCCATCAGTATT	GATGGAGTTAAATGTAGTTCCCC	60.0	531	INTERGENIC	--	--	--
Ca5_P1_38407056	Ca5	38407056	CT/C	TCTCAAAGTCTCAATGTCCAA	TTGAAGTCAAATTTCCGCGAG	59.7	658	INTERGENIC	--	--	--
Ca5_P1_38476895	Ca5	38476895	C/CTTTGCGAAAT	GAGGACCAAAAACATGCACT	CCGTGCACAACACAATTTC	60.0	665	INTERGENIC	--	--	--
Ca5_P1_3850375	Ca5	3850375	ATTTTTTTTT/ATTTTTTTTTTT	TTTGAATCTTGAGGGTGGAAA	GAATGATATATTGATTGGGTGTGTG	59.5	396	INTERGENIC	--	--	--
Ca5_P1_38549084	Ca5	38549084	CTATATATATATATATATATAT/CTATATATATATATATATATATAT	AGAAGGTGCTGCAAAAGCTG	TTCACAAAGGGGAATCCAAG	60.7	738	INTRON	Ca_07411	M	MYB_related
Ca5_P1_3862372	Ca5	3862372	TAAA/TAA	TTACATCCCCTCTAAACCAA	TCCCAATGACTCATCGTCAA	59.4	349	INTERGENIC	--	--	--
Ca5_P1_3865777	Ca5	3865777	CTTTTT/CTTTTTTT	ATGTGACACCCTAAACCCA	TTGGTTTAGAGGGGATGTGAA	60.1	605	INTERGENIC	--	--	--
Ca5_P1_3865824	Ca5	3865824	CTTTTT/CTTTTTTT	TTGTCCCACCAATCTAT	TCCCAATGACTCATCGTCAA	60.1	997	INTERGENIC	--	--	--
Ca5_P1_3869297	Ca5	3869297	TTAATAATAATAATAATAATA/TTAATAATAATAATAATA	TTTTGGATTCAATTTGCTGA	CCAAATTTGATGACATGCAC	59.6	392	INTERGENIC	--	--	--
Ca5_P1_3869500	Ca5	3869500	ATACAAAATTACAA/ATACAA	CATTAAATGTGTGCAAGGATCAA	GAGAGTTGAAGCCTCAAAGA	59.9	471	INTERGENIC	--	--	--
Ca5_P1_38719512	Ca5	38719512	ATTTTTTTTT/ATTTTTTTTTT	TTTGCTGTGTTATGCAATCA	GGATGGACAGAGAGCCAGAG	60.1	558	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_3874588	Ca5	3874588	AC/A	GACCTTGCTTTGGGT TGTA	CACATCCCTCTAAAC CAACC	60.0	409	INTERGENIC	--	--	--
Ca5_P1_38755750	Ca5	38755750	TGGGG/TGGGGG	GAAGTTGAGCGCAATG TTGA	TTAAGACGGGTGATGG AAGC	60.0	528	INTERGENIC	--	--	--
Ca5_P1_38755876	Ca5	38755876	TA/TATGA	GAAGTTGAGCGCAATG TTGA	TTAAGACGGGTGATGG AAGC	60.0	528	INTERGENIC	--	--	--
Ca5_P1_38755924	Ca5	38755924	TAAA/TAAA	GTCTGCCACATCACCC TTTT	CGGATCAACTTTTCTT TGTGG	60.0	661	INTERGENIC	--	--	--
Ca5_P1_38769540	Ca5	38769540	ATTTTTTTTT/ATTTTTTTT	CTGAAATTCTGTTGG GGGA	TCAAAGAGATGTGACT TTGTCCA	59.9	429	INTERGENIC	--	--	--
Ca5_P1_38854400	Ca5	38854400	TATTATTCATT/TATTATTCATTCA TT	TCCCTAATTTAAAGTTT TGGGCT	CGTGTTCATTTAGGT GGTG	59.5	464	INTERGENIC	--	--	--
Ca5_P1_38880443	Ca5	38880443	GATATATATATATATATATAT/GATA TATATATATATATATAT	ACACGTGAGAGGCACA AATG	AAGGGCAATGATCCAA TTCA	59.8	568	INTERGENIC	--	--	--
Ca5_P1_38890696	Ca5	38890696	GATATATATATATATATATATATATA TATATATATATATATATATA/GATAT ATATATATATATATATATATATATA	TTGCCACTTGATACAG CAAAA	GTCGATGATGCTTGGT GAGA	59.4	902	INTERGENIC	--	--	--
Ca5_P1_3890065	Ca5	3890065	C/CACTCTTTACCTCT	TCGCCAATCAAAAATC ATCA	ATTGATTTTCACCTC GTCG	60.0	646	INTERGENIC	--	--	--
Ca5_P1_38902709	Ca5	38902709	TAAAAA/TAAAAAA	GAAGGGTGAATGCTG ACAT	ATGACCCCTTCACTT TGTG	59.9	729	INTERGENIC	--	--	--
Ca5_P1_38998113	Ca5	38998113	ATTTTTTT/ATTTTTTTTT	ATGCGTGCGATAGGGA ATAC	TGCCAATACACATTTG GGAC	60.0	549	DRR	Ca_07452	J	MIKC
Ca5_P1_39040751	Ca5	39040751	A/AG	CAAGTGACAGCGGAA ATTA	TGGGAAATCGATTGCG TAGT	59.9	801	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_39115890	Ca5	39115890	TTATATATATATAT/TTATATATAT ATATATAT	TCCAGCCCCAACTTA AAAA	ACTTTCGACAATTGCC AACC	59.6	538	INTERGENIC	--	--	--
Ca5_P1_39188187	Ca5	39188187	ATATCT/AT	GCTTGCTTGGACAAAT GACA	TCACAAAGTTTTGTTT GTGTGG	59.8	655	INTERGENIC	--	--	--
Ca5_P1_39352111	Ca5	39352111	CTTTTTTTTTTT/CTTTTTTTTTTT	TGTGGATTTTGGCAT CCTT	CGGTTCAATTGGGTT TTTG	60.3	465	DRR	Ca_07476	T	--
Ca5_P1_39404451	Ca5	39404451	AAAATATA/AA	TGATTGACACTTAGGC CTGC	TGCGTGCTGAATACCG TTTA	58.9	263	INTERGENIC	--	--	--
Ca5_P1_39449601	Ca5	39449601	AATATATATATATATATATAT/AATA TATATATATATATAT	AGCCTTTAGGAATGAC CCGT	GTCAAACTTTGTGGTG CCAA	60.0	753	INTERGENIC	--	--	--
Ca5_P1_39482180	Ca5	39482180	AATATATATATATATATATATATATA TAT/AATATATATATATATATATATAT ATATATATAT	TGGTCGGAGAAGAGG AGCTA	AATGGATGATAGCGAG TGGTT	60.1	522	INTERGENIC	--	--	--
Ca5_P1_39484033	Ca5	39484033	GATATATATATATATATATATATAT/ GATATATATATATATATATATATAT	TTGATATCTTAAACAAT GCGTCG	ACCAATGGTGGAGCTT GAAC	59.2	561	INTERGENIC	--	--	--
Ca5_P1_39515362	Ca5	39515362	TAAAAAAAA/TAAAAAAAA	TGGTCATCTCCCTAAA TGGC	CATGAGCAAATGAACC ATCG	59.9	491	DRR	Ca_07487	H	--
Ca5_P1_39544225	Ca5	39544225	TTTAATAAATATTAATAAATATTAATAA ATA/TTTAATAAATATTAATAAATA	TGGAGCTTGCAGCTGT TCTA	CATAGCCATTGCCTT CCAT	59.9	451	INTRON	Ca_07489	TBLD	--
Ca5_P1_39557215	Ca5	39557215	GATATATATATATATATATAT/GATATA TATATATATATATATAT	GCAAAAAGGGGCACAA TAAA	AATGTCAATCCTCCAT TGCC	59.9	357	INTRON	Ca_07489	TBLD	--
Ca5_P1_39562334	Ca5	39562334	A/ATC	AAAAAGAACGGCGATG CTTA	GCCACAACAACCTCTC CATT	59.9	681	INTRON	Ca_07489	TBLD	--
Ca5_P1_39569272	Ca5	39569272	ACTCTNNNNNNNNNNNCTT/ACT CTT	TAGACAAGCCCATTC CAGG	TTCATGCAAACATTGG 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/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_39762076	Ca5	39762076	ATTTTTTTTT/ATTTTTTTTT	CCTCAGTTTTGGTCCC TCAA	TTGTTTCTCCCACTT CTGG	60.1	222	INTERGENIC	--	--	--
Ca5_P1_39793489	Ca5	39793489	CAAAAAAA/CAAAAAAA	AGGGCACTTTGTCTCC TCAA	ACCAAATCGATGGAAT GACC	59.8	529	DRR	Ca_07506	S	bZIP
Ca5_P1_39815597	Ca5	39815597	AATATATATATATATATAT/AATATA TATATATATATATAT	TGGTCACATGGACATT TGCT	TCTTGGTTTTACTCCA ACGACA	60.0	637	INTRON	Ca_07507	E	--
Ca5_P1_39872057	Ca5	39872057	GATATATATATATATATATATATA /GATATATATATATATATATATATA ATA	AGGAAACATTGGTGG GACA	ATCAAACAACCGAAAG TGCC	60.2	656	DRR	Ca_07512	F	--
Ca5_P1_39927528	Ca5	39927528	TTATATATATATATATAT/TTATATAT ATATATATAT	ATAGGGGCAACTAGGG GCTA	AACATGGACAAGAGA CCGC	59.9	360	INTERGENIC	--	--	--
Ca5_P1_39936599	Ca5	39936599	GAAAAAAAAA/GAAAAAAAAA	GAAGTGGATTGTTGGG TTGG	CATTTCATGCCCCAT AAT	60.2	968	INTERGENIC	--	--	--
Ca5_P1_39996193	Ca5	39996193	ATTTTTTTTT/ATTTTTTTTT	GCATCCCAAGAATACA ACCG	AACAACTCTTCCGC AATG	60.3	413	INTERGENIC	--	--	--
Ca5_P1_40021170	Ca5	40021170	GATCTTTGTCA/GA	TTGCATTCCAAATTCCA TCA	ATTGGAGTGCATGAA AAGG	59.9	241	DRR	Ca_07530	K	--
Ca5_P1_40055483	Ca5	40055483	ACATATTTCATATTTTCATATTTCA/A CATATTTTCATATTTTCATATTT CATA	TATGCGTGTGCCAAC TAAA	TGTGAGATTGCAGCAG TTCC	60.1	468	INTERGENIC	--	--	--
Ca5_P1_40072639	Ca5	40072639	AAATAATAATAATAATAATAATAAT AATAATAATAATAATAATAATAATA ATAATAATAAT/AAATAATAATAATA AATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATAA A	TTGCAATTACATCACAT ATTCAGG	CAGCGCACGATAAGTT TCAA	58.9	391	INTERGENIC	--	--	--
Ca5_P1_40089714	Ca5	40089714	AATATATATATATATATATATATA TATA/AATATATATATATATATATAT ATATATATATATA	GATTCAGAAAGCCACT TGCC	TTTCTTGGTATGGTG GCCA	59.8	484	INTERGENIC	--	--	--
Ca5_P1_40103135	Ca5	40103135	TG/TGG	GGCCTCCAAGTCATG TTAT	TAGTTGGTGGTGCCTC CATA	60.0	394	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/P1)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_40119931	Ca5	40119931	GAAAAAAAAA/GAAAAAAAAA	AAATTGTTGGAAATT GGCA	GGGAAAAGCGCTTCTA AGGT	60.2	757	INTERGENIC	--	--	--
Ca5_P1_40142356	Ca5	40142356	TTTATTATTATTATTATTATTATTA TTATTAT/TTTATTATTATTATTAT TATTATTATTATTATT	TTTCTCCAATTGTTTT GGC	TTTTGCCGTCTCTTTC TCGT	59.9	340	DRR	Ca_07537	--	--
Ca5_P1_40174147	Ca5	40174147	TTTTTTTTCTTCTTTTTTCTTT/TT TTTTTTCTTT	CAGAAACCAGAGTCGC ACAA	CGTCTGCTAACCGTCT CTCC	60.0	215	INTERGENIC	--	--	--
Ca5_P1_40189401	Ca5	40189401	AG/A	TCTCTCTGCAGGGTT TAGC	AACAATCCTTTGATGC CGTC	59.6	731	INTRON	Ca_07543	T	--
Ca5_P1_40191220	Ca5	40191220	AAATAATAATAATAATAATAATAAT AATAATAATAATAAT/AAATAATAA TAATAATAATAATAATAATAATAAT AATAATAATAATAATAAT	TTTCATGAGTGGTGGT AGTTTG	TTGAATTTTGTTTGG CTTGA	59.9	257	INTERGENIC	--	--	--
Ca5_P1_40223853	Ca5	40223853	ATTGTTTGT/ATTGTT	GTCTCTCCAACCAC CTCA	CCTTCATTGGTTGTG TGTCG	60.1	451	INTRON	Ca_07547	R	--
Ca5_P1_40229246	Ca5	40229246	AATTATTATTATTATTATTATTATT ATTATTGTTATTATTATTATTATTATTA TTATTATT/AATTATTATTATTATTATTA TTATTATTATTATTATTGTTATTATTAT TATTATTATTATTATT	ATACAAAACCGCAGTC GAGG	TTGTTTAAGTTTCTT GCACA	60.1	480	INTERGENIC	--	--	--
Ca5_P1_40314996	Ca5	40314996	TATAATAATAATAATAATAATAATA ATA/TATAATAATAATAATAATAATA A	AAAGGACCAAGTCGGA AAAA	GGCTGGGGTGTTCAC CTCAT	58.7	674	INTERGENIC	--	--	--
Ca5_P1_4035916	Ca5	4035916	CTTTTTTTTT/CTTTTTTTTT	GCGGTGGGTTTGAAAA AGTA	ACACCAGTCAAACGCA CAAA	60.0	420	INTERGENIC	--	--	--
Ca5_P1_40392907	Ca5	40392907	GTATATATATATATATATATATAT ATATAT/GTATATATATATATATATA TATATATAT	GCATTATCACGAGCAA CACG	TCAATGTGGTTCGCAA AAGA	60.3	192	INTERGENIC	--	--	--
Ca5_P1_40435410	Ca5	40435410	ATTTTTTT/ATTTTTTT	CGAGGGTTGTTTAGT GTTGAA	CGCTGGGGAGAGTTT TCATA	59.2	700	INTERGENIC	--	--	--
Ca5_P1_40436454	Ca5	40436454	ATTTT/ATTTT	TTTTCAAAACAATCTTA CCACACC	GAGCGACTTGCCAAA GAATC	59.3	424	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_40471737	Ca5	40471737	CTTTTTTTTT/CTTTTTTTTT	TGATTTCCCTGTGCA TCAA	AATGTGGCAAAGGATT CCAG	60.0	757	DRR	Ca_07567	--	--
Ca5_P1_40493832	Ca5	40493832	CTATATATATATATATATATATA/CT ATATATATATATATATATATA	TGCACAAAATATCGGG AGAA	GGGACCACGGGAAT ATTTT	59.1	779	DRR	Ca_07570	--	C3H
Ca5_P1_40613666	Ca5	40613666	TA/TAATAATAAAA	TAGGGGGATCAAACT GCAA	CACAATTTGATGATGC ACGA	60.4	816	INTERGENIC	--	--	--
Ca5_P1_40616297	Ca5	40616297	AATATATATATATATATATATATA TATA/AATATATATATATATATATAT ATATATATATATATATA	TTCTCAACAAATAAG CTCGAA	AACATTTTACGGCGGA CAAC	59.0	734	INTERGENIC	--	--	--
Ca5_P1_4064742	Ca5	4064742	G/GC	TATGTTTGTTCGCGT CCA	AGGATGTACCATCTT GCGG	60.0	375	INTERGENIC	--	--	--
Ca5_P1_40689492	Ca5	40689492	AATATATATATATATATATATATA TATATATA/AATATATATATATATAT ATATATATA	ATGAAGGTGCGATGTG GTTT	GCCCACTACGCCTCA AAAT	60.4	510	INTERGENIC	--	--	--
Ca5_P1_40690017	Ca5	40690017	TAAAAAAAAA/TAAAAAAAAA	ATTTTGAGGCGTAGTG TGCC	TGTGGAAGGGATTAA TGTCAA	60.1	329	INTERGENIC	--	--	--
Ca5_P1_40692652	Ca5	40692652	ATATTATTATTATTATTATTATTAT TATTATTAT/ATATTATTATTATTAT TATTATTAT	GGAGGCAATGACACTT TTACG	TCAAAATCCATGACCA CCCT	59.6	319	INTERGENIC	--	--	--
Ca5_P1_40750478	Ca5	40750478	TGGGG/TGGG	ATGTTATCAACCCTCG CTCG	TCAATTCCTCTTTT ATAACGTG	60.1	510	INTERGENIC	--	--	--
Ca5_P1_40946401	Ca5	40946401	TATAATAATAATAATAATAATAATA ATAATAATAAT/TATAATAATAATA ATAATAATAATAATAATAAT	CCGATACAGAAGCCAC TTCC	TTCAATGCGGATGACG TAGA	59.7	289	INTERGENIC	--	--	--
Ca5_P1_40968327	Ca5	40968327	TAAAAAAAAA/TAAAAAAAAA	CAAAATTTTCAATCAAA ACCCA	TACATCCCCTGGTCC CTTA	58.9	393	INTERGENIC	--	--	--
Ca5_P1_40969602	Ca5	40969602	CATATATATATATATATATATATA T/CATATATATATATATATATATA TATATAT	GAGGTTCAGAATTTTA ACTCGAAAA	TTCTAATGAGTTTCT CCCACAA	59.3	604	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/P)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_40970000	Ca5	40970000	AATATATATATATATATATAT/AA TATATATATATATATATATATAT	TGCATTTAATCAGAGA CGTAAAGG	TAAAGGGGCACATTCA AAGC	59.7	246	INTERGENIC	--	--	--
Ca5_P1_40983709	Ca5	40983709	AATATATATATATATATATATATA TATAT/AATATATATATATATATATAT	TTGTCAGCACATCACA ACCA	CAAAGAGTCGTCACGT TGAATT	59.7	603	INTERGENIC	--	--	--
Ca5_P1_40991714	Ca5	40991714	AAAACCTTATAAA/AAAACCTTAAACTT ATAAA	TGATTTTTCTCATTTT AATTTTCC	TGTCCATTATGAGTGA TTAGGTGTC	58.9	400	INTERGENIC	--	--	--
Ca5_P1_41063761	Ca5	41063761	CTTTTTTT/CTTTT	TTTGACGCCACAAAG ACAG	GCCCTCACAAACGTTG ATTT	60.0	122	INTERGENIC	--	--	--
Ca5_P1_4109611	Ca5	4109611	TAAAAA/TAAAA	CGGGAGATACGTAGGA GCAA	TCGATTATGCGTAGGG AAGG	60.2	252	DRR	Ca_26194	--	--
Ca5_P1_41111071	Ca5	41111071	GATATATATATATATATATATATA TA/GATATATATATATATATATATAT ATATATA	TAAGAGGCCATCGAGT ACGG	AAATCACACCAAAACG ACGA	60.2	611	INTERGENIC	--	--	--
Ca5_P1_41124249	Ca5	41124249	TCAACA/TCAACAACA	ATATTGTTTCAGCACCC GAGG	CAGACGACGAAATGAA GCAA	60.0	361	INTERGENIC	--	--	--
Ca5_P1_41179556	Ca5	41179556	AA/AAAGAGTGTTGAAAAGA	GACTCAATGCAGATGG GGTT	GTCCCATACCTGCAAA AGGA	59.9	596	INTRON	Ca_07636	--	--
Ca5_P1_41190334	Ca5	41190334	A/ATT	ACAACAAATTTTGGCC GAC	TGTCCGGAACTTTTC TTTG	59.8	590	INTERGENIC	--	--	--
Ca5_P1_41219552	Ca5	41219552	AATATATATATATATATAT/AATATA TATATATATATATATAT	AGGAGAAGTGGCGAG AAAAA	CCATCAATGCCTAAT GGTTC	59.1	160	INTERGENIC	--	--	--
Ca5_P1_41226745	Ca5	41226745	CAAAAAAAAA/CAAAAAAAAAAAAA	GCCCAAAATCAAAAC TCCA	TGTGTCGTAAAAAGAT GTCTAAGCA	59.9	611	INTERGENIC	--	--	--
Ca5_P1_41245675	Ca5	41245675	CTTATTATTATTATTATTATTATTA TTTTATTATTATTATT/CTTATTATTAT TATTATTATTATTATTATTATTATT ATT	AAAACATTGTCCAAGC TGCC	ATCATGAGGATGCGAC CTTC	60.1	449	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_41250178	Ca5	41250178	TTATATATATATATATATAT/TTATAT ATATATATATATAT	CAGTTGAGACTGGGCA GACA	GCATCCCCTTTGAGT TGCT	60.0	640	DRR	Ca_07641	--	CO-like
Ca5_P1_41322159	Ca5	41322159	GAAAAAAAAA/GAAAAAAAAA	TGCTGTGGTTACTTTC ACGC	TGTCGCGGGAAAAGT GTAA	59.9	242	INTERGENIC	--	--	--
Ca5_P1_41351148	Ca5	41351148	CA/CATATGATGTA	TTGCGAAGAATGGTG GAAG	CCGACAACCTACGAC AACT	59.8	587	DRR	Ca_19240	--	--
Ca5_P1_41353636	Ca5	41353636	ATTTTTTTTT/ATTTTTTTTT	GGTCCAGTACCAGTT CCGA	TTGCAGTATCGACGCA TGTT	60.0	679	INTERGENIC	--	--	--
Ca5_P1_41428807	Ca5	41428807	TTATATATATATATATATATATATAT ATATATATATATAT/TTATATATATAT ATATATATATATATATATATATATAT ATATATATATAT	TGAATTGAGTTTGGTT GATTTGA	AAAGGATGCAGTATGG GTTTTT	59.5	591	INTERGENIC	--	--	--
Ca5_P1_41455567	Ca5	41455567	AATATATATATATATATATATATATA TA/AATATATATATATATATATATAT A	TTGCCACTTGATACAG CAAAA	TGCATGTTGAAACACC GACT	59.4	757	INTERGENIC	--	--	--
Ca5_P1_41459766	Ca5	41459766	CTATTATTATTATTATT/CTATTATT ATTATTATTATTATT	GGACGTAGAAAATTA TGACATGG	TAGGGAGGGCTTTGTA AGCA	58.9	479	INTERGENIC	--	--	--
Ca5_P1_41467556	Ca5	41467556	TA/TAA	AAAGGATGCAGTATGG GTTTTT	TCACCTGGGTGGA AAA ATGAG	58.9	453	INTERGENIC	--	--	--
Ca5_P1_41467725	Ca5	41467725	CTT/CTTT	CTCATTTTTCCACCCAA GTGA	AGCGACAAGATGAAAG CTCC	60.0	529	INTERGENIC	--	--	--
Ca5_P1_41467977	Ca5	41467977	TTTATTATTATTATTATTATTATTA TTATTATTATTATTATTATT/TTTAT TATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATT	CTCATTTTTCCACCCAA GTGA	AGCGACAAGATGAAAG CTCC	60.0	529	INTERGENIC	--	--	--
Ca5_P1_41477742	Ca5	41477742	CAA/CAAA	TGAGGCAAGCATGTGT AAGC	AATGTGCATGAGAGGC TGTG	60.0	223	DRR	Ca_19232	B	MYB_related
Ca5_P1_41509481	Ca5	41509481	GTTTTTTTTTT/GTTTTTTTTTTTT	CCTGAAATTGCCAAAC CTTC	GCCACGTGGTGTCAT ACTG	59.5	710	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_41553433	Ca5	41553433	GTATATATATATATATATAT/GTATA TATATATATATATAT	ACGTCCATTTTCCATG TGGT	TGCATGGTTCAAGAGA AAGC	60.1	352	INTERGENIC	--	--	--
Ca5_P1_41571732	Ca5	41571732	AATATATATATATAT/AATATATATAT	GGATTCTACGAGAGCC CCTT	CCAAGTCCAGCATGCC TAAT	59.7	765	INTERGENIC	--	--	--
Ca5_P1_41603707	Ca5	41603707	GTATATATATATATATATATATAT/G TATATATATATATATATATATATATA TATAT	ACGTCCATTTTCCATG TGGT	TTGCCATTTCCATCTT CCTC	60.1	444	INTERGENIC	--	--	--
Ca5_P1_41610632	Ca5	41610632	ATTTTTTT/ATTTTTTTT	TCTCTTTTATTGGTGT TGAGCA	ATAGGCTAGCCACAT GACG	58.9	459	INTERGENIC	--	--	--
Ca5_P1_41614182	Ca5	41614182	AATATATATATATATATAT/AATATA TATATATATATATATATAT	TGTGGATTCTATGATCC TTGTG	TTTAACGTCAATGCCA ACTTT	59.4	916	INTERGENIC	--	--	--
Ca5_P1_41654064	Ca5	41654064	CTTTTTTTTT/CTTTTTTTTTTT	CCTCAGTTTGGTCCC TCAA	TTTTCTCTCATGCTTTT CGGA	60.1	739	INTERGENIC	--	--	--
Ca5_P1_41678103	Ca5	41678103	TCT/CTTTCCCTTAAAGGGACT	CAGTGGGTCCTCTTCC ACAT	CCCGAACTCCTGTAC TCCA	60.0	551	INTRON	Ca_19215	J	C3H
Ca5_P1_4176359	Ca5	4176359	T/TG	TGCAATGGTCTCAATG TATTCAA	CCCGAAACCTTAAACC CTAA	60.4	703	INTERGENIC	--	--	--
Ca5_P1_41789237	Ca5	41789237	GAAAA/GAAAAA	TAAATCAAACGAACAC CGCA	TTCTTTAAATGGGTC ACGC	60.1	625	INTERGENIC	--	--	--
Ca5_P1_41795988	Ca5	41795988	ATT/AT	TGGAATGCTACACAAG CTGC	TTGAGGTGCATCGATC AAAA	60.0	317	INTERGENIC	--	--	--
Ca5_P1_4179599	Ca5	4179599	GATATATATATAT/GATATATATAT	CGGTTTAGGGATTGGG TTTT	TCGATTGAGTCTTTTG CACTT	60.0	166	INTERGENIC	--	--	--
Ca5_P1_4182020	Ca5	4182020	AGTTTAGGGTTTAGGGTTTAGGGTTT AGAATTAGGGTTTAGGTTTAGGGT TTAGGGATTAGGGTTTAGGGTTTAAG GTTTAGGCTTTAAGGTTTAGGGTTTA GGGTTTAAGGTTTAGGGTTTAGGGTT TAGGGTTTAGGGTTTAGGGTTTAGGGTT	GGGTTTGGGTTTACG GTTT	TCGAATCCATTTCGTC TTTTG	60.0	583	INTERGENIC	--	--	--

[illegible]

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/P1)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_42216704	Ca5	42216704	GTATATATATATATATATATATAT A/GTATATATATATATATATATAT ATATATA	GCGTGTGTGTGTGTGT GTGT	TGACCAAAATTTGTTAT GTTTCGTTT	60.2	424	INTERGENIC	--	--	--
Ca5_P1_42217169	Ca5	42217169	CATATATATATATATATATATATATA TA/CATATATATATATATATATATAT ATATATATATATATA	CGAACATAACAAATTT GGTCATAAA	AGAAAACAAGCGTGTG TGTG	59.3	663	INTERGENIC	--	--	--
Ca5_P1_42231500	Ca5	42231500	CC/CCGAGAACGTAC	TCAAAATCCACACCCC ACTT	GCCATCTCCAATAGCA CCAT	60.2	888	INTERGENIC	--	--	--
Ca5_P1_42237414	Ca5	42237414	AATATATATATATATAT/AATATATATA TATATATAT	TCGAGTGGATCATTTG GACA	TGGGCAGTTTTGGAAG TTTT	60.0	880	INTERGENIC	--	--	--
Ca5_P1_42265581	Ca5	42265581	AATATATATATATATATATATA/AATAT ATATATATATATATATATA	CGCTGCAATTATCGCA CTTA	GACCATCTATGTCCAG ACACCA	60.0	305	INTERGENIC	--	--	--
Ca5_P1_42290868	Ca5	42290868	CTTCTTCCTCTTTCTTCCTCTTT/CTTC TTCCTCTTT	CGATTGTTGATCCTCC TCGT	TGAGGTTTTGTTGTTG CCAT	60.1	406	DRR	Ca_11386	R	NAC
Ca5_P1_4234420	Ca5	4234420	GTCCGT/GTCCGTGGGTAATCCGT	AACGTTACCCACGGAC ACTC	TGGACAAAAACCAAAA TGACC	59.9	371	DRR	Ca_26200	--	--
Ca5_P1_423541	Ca5	423541	TAAAAAAAA/TAAAAAAAAA	CAGAGAGGGAGAAATC GTGC	TGTCCAAAAGCGCTGT AAAA	60.0	329	INTERGENIC	--	--	--
Ca5_P1_423599	Ca5	423599	TAAAAA/TAAAAA	CAGAGAGGGAGAAATC GTGC	GAGCGCTGTAAAAGAC CTCC	60.0	406	INTERGENIC	--	--	--
Ca5_P1_42381164	Ca5	42381164	AT/ATTATT	ATGGATTGTGCTCCCA CTTC	CACTTTTGTTTTATTTC TCGTCAA	59.9	950	INTERGENIC	--	--	--
Ca5_P1_4240488	Ca5	4240488	CTTTTTTTTT/CTTTTTTTTTT	CGTTGAGAAGCGATCG TACA	AGAAAGGCTCAAACGA CCAA	60.0	719	INTERGENIC	--	--	--
Ca5_P1_4240701	Ca5	4240701	ATTTT/ATTT	CGTTGAGAAGCGATCG TACA	TTTCTGAGAATCACCA CCCC	60.0	933	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_42425779	Ca5	42425779	CATGTTTTATGTTTTA/CATGTTTTA	TCAATGGAATGGAGTC GTCA	CGACAATTCATTATC CGTCC	60.0	749	INTERGENIC	--	--	--
Ca5_P1_42427468	Ca5	42427468	TTATATATATATATATATATATATATATATATAT/TTATATATATATATATATATATATATATATAT	CAACTGATCGGAGTGG GATT	AAATCCTTAAGATCGG CGGT	59.9	618	DRR	Ca_11375	--	--
Ca5_P1_42521001	Ca5	42521001	TTT/TTTATT	ACGCATAATCGACTCC GAAC	TGGTGATGCTTTTGAG AGGA	60.1	553	INTERGENIC	--	--	--
Ca5_P1_42535531	Ca5	42535531	AT/A	GAAATTCACCTCCAA TCCA	TTGGCCGTAGGTAGAT TTGC	59.7	269	INTERGENIC	--	--	--
Ca5_P1_42557029	Ca5	42557029	TTATATATATATATATATATATA/TTATATATATATATATATATATATA	TTTCTCTTTTGGTGGTT GCC	TGAAAGATCGAAATTT TATTGGG	60.1	532	INTERGENIC	--	--	--
Ca5_P1_42627539	Ca5	42627539	GAAAAA/GAAAAAAGATAAAAAA	CTTCCGAATCCGTACA TCGT	CACCTCCGTTACGCGT ATTT	60.0	417	INTERGENIC	--	--	--
Ca5_P1_42654056	Ca5	42654056	TAG/T	GATTTGGTGGGAGCAC ACTT	CACCTGAGAAGCCGAA TACA	60.0	745	DRR	Ca_11348	--	--
Ca5_P1_42657386	Ca5	42657386	A/AT	TGTCAAATTGGCCTGC ATTA	GTGCAACAGCTGCAAT AGGA	60.1	222	DRR	Ca_11347	B	C3H
Ca5_P1_42657457	Ca5	42657457	AT/ATTATATT	TGTCAAATTGGCCTGC ATTA	GTGCAACAGCTGCAAT AGGA	60.1	222	DRR	Ca_11347	B	C3H
Ca5_P1_4270777	Ca5	4270777	CAAAAAAAAA/CAAAAAAAAA	CCTGACAACCAACCC ACCT	GACCATCCTACCGGTT CGTA	60.0	559	INTERGENIC	--	--	--
Ca5_P1_4273567	Ca5	4273567	CTATATATATATATAT/CTATATATA TATATATATAT	TTGGAAGGAGCCCTTA CCTT	CGATTGAGACCAAG GATGT	60.1	908	INTERGENIC	--	--	--
Ca5_P1_4275629	Ca5	4275629	GC/G	TTAGGGTTTAGGGTTT CGGG	TGACTTTTGCACTAAT TGGACG	60.2	516	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca5_P1_42756810	Ca5	42756810	TTATATATATATA/TTATATATATATATA	AGTTTTGCCTTCCAGC TTTG	TTTACATCCCCACCC GTAA	60.1	571	INTERGENIC	--	--	--
Ca5_P1_4277920	Ca5	4277920	CAAAAAAAAA/CAAAAAAAAA	GCGTTTAGGGTGTAAG GGTC	CCTACGGACGGGAAT GTAGA	58.6	417	INTERGENIC	--	--	--
Ca5_P1_42901533	Ca5	42901533	TA/TAGGTAAGAAAAATGA	ATTGCCATAACACAGA GGGC	CGGTCCGACTTTCACA TTTA	60.0	776	INTERGENIC	--	--	--
Ca5_P1_42975249	Ca5	42975249	CTTATTATTATTATTATTATTATTATT TTATT/CTTATTATTATTATTATTATT TATTATT	TCTGATGAGTTGCTTG TGCC	GGCCGCAATTATTGTT TTGT	60.0	528	INTERGENIC	--	--	--
Ca5_P1_4302445	Ca5	4302445	TA/T	AGGCAATGCAATCCGA TAAG	AGCTTACCATCCACAA ACGG	60.1	502	INTERGENIC	--	--	--
Ca5_P1_43051982	Ca5	43051982	ATCTCTCTCTCTCTCT/ATCTCTCTCT CTCTCTCT	TGCACTGTTACCAAT CCGA	TCCAATGCAGAAACA TCAA	60.1	523	INTRON	Ca_11302	--	B3
Ca5_P1_4307171	Ca5	4307171	AGGTTTAGGGTTTAGGGTTT/AGGTTT AGGGTTTAGGGTTTAGGGTTT	AGGGTGTAAGGCTCTT GGTCT	CAAAAGCCAAATGAC CTCAA	59.0	747	INTERGENIC	--	--	--
Ca5_P1_43073124	Ca5	43073124	CA/CAA	ACACGGCTCAAGCACT TTTT	GACACCATGTCCAACA TGTC	59.9	665	INTRON	Ca_11300	OU	WRKY
Ca5_P1_43179356	Ca5	43179356	AAACAATAACAA/AAACAA	GGAAACATGGTCAGCT GCTT	GCATTTTCTTCACTAG GCCC	60.3	757	DRR	Ca_12741	--	--
Ca5_P1_43298677	Ca5	43298677	AATATATATATATATATATATATATA /AATATATATATATATATATATATATA ATA	TCAAATTTGCAAAGAC AGATTTTC	TTTTGGTGTCCTTAA GAGTGGAA	59.7	893	DRR	Ca_12727	--	--
Ca5_P1_43319730	Ca5	43319730	GAAAAAAAA/GAAAAAAAA	TGCGATTGTGGGAAT ATCA	GCTTCAAGGTCAGGTC AAGC	59.9	860	INTERGENIC	--	--	--
Ca5_P1_43366832	Ca5	43366832	TAACGTAAATGACAAACGTAAATGACA ACGTAA/TAACGTAAATGACAACGTAA AATGACAACGTAAATGACAACGTAA	TGTAGATTGGGTGTGG CAGA	TTTCCGCTAAACAAAG CACC	60.1	855	DRR	Ca_12719	--	SAP

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_43451237	Ca5	43451237	CTTTTTTTTTTTTTTTTTTTT/CTTT TTTTTTTTTTTTTTTTTTTTT	TGGAAATGTCATTGTG GTGG	ATCAATGCTGATGCAA CTGG	60.2	248	DRR	Ca_12709	--	--
Ca5_P1_43459935	Ca5	43459935	TA/T	TGTTGTGTTGGGAAC GGAA	CCTTCCATTTTTAATGA ATGAACC	60.0	680	INTERGENIC	--	--	--
Ca5_P1_43480817	Ca5	43480817	AA/AATTA	CTCATGACCCGGTAAG GAAA	CACAAGAACCGAACTC CCAT	59.9	314	DRR	Ca_12705	O	GeBP
Ca5_P1_435121	Ca5	435121	CA/CAAA	TGCAATCAGGTGATC CAAA	CAGCAACCACAATTCA ACTCA	60.0	497	DRR	Ca_18196	--	--
Ca5_P1_43552662	Ca5	43552662	C/CTAGATT	CTTCAGCGCAACACCA AATA	CAACCAATCAGCACC CTTT	59.9	387	CDS (large-effect mutations)	Ca_12692	--	--
Ca5_P1_43590301	Ca5	43590301	AAATAATAATAATAATAATAAT AATAATAATAATAATAA/AAATAAT AATAATAATAATAATAATAATA ATAATAA	AACGATCTTCGTGATG TCCC	TCTCCGTGTGCATCAT TTTG	59.9	824	INTERGENIC	--	--	--
Ca5_P1_43615551	Ca5	43615551	TTATATATATATATATATATATAT AT/TTATATATATATATATATATAT ATATATATATATAT	AAGAAAGGATCACCTC AAATCC	GCCTATTTCAATGTAG CCCC	58.6	456	INTERGENIC	--	--	--
Ca5_P1_43659116	Ca5	43659116	TA/TAA	AATGGACCCACCTTTC TTCC	CTGGAGCGAAGGTTG AGAAC	60.2	303	INTRON	Ca_12686	G	--
Ca5_P1_43693334	Ca5	43693334	CATTATTATTATTATTATTATTATT ATT/CATTATTATTATTATTATTATT ATT	AAATCGGGGAAGTAGC GAAT	GTAAGCAAGGCCAC CAAT	59.9	779	INTERGENIC	--	--	--
Ca5_P1_43722797	Ca5	43722797	TAAAAAAA/TAAAAAAA	CATTGTCCAATGGCAT GTTT	CGAGTGTCTGTTAACC GCTG	59.3	822	DRR	Ca_12680	P	MIKC
Ca5_P1_43733246	Ca5	43733246	CTTTTTTT/CTTTTTTTT	TGATTTGTCGGTCTAG CTCATC	TGGAAGAAAGGGAACA TGAA	59.3	290	INTERGENIC	--	--	--
Ca5_P1_43796946	Ca5	43796946	TTTATTATTATTATTATTATTATCA TTATTATTATTATCATTATTATTATT TATTATTATTATT/TTTATTATTATT ATTATTATTATTATCATTATTATTAT TCATTATTATTATTATTATTATTAT	AGCCTGTACGCAAAAA GCAT	GGATAACGCGGAGGT ATTGA	59.9	668	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Anneling temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_43900579	Ca5	43900579	TTATATATATATATATATATATATAT/TTATATATATATATATATATATAT	AGGCTCCCTATCAACC ACAA	CACCTAATTGGGACAA CAACTG	59.6	517	INTERGENIC	--	--	--
Ca5_P1_43918951	Ca5	43918951	CTTTT/CTTT	TTGCAAGGTAAAAAGC ACGA	ACGATGCCCCATACAA TGAT	59.5	783	INTERGENIC	--	--	--
Ca5_P1_43921147	Ca5	43921147	CTATA/CTATATA	TGGGACCAAACATGTG AAGA	TCTAATTGTTTTGATT ATCCCTCA	59.9	583	INTERGENIC	--	--	--
Ca5_P1_43997284	Ca5	43997284	TTATATATATATATATATATAT/TTATATATATATATATATATATATATATAT	TCACAAAAGTGACCGT TGAAA	TAAAGTTGTGGGTGT GCGA	59.2	826	INTERGENIC	--	--	--
Ca5_P1_44089107	Ca5	44089107	AAATAATAATAATAATAATAATAAT AATAATAATAA/AAATAATAATAATAAT AATAATAATAATAATAA	GCTTGTAGCTAGGCTC GACTC	TTTGGGGGCAAAGTTG ATAA	58.5	630	INTERGENIC	--	--	--
Ca5_P1_441054	Ca5	441054	GGTTTATGTT/GGTTTATGTTTATGTT	TTCAAAAGAACTCGC CGAT	CTGCACTGACAACGAA GGAA	59.8	456	DRR	Ca_18197	--	--
Ca5_P1_44136905	Ca5	44136905	GTTTTTTTTTT/GTTTTTTTTTT	GGTTTATGCCATTTT GCTT	TTTTTCCCACTTGGT CCTTT	59.9	680	INTRON	Ca_12643	G	C2H2
Ca5_P1_44177714	Ca5	44177714	GTATATATATATATATAT/GTATATATA TATATATATAT	GGTCACGAACATCCCA AAAT	CCATGGTGAGAGGGT CAAAT	59.7	377	INTERGENIC	--	--	--
Ca5_P1_44209005	Ca5	44209005	TC/T	TCAAATGATGATGCTT ATTTTTGAA	TCATTTTCATCGATTCT TCTGTG	59.0	348	INTERGENIC	--	--	--
Ca5_P1_44210267	Ca5	44210267	A/AG	TCGTGGTGGGTGTAAT TGAA	ACGGTTGAGAATTGAG TGGC	59.8	368	INTERGENIC	--	--	--
Ca5_P1_44239223	Ca5	44239223	ACGC/AC	AGCGGTTCTCTTGATT GGAA	TCCACAATGGGATGGA ATTT	59.8	141	INTERGENIC	--	--	--
Ca5_P1_4427652	Ca5	4427652	CTATATATATATATATATATATATAT AT/CTATATATATATATATATATATA TATATATATATAT	CCTATAGGCCCACTAA GCCC	GAACGGATTATTGGCT TGGA	59.9	757	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_44414570	Ca5	44414570	GATATATATATATATATATATATATA /GATATATATATATATATATATATATA	TTGATGATCCAACAA TTCAA	AAGTTAAGAGACGCG TGAA	59.0	292	INTERGENIC	--	--	--
Ca5_P1_44499722	Ca5	44499722	ATTT/ATT	TTTTTGTTCGAGCAC TGAC	CAATATGGTGATGGCT TCCC	60.0	462	INTERGENIC	--	--	--
Ca5_P1_44596809	Ca5	44596809	ATT/ATTT	TTGGCACATGCTTTT GTT	GACCAATCTTGTGT TGCAGA	60.0	582	INTERGENIC	--	--	--
Ca5_P1_44597112	Ca5	44597112	CTATA/CTATATATA	GGGGTTAGTCAAGC AAAT	GTTGCACGTGATGAA CAAT	61.2	862	INTERGENIC	--	--	--
Ca5_P1_44603167	Ca5	44603167	TA/TAA	TCAATCCTGTTTGCTT GCTT	TTTGGTCGCGTGATAT GAAA	59.9	637	DRR	Ca_03902	T	--
Ca5_P1_4465691	Ca5	4465691	GA/G	TGCGCTAGAATCATAC ATTGC	TTTTGGATTTCTTTT GGGTC	59.0	643	INTERGENIC	--	--	--
Ca5_P1_4470545	Ca5	4470545	TGT/TGTCGCGTCGT	GATTGAACTTGGTGC GATT	AATTCCAAACCAACC CTCC	59.9	557	INTERGENIC	--	--	--
Ca5_P1_44712842	Ca5	44712842	GAAAAAAAAA/GAAAAAAAAA	CGCCATTGAAACTTG GACT	CAGGCACTTCCATCTC CAAT	60.1	749	INTERGENIC	--	--	--
Ca5_P1_44737033	Ca5	44737033	CTTTTTTTTTT/CTTTTTTTTTTTTTT	CGAATTCGATTTTGG TTTTTC	TGCGGTTTGATTGAT TTTG	59.8	470	INTERGENIC	--	--	--
Ca5_P1_44783564	Ca5	44783564	ATTTTTTTTTT/ATTTTTTTTTTTT	ATTACGGTAGCGGAT CAAC	AATCCGTGGAACCAAT TTTT	60.0	487	INTERGENIC	--	--	--
Ca5_P1_44844449	Ca5	44844449	A/AGCCTGG	GGCTACCGAATATGGA ACGA	ACCGACTGTTGCTGGT TTTC	59.9	520	INTERGENIC	--	--	--
Ca5_P1_44933260	Ca5	44933260	AT/ATATCATT	CTTTGATGGACTCTGC GTGA	CCATTTGGGTAGTGA TGGG	60.0	837	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_45074324	Ca5	45074324	AATTATTATTATTATTATTATTATT/ATT	GCCTAAGACGGTGAATCGAA	AGCTCGGTAGAAAGTCGCTG	60.2	585	INTERGENIC	--	--	--
Ca5_P1_45086826	Ca5	45086826	TA/TAA	CAAACGCAAAATTAACACACAA	AATACAGCTGGGTTGTGGC	60.0	367	INTERGENIC	--	--	--
Ca5_P1_45087098	Ca5	45087098	C/CG	ATGAAGGAGGAGGGGAGAAA	AATCCGTACACAAAGGCAGAC	60.0	237	INTERGENIC	--	--	--
Ca5_P1_45093671	Ca5	45093671	AATATATATATATATATATATATATATATATATATA/AAATATATATATATATATATATATATATATATATA	AAAGGAGAAGAAAGTCCAAGG	AAACACATGCGCTTTCAATTG	60.1	727	INTERGENIC	--	--	--
Ca5_P1_45094101	Ca5	45094101	A/AG	TTCAATGAAAGCGCATGTGT	GAAAAGGGTTCGGATGGATT	60.3	379	INTERGENIC	--	--	--
Ca5_P1_45094437	Ca5	45094437	TG/T	AATCCATCCGAACCTTTTC	TTGTCAATGTTGCATGTCTGAA	60.1	259	INTERGENIC	--	--	--
Ca5_P1_45098220	Ca5	45098220	ATTTTT/ATTTTTTT	ATGTTCGAAACGCTGATTCC	TTGCCAAGCCTTTGA AACT	60.1	121	INTERGENIC	--	--	--
Ca5_P1_45112094	Ca5	45112094	TTATATATATATATATAT/TTATATATATATATAT	TCATCCACACCTCACC TTGA	GGTCAATCTTAAACTCGACCA	60.1	589	INTERGENIC	--	--	--
Ca5_P1_45138854	Ca5	45138854	TAAAAACAAAAACAAAAACAAA/TAAACAAAA	TGGTGAGATGTGGTCA TGAAA	CGGGTTTTACCTACCCAT	60.0	637	INTERGENIC	--	--	--
Ca5_P1_45182561	Ca5	45182561	AATATATATATATATATATATATAT/AAATATATATATATATATATATATATATAT	TAGATATCCGAATCGGCCTG	TGACTTGATTCGGGTGATGA	60.0	272	DRR	Ca_03960	--	Trihelix
Ca5_P1_4524920	Ca5	4524920	T/TCCTCTTC	CTTGACACAGCAGCACGAAT	GGGTGTGGAGCTTTGGTTA	60.1	343	INTERGENIC	--	--	--
Ca5_P1_45249723	Ca5	45249723	A/ATG	CGTACGTTGCAACTGTTTATCTT	TAAAGGACCAAGTCGGGAAA	59.7	476	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/P)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca5_P1_45351957	Ca5	45351957	CAATAATAATAATAATAATAATAAT AATAATAATAATAATAATA/CAATA ATAATAATAATAATAATAATAATAA TAATAATAATAATAATAATAATA	CAACAACAACAACAAC AACAACA	TCCGACAATTTTACTA TTTACCCA	59.5	127	INTERGENIC	--	--	--
Ca5_P1_453755	Ca5	453755	TAAATTAAATTTAAATTTAAAT/TAAA TTAAATTTAAAT	TGGAGTTGTCACGATT TGGA	TGCCACAAAACAAGTC ATTCA	60.1	313	INTERGENIC	--	--	--
Ca5_P1_45435433	Ca5	45435433	AATATATATATATATATATATATATA TATAT/AATATATATATATATATATAT ATATATATATATATATATAT	GTTTGGAGAAATTTGGG GGTT	TGCGTTTGAAGATAAG TCAGATG	60.0	933	INTERGENIC	--	--	--
Ca5_P1_45449782	Ca5	45449782	GAAAAAAAAA/GAAAAAAAAA	TCCATATTCGGTAGCC GTTT	TGATGCACCCAAAAAT ACGA	59.9	579	INTERGENIC	--	--	--
Ca5_P1_45463383	Ca5	45463383	TTCTCTCTCTCTCTCTCT/TTCTCT CTCTCTCTCTCTCTCTCT	ACTTCTCCAATTTTGG GGCT	CCTACCCAAACCCTAC CCAT	59.9	143	INTERGENIC	--	--	--
Ca5_P1_4548661	Ca5	4548661	TCCCAACAAACCC/TCCC	CAACCAAGCAAAAG GGAA	GAGGTTGGCCTCTTCT TCCT	60.1	397	INTERGENIC	--	--	--
Ca5_P1_45511101	Ca5	45511101	TA/TAA	CAAGGTTTCTCTTTTCG CTGC	CTCAAATGGTCCCT GAAA	60.1	539	INTRON	Ca_03998	T	--
Ca5_P1_456196	Ca5	456196	CTTTTTTT/CTTTTTTTTTTT	TGCCTACAACCACACA TGCT	CGTTTTCCGATTCATG CTTT	60.2	685	INTERGENIC	--	--	--
Ca5_P1_45631773	Ca5	45631773	A/AGTTATGT	AAAGAATCAGCAATTT GGCG	TCATGAAAGTCCCAT CAAA	60.2	173	INTERGENIC	--	--	--
Ca5_P1_456689	Ca5	456689	GGAAACGAAAACG/GGAAACG	TGTTGAGTTTTTGAC AGGC	TGAAAGGAGTCGGTTT TGTG	59.9	257	INTERGENIC	--	--	--
Ca5_P1_457302	Ca5	457302	CG/CAAAGACCGTTGTG	CACAAGAAAGGGAATG ACACTG	ACCACACAACCTTTGGG CTTC	59.6	643	DRR	Ca_18199	--	--
Ca5_P1_45795356	Ca5	45795356	GTTTTTTTTT/GTTTTTTTTTTT	ACGGCTTTGGAAATGA TGAA	CCATCGATTTCACTGT GTCA	60.4	404	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_45920486	Ca5	45920486	AA/ATAATAATAATA	TTTGGTTTGAACCGGA AAAC	AACACGCGAGCAAATT CTTT	59.8	405	INTERGENIC	--	--	--
Ca5_P1_45930363	Ca5	45930363	TATTAATTAATTAATTAATTAATTAATT/ TATTAATTAATTAATTAATTAATT	TAACGCACAAACCCTA ACCC	GACCCAACCAACACT TGTC	59.9	791	INTERGENIC	--	--	--
Ca5_P1_45989618	Ca5	45989618	TAAAAAAAAA/TAAAAAAAAA	TTGCTCCTCTGGTCT CACT	GTTGGCTTTCGTACCC TCAA	60.0	325	INTRON	Ca_04045	--	SAP
Ca5_P1_46004861	Ca5	46004861	CTTTTTTTTTT/CTTTTTTTTTT	ACTACTTCACGATGGC CCAC	CGTAATTCCAATGGC GACT	60.0	579	INTERGENIC	--	--	--
Ca5_P1_460106	Ca5	460106	ATTT/ATTTT	ACACATACCCAAAGG ATGC	CCCCAGCAGTCGGTA AAATA	59.7	541	INTRON	Ca_18199	--	--
Ca5_P1_46034269	Ca5	46034269	TC/T	GGAGCAATGGCTACGA GAAG	TCGTTGGATATTTGG TATGACA	60.0	847	DRR	Ca_04051	--	--
Ca5_P1_46056306	Ca5	46056306	GTTATTATTATTATTATTATTATTATT TTATTATTATTATTATTATTATTATTATT TATTATTATTATTATTATTATTATTATT ATTATTATTATTATT	TTGTTTGGTCCACATT CCTG	GGAGCATATCAATGGA AAATCA	59.4	779	INTERGENIC	--	--	--
Ca5_P1_46070562	Ca5	46070562	AATATATATATATATATA/AATATAT ATATATATATA	TGGCAAAATTCATACG TGGA	AAAACCGTTCCAACAT CCAT	59.9	515	INTERGENIC	--	--	--
Ca5_P1_46113202	Ca5	46113202	TT/TTTTCT	CATCCATTTCTTTTGG AGG	ACCAGAAAGAGCCTTT CCAA	59.4	405	INTRON	Ca_04059	QR	B3
Ca5_P1_46132848	Ca5	46132848	TTTATTATTATTATTATTATTATTATT TTATTATTATTATTATTATTATTATTATT TATTATTATTATTATTATTATTATTATT	TGTACCGTCACATTGC ACCT	TACTGTATCAACGCCG CAAG	60.0	771	INTERGENIC	--	--	--
Ca5_P1_46208612	Ca5	46208612	AAT/AATAT	ATGCAGCACAAAATGC AAGT	TTCGAATCTTATTTTGA CAATTTT	59.4	502	INTERGENIC	--	--	--
Ca5_P1_46212141	Ca5	46212141	AATGATG/AATG	AAAAATCAATCCTTTCT CCAATG	AGTTTCAAAAACGGTG GTGG	58.6	107	INTERGENIC	--	--	--

[illegible]

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_46495042	Ca5	46495042	A/ATTATTT	TGGTTGAATAGATGTG CCAAA	AAACACTGTGCTATGG GCTG	59.0	971	INTERGENIC	--	--	--
Ca5_P1_46553467	Ca5	46553467	CTT/CTTT	ATTTGTCGGGACAAGA GCAT	TTTTGAACAATACTTCT CCTTCTGG	59.6	932	INTERGENIC	--	--	--
Ca5_P1_4662103	Ca5	4662103	AATATATATATATATATATATATATA T/AATATATATATATATATATATATAT ATAT	GACTGCGGTAGGCATT TAGC	CCAATTACGGCACAAA CACA	59.9	543	INTERGENIC	--	--	--
Ca5_P1_46637208	Ca5	46637208	TGAG/TGAGAG	TGGACTTAGTGGGCTT ATGG	TATGGCATGAGCTGT CAAA	59.9	361	DRR	Ca_04123	V	--
Ca5_P1_46654455	Ca5	46654455	AATATATATATATATATATATATATA T/AATATATATATATATATATATATAT ATAT	ATGCTCTTGAATCGT GGTC	CATCGTTTTCTCGTTC ATGC	60.1	781	INTERGENIC	--	--	--
Ca5_P1_46661039	Ca5	46661039	AATATATATATATATATATATAT/AATA TATATATATATATATATATATAT	TGGAATTCAAGGGACC AAAA	ACTTGCAGATAATTT AGTAGGGA	60.3	863	INTERGENIC	--	--	--
Ca5_P1_46676212	Ca5	46676212	ATTTTTTTTT/ATTTTTTTTTT	GCCACCACCTCCAA CTAT	TTGAGATGGGACTTTG GAGC	59.9	880	INTERGENIC	--	--	--
Ca5_P1_46718733	Ca5	46718733	ATT/AT	TGGACATGACCACTAA CCCA	TGCACCGTATGTTGT AGCA	59.8	131	INTERGENIC	--	--	--
Ca5_P1_46886435	Ca5	46886435	T/TAACTATACTCAAAC	CAGCCATGCTCGTATG CTAA	AGAACCCCATCCAAAC AATG	60.0	444	INTERGENIC	--	--	--
Ca5_P1_46907716	Ca5	46907716	TTATATATATATATATATATA/TTATA TATATATATATATATATA	TAGGGAAGTGCATGGT GACA	TGCCAAAACATTATTG CCGT	60.1	527	INTERGENIC	--	--	--
Ca5_P1_47046983	Ca5	47046983	GTTTTTTTT/GTTTTTTTTT	TAAGTCAAGCCTGCGG AGAT	GCCGAATTTTAAAACT ACAATGAAA	60.0	491	DRR	Ca_04159	--	GRAS
Ca5_P1_471069	Ca5	471069	GAAATTAAATTAA/GAAATTAAATTAA ATTA	GTGACACCGTCTCGTT GGTA	AACTGGGTGAGAGCC TGAGA	59.6	314	INTRON	Ca_18200	U	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_47118403	Ca5	47118403	GTATTATTATTATTATTATTATT/G TATTATTATTATTATTATTATT	ATTCGAATAATGGGTG GCAA	TTGGGTCAAGTAGGAG GTCTG	60.2	515	INTERGENIC	--	--	--
Ca5_P1_47130554	Ca5	47130554	ATTTTTTTTTTTTT/ATTTTTTTTTTT TTTTT	TGATGACAACAACAAC CCAAG	AACTCATTTTTGCTGC CGTT	59.5	531	INTERGENIC	--	--	--
Ca5_P1_47138535	Ca5	47138535	CTATTATTATTATTATTATTATTA/ CTATTATTATTATTATTATTATTAT TATTA	TGAATCTTTCGCATT GTG	CCTGAAAGACTTAGAC GGCG	59.7	651	INTERGENIC	--	--	--
Ca5_P1_47166855	Ca5	47166855	GAAAAAAAA/GAAAAAAAA	CGTGGAAATCCATCGAA TTTT	GTGGCACCTTTTGTCT CAAT	59.8	117	DRR	Ca_04173	J	--
Ca5_P1_47213382	Ca5	47213382	CAAAAAAAAA/CAAAAAAAAA	GGATGTTGCACATCA AGGA	GCTCATGCACCTGTCT CCAA	59.5	507	INTERGENIC	--	--	--
Ca5_P1_47226447	Ca5	47226447	TTTATATTATTATTATTATAT/TTTATA TTATATTATTATTATTATAT	ACCGTTACCTTTTGTG GCTG	GAAGCTTTCACGTACG GAGC	60.0	449	INTERGENIC	--	--	--
Ca5_P1_472746	Ca5	472746	AAATAATAATAATAATAATAATAAT AATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATAA TAATAATAATAATAATAATAATAAT AATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATAA	TTGCACCAGATATCGA ACCA	AGCATTCCATCCAGCA TTGT	60.1	601	INTRON	Ca_18200	U	--
Ca5_P1_47350775	Ca5	47350775	TAAAAAAAAA/TAAAAAAAAA	ATCGTGCCCTTCACAA TAGG	AGTTGGGCGATAATTG CTTG	60.0	435	INTERGENIC	--	--	--
Ca5_P1_47386243	Ca5	47386243	TTATATATATATATATATA/TTATATA TATATATATATATATATA	CTTTTGAGGGACCAAT TTGC	CTGGCTTGCCAGTTA AAAG	59.5	456	DRR	Ca_04197	K	MYB
Ca5_P1_47512183	Ca5	47512183	GTTTTTTTTT/GTTTTTTTTTTT	TGGCATATCCCATCC CATA	TGTGGGTATAAATGAG GGGC	60.9	404	INTERGENIC	--	--	--
Ca5_P1_47553707	Ca5	47553707	GAA/GAAA	ATGATGAATGTCCGAC AACG	CAAAAGACAACCAAGG GCAT	59.4	744	INTERGENIC	--	--	--
Ca5_P1_47588093	Ca5	47588093	AT/A	TGTGGTTAGAATCTG GCTCA	TTCGAATTCAGGACAA GACG	60.6	385	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_475979	Ca5	475979	CCTCTCT/CCTCT	CCTCAAGTTGGTGAAT GGGT	TAAACCTGCATGTGTT CCCA	59.8	741	INTRON	Ca_18200	U	--
Ca5_P1_47632016	Ca5	47632016	CAGTGT/C	GGAGGTCGCTTGCTAA GTTG	AATGGCCCAACTCCTA TTCC	60.0	695	DRR	Ca_04223	S	--
Ca5_P1_47659592	Ca5	47659592	GTTTTTTTTT/GTTTTTTTTT	TTTGTGGTGCCGTC ATTA	GCAAACGCGAGTTTAG AAAA	60.0	365	INTERGENIC	--	--	--
Ca5_P1_47677095	Ca5	47677095	TTATATATATATATATA/TTATATATA TATATATA	TGGTGAGAGAGATGG GGAAG	TTGAATTATTGGAGGT TGACACA	60.2	496	INTERGENIC	--	--	--
Ca5_P1_4767750	Ca5	4767750	AG/A	AAACACCTAGTGTGG CTGG	GAAGCTCAGATGGCA CACAA	60.0	519	DRR	Ca_25889	--	--
Ca5_P1_47683586	Ca5	47683586	TAAA/TAA	AAACACGTTGCCATT GTGA	GAGCCTTTGCATTTG TGGT	60.0	965	INTERGENIC	--	--	--
Ca5_P1_4768600	Ca5	4768600	TC/TTGAGAAATCC	TTTCTTCCCAACCTT TCG	TGAAAAGCTCATGGT GATG	60.0	179	INTERGENIC	--	--	--
Ca5_P1_47692025	Ca5	47692025	ATTTTTTTTT/ATTTTTTTTT	CACCAAAAGCAGGGT TCTC	GCCTTAAAGCTTTGGG TGAA	59.8	346	DRR	Ca_04228	--	--
Ca5_P1_47714017	Ca5	47714017	GATATATATATATATATATATATA /GATATATATATATATATATATATA	ATGCGTGTGAAATTGT GCAT	TCAGCTCAGTGGATGA TTGG	60.0	402	INTRON	Ca_04232	G	C2H2
Ca5_P1_47808500	Ca5	47808500	AATATATATATATATATATATATA TATATATATA/AATATATATATATAT ATATATATATATATATATATA	CCACTCAACAATGATC GGAA	AAACTCCCAAGGAGTC CCAC	59.5	785	INTERGENIC	--	--	--
Ca5_P1_47838081	Ca5	47838081	AATATATATATATATATATATA/AAT ATATATATATATATATATATA	TACCTCATTGTAGGCC CAGC	TAGTTCGGGGCAAATG GTAG	60.1	168	INTERGENIC	--	--	--
Ca5_P1_47848320	Ca5	47848320	CATATATATATATATATATATATA TATATAT/CATATATATATATATATA TATAT	TTTGTATCAGGTTAGA CATCGTGT	TGACCAATCGAGAAG AAAAA	59.0	500	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_47848405	Ca5	47848405	GAA/GATAATATATTTTAATAA	TTTGTATCAGGTTAGA CATCGTGTT	TGACCAATCGAGAAG AAAAA	59.0	500	INTERGENIC	--	--	--
Ca5_P1_47945436	Ca5	47945436	AATATATATATATATATATATA/A ATATATATATATATATATATATAT ATATATA	ACATCAAAGCGGATC CATA	TCCTCGCAACACAC ATTT	60.3	392	INTERGENIC	--	--	--
Ca5_P1_47958751	Ca5	47958751	ACCCC/ACCCCC	TTTATGTTCTCTGCCT GGG	TGACGTATCGTGACAT ACAAAATG	60.1	311	DRR	Ca_04257	--	--
Ca5_P1_479607	Ca5	479607	AAGCCGAAT/A	TTGTCACACAATAAGG CGGA	TCATCACGATCTGAAT CCCA	60.1	674	DRR	Ca_18200	U	--
Ca5_P1_48059653	Ca5	48059653	TTCTC/TTC	CGAAACTCCACTGCAG ACAA	GCATATTTGCAAGCAC CAAA	60.0	804	DRR	Ca_04266	R	ERF
Ca5_P1_48121332	Ca5	48121332	TTTTATTTATTTATTTATTTATTT ATTTAT/TTTTATTTATTTATTTAT TTATTTAT	ATTTATGGCCAACCC AACA	ACTCGGCTTCCATTGA TGAG	60.1	178	INTERGENIC	--	--	--
Ca5_P1_48122737	Ca5	48122737	CTTTTTTT/CTTTTTTT	ATGTGACGGTTAGCCT GGAC	TAGCAAAAGGTCGCT CCTA	60.0	561	INTERGENIC	--	--	--
Ca5_P1_48164734	Ca5	48164734	AGG/AG	GGTTGCAATTATGGGA AATGTT	AACTCTAAATCCCCGC AAGG	60.0	485	INTERGENIC	--	--	--
Ca5_P1_481685	Ca5	481685	CAAAAAAA/CAAAAAAA	TTGAGGGACCAAACT GGAG	GAGTTCGCTGACAGAT GCAA	60.1	191	DRR	Ca_18201	--	--
Ca5_P1_4839266	Ca5	4839266	GATATATATATATATATATA/GATAT ATATATATATATATA	CCACCAACCATAAGTC AGCTC	CACCCCTAGAGCAACC TCAA	59.6	233	DRR	Ca_25891	--	--
Ca5_P1_4872393	Ca5	4872393	TAAAAA/TAAAAA	ACAACTTCTCATGCTC GCAA	TGTTAACTAGATTATG ACCCACGC	59.6	482	DRR	Ca_25893	R	--
Ca5_P1_495217	Ca5	495217	ATTTTT/ATTTTT	TGGCTTGCGATATGAG TTTG	TTTCATCACACCCACC AAGA	59.8	628	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_4968830	Ca5	4968830	AATATATATATATA/AATATATATATAT ATA	TTTCCAAAGTACAACG CATCA	TTGGAGAAACTTTTCC GCTG	59.2	529	INTERGENIC	--	--	--
Ca5_P1_4970490	Ca5	4970490	T/TG	ATTCTACGCGATTAC CACG	CCCGTGATAGGCAGTA CGTT	60.0	528	INTERGENIC	--	--	--
Ca5_P1_4992426	Ca5	4992426	GA/GATA	ATCGATGTAGTCAAC CCCG	GCCCCGTGTTATCCT TATT	59.8	284	INTRON	Ca_25545	A	bHLH
Ca5_P1_5122860	Ca5	5122860	TAGAAA/TAGAAAAGAAA	TATTTGGATTTTGGCT CGG	GGAGAAAGGAGGGAA TTTGG	59.9	384	INTERGENIC	--	--	--
Ca5_P1_5190851	Ca5	5190851	CTATATATATATATATATATAT/CTA TATATATATATATATATATATAT	AGCGCTATGTGACCCT TTTG	AATGTGAATCCCACCA GGAA	60.3	555	INTERGENIC	--	--	--
Ca5_P1_5223488	Ca5	5223488	TA/TATATATATAA	TTTCGAGTTTTTCGT CCAC	GTGCCAAGGCATAAAG GTGT	60.1	530	INTERGENIC	--	--	--
Ca5_P1_5235957	Ca5	5235957	TTATATAT/TTATAT	TGACACTCATTGCTCC TCCA	GGAGGAAGAGATGGA GAAACCT	60.4	593	INTERGENIC	--	--	--
Ca5_P1_5250246	Ca5	5250246	GATCTACA/GA	CTGCCGCAAAATAAGG ATGT	TGAGAAAAAGTAAACC CTGGGA	60.1	501	INTERGENIC	--	--	--
Ca5_P1_5284789	Ca5	5284789	AGAGGAG/AGAG	CACTGTCACTTTCCTC CGGT	AAATGTGCTCCAACGT TTCC	60.2	309	CDS (large-effect mutations)	Ca_22622	--	bHLH
Ca5_P1_5318962	Ca5	5318962	TC/T	ACGTTGACCAATTGAG CTCC	CACTAGGGACCCCTTG GTGA	60.1	720	INTERGENIC	--	--	--
Ca5_P1_5329618	Ca5	5329618	GAAAAAAAA/GAAAAAAAAA	CGTACTCCGAAGGAAA GCAG	GCTTGTGCAATCAAAA CACG	60.0	771	INTERGENIC	--	--	--
Ca5_P1_5334628	Ca5	5334628	CAAAAAAAAA/CAAAAAAAAAA	GGGTCTTGATGGAAC CAAA	ACGTACAACACCAAT GGCA	59.8	694	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_5350088	Ca5	5350088	ATTTTTTTTTT/ATTTTTTTTTT	TCATCTCACTGCTTGG ATGCTT	TTTGAGGGAAGTTTTC CACG	60.0	868	DRR	Ca_22625	--	bHLH
Ca5_P1_5492827	Ca5	5492827	TTTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTAT/TTTATTA TTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTATT TATTATTATTATTATTATTATTATT	TATCCCTCGATTTC TTCA	TTTTGCCTCAAAAAGT TTCACA	60.5	603	INTERGENIC	--	--	--
Ca5_P1_5579885	Ca5	5579885	TAAAAAAAAAAAA/TAAAAAAAAAAAA	ACCCCAAGAATTCCA AACC	ACCCTGTGGATGGGA ACATA	60.0	566	INTERGENIC	--	--	--
Ca5_P1_5582691	Ca5	5582691	AATATATATATATATATATATATATA T/AATATATATATATATATATATATAT	CAACACCGTTTTCTC CGTT	GAATTGGGAATTGGAG AGCA	60.0	728	INTERGENIC	--	--	--
Ca5_P1_5602407	Ca5	5602407	CATATATATATATATATATATATATA T/CATATATATATATATATATATATA TATATAT	GTTGGTCCCTAGCAC CGTA	CAATTGAGTTGCGACG AGAG	60.0	552	INTERGENIC	--	--	--
Ca5_P1_5655437	Ca5	5655437	GTAATAAATTT/GTAATAAATTTAATTA ATAATAAATTT	CGAAACATTCGAAATG CAGA	TTCTATCACCCCCACA TTCG	59.8	628	INTERGENIC	--	--	--
Ca5_P1_5702992	Ca5	5702992	ATTTT/ATTTT	CTCAAAACCCCTCCTT CCTC	ACCCCAACAAATCCT TTCC	60.0	415	INTERGENIC	--	--	--
Ca5_P1_5705191	Ca5	5705191	GAG	AATCGATTGGCTTTGA TTCG	CTCTCATCTGAGGGCA AAGC	60.0	412	INTERGENIC	--	--	--
Ca5_P1_5798731	Ca5	5798731	TTATATATATATATATATATATA/TTATA TATATATATATATATATATATATATA TA	CTTCGACACTGTAGCA CCCA	ATATTTCTGCGCATTC TCGC	59.9	217	INTERGENIC	--	--	--
Ca5_P1_5818685	Ca5	5818685	TAAAAAAAAAAAA/TAAAAAAAAAAAA	TGCACTTGCCAATTCA TATTTC	TGGGACAAAGAGCAAA GAGG	60.0	814	INTERGENIC	--	--	--
Ca5_P1_5835376	Ca5	5835376	GTTTTT/GTTTTTTT	AACACAACGTGACACC CAAA	TTGCAACTCCACTCT TCCT	59.9	476	INTERGENIC	--	--	--
Ca5_P1_5836817	Ca5	5836817	TACCCTAAACC/TACCCTAAACCCTAA ACCCTAAACC	GTATGAGGAGGATCTT GCGG	TCAAAATGCACCATAA ACCG	59.7	594	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_5837067	Ca5	5837067	ACCTAAACCCTAAACCCTAAACCCTA A/ACCTAAACCCTAAACCCTAA	AAAGAAAAACACTCGC GCTG	AGCGTTTGGGTTTAG GGTT	60.6	825	INTERGENIC	--	--	--
Ca5_P1_5888717	Ca5	5888717	AATATATATATATATATATATATATA TATA/AATATATATATATATATATAT ATATATATATATATA	TCTTGAGCTACTGGGG CTTG	CAAGTTTGAAATGGAG GGGA	60.5	882	INTERGENIC	--	--	--
Ca5_P1_5912049	Ca5	5912049	TAAATATACATCAAATATA/TAAATATA CATCAAATATACATCAAATATA	TTTTTGTGTCTCACTC GATCA	CAGTGTTAATTGGCAC GAAA	58.4	276	INTERGENIC	--	--	--
Ca5_P1_5975424	Ca5	5975424	CG/C	AGCCCAGGGAAGATGA AAAT	TTTGCCAATCGATTTT GTGA	59.9	436	INTERGENIC	--	--	--
Ca5_P1_6074643	Ca5	6074643	GATATATATATATA/GATATATATAT ATA	AAATTAAAGTTTCAAAC CACGG	ATTCCCCCTCATCTT GGAC	57.3	864	INTERGENIC	--	--	--
Ca5_P1_6199138	Ca5	6199138	TTTATTATTATTATTATTAT/TTTATTAT TATTATTATTATTATTATTAT	GCATTCCCGTATGCGA CTAT	GGCACATGTTATTTGT TTTGG	60.0	511	INTERGENIC	--	--	--
Ca5_P1_6200121	Ca5	6200121	CT/CTT	TTCGCAACTCCACTCT TCCT	GATCCATTTTCCCCCA AATC	60.0	342	INTERGENIC	--	--	--
Ca5_P1_6200263	Ca5	6200263	ATT/ATTT	TTCGCAACTCCACTCT TCCT	GCCAAATTACGACGAA CACA	60.0	499	INTERGENIC	--	--	--
Ca5_P1_622630	Ca5	622630	G/GGCAACTCA	CATGCTTACCCTCTGG CCTA	ACAGCAGAATGGGGT AGTGG	60.2	651	INTERGENIC	--	--	--
Ca5_P1_6237020	Ca5	6237020	AATATATATATATA/AATATATATATAT ATA	TTTTGGATTTTGGCTT GGAG	AATGGAGGAAGGAGG GAGAA	60.0	412	INTERGENIC	--	--	--
Ca5_P1_6298851	Ca5	6298851	TAAA/TAA	CAACAACAATCTTCCC AGCA	TGGAGACTCAAGGAG GTTGG	59.7	417	INTRON	Ca_20739	--	--
Ca5_P1_6368618	Ca5	6368618	TTATATATATATATATATATA/TTATA TATATATATATATATATA	GCTTTTATCTTGGCCC TCCT	TGAACAATTTGATTGC TCGC	59.7	605	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_6369660	Ca5	6369660	TC/TCAC	GAGGAAACACGGTGAA TGGT	CGCTCACTAGTCGAAC GAGA	59.8	486	INTERGENIC	--	--	--
Ca5_P1_6401833	Ca5	6401833	GAAAAAA/GAAAAAA	CCTTTTGCACAAGCTT CACA	TTATGCATGTTGGGT TCCA	60.0	551	INTERGENIC	--	--	--
Ca5_P1_6432371	Ca5	6432371	TAAAAA/TAAAAA	TTGCTTGCAGATTTC TCCT	AGAGAGCGACCTAGT CTGCG	60.1	705	INTERGENIC	--	--	--
Ca5_P1_6450068	Ca5	6450068	CATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATT TATTATTATTATTATTATTATTA	TGCTCCACTTCAAACA ATCG	TTGTGGTTTGAAGAC CTGA	59.8	484	INTERGENIC	--	--	--
Ca5_P1_6510151	Ca5	6510151	CTTTTTTT/CTTTTTTTTT	TCGCGTTCATGATTT GTGT	CGGAGTGATAATTGGT GCAA	60.1	816	INTERGENIC	--	--	--
Ca5_P1_6532288	Ca5	6532288	AAAAAGAACAAA/AAAA	TGTCTTCAACTTTCG GGTG	TTGCAACGTGCATTG TCCT	60.0	831	INTERGENIC	--	--	--
Ca5_P1_657496	Ca5	657496	CG/C	TTTAGGTCATTTTCG CCG	ACACACCTATTGGACG CACA	59.9	482	INTERGENIC	--	--	--
Ca5_P1_6647048	Ca5	6647048	ACT/A	GGGAGGACGACAATG ACCTA	CTTGTGCATCCAATAG GGGT	59.9	663	INTERGENIC	--	--	--
Ca5_P1_6663718	Ca5	6663718	CAA/CAAA	AGGGAGGACGAAAATG ACCT	TAACCAATCTTGTGCA CCCA	59.9	171	INTERGENIC	--	--	--
Ca5_P1_6727251	Ca5	6727251	CGG/CGGG	TTTGGATTTGACTCG GAGG	AGGAAGAGTGGAGTT GCGAA	60.0	509	INTERGENIC	--	--	--
Ca5_P1_6760736	Ca5	6760736	G/GGGTCTTACAACCTGC	TGTCCCATTTCATTCA GGT	ATTGACTTCGTTTTCC ACGC	60.2	535	INTERGENIC	--	--	--
Ca5_P1_6764095	Ca5	6764095	GTATATATATATATATATATAT/GTA TATATATATATATATATATATAT	TCAATTTGGGTTTCAGG GTGT	ATGATGGGCCAGACG TTAAG	60.2	841	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_6765423	Ca5	6765423	GCAACA/GCAACAACA	CGAAGCTGCCAGGTAA AAAG	TGAGTCCATTCTCCAA ACCA	60.0	652	INTERGENIC	--	--	--
Ca5_P1_6765484	Ca5	6765484	CATATATATATATATATATATAT/CA TATATATATATATATATATATAT	CGAAGCTGCCAGGTAA AAAG	TGAGTCCATTCTCCAA ACCA	60.0	652	INTERGENIC	--	--	--
Ca5_P1_6772280	Ca5	6772280	CTTTTTTTTTTT/CTTTTTTTTT	CCAATGGCTTCGACAT TTCT	AAGTACCCTCGTTG TTTG	60.1	726	INTERGENIC	--	--	--
Ca5_P1_6772456	Ca5	6772456	GCACACA/GCACA	TGCACAACAAAGCAC AACA	TGTACCATCATAGTGG CGGA	59.9	512	INTERGENIC	--	--	--
Ca5_P1_6773384	Ca5	6773384	AATATATATATATAT/AATATATATA TATATATATATATATAT	TATTTGGATTTGGCT CGG	AAACCGGTAAATCTC CGCT	59.9	681	INTERGENIC	--	--	--
Ca5_P1_6833150	Ca5	6833150	TTTATTATTATTATTATTATTATT/T TTATTATTATTATTATTATTATTAT T	TGCTAGGAACCGAGCC TTTA	TTGGCATCGTGATTTT ATGC	60.0	924	INTERGENIC	--	--	--
Ca5_P1_6833700	Ca5	6833700	ATATT/AT	GCATAAAATCACGATG CCAA	CGATTTTTCGTCTACA TGTC	59.5	211	INTERGENIC	--	--	--
Ca5_P1_6833833	Ca5	6833833	AATA/AATATA	AAATCACGATGCCAAA GAAAA	AAGAAAGTTGTAAATG TGTTTTATGGA	59.6	616	INTERGENIC	--	--	--
Ca5_P1_6833924	Ca5	6833924	ATTT/ATT	AAATCACGATGCCAAA GAAAA	AAGAAAGTTGTAAATG TGTTTTATGGA	59.6	616	INTERGENIC	--	--	--
Ca5_P1_6834028	Ca5	6834028	AAT/AATTAT	GCACATGTAGACGAAA AATCG	ATGGCATGGTGATTTT ATGC	58.3	775	INTERGENIC	--	--	--
Ca5_P1_6834075	Ca5	6834075	ATATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTA/AT ATTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTA	GCACATGTAGACGAAA AATCG	ATGGCATGGTGATTTT ATGC	58.3	775	INTERGENIC	--	--	--
Ca5_P1_6834263	Ca5	6834263	CT/C	GCTTAATCCATAAAACA CATTTACAA	TTCTCATGCGCTTGAC TAATG	57.9	526	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_6834706	Ca5	6834706	TAAAAA/TAAAAAA	TGCATAAATCACCAT GCCA	TTGTACGTTTCTTTCT ATGATTTGC	60.9	360	INTERGENIC	--	--	--
Ca5_P1_6834979	Ca5	6834979	TATTAT/TATTATCATTAT	TAGTCAAGCGCATGAG AAAA	GGCATGATGATTTTAT GCATATTT	57.3	748	INTERGENIC	--	--	--
Ca5_P1_6834999	Ca5	6834999	TT/TTAT	TAGTCAAGCGCATGAG AAAA	GGCATGATGATTTTAT GCATATTT	57.3	748	INTERGENIC	--	--	--
Ca5_P1_6837967	Ca5	6837967	TAAAAAAAAAAAA/TAAAAAAAA	TCGAGAACAACGTC TCGTG	AATTTGCAGTGTCGCA AAAA	61.6	254	INTERGENIC	--	--	--
Ca5_P1_6872599	Ca5	6872599	ATTATTTATTATT/ATTATTTATTATT TATT	CGGCCATCACACAATG ATAA	TCAGGATGTCACCACG AAGA	60.3	454	INTERGENIC	--	--	--
Ca5_P1_6907615	Ca5	6907615	A/AGTG	GGTTGTGTTATCCCTC GACA	AGGGTGCCACATTTC TCCA	58.4	539	INTERGENIC	--	--	--
Ca5_P1_6907876	Ca5	6907876	GA/GAATA	GGTTGTGTTATCCCTC GACA	AGGGTGCCACATTTC TCCA	58.4	539	INTERGENIC	--	--	--
Ca5_P1_6908168	Ca5	6908168	GTAAT/GTAATTAAT	GGAGTAAATGTGGCAC CCTG	CCAACTAGTCGCAA AGTCA	60.4	588	INTERGENIC	--	--	--
Ca5_P1_6909501	Ca5	6909501	TATATATAATTTAAATATATAATTTAA T/TATATATAATTTAAAT	AATGATGGAGGGAGTG AAGC	AACTGTCCATTGTGA GGGC	59.1	405	INTERGENIC	--	--	--
Ca5_P1_6909628	Ca5	6909628	ATTTTTT/ATTTTTT	AATGATGGAGGGAGTG AAGC	AACTGTCCATTGTGA GGGC	59.1	405	INTERGENIC	--	--	--
Ca5_P1_6909949	Ca5	6909949	CAAAGA/CA	CCTAAGCCCTCACAA TGGA	TAAAGGGAGAAAAGCA GCCA	60.1	304	INTERGENIC	--	--	--
Ca5_P1_6910554	Ca5	6910554	A/AC	CTTTCAGGAACCAACA ACCA	CCAAATTACCAACGC CAAC	58.6	328	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_6964667	Ca5	6964667	CTAATA/CTAATAATA	CAAAATGCAGCAGCAA TCAT	CCAACGGCAAAATTG TGGTA	59.8	634	INTERGENIC	--	--	--
Ca5_P1_6972860	Ca5	6972860	AATATATATATATATATA/AATATATAT ATATATATATATATA	CACGTATGGCCAACTC TCCT	CTCCCCGTCAGATATC CAAG	60.0	879	INTERGENIC	--	--	--
Ca5_P1_6981736	Ca5	6981736	GTTTTTT/GTTTTTTT	ATAGGGTGCCCAAAC TTCC	AGCCACCTAACCCCTTG CTTT	60.2	470	INTERGENIC	--	--	--
Ca5_P1_7021214	Ca5	7021214	AAATAATAATAATAATAATAATAAT AATAATA/AATAATAATAATAATAATA ATAATAATAATAATAATAATA	CATGACAAGTTCACAA CCGC	GAGGTACGGTCTCCAA CGAA	60.2	576	DRR	Ca_21559	--	M-type
Ca5_P1_7401567	Ca5	7401567	TA/TAATAATAATAA	CGTGTGGAGAAATGA AGCA	TGCACCCTCAATTCAA GGTTT	59.8	645	INTERGENIC	--	--	--
Ca5_P1_7495764	Ca5	7495764	ATTTTT/ATTTTTT	AAGGGACAGGGGTAAA ATGG	TTGTCATCTGGCAATC CTGA	60.0	914	INTRON	Ca_18748	O	--
Ca5_P1_7520300	Ca5	7520300	ACT/ACTCT	GCACAAGGTACGGGTT AGCA	ACTGCAACTGCGACAT GAAG	61.1	414	INTERGENIC	--	--	--
Ca5_P1_7523624	Ca5	7523624	ATTTT/ATT	TGGATGAAGTTTTTCG GTGG	CCTTACCGCTACCTCC ATCA	60.9	615	INTRON	Ca_18747	O	--
Ca5_P1_7543449	Ca5	7543449	GCC/GCCC	AGCACAGCAAAAGCA AAAT	CATGCATATTGCTAT CCGA	59.9	712	DRR	Ca_18745	--	bZIP
Ca5_P1_7563946	Ca5	7563946	G/GCCA	GCAACATGGGATGATT CAGA	TGAGCATCTGGTTTTG CATT	59.5	545	INTERGENIC	--	--	--
Ca5_P1_7578564	Ca5	7578564	TAAAAAAAAAAAA/TAAAAAAAAAAAA	ACCACAGAACGGAAC AATG	AGACCAGTGACATGCT GCTAA	58.5	785	INTERGENIC	--	--	--
Ca5_P1_7579216	Ca5	7579216	A/ACTATT	TGAATTACATGCAATG AGGCA	ATGTCACGTTACGAA CCAA	60.1	604	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_7580891	Ca5	7580891	CATATAATATA/CATATAATATAATATA	TCACGTACCCCAATTT TCTTC	CGCTGTCAAGTGATGA TGCT	58.9	517	INTERGENIC	--	--	--
Ca5_P1_7584803	Ca5	7584803	TAA/TATATATATATAAAA	TGGTGGTTGTGTCTC CTCA	AATTTAGTGTCTGTGAC CGGC	60.1	477	INTERGENIC	--	--	--
Ca5_P1_7590823	Ca5	7590823	CCTACA/C	CGACCTAACCGGAGTT GTGT	TGGACACAGTTGAGAA TTTTGC	60.0	551	INTERGENIC	--	--	--
Ca5_P1_7594763	Ca5	7594763	ATAATTATAT/ATAATTATATTAATTATA T	CGAATCAAATGAATTTT GGGA	TTGCTGAAACATTTTG GTGC	59.8	436	INTERGENIC	--	--	--
Ca5_P1_7595344	Ca5	7595344	TAAAA/TAAAAA	TTGACCAAAATGTTT CAGC	GGTGACCACGATCCAT AATCA	59.7	777	INTERGENIC	--	--	--
Ca5_P1_7595427	Ca5	7595427	CAAAAA/CAAAAAAAA	TTTTTCGATTTTCATCC GGT	GGTGACCACGATCCAT AATCA	59.4	549	INTERGENIC	--	--	--
Ca5_P1_7595864	Ca5	7595864	TAAAA/TAAAAA	TCAATGTCACAGTTTG GAAGA	CGGAACCAAGGCAG AAATA	59.3	767	INTERGENIC	--	--	--
Ca5_P1_7602893	Ca5	7602893	GAAAA/GAAA	CCAATTTCTTGACTCAA AATCCA	TGCATCCAACCATGTG CTAT	60.3	643	INTERGENIC	--	--	--
Ca5_P1_7603814	Ca5	7603814	TATAAG/TATAAGATAAG	ATCAGTCGAAGCCAA CCAC	CTTCGTCCAAAGCCAT TTTT	60.1	470	INTERGENIC	--	--	--
Ca5_P1_7605151	Ca5	7605151	CCAA/CCAAATTCAA	GTGAGTGGAAAAGAGC GAGG	TGAACGACCTAGCTA AAGCA	60.0	685	INTERGENIC	--	--	--
Ca5_P1_7605369	Ca5	7605369	T/TCAAAA	CGAAGATGGGAACCAA CACT	TATTTGAGCCGAACCG AATC	60.0	760	INTERGENIC	--	--	--
Ca5_P1_7606226	Ca5	7606226	GTTATTATTATTATTAT/GTTATTAT TTATTATTAT	GATTCGGTTCGGCTCA AATA	GTGGGACTCCAGTGG AAGAA	60.0	693	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_7619899	Ca5	7619899	ACC/AC	TTCATGGTGTCTGCTT GTCC	TTGATCAGATGCACC ACTT	59.7	261	INTERGENIC	--	--	--
Ca5_P1_7623583	Ca5	7623583	CCGTATTAA/C	TCGTTCTTAAGTCGGT TGCC	AAGTCGGTCGTCCGTA TGAA	60.2	106	INTERGENIC	--	--	--
Ca5_P1_7624742	Ca5	7624742	TTTTTATTTTATTTTATTTA/TTTTTAT TTTATTTTA	GCTGAATGCACGTTGA AAAG	TTTTTGTGGTTTTCG GAGG	59.5	589	INTERGENIC	--	--	--
Ca5_P1_7624849	Ca5	7624849	CG/CGG	GCTGAATGCACGTTGA AAAG	TTTTTGTGGTTTTCG GAGG	59.5	589	INTERGENIC	--	--	--
Ca5_P1_7630870	Ca5	7630870	GTAGTAGTAATTAGTAGTAATTAG/GT AGTAGTAATTAGTAGTAATTAGTAGTA ATTAG	GAAACATCTTTGCCG CATT	TTATGAAGGCCATTCT TCCG	60.1	379	DRR	Ca_18740	--	--
Ca5_P1_7634959	Ca5	7634959	TAAAA/TAA	TTTGGTGAGAAAGG GACACA	GAGCTTTGGGAGAGTT GGAG	59.5	377	INTERGENIC	--	--	--
Ca5_P1_7636748	Ca5	7636748	AGTG/AG	TAACCAAAAAACCAATC CCCC	CGCGCGCATATAATAA TTGA	60.8	486	INTERGENIC	--	--	--
Ca5_P1_7639450	Ca5	7639450	AAGTTAGTT/AAGTTAGTTAGTT	AACCAAGCCAACCTCA ACAG	CCCTTTCATGCCAACA AAAT	60.1	392	DRR	Ca_18738	--	B3
Ca5_P1_7639779	Ca5	7639779	TACACA/TACA	ATTTTGTGGCATGAA AGGG	GATGTTGTGGCGATG AAAA	59.8	565	DRR	Ca_18738	--	B3
Ca5_P1_7661539	Ca5	7661539	CA/CATA	GATAGGTGGTGGGTG GGTC	GGAACCACTGCGTTGA AAAT	60.0	720	DRR	Ca_18734	A	--
Ca5_P1_7661611	Ca5	7661611	ATTTTTTT/ATTTTTTT	CCCCAAAATCTTAAATC CGA	GGAACCACTGCGTTGA AAAT	58.9	327	DRR	Ca_18734	A	--
Ca5_P1_7662046	Ca5	7662046	TAGAAG/TAG	ATTTTCAACGCAGTGG TTCC	TTCGGTTTTGGGATGT GTTT	60.0	671	DRR	Ca_18734	A	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_7663256	Ca5	7663256	GTTT/GTT	TTGTTGCACTGACCGA GTGT	GAAATTTTACTCGCG TGGA	60.4	795	DRR	Ca_18734	A	--
Ca5_P1_7663343	Ca5	7663343	CAAAAAAAAA/CAAAAAAAAA	GTTGTGCCACATCTT TTCC	GAAATTTTACTCGCG TGGA	60.4	600	DRR	Ca_18734	A	--
Ca5_P1_7663690	Ca5	7663690	ATT/AT	ACAGGGTGATTCAAGC AAGG	TCTTCGCCGTTCTGAT TCTT	60.1	610	INTRON	Ca_18734	A	--
Ca5_P1_7663713	Ca5	7663713	AG/A	ACAGGGTGATTCAAGC AAGG	TCTTCGCCGTTCTGAT TCTT	60.1	610	INTRON	Ca_18734	A	--
Ca5_P1_7663972	Ca5	7663972	C/CAG	CTATGCCCAGCAACAC CTTT	CTTCGCCGTTCTGAT CTTC	60.1	542	INTRON	Ca_18734	A	--
Ca5_P1_7665220	Ca5	7665220	GGAATA/G	ATTTCGCTGTTTTC CTTT	TTGCTGCAACTTCTG GTTG	59.9	522	INTRON	Ca_18734	A	--
Ca5_P1_7665507	Ca5	7665507	GTT/GTTT	ACTCTGCACCCCG TTTC	GGCTTTGTCTCTGCG ATTC	60.2	391	INTRON	Ca_18734	A	--
Ca5_P1_7666528	Ca5	7666528	TAAAAAA/TAAAAAA	CGGGACCACATTAAAG GCTA	CCAACATCCCCAGCTA AAGA	60.0	648	INTRON	Ca_18734	A	--
Ca5_P1_7669866	Ca5	7669866	TAGAA/TAGAAGAA	AAATTTGCGCAATGTT GTGA	TATTTGCCATGCACA TGCT	60.1	516	INTRON	Ca_18734	A	--
Ca5_P1_7670175	Ca5	7670175	CAAG/CAAGTAAG	AAATTTGCGCAATGTT GTGA	AAAGGAAGCTGAGCAA GCTG	60.1	921	INTRON	Ca_18734	A	--
Ca5_P1_7672442	Ca5	7672442	GATTTTATTTTATTTTATTTT/GATT TTTATTTTATTTT	TGTGTGCAACACAGCA ACAA	ACGTGAGGATAACCAC CCAC	61.0	487	DRR	Ca_18733	K	MIKC
Ca5_P1_7672525	Ca5	7672525	GAAAAAA/GAAAAAA	TGTGTGCAACACAGCA ACAA	GAACCAATTCGTGG ATGG	61.0	674	DRR	Ca_18733	K	MIKC

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_7672616	Ca5	7672616	TAAAAA/TAAAAA	TGACTAGCCACGTCAG CACT	GAACCAAAATTCGTGG ATGG	59.6	477	DRR	Ca_18733	K	MIKC
Ca5_P1_7673269	Ca5	7673269	GAAA/GAAAA	ATCCTGAAACATTTGG TCCG	AATGTTGAAGTCGCAA ACCA	59.8	369	DRR	Ca_18733	K	MIKC
Ca5_P1_7674333	Ca5	7674333	CAAAAAAA/CAAAAAA	GCAAAAGCCACACATC AGAA	TCAAAATTTGCCTCTTT CTCTTTC	59.8	252	INTRON	Ca_18733	K	MIKC
Ca5_P1_7678503	Ca5	7678503	ATT/A	AATTTGACCAAGCAA TCGG	CAAAGGGAACCATGCA GTCT	59.9	166	INTRON	Ca_18733	K	MIKC
Ca5_P1_7679855	Ca5	7679855	TAA/TAAA	AGCCCAAGTATGGGA CAAG	CTTTTGCCTTCCACT TTCG	59.1	101	INTRON	Ca_18733	K	MIKC
Ca5_P1_7680447	Ca5	7680447	AG/AGG	TGTTCTCGTCAACTT CATCC	AATCAACCGCTTAGC TTGC	60.1	867	INTRON	Ca_18733	K	MIKC
Ca5_P1_7681692	Ca5	7681692	CAAAA/CAAAAA	CCTCTCCCCATTTTCA ACA	TCATCATCGATTGGAT TTGC	59.9	160	INTRON	Ca_18733	K	MIKC
Ca5_P1_7681766	Ca5	7681766	C/CT	CCTCTCCCCATTTTCA ACA	TCATCATCGATTGGAT TTGC	59.9	160	INTRON	Ca_18733	K	MIKC
Ca5_P1_7682051	Ca5	7682051	CAAAAAA/CAAAAAAA	CCTCTCCCCATTTTCA ACA	TGGGATTCCAAATTTT TCCA	59.9	856	INTRON	Ca_18733	K	MIKC
Ca5_P1_7683843	Ca5	7683843	TAAAAAA/TAAAAA	CACCACACAAGACGG AAAA	GCAGCCTTCCAAACA AAAA	59.6	270	INTRON	Ca_18733	K	MIKC
Ca5_P1_7684742	Ca5	7684742	CATGTAA/CA	TTAGTGGCTGAAGTGG GAGAA	TCACTAAAACCCCGC ATCA	59.9	801	INTRON	Ca_18733	K	MIKC
Ca5_P1_7694881	Ca5	7694881	CTTTT/CTTTATTAGATTTT	CCGACCAAGTGTGTT CTTT	CATTGGTCATTGTGCG CATC	60.0	596	INTRON	Ca_18733	K	MIKC

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_7695185	Ca5	7695185	TAAGAA/TA	CCGACCAAGTGTGTTCTTT	CATTGGTCATTGTGTCATC	60.0	596	INTRON	Ca_18733	K	MIKC
Ca5_P1_7695472	Ca5	7695472	A/AGTTG	GATGCGACAAATGACCAATG	CAAAGGGTTCTTAACACATGGA	59.9	239	INTRON	Ca_18733	K	MIKC
Ca5_P1_7695573	Ca5	7695573	GTATA/GTA	GATGCGACAAATGACCAATG	GGCAAATTGCAAAAGGAAA	59.9	802	INTRON	Ca_18733	K	MIKC
Ca5_P1_7695635	Ca5	7695635	T/TG	GATGCGACAAATGACCAATG	GGCAAATTGCAAAAGGAAA	59.9	802	INTRON	Ca_18733	K	MIKC
Ca5_P1_7696426	Ca5	7696426	TAA/TA	TGGTGGCAATGCTTGTCTA	TCTCTTGGCCACTCAATCCA	60.3	476	INTRON	Ca_18733	K	MIKC
Ca5_P1_7696679	Ca5	7696679	AGTATGTA/AGTA	TGTCTTGTCTAGCCGTCAA	ATGGAATTGGAAGGTGGGT	59.4	904	INTRON	Ca_18733	K	MIKC
Ca5_P1_7696740	Ca5	7696740	A/AAT	TGTCTTGTCTAGCCGTCAA	ATGCACAAGTAGGGTCGAGG	59.4	978	INTRON	Ca_18733	K	MIKC
Ca5_P1_7697415	Ca5	7697415	AT/ATATT	CCTCGACCCTACTTGTGCAT	CAAACGGTTGAAGACCACCT	60.1	625	INTRON	Ca_18733	K	MIKC
Ca5_P1_7707739	Ca5	7707739	A/ATCCGTCATATTGGG	CATGTGCTTGTGAGTTGGCT	TTGAGATTGTTGCCTTGCAG	59.9	344	INTRON	Ca_18733	K	MIKC
Ca5_P1_7712188	Ca5	7712188	TC/T	TTCAAATTTTCGAGGGATGG	TGGAAAACGAGGTGCTATC	59.9	838	INTERGENIC	--	--	--
Ca5_P1_7714053	Ca5	7714053	TCC/TCCC	GCCTCATGAGCTATTCCTCG	CATCAAATATATGGCAACAAGCA	59.9	333	INTERGENIC	--	--	--
Ca5_P1_7731616	Ca5	7731616	CTTT/CTT	CACCGATTCTTTAGCCCAA	CAATAAAACAATGGGTCGGG	60.1	630	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_7737830	Ca5	7737830	TAA/TA	CAACTAGTGGCGGATC TTGA	CCCTGAACCAATACA TCCA	58.9	335	INTERGENIC	--	--	--
Ca5_P1_7741831	Ca5	7741831	CTTTT/CTTTTT	AATTTGGCAGGCCAAG TATG	GACCTGGACCTCTCAA ACCA	60.0	799	INTRON	Ca_18730	--	bZIP
Ca5_P1_7741851	Ca5	7741851	T/TA	AATTTGGCAGGCCAAG TATG	GACCTGGACCTCTCAA ACCA	60.0	799	INTRON	Ca_18730	--	bZIP
Ca5_P1_7767939	Ca5	7767939	TAAAAAAA/TAAAAA	CAGTCATACTGGCGAT CGAA	AGTGACCAATTTAGTG GCCG	59.8	551	INTERGENIC	--	--	--
Ca5_P1_7772446	Ca5	7772446	ATTTTTTT/ATTTTTT	ATGCTTGGCTTCAAC TTGC	TCTTCAATCAACGGTC CTCA	60.4	629	INTERGENIC	--	--	--
Ca5_P1_7786396	Ca5	7786396	GAAAAAAA/GAAAAAA	ACACAAATGGTACTGC CCAA	AAAGCATTGGGGTGAT ATGC	58.9	596	INTERGENIC	--	--	--
Ca5_P1_7787225	Ca5	7787225	AGG/AG	TGACCCAATGCATTAA ACGA	AGGGAATTGCAAGGTA ACGA	59.9	355	INTERGENIC	--	--	--
Ca5_P1_7790031	Ca5	7790031	AATCTAATTTTAATGATCTAATT/AATC TAATTTTAATGATCTAATTTTAATGAT CTAATT	TTGGGGTTTTTCTCAT TTTC	CCCATCACTACCCCAA AGAA	58.9	555	INTERGENIC	--	--	--
Ca5_P1_7812067	Ca5	7812067	CTT/CTTT	CCGTGGCTTTTTCTTG ACAT	CAACTTAATGACGCCC CACT	60.1	654	INTERGENIC	--	--	--
Ca5_P1_7812949	Ca5	7812949	TGG/TG	AGTGGGGCGTCATTAA GTTG	CATTTTGGGAATGGTG GTTC	60.0	746	INTERGENIC	--	--	--
Ca5_P1_7828844	Ca5	7828844	TAAA/TAA	TGAAACTCGAAAGAG CGGT	GCCGATGCGTAGATC GTAAT	60.0	791	DRR	Ca_18728	--	--
Ca5_P1_7836152	Ca5	7836152	CCTATACCA/CCTATACCACTATACCA	CCTGCACAACTGCAAG GTAG	ATATGAACATGGCAGG CACA	59.5	350	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_7836232	Ca5	7836232	TGAAA/TGAAAGAAA	CCTGCACAACCTGCAAG GTAG	ATATGAACATGGCAGG CACA	59.5	350	INTERGENIC	--	--	--
Ca5_P1_7844152	Ca5	7844152	TT/TTAT	GGTATGCACCCAATTT GACC	CAGGAATGGGAAGCA ATGAT	60.1	771	INTRON	Ca_18726	--	FAR1
Ca5_P1_7845099	Ca5	7845099	CTTT/CTTTATTT	CCTGTCTCCTCTCTGA TGCC	TGGAATCGACTTCCCA CTTG	59.9	783	INTRON	Ca_18726	--	FAR1
Ca5_P1_7846426	Ca5	7846426	TAAAAATAAAA/TAAAAATAAAA A	GGAGCCATTTCTGTTT GCAT	TTTTTGGTGGTGCA TACT	60.1	596	DRR	Ca_18725	A	MYB_related
Ca5_P1_7853075	Ca5	7853075	TAAAAAAAAA/TAAAAAAAAA	ATCGCAATGCATGCAA AATA	CCTCTCCACAACCACC TGTT	60.1	523	INTRON	Ca_18725	A	MYB_related
Ca5_P1_7858765	Ca5	7858765	TGGGGG/TGGGGGG	GGAAATTCAGCAAGG TCCA	GGCTTTTGATCCCC ATTT	60.1	128	INTERGENIC	--	--	--
Ca5_P1_7861117	Ca5	7861117	CATGATGATGATGATG/CATGATG ATGATGATG	TGGTGCTCCATCAAG TAACC	GGGTGGTGCAATCC AAATA	60.0	912	INTERGENIC	--	--	--
Ca5_P1_7861776	Ca5	7861776	TT/TTTTATATAT	TATTTGGATTTGCACC ACCC	TGGGGTTCAAGTGCT TTCC	60.6	472	INTERGENIC	--	--	--
Ca5_P1_7862281	Ca5	7862281	TACAACA/TACA	GGAAAGACACTTGAAC CCCA	CATTTTGATGAGTCAA TTAGGTGG	59.9	651	INTERGENIC	--	--	--
Ca5_P1_7863992	Ca5	7863992	TTG/T	TCATTCAAACAATTTCA GCAAAA	TGAAAGAGAAAAGGAC ACAATGTT	59.6	833	INTERGENIC	--	--	--
Ca5_P1_7865253	Ca5	7865253	TTGT/TT	ATCAGCGAGGATGCAA AACT	TTGGTCTTCAAGCAAC TTCC	59.8	667	INTERGENIC	--	--	--
Ca5_P1_7866386	Ca5	7866386	AAAATATA/AA	TCGAAAATATCCTTCAT CGAAAA	TCAAAGGATTAGCCAA ACAAAAA	59.9	383	DRR	Ca_18723	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_7866812	Ca5	7866812	ATTT/ATT	TTTTTGTGGCTAATC CTTTGA	TGGCAATTAGTTGGCA TTTG	60.0	559	DRR	Ca_18723	--	--
Ca5_P1_7866933	Ca5	7866933	ATTTAAATTTTATTTTAAATTT/ATT TAAATTT	TTTTTGTGGCTAATC CTTTGA	TGGCAATTAGTTGGCA TTTG	60.0	559	DRR	Ca_18723	--	--
Ca5_P1_7869626	Ca5	7869626	AGG/AG	CCTAAACCGTATTGCA GGGA	GGTTTCATGCTGTAGG CGAT	60.0	403	INTRON	Ca_18723	--	--
Ca5_P1_7874012	Ca5	7874012	AAGAGAGAG/AAGAG	TCCTCCCTGCCAGACA TAAC	TGTCCCTTGCTCAAGC TTTT	60.1	966	INTERGENIC	--	--	--
Ca5_P1_7878847	Ca5	7878847	TTTTATTATTTA/TTTTATTTA	CTGATCCGACCGTTGA AGAT	TGCGACGTACGGGTTA TACA	60.1	779	INTERGENIC	--	--	--
Ca5_P1_7883851	Ca5	7883851	TTTTAT/TT	TCAAATTTGTGGTGA GCGA	GAAATGGCATGGCTCT CTGT	60.2	988	INTERGENIC	--	--	--
Ca5_P1_7886292	Ca5	7886292	CGTGTG/CGTG	CGTGTGATCATGTAGA CCGC	TGCCATTGTTATTCAT CCCA	60.1	414	INTERGENIC	--	--	--
Ca5_P1_7886991	Ca5	7886991	ATTTTTTTTTTTT/ATTTTTTTTTT	GTCCAGGTGTACAGTT CCCG	TCGCATTTTCTTAGCA CTTTTG	60.4	605	INTERGENIC	--	--	--
Ca5_P1_7892187	Ca5	7892187	CTT/CT	AGTTGTCTTACATTGG CGGG	TGAAGCCTGCCCTAGT CAAT	60.0	458	INTRON	Ca_18722	R	--
Ca5_P1_7895837	Ca5	7895837	AT/A	TTGGTTCCTTATTTTC TCCAA	TGTTCTCAACTTACCG CGTG	59.8	893	DRR	Ca_18722	R	--
Ca5_P1_7896168	Ca5	7896168	AC/A	GATCGATTTCGTGGTT TGGT	AGATTGGTTCGCGACT CTCT	59.8	476	DRR	Ca_18722	R	--
Ca5_P1_7910619	Ca5	7910619	T/TG	CTTGCCTGACATCAT TCCT	GAAGATGGAATGG GCAGA	60.1	275	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_7913105	Ca5	7913105	TG/TGG	CCTGCCGTCCTTGAAG AATA	CAGTGGATCACACAAT TGGC	60.2	180	INTERGENIC	--	--	--
Ca5_P1_7915167	Ca5	7915167	TAA/TA	GACACCCTTCACATGC CTTT	CAACCTGTCATGTCAC CCTTT	60.0	509	INTERGENIC	--	--	--
Ca5_P1_7915245	Ca5	7915245	TAAA/TAA	GACACCCTTCACATGC CTTT	TTACAGAAATCGGTCC CTAA	60.0	782	INTERGENIC	--	--	--
Ca5_P1_7915989	Ca5	7915989	C/CG	ATTAGGGACCGATTTT GTGA	GGCATGTCGGCAAAT TAAG	59.4	551	INTERGENIC	--	--	--
Ca5_P1_7918048	Ca5	7918048	AACTACTA/AACTA	TGCATGCATTTTGT GTTG	CGCATGATGCATGTCA AAA	59.2	712	INTERGENIC	--	--	--
Ca5_P1_7918404	Ca5	7918404	GTTTTT/GTTTTT	TGCATCATGCGAATTC ATTT	AGAACACACATTCTT TCTCGTT	60.0	592	INTERGENIC	--	--	--
Ca5_P1_7937565	Ca5	7937565	GT/GTT	ATCGTTTTGTTTCGGG ACTG	ATGCCCATGCATGTT GTAA	60.0	404	INTERGENIC	--	--	--
Ca5_P1_7941049	Ca5	7941049	GA/GAA	TCTCATTTCCACTTAAA CTTTCG	TAAGCAAGCCATTGCA AAAA	57.6	459	INTERGENIC	--	--	--
Ca5_P1_7952266	Ca5	7952266	GCC/GC	TTCCAGCCTTTGAGCA CTTT	GCGCTTGACAAGGAA CAAAT	60.0	588	INTERGENIC	--	--	--
Ca5_P1_7953819	Ca5	7953819	GTCT/GTCTCT	CTCCGTTGGCTCAGAA TCTC	ATTGAGCATGGCCA ACTT	60.0	383	INTERGENIC	--	--	--
Ca5_P1_7957712	Ca5	7957712	CAAAAA/CAAAAA	CTCTGCCTTGGAAGTG AAGG	GCAGAAACCTCACCCA ATGT	60.0	519	INTERGENIC	--	--	--
Ca5_P1_7963920	Ca5	7963920	CAA/CAAAA	TTGGAATTTCTGGGCA TCTC	CACATTGGAAAGACCG TCAA	60.0	321	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca5_P1_7965436	Ca5	7965436	GTTTTT/GTTTTTT	CCCAAAAGCATTGG CTTA	CCCCTGTCACAATCCA ATCT	60.1	845	INTERGENIC	--	--	--
Ca5_P1_7966801	Ca5	7966801	GTTTTTTT/GTTTTTTT	CCAAAAAGGTTGGTTT GAGC	TGGCATCAAATGCCTA CAAA	59.6	387	INTERGENIC	--	--	--
Ca5_P1_7967489	Ca5	7967489	GTTTTTT/GTTTTTTT	TTGATGCCATTGTTGA AGGA	ACAGATCACCGTTGTT TCCC	60.0	439	INTERGENIC	--	--	--
Ca5_P1_7967914	Ca5	7967914	AATATATATATATATA/AATATATAT ATATATATATA	GGGAAACAACGGTGAT CTGT	GGGGATATTTTGTGT GCGT	59.8	858	INTERGENIC	--	--	--
Ca5_P1_7968997	Ca5	7968997	TAAAAAATAAAAA/TAAAAAATAAAAA ATAAAAA	CTGAAGAGGCGGAGT GAATAA	CACAAGAAATGGAGG GTTTGA	59.5	332	INTERGENIC	--	--	--
Ca5_P1_7971766	Ca5	7971766	ACT/ACTCT	TATTACATTTCGGGG AGCA	TATTCCAGCCCCTTAG ATGG	60.3	847	INTERGENIC	--	--	--
Ca5_P1_7978058	Ca5	7978058	TTAATAATAATAATAATAATAATAA TAATAAT/TTAATAATAATAATAATAA AAT	CTCCATGCTTTTGGGT GTTT	GGTTTTGCAATGCCT GTTT	60.0	454	INTRON	Ca_18720	E	--
Ca5_P1_7978466	Ca5	7978466	CG/C	AAACAGGCATTGCAAA AACC	TGGAAGCTTTCAGGTG CTTT	60.0	265	INTRON	Ca_18720	E	--
Ca5_P1_7982148	Ca5	7982148	CC/CCTTC	CTTGATGCCATTTTGG CCGT	GGACTTTTGTGTCGG GTAA	60.1	377	INTERGENIC	--	--	--
Ca5_P1_7982642	Ca5	7982642	TTGTTGTTGTTG/TTGTTGTTGTTGAA ACTGTTGTTGTTG	AAATTGAAGGCGGTT GTTG	ACCAACGAGTGGAATC GAAG	60.0	354	INTERGENIC	--	--	--
Ca5_P1_7990785	Ca5	7990785	GTTTTTTTT/GTTTTTTTTTTTT	ATTGATCCGGTGGATG TTGT	TAATTTGCGACGCTT GACC	60.1	729	INTERGENIC	--	--	--
Ca5_P1_7992695	Ca5	7992695	TTTTATTT/TTTTATTTATTTATTT	TATCCCCAAGATTGG ATCA	AAATGGACAACGCCTC AAAC	60.1	722	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_8001503	Ca5	8001503	ATTTTTTTTTTTTT/ATTTTTTTTTT	TGGAGTTGAGACTCA TTGGTG	TCCCTTCCTCCATT CCTT	60.1	642	INTERGENIC	--	--	--
Ca5_P1_8025266	Ca5	8025266	TAAAAAAA/TAAAAAA	GATGTTGGAGGGCTTG AAAA	CCTTTTGAGAATGTTG GGGA	60.1	875	INTERGENIC	--	--	--
Ca5_P1_8025372	Ca5	8025372	AAAGAA/AAA	GATGTTGGAGGGCTTG AAAA	CCTTTTGAGAATGTTG GGGA	60.1	875	INTERGENIC	--	--	--
Ca5_P1_8026246	Ca5	8026246	TAA/TA	AACGCACAGTTTGGTT TTCC	ATGGTTGGTGTGTTC TTCA	60.0	666	INTERGENIC	--	--	--
Ca5_P1_8030712	Ca5	8030712	TAAA/TAA	GTTGGTTCTCCTCGAA ATGC	GTGCCTCAACCATGAC ACTG	59.7	543	INTERGENIC	--	--	--
Ca5_P1_8055336	Ca5	8055336	ATCT/AT	TTTGAATGTAGAGAA GCCAACA	TCATGTGCACAAAGG GAAA	58.9	537	DRR	Ca_18716	--	--
Ca5_P1_8062535	Ca5	8062535	TAAAA/TAAAAAA	TGATCATTTAGGATTT CGAAGG	CGTTTCGGAGAGCTTA AGGA	59.5	169	INTERGENIC	--	--	--
Ca5_P1_8062773	Ca5	8062773	ATTTTTTTTT/ATTTTTTTT	CCTTAAGCTCTCCGAA ACGA	TGCATGTGCATTTGTA TGAGC	59.6	683	INTERGENIC	--	--	--
Ca5_P1_8067783	Ca5	8067783	AA/AATTA	AAAAGCATGGCAAACA CTCC	TCTTTTGATGTAACCA TGCCC	60.1	306	INTERGENIC	--	--	--
Ca5_P1_8071216	Ca5	8071216	TAAA/TAAAA	ATGTCACGTTCTGTTG TCCA	TTTAGAGTGGGGCAT TTTG	60.0	273	INTERGENIC	--	--	--
Ca5_P1_8071405	Ca5	8071405	T/TTA	ATGTCACGTTCTGTTG TCCA	AAACAATTGTCCAATT AAGATTTTG	60.0	662	INTERGENIC	--	--	--
Ca5_P1_8071914	Ca5	8071914	ATTTT/ATTTTT	TTTTCGTTTCAATAATT GTTTTCTT	AATTGATTCGTGTGT GCCA	57.6	658	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_8073410	Ca5	8073410	TTTTTATTTTA/TTTTTATTTTATTTTA	CATCGGGACAACGACC TACT	ATCGCAACCTCACACA AACA	60.0	534	INTERGENIC	--	--	--
Ca5_P1_8073456	Ca5	8073456	GGCAGT/G	CATCGGGACAACGACC TACT	ATCGCAACCTCACACA AACA	60.0	534	INTERGENIC	--	--	--
Ca5_P1_8074398	Ca5	8074398	ATTTTTTT/ATTTTTTTT	GTGGCTTATTGGTAGG CGAA	GCAACTTGCCGACATC TTCT	60.1	718	INTERGENIC	--	--	--
Ca5_P1_8075742	Ca5	8075742	TC/T	TGATTACAGTGGAAATG TTGAAAAA	CGCATAGACACACTAA CTTCAGC	58.6	874	INTERGENIC	--	--	--
Ca5_P1_8080790	Ca5	8080790	AGTGTGTGTGT/AGTGTGTGTGTGT	CGGAGTTTTGTTTCGCT CTTC	ACGATCCATCCGTATT CAGC	60.0	498	INTRON	Ca_18715	C	--
Ca5_P1_8087815	Ca5	8087815	AA/AAATGTTTA	GTGGTCCACAGGAGG AGAAA	TCAAATCCGAATCGAT GCTT	60.1	884	DRR	Ca_18715	C	--
Ca5_P1_8088108	Ca5	8088108	CAAAAAAAAA/CAAAAAAAAAA	CACTGTACATGCAGTC CTTGC	TAGGCTGGGATGGAA ATCAG	59.4	604	DRR	Ca_18715	C	--
Ca5_P1_8089375	Ca5	8089375	G/GT	AAAAAGAGGGTTCATG GCAC	CGAAATTCAAATCAAA TCACTGAA	59.0	363	DRR	Ca_18715	C	--
Ca5_P1_8090658	Ca5	8090658	CTT/CTTGCTTT	GCATGTCGAATTTTC CCAT	GGACGCCTTCGTGAG ATAAG	59.8	604	INTERGENIC	--	--	--
Ca5_P1_8090888	Ca5	8090888	ATTTTTTT/ATTTTTTT	TTTCCCTCAATTCTTT TCAACA	GGACGCCTTCGTGAG ATAAG	60.0	291	INTERGENIC	--	--	--
Ca5_P1_8097767	Ca5	8097767	GAAATTTTA/GA	TGTTTCTGACAGTTCCTT TCCCA	TGGAAAGTCATGCTTT GTGG	59.8	664	INTERGENIC	--	--	--
Ca5_P1_8098608	Ca5	8098608	ATAGTACGTTA/ATA	TCGTCAATGTTTGTGC CATT	TTTCATGTTTGCAAGA AGAAGG	60.0	378	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_8100992	Ca5	8100992	AATAACAACCTTATAACAACCTT/AATA ACAACCTT	TTTCCCCTAGTTGT GCAG	AATCTCCAGCCACTTA GGCA	60.1	533	INTERGENIC	--	--	--
Ca5_P1_812188	Ca5	812188	AATATATATATATATATATATATAT/	TGTCAATTTCTGTGTTT GCTG	CGGGACCCATTGAAC ATTA	58.8	806	INTERGENIC	--	--	--
Ca5_P1_8123072	Ca5	8123072	CAA/CAAA	ACGTAGCGAGCCCTAG ATGA	CACCATGTTTGTGCC TCAC	60.0	457	INTERGENIC	--	--	--
Ca5_P1_8128415	Ca5	8128415	CTTT/CTT	TAAACCCGAGAAAGT GCAA	TGTGGCCAATATCCT TCAT	60.6	260	INTERGENIC	--	--	--
Ca5_P1_8143337	Ca5	8143337	TAAAAAAAA/TAAAAAAAAA	GTGATGGGGATGAA AATG	GTGGTCTTGCCAATT TCTT	60.0	814	INTERGENIC	--	--	--
Ca5_P1_8163313	Ca5	8163313	GAAA/GAA	CCCCGGAATCACTAGT CTTG	TGCACTGTTCTTCTC ACCG	59.5	976	INTERGENIC	--	--	--
Ca5_P1_8164282	Ca5	8164282	TAAAAAAAA/TAAAAAAAA	CTACAAACGGAGAAGT CGGG	TTGACTGATGTTAAGT ATGCACG	59.7	816	INTERGENIC	--	--	--
Ca5_P1_8165079	Ca5	8165079	CAAAAAAAAA/CAAAAAAAAAA	CACCCAACTGTAAA AATCCA	TCAAGGCACAAATTT CTGGT	58.9	233	INTERGENIC	--	--	--
Ca5_P1_818947	Ca5	818947	ATTTTTTTTT/ATTTTTTTTT	GAATGAAAGGTGGCCA AAAA	ACCAATGTTTCATGTTG CAAA	59.9	726	INTERGENIC	--	--	--
Ca5_P1_8199807	Ca5	8199807	TTATATATATATATATATATAT/TT ATATATATATATATAT	TGCATGTTCTTACGCT CGTC	AGTTATCGGTCGCTGG TGTC	60.0	704	INTERGENIC	--	--	--
Ca5_P1_8201353	Ca5	8201353	TAAAAAAAAA/TAAAAAAAAA	TTTTTCAGGAAGTCGC CATT	AAGTGGGCTTCGACC CTAAT	59.7	186	INTERGENIC	--	--	--
Ca5_P1_8211292	Ca5	8211292	CATATATATATATATATATAT/CATA TATATATATATATAT	TGCATGTTCTTACGCT CGTC	CGTAAAGTCGTGCTT GCGA	60.0	847	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_8216795	Ca5	8216795	CTTTTTTTTT/CTTTTTTTTT	CATCAGTAGGGGTTA GCCA	ACACTGCTGAGGGCC ATAAT	59.9	510	INTERGENIC	--	--	--
Ca5_P1_8241804	Ca5	8241804	ATTTT/ATTT	TGACAGGAGCTTCCCT GAGT	GTACGAACCTCCTCCC ACGA	60.0	678	INTERGENIC	--	--	--
Ca5_P1_8264167	Ca5	8264167	CAAAAAA/CAAAAA	TATGGCTGCATCAATG GGTA	TGTGTTTGGTCCCAA TTTT	59.9	597	INTERGENIC	--	--	--
Ca5_P1_8267659	Ca5	8267659	AT/ATT	TAATACACACGCAC ACGC	GTTGCTTCCCAATTG AGAC	59.2	344	INTERGENIC	--	--	--
Ca5_P1_8271486	Ca5	8271486	A/AT	GCAAGAGGCAGATGTG TTGA	TGCATTTTAAGCATT TTGACA	60.0	404	INTERGENIC	--	--	--
Ca5_P1_8287032	Ca5	8287032	GTTTCATTTTTTC/GTTTC	TGCCAAAGAAAAGGT TTCG	ATGGGCCTCCTATTGA GACA	60.2	615	INTERGENIC	--	--	--
Ca5_P1_8299145	Ca5	8299145	AC/A	GGTTTCTTTTCTTTCC CGC	GCCGCCTAATACTCAA ACCA	60.1	675	DRR	Ca_18707	--	--
Ca5_P1_8299565	Ca5	8299565	ATGTG/ATGTGTG	TGGTTTGAGTATTAGG CGGC	TTTTGGACTCCATGTG TTGC	60.1	267	DRR	Ca_18707	--	--
Ca5_P1_8300376	Ca5	8300376	GACAACAAC/GACAACAACAAC	TCCAACAATTGGCATC AAGA	AACGGTTTTAAAGCAT TGCC	60.0	389	DRR	Ca_18707	--	--
Ca5_P1_8315904	Ca5	8315904	ATTTTTTTTT/ATTTTTTTTT	TGTGTTCCGTGAGAAT TGGA	TTGTGTTTGACTGACG TGGC	60.1	700	INTERGENIC	--	--	--
Ca5_P1_8333117	Ca5	8333117	TTAATAATAATAATAATAATAA/TT AATAATAATAATAATAATAATAA A	AGTGAAACCAACGCCA AAAC	AATTCACATGCGACA ACAA	60.0	686	INTERGENIC	--	--	--
Ca5_P1_8343418	Ca5	8343418	CTTTTTTTTTTT/CTTTTTTTTTTT	CTTCGCCGTGTAAGA CGAT	GACAAAACCAAATA TTTGCCA	60.3	566	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_8489533	Ca5	8489533	G/GA	AGATATTGCAATGCCG GAAG	TTCGGTACCCACAT CTCA	60.1	320	INTERGENIC	--	--	--
Ca5_P1_8495839	Ca5	8495839	TAATTAAT	GACTTATGCCAGAATC CCCA	AAACAACAAAAGGGG GAGG	59.9	400	INTERGENIC	--	--	--
Ca5_P1_8500645	Ca5	8500645	T/TAATAA	ACTTGGGAACCCGAAG AAGT	TAACCCAAAATCCCA ACCA	60.0	452	INTERGENIC	--	--	--
Ca5_P1_8583752	Ca5	8583752	GATAATAATAATAATAATAAT AATAATAATAATAATAATAA/GATA ATAATAATAATAATAATAATAA TAATAATAATAATAA	CGATGACCATTGTTGA CACC	TCTTCTTGCGCCGAC TCTT	59.8	556	INTERGENIC	--	--	--
Ca5_P1_8707650	Ca5	8707650	CTATAT/CTAT	CCAATGAAGACTAGGG GCAC	TATTCTCTCTGCTCC ACCC	59.6	234	DRR	Ca_20329	R	WRKY
Ca5_P1_8721019	Ca5	8721019	TG/T	GCTATAGCGTGCTAT TCGG	TAAGCCTTGCAACGAC CTCT	59.9	720	INTERGENIC	--	--	--
Ca5_P1_8729583	Ca5	8729583	AT/A	TCTCTCCGCAATAGC CACT	TGGTGAAAGCATTGA TGGA	60.0	653	INTERGENIC	--	--	--
Ca5_P1_8733607	Ca5	8733607	ATTTTT/ATTTTTTT	CGACCATTGTTGTCTT GGTG	GCATCAGATGTGCAG GAAAA	60.0	274	INTERGENIC	--	--	--
Ca5_P1_8733789	Ca5	8733789	CG/CGG	CGACCATTGTTGTCTT GGTG	CCCATGTACAAAGGTG CAAG	60.0	381	INTERGENIC	--	--	--
Ca5_P1_8738764	Ca5	8738764	ATT/AT	TGTTGGTGCCAAAGAT CAAA	CCGCCACAAATTTTCT TAAA	60.1	558	INTERGENIC	--	--	--
Ca5_P1_8745458	Ca5	8745458	ATTTTTTT/ATTTTTTTTT	TGTTGGTGCCAAAGAT CAAA	CGCCACAGATTTCCTT AAAA	60.1	526	INTERGENIC	--	--	--
Ca5_P1_8745559	Ca5	8745559	AGTG/A	TGTTGGTGCCAAAGAT CAAA	CCACCGCCTTAAAGT ACAA	60.1	654	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_8747749	Ca5	8747749	CAATATAAAATAT/CAATAT	TGATGCCAAGTTTCAT CCCT	CGTCGAGCCTATTAAG GTGC	60.5	402	INTERGENIC	--	--	--
Ca5_P1_8759210	Ca5	8759210	T/TG	GCAAGGCAAAGGGGA ATTAT	AAAAATTAAGAACAAC AGGGGAA	60.3	709	INTERGENIC	--	--	--
Ca5_P1_8760155	Ca5	8760155	CTTCAATA/CTTCAATATTCAATA	TGTGGCTTGAAAAAC ACTG	TATGCCATGCCACCAC TTTA	59.7	264	INTERGENIC	--	--	--
Ca5_P1_8760945	Ca5	8760945	AAAGACGAAGA/AAAGA	TCGATGATCGTTGACA CTCC	CTGGCACTGAGAAAC CACA	59.6	575	INTERGENIC	--	--	--
Ca5_P1_8764279	Ca5	8764279	ATTTTTTTT/ATTTTTTTTTT	CGTGTGTGTCGTTCCG TATC	CTCACGCGTTTCTTA ACTT	60.0	558	DRR	Ca_20333	H	--
Ca5_P1_8768889	Ca5	8768889	GCATTTC/GCATTTCATTTC	GACAAGCAAGGTTCTGA GTCC	GCCACACGTTTACTTC CGTT	59.9	618	INTERGENIC	--	--	--
Ca5_P1_8772340	Ca5	8772340	AATATATATATATATATATATATA TATATA/AATATATATATATATATAT ATATATATATA	AATGCGACCATGATT TTCC	TCGTGCATCGAGAGTG AATC	59.8	976	INTERGENIC	--	--	--
Ca5_P1_8775780	Ca5	8775780	TTATATATATAT/TTATATATATATAT	AGATCTTCTCCGACAC CGAA	CTCACCAAGCTAGGGA ATGC	59.8	516	INTERGENIC	--	--	--
Ca5_P1_8775868	Ca5	8775868	ATTTTT/ATTTT	AGATCTTCTCCGACAC CGAA	ACCCATAAGTTTCC CACG	59.8	625	INTERGENIC	--	--	--
Ca5_P1_8776236	Ca5	8776236	GTCAT/GTCATCACATCAT	TGCAATATTCACGTGG GAAA	TTGAAATTGAAAGCGT TGGTC	59.9	549	INTERGENIC	--	--	--
Ca5_P1_8777732	Ca5	8777732	AA/AATATATA	TTGCACTCTTGTCAG CACA	ACCGTCTTGCTTAAAC GACG	59.2	590	INTERGENIC	--	--	--
Ca5_P1_8782825	Ca5	8782825	CTTATATAT/C	AGACCCTGGCTTTAAT GGGT	CATGCAATCTAGGCA ACCA	59.8	104	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_8782889	Ca5	8782889	TT/TCTTATGT	ACCCCTGGCTTTAATGG GTCT	TGCAAATGCAATGTTA AATGA	59.8	538	INTERGENIC	--	--	--
Ca5_P1_8787077	Ca5	8787077	ATT/AT	TTGAAGGAAAGGGAAT GGAA	CAATCCCCTTAACCAT GTGC	59.5	384	INTERGENIC	--	--	--
Ca5_P1_8790309	Ca5	8790309	TAAAAAAAA/TAAAAAAAAA	TGGGCAAAATTAAAC AACCA	CGAGCTCATGATCCGA AGAT	60.2	700	INTERGENIC	--	--	--
Ca5_P1_8793150	Ca5	8793150	CTT/CT	GTGGAAGGGTCGTACC TGAA	TGCAGCATCACATGTT TCAA	60.0	646	INTRON	Ca_20334	J	--
Ca5_P1_8794913	Ca5	8794913	TAAAAA/TAAAAA	TGCCATTAGTTAAAGC CCAA	CCGTTGGTGAAAGTG GAGAT	59.6	475	INTRON	Ca_20334	J	--
Ca5_P1_8796666	Ca5	8796666	AGTGATGTGATGTGATGTG/AGTGAT GTGATGTGATGTGATGTG	GTTGAAAGCCGCCAAT ACAC	ACCACACCACATCACA CCAC	60.5	354	INTERGENIC	--	--	--
Ca5_P1_8817347	Ca5	8817347	GTTTT/GTTT	ACCCATGAAAAACGGT TTGA	TTTTTCCGACTTGTC CTTT	60.2	581	INTERGENIC	--	--	--
Ca5_P1_8817457	Ca5	8817457	CGG/CGGG	TCATGTTACGATGATT GTGCTG	AAAGGGGCTGTTGAAC TTTTT	59.6	583	INTERGENIC	--	--	--
Ca5_P1_8817705	Ca5	8817705	GTTTTTTTTT/GTTTTTTTTT	AAAGGACCAAGTCGGA AAAA	TTGCTTACTATCGTGC ACTCG	58.7	623	INTERGENIC	--	--	--
Ca5_P1_8822332	Ca5	8822332	C/CT	TACACGCAACACTAGC GGAC	GCGCAAGGAACAATTT TTATG	59.9	647	INTERGENIC	--	--	--
Ca5_P1_8823123	Ca5	8823123	ATTGAAAG/ATTGAAAGTTGAAAG	TGGTTGATGTGAGTGG CTTC	CCAAATCAAAGGAGAT CCGA	59.7	573	INTERGENIC	--	--	--
Ca5_P1_8823209	Ca5	8823209	ATTTTTTT/ATTTTTTT	TGGTTGATGTGAGTGG CTTC	CCAAATCAAAGGAGAT CCGA	59.7	573	DRR	Ca_20336	A	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_8823474	Ca5	8823474	C/CT	AAAAATACGCGCACAC ACAT	CCACAAAGGCTGCATA CAAA	59.1	512	DRR	Ca_20336	A	--
Ca5_P1_8824832	Ca5	8824832	ATTTTT/ATTTTT	TTTCAGATGACCATT ATATCGG	ATCGTCGAACTCTCC TTGC	59.3	703	DRR	Ca_20336	A	--
Ca5_P1_8825106	Ca5	8825106	AAAATA/AAAATAAATA	ACACGTCTTGTGTGAG TCGC	GCAGATGAGGTGCAAT CTGA	59.9	469	DRR	Ca_20336	A	--
Ca5_P1_8827025	Ca5	8827025	CTTTT/CTTT	CATTGTGAGATGCGGA TCAC	TGCGTTTGATTTTGGT TTGA	60.1	673	INTRON	Ca_20336	A	--
Ca5_P1_8832454	Ca5	8832454	AC/A	TTCATTGAGGTTCAAT GCACA	GGTGGTTCTCAACGA AAAA	60.1	890	INTERGENIC	--	--	--
Ca5_P1_8832836	Ca5	8832836	CATATATA/CA	ATCATTGCAGGTCACG CATA	GGTGGTTCTCAACGA AAAA	60.1	352	INTERGENIC	--	--	--
Ca5_P1_8834181	Ca5	8834181	AA/AATA	TGCAACCAAAATTGTGG AAAA	GGGCAACGATTGAAA GAAAA	59.9	727	INTERGENIC	--	--	--
Ca5_P1_8837420	Ca5	8837420	TG/TGG	GCAGGAAAAATGGGTT GAGA	CAAGGGGCTGCAAAA GTAAC	60.1	326	DRR	Ca_20337	--	--
Ca5_P1_885222	Ca5	885222	GTATATATATATAT/GTATATATATA TAT	AGAGGGGTTTGTGTT GACG	TGAATTTTGAATCGGA GGCT	60.0	403	INTERGENIC	--	--	--
Ca5_P1_8855350	Ca5	8855350	AA/AATA	AAATGACAAAATTACTC ATGCGA	TTCATATACGCCGTCA CCAC	58.7	584	INTERGENIC	--	--	--
Ca5_P1_8872015	Ca5	8872015	TC/T	CAACACAAAAGTGCA TTGG	CACCAAGAAAAGCAG GAGC	60.0	424	INTRON	Ca_20339	--	bZIP
Ca5_P1_8877210	Ca5	8877210	CTTTTTTTTTTT/CTTTTTTTTTTTTT	GGAAGGATCCATTGGT CTTG	GGTGTAACTTTTAAAG CAAGGAA	59.3	552	INTRON	Ca_20339	--	bZIP

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_8877960	Ca5	8877960	AG/AGG	AAAGGAAAGATAAAGT GGAAGTGAGA	ATAGTGTGGCCCCAT TGAA	60.1	441	INTRON	Ca_20339	--	bZIP
Ca5_P1_8878154	Ca5	8878154	CAA/CAAAA	TTGTGATTGCGTTTCC AGTC	CATTTCATCCCATTC CAATGAA	59.7	192	INTRON	Ca_20339	--	bZIP
Ca5_P1_8883164	Ca5	8883164	AT/ATT	AGGTGTGGGATGAAGT TCCA	TGGAAACCAATTTGGG GTTA	60.4	321	INTRON	Ca_20339	--	bZIP
Ca5_P1_8883187	Ca5	8883187	ATAATTAA/ATAA	AGGTGTGGGATGAAGT TCCA	TGGAAACCAATTTGGG GTTA	60.4	321	INTRON	Ca_20339	--	bZIP
Ca5_P1_8924666	Ca5	8924666	ATT/ATTT	CCAAAAGCCTGTTTGA CCAT	ATTCACCTGTTTTTCC ACGG	60.0	922	INTERGENIC	--	--	--
Ca5_P1_8926074	Ca5	8926074	A/AC	GCTTATGTTTTCTCCC CTCTTTT	AATGGCAACTGTTGAG AGGG	59.2	381	INTERGENIC	--	--	--
Ca5_P1_8929713	Ca5	8929713	GA/GACA	AGTTTTGTGGCTAGGA GGCA	ATGCAAGGAGGCCATA AAAA	59.9	782	INTERGENIC	--	--	--
Ca5_P1_8930267	Ca5	8930267	GA/GAA	TTTTTATGGCCTCCTT GCAT	TGGGATTTCAATCCCA TTTG	59.5	721	INTERGENIC	--	--	--
Ca5_P1_8934749	Ca5	8934749	TAAAAA/TAAAA	GGCAAGCGAAGGTAA GTGAG	AGACTGGTGAGCAAAT TCGG	60.0	427	INTERGENIC	--	--	--
Ca5_P1_8935920	Ca5	8935920	TTTATTATTATTATTATTATTATTA TTATTA/TTTATTATTATTATTATTATTA TTA	CGAGGAAAGATGCTTT CGATT	TGATTTAGGAGCAATG AGTGTTG	60.7	393	INTERGENIC	--	--	--
Ca5_P1_8937226	Ca5	8937226	AGT/AGTGT	CCACAAGCTAGGATAC TGCCA	CGTAACCCAAGTCGCT AATCA	60.3	420	INTERGENIC	--	--	--
Ca5_P1_8937889	Ca5	8937889	ATTT/ATTTATTTT	GTGTTGGTCCGAGAAG ATCC	CTTCAAAGCAGGTGGA GTTTT	59.5	174	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_8945638	Ca5	8945638	CTTT/CTTTT	CCATCAAGGGAGTCCT CAAA	GCACCAATTTACCTT TGGT	60.0	558	DRR	Ca_20341	E	--
Ca5_P1_8945976	Ca5	8945976	TA/TATATATACA	CCCAATCTCAACAGA AGTAAGC	ATGCAGCTTTACCTCC TCCA	59.3	872	DRR	Ca_20341	E	--
Ca5_P1_8952513	Ca5	8952513	TAAAAA/TAAAAA	GCCAATCACC GCGTAT AACT	TCTTGCTTCGCCCTTA CCTA	60.0	566	INTERGENIC	--	--	--
Ca5_P1_8958147	Ca5	8958147	GC/GCC	GATGCATCAACAACCC TCCT	GTGCTCAGGTTGAGG AAAGC	59.9	329	INTERGENIC	--	--	--
Ca5_P1_8964382	Ca5	8964382	C/CAA	GGGGAGTTTAGGAGG GAGTG	AACGAATTGGAATCTG GCAC	59.9	414	INTERGENIC	--	--	--
Ca5_P1_8969612	Ca5	8969612	TAAAAA/TAAAAA	TGCAATGATGGTTTCT CCAA	TTGCTTCGATCTTGAG GTCC	60.0	562	INTERGENIC	--	--	--
Ca5_P1_8970639	Ca5	8970639	AATATATATATATATA/AATATATATAT ATATATA	GATTTTAAGCGGCCAA ACAA	CGGTCGCTAGTGTAAG AGGC	60.1	425	INTERGENIC	--	--	--
Ca5_P1_8975394	Ca5	8975394	TAAAAA/TAAAAA	GCTGTTGGAGATGCTT CAAGT	TTGACTTTCTCCCCGT TGAC	59.5	423	INTERGENIC	--	--	--
Ca5_P1_8975436	Ca5	8975436	AT/ATCT	GCTGTTGGAGATGCTT CAAGT	TTGACTTTCTCCCCGT TGAC	59.5	423	INTERGENIC	--	--	--
Ca5_P1_8975579	Ca5	8975579	CAAAAAAAAA/CAAAAAAAAA	TCATGAGGTGTTGCTC ATCG	TTGACTTTCTCCCCGT TGAC	60.8	110	INTERGENIC	--	--	--
Ca5_P1_8998541	Ca5	8998541	CAAAAAAAAA/CAAAAAAAAA	TTTGCAATCCAACAAC CAGA	GATGCTGCTGCAATCA TTTG	60.1	436	INTERGENIC	--	--	--
Ca5_P1_8999793	Ca5	8999793	CA/CAAA	CTCGATCAATGACCAG AGCA	TCACTTCTTCCCCAT TTTG	59.9	470	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_9002459	Ca5	9002459	TTATATATATAT/TTATATATATATAT	CCCAACCATGAAATGA TGAA	GCAACAACCCAAAACC TCAT	59.2	377	INTERGENIC	--	--	--
Ca5_P1_9002906	Ca5	9002906	AATTA/AA	ATGAGGTTTTGGGTTG TTGC	CAGTGTACCATGGCC AGAA	59.8	592	INTRON	Ca_19957	O	--
Ca5_P1_9003247	Ca5	9003247	TATC/T	TAAAGAAAATCCACAC CCCG	TTTATGGGTTTGGGTT GAAAA	59.8	619	INTRON	Ca_19957	O	--
Ca5_P1_9011309	Ca5	9011309	AGTTT/AGTTTATTTTTGATTTTGT	TGTGGATCATTGGAAT TGGA	TTTGGTAATTGATCGA GCCC	59.7	662	DRR	Ca_19957	O	--
Ca5_P1_9012391	Ca5	9012391	TAAAAAAA/TAAAAAAA	AGCTCATCAAGCCTCT TCCA	GTTGGCTTGGTGATT AGGT	60.1	387	INTERGENIC	--	--	--
Ca5_P1_9012575	Ca5	9012575	CAA/CAAA	AGCTCATCAAGCCTCT TCCA	AACCAACCTATGAAGC GACAA	60.1	438	INTERGENIC	--	--	--
Ca5_P1_9015474	Ca5	9015474	CT/C	TCCACACCTCATTGGT TGTC	TTGGTTGATGACGTTT AAGG	59.4	548	INTERGENIC	--	--	--
Ca5_P1_9015600	Ca5	9015600	TAC/T	TCCACACCTCATTGGT TGTC	TTGGTTGATGACGTTT AAGG	59.4	548	INTERGENIC	--	--	--
Ca5_P1_9015926	Ca5	9015926	AG/A	CCTTGAACGTCATCAA CCAA	TCACGGCATAAAGAGG ATGA	59.5	413	INTERGENIC	--	--	--
Ca5_P1_9022576	Ca5	9022576	CAAAAAAAAA/CAAAAAAAAA	TGTGCACGTGATAACA GAGTTG	CCACTATCGCTCTCGT CTCC	59.8	907	INTERGENIC	--	--	--
Ca5_P1_9024415	Ca5	9024415	TTAA/TTAATAA	CAAATTGAGCCAGTCG GAAT	TGCGCTCGAGGTAAG AATTT	60.1	551	INTERGENIC	--	--	--
Ca5_P1_9032003	Ca5	9032003	ATAAGT/AT	TCTTCTTTGGAGGTTG GGTG	CAAAGCATCAAATTC CCCT	60.1	173	DRR	Ca_19958	R	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_9075563	Ca5	9075563	T/TAC	CTCTGAAACCATGCAAGCAA	TGACGGCTGAATTGTCATA	60.0	676	DRR	Ca_19962	O	--
Ca5_P1_9112753	Ca5	9112753	TTT/TTTATT	CCACATTCATACACAAAGGGG	GGAAACTCGGGAGCCTTATC	60.1	325	DRR	Ca_19963	IT	--
Ca5_P1_9122149	Ca5	9122149	CCTCT/CCTCTCT	GCTGATGCACACCTTTGAGA	CAGAGAGTTGGTGTGCTCTGA	60.0	829	INTERGENIC	--	--	--
Ca5_P1_9123724	Ca5	9123724	AT/A	TTTTAATTGATTCGCCCTCG	CCAATTGAATCCCTGCATTT	60.0	673	DRR	Ca_19964	--	C2H2
Ca5_P1_912739	Ca5	912739	TTATATATATATATATATATAT/TTATATATATATATATAT	ACAGGAGACGAACGCAAACT	TAAAGGACCAAGTCGGGAAA	59.9	638	INTERGENIC	--	--	--
Ca5_P1_9132512	Ca5	9132512	CTTTTT/CTTTTTT	ACTTGCGGATAAAACCACTCA	TGGATTGGTGTTCAAGCATC	60.4	704	INTERGENIC	--	--	--
Ca5_P1_9132594	Ca5	9132594	CCCG/CTTAACCG	ACTTGCGGATAAAACCACTCA	TGGATTGGTGTTCAAGCATC	60.4	704	INTERGENIC	--	--	--
Ca5_P1_9133458	Ca5	9133458	AAT/AATTTTCAT	ATTGGTTTCAGTGTTGGCTC	TTGTCAAATACTCCATCAACCC	60.0	399	INTERGENIC	--	--	--
Ca5_P1_9135535	Ca5	9135535	ATT/ATTATTTTT	TGCGATTTCATGACCAAGTT	TCATGAGATTGGATGTCAAACA	59.1	397	INTERGENIC	--	--	--
Ca5_P1_9140493	Ca5	9140493	AAAGAAGAAGAAGAAGAAGAAGA A/AAAGAAGAAGAAGAAGAAGAAGAA GAAGAA	CACTAGCACCGTAGCATGGA	AATTGCGGCGAGAGAGATA	59.9	378	INTERGENIC	--	--	--
Ca5_P1_9140996	Ca5	9140996	ACCCCCC/ACCCCCCC	AAATATCTTCTCTCGCGCA	CTTGGGACTTGGAGAGCAAG	59.9	356	INTERGENIC	--	--	--
Ca5_P1_9145723	Ca5	9145723	TAA/TA	ACCCCAAAGAAATCCA AACC	TGTGTCAGAAAGGATCTTGCG	60.0	542	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_9148867	Ca5	9148867	GA/GAA	AATTCCTTGGCCTTGA GGTT	AAGTCACATCCCCAT CAAA	59.9	859	INTERGENIC	--	--	--
Ca5_P1_9155043	Ca5	9155043	AGGG/AGG	GGAGTTACGATTGCTC CACC	CAAAACAAGCAATTCC AGCA	59.6	372	INTRON	Ca_19965	--	C2H2
Ca5_P1_9161287	Ca5	9161287	TTATATATATATATATATATAT/TTAT ATATATATATATATATATATATAT	ACCCCAACAATCCATC ATGT	CACACAAGCCATGCCT TAAA	59.9	658	INTERGENIC	--	--	--
Ca5_P1_9161459	Ca5	9161459	TAAAAA/TAAAAA	ACCCCAACAATCCATC ATGT	CACACAAGCCATGCCT TAAA	59.9	658	INTERGENIC	--	--	--
Ca5_P1_9162637	Ca5	9162637	TC/T	TGGAATATTCAATAAT TAGCCGA	AGATTGCAATGTGAGA CAAGACA	59.0	306	INTERGENIC	--	--	--
Ca5_P1_9163773	Ca5	9163773	AG/A	TCTGGTCATTTTCCT GGTTG	CTCCAGCGATCTGTAA AGCC	60.0	180	INTERGENIC	--	--	--
Ca5_P1_9163864	Ca5	9163864	CT/CTT	TCTGGTCATTTTCCT GGTTG	TCTCTTTAAAAAGTCG TTGATTTGG	60.0	235	INTERGENIC	--	--	--
Ca5_P1_9172890	Ca5	9172890	TT/TTATCT	GCCTCCAAACCTGAAA CAAA	TAGCGACCACACGAAG ATGT	60.1	618	INTERGENIC	--	--	--
Ca5_P1_9174134	Ca5	9174134	CTTTT/CTTTTT	TTTTTCTTCCTTGGCAC CAT	TGGTCATGATTGGAGG TTCA	59.5	519	INTERGENIC	--	--	--
Ca5_P1_9175522	Ca5	9175522	T/TA	TTACAGGGTCGACTA ACACA	TGACATTCATGTAACA CGTGAGAA	59.2	509	INTERGENIC	--	--	--
Ca5_P1_9193373	Ca5	9193373	ACTCTTTCTCTTTCTCTT/ACTCTTTCT CTT	AGGCAAGAAGCTGATA GGCA	CAATGGTGAATCAAAC TGCG	60.1	425	INTERGENIC	--	--	--
Ca5_P1_9194215	Ca5	9194215	CATATAT/CATAT	GTGGCGCTCTAGGGAA TACA	TTGGTTTCATGACCTG CATC	60.2	456	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_9200613	Ca5	9200613	ACCCC/ACCCC	ATCCAGTACCGGAGT TTTG	TCCCGTCAGCAGCTCT TAAT	60.0	812	INTERGENIC	--	--	--
Ca5_P1_9215665	Ca5	9215665	TAAAAAAA/TAAAAAAA	GATGGACAAAAGACGG AGGA	AGATGTTGCCCTCAA GATG	60.1	488	INTRON	Ca_19968	O	--
Ca5_P1_9218240	Ca5	9218240	GATCGTAGTACAATC/GATC	TTTGTGTTTCAGCTTGT GGC	GCAGTGTGGTGGTTTT CCTT	59.9	375	INTRON	Ca_19968	O	--
Ca5_P1_9231109	Ca5	9231109	AAT/A	ATTGATGACGACGTTG CTTT	TTTTGCAATTGTGGTC CATC	58.2	634	INTERGENIC	--	--	--
Ca5_P1_9233107	Ca5	9233107	AACA/AA	CCTCGTGAAATTATGG AATGG	CGGGAGTTTTGTTAGG AAGG	59.3	588	INTERGENIC	--	--	--
Ca5_P1_9233301	Ca5	9233301	CAAAA/CAAAA	TTGTAATGCTTTGTAAT GCTTGG	TTTTGGAGGTGTGTAT TTTGA	59.2	538	INTERGENIC	--	--	--
Ca5_P1_9233438	Ca5	9233438	TA/TAA	CCTTCCTAACAAAAT CCCG	GATCCATGTTGTGATG AGATCAA	58.7	380	INTERGENIC	--	--	--
Ca5_P1_9233799	Ca5	9233799	AA/AAGA	TTGCAACTCCAAAATA CACACC	TGATGGAGGGAGGAT TTGAG	59.9	860	INTERGENIC	--	--	--
Ca5_P1_9234108	Ca5	9234108	GT/GTAGTATGTGTAGAAT	TAGGACAAGGATGGAG CGAC	TGATGGAGGGAGGAT TTGAG	60.2	201	INTERGENIC	--	--	--
Ca5_P1_9239235	Ca5	9239235	CTTTTT/CTTTT	TTGAAAATTGAACCGA ACTGG	AAACGTTTGAGTGGC AAGAA	60.0	749	INTERGENIC	--	--	--
Ca5_P1_927603	Ca5	927603	TTAATAATAATAATAATAATAATAA TAATAA/TTAATAATAATAATAATAATA ATAATAATAATAATAATAA	GGTCTTTTGAAAATAAT CTTAACGC	AAGGGGAAGTTAAG CCAGA	58.8	664	INTERGENIC	--	--	--
Ca5_P1_9308007	Ca5	9308007	GTTTTTTTTTTTTTTT/GTTTTTTTTT	TAACCCACGGAGGAAT CAAG	ATTGGTGGTGTCATGG ATGT	59.9	720	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_9348625	Ca5	9348625	TA/TACA	ATATCCCATTGTCGGT TTGA	CATTGCTAACAATCT CCACA	60.0	508	INTERGENIC	--	--	--
Ca5_P1_9349749	Ca5	9349749	TA/TAA	CATTTGAGTTGTGTG GGTTCA	TATGGTCCATTGGGG TGAT	59.5	846	INTERGENIC	--	--	--
Ca5_P1_9349928	Ca5	9349928	ATTTTTTTTT/ATTTTTTTTT	AGCATGATCTATGATG GCGA	ATATGGTCCATTGGG GTGA	59.2	365	INTERGENIC	--	--	--
Ca5_P1_9352151	Ca5	9352151	ATT/AT	TCAGAAAGCGCAAAC TATG	TTTGCCACGTCTAATG CAAA	60.1	720	INTERGENIC	--	--	--
Ca5_P1_9358955	Ca5	9358955	C/CA	TATGTGTTCTTCTTCC CCG	GACGTGTGAGCACTCC AAGA	59.9	479	INTRON	Ca_19976	Z	--
Ca5_P1_9360960	Ca5	9360960	CAAA/CAA	GAGGGACTGCAGGGT CATT	TAAACCCAGTGAAGGC AACC	60.1	421	DRR	Ca_19977	T	--
Ca5_P1_9361061	Ca5	9361061	CACAAA/CACAAACAAA	GAGGGACTGCAGGGT CATT	TAAACCCAGTGAAGGC AACC	60.1	421	DRR	Ca_19977	T	--
Ca5_P1_9361874	Ca5	9361874	TAAAAA/TAAAA	TTGCCCAAGCAATAAC ATCA	GACTGCATTGGAGCT GTGA	60.1	303	DRR	Ca_19977	T	--
Ca5_P1_9363778	Ca5	9363778	TGG/TGGG	ACCACCTTGTGTGATG ACGA	TGACCTCAATCCCATT GACA	60.0	552	INTERGENIC	--	--	--
Ca5_P1_9363832	Ca5	9363832	TAC/TACATTGAAC	ACCACCTTGTGTGATG ACGA	TGACCTCAATCCCATT GACA	60.0	552	INTERGENIC	--	--	--
Ca5_P1_939891	Ca5	939891	ATTTTTTTTTTTTT/ATTTTTTTTTTT T	GGTCTGCTTGTAGCCT TTGC	GCCCTCAGATGAGAGT CAGG	60.0	472	INTERGENIC	--	--	--
Ca5_P1_9403421	Ca5	9403421	TA/TACCTTA	GGCACTTTTCAGTCC ATTT	ACAGCAGAATGGGGT AGTGG	60.0	836	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_9416660	Ca5	9416660	TA/TAA	CCATCTTAAATCATGG TGTTGG	TTCAACTCCTTTGTTC CCG	59.2	522	INTERGENIC	--	--	--
Ca5_P1_9432735	Ca5	9432735	ATTTTTTTTTTT/ATTTTTTTTTT	TCCTGAGTGCATTAC AACAT	GCGTCTTCCAAGACAT CCAT	59.2	919	INTERGENIC	--	--	--
Ca5_P1_9434150	Ca5	9434150	TAAAAAAA/TAAAAA	CCATCGACCTCTCATT CCAG	TGACTTGGGTCAGAAA CCAG	60.6	943	DRR	Ca_19988	--	--
Ca5_P1_9436009	Ca5	9436009	TAAAAAAA/TAAAAAAA	TTTTCATTCTTTAAA ATTGAGA	CCAAAATTTCCAAGC TCCA	59.6	726	INTRON	Ca_19988	--	--
Ca5_P1_9437266	Ca5	9437266	TAA/TAAA	CCTTCTGCTCTGAAG GTTG	GGTGGCGGTAGAGTT GGTAA	60.0	561	INTRON	Ca_19988	--	--
Ca5_P1_9441399	Ca5	9441399	AATTTTATTTT/AATTTTATTTATTTT	TGCGATTGGAGAAATCA AAGC	CTAGTTTGGCTTGACG GGAA	61.3	865	INTERGENIC	--	--	--
Ca5_P1_9441477	Ca5	9441477	CAAAAAAA/CAAAAAA	TCGTGTCTCAAAATTC AAGGAG	CTAGTTTGGCTTGACG GGAA	59.4	675	INTERGENIC	--	--	--
Ca5_P1_9467922	Ca5	9467922	T/TAGCCAATAAAC	CCTCTTTGGTTCCATG TGCT	AAGCGTACCTGTGGG AATTG	60.1	489	INTERGENIC	--	--	--
Ca5_P1_9470565	Ca5	9470565	GTTTTTTTTT/GTTTTTTTTTTTTT	TGGCCATTAGTTAGTC CTTCAAA	ATGGAGCTTGCACTTG GAAT	60.0	662	INTERGENIC	--	--	--
Ca5_P1_9470792	Ca5	9470792	AAAGAAGAAGA/AAAGAAGA	TCCAGAAACAAGTTTC CTAAACA	ATGGAGCTTGCACTTG GAAT	59.2	144	INTERGENIC	--	--	--
Ca5_P1_9475021	Ca5	9475021	TAAAAA/TAAAAA	GCTAAGGTAAATCGGG GCTC	CTGGTAGAAGCGTAG CGGAC	60.1	639	INTERGENIC	--	--	--
Ca5_P1_9475046	Ca5	9475046	TAAAAA/TAAAAA	GCTAAGGTAAATCGGG GCTC	CTGGTAGAAGCGTAG CGGAC	60.1	639	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_9482541	Ca5	9482541	T/TC	TGGACGCAGGTGAATC TCAA	ATGCATTTTGAAGGT GGAA	60.1	508	INTERGENIC	--	--	--
Ca5_P1_9505944	Ca5	9505944	GTTTTTTTTT/GTTTTTTTTT	CCACACCTGAGGGAAA AGAA	TGTAACAACCATCACC GCAT	60.1	446	INTERGENIC	--	--	--
Ca5_P1_9507582	Ca5	9507582	TG/TGG	TGGTGTGCTAATTACG GGTCT	CTTCCAAGCCAATCTT TCCA	59.5	574	INTERGENIC	--	--	--
Ca5_P1_9518630	Ca5	9518630	AATA/AA	CCCTATAGCTACGGCG AAAA	TTGTTTTCATGACAAT GTATCTTTACC	59.4	409	DRR	Ca_23779	--	--
Ca5_P1_9518859	Ca5	9518859	CTTTT/CTTTT	CCCTATAGCTACGGCG AAAA	ACGGTGGCTGCATTAA AAAC	59.4	933	DRR	Ca_23779	--	--
Ca5_P1_9519577	Ca5	9519577	GAAAA/GAAAAA	GTTTTTAATGCAGCCA CCGT	AAGTATGAATCTTGA GTCATGTG	60.0	611	DRR	Ca_23779	--	--
Ca5_P1_9520123	Ca5	9520123	TAA/TA	TGAGACACATGACTCC AAGATTC	CAAATACATTTGCATC GAATTACA	59.2	484	INTERGENIC	--	--	--
Ca5_P1_9520244	Ca5	9520244	CAAAAAAAAA/CAAAAAA	TGAGACACATGACTCC AAGATTC	TCGCGTTGTTTAAAGT GTGG	59.2	754	INTERGENIC	--	--	--
Ca5_P1_9524095	Ca5	9524095	A/AC	GTCCCAATTGCCTTCT GAAA	ATCAAATGGCGGAAGC TATG	60.1	799	INTERGENIC	--	--	--
Ca5_P1_9535247	Ca5	9535247	GTT/GTAAAGTCTTTT	GGAAGTGTGGAGAAGT TGCC	GCTAGTCCTGCACCCC CTAT	59.7	915	INTERGENIC	--	--	--
Ca5_P1_9535806	Ca5	9535806	AC/A	TTTCTTCTTGAAGAGG CCCA	GCAACGCCTGCATTTT ATTT	59.9	142	INTERGENIC	--	--	--
Ca5_P1_9538658	Ca5	9538658	ATTTTTT/ATTTTTTT	GTCGTGGACGCCTACA ACTT	GTAGGACCGTTTCATGG TTGG	60.2	689	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_9542156	Ca5	9542156	AT/A	TTCTCCTGAAGCTG CGGT	ATTGCCAACATTTCCG GTAG	60.0	256	INTERGENIC	--	--	--
Ca5_P1_9542507	Ca5	9542507	TGGGG/TGGGGG	CTACCGGAAATGTTGG CAAT	TTGATGGGGTATGAAT GCAA	59.8	476	INTERGENIC	--	--	--
Ca5_P1_9544119	Ca5	9544119	ATTTTTTTTTTTT/ATTTTTTTTTTT	CTTCACGCAACTTTCA AGCA	AGCTAACAGTGCATGG GTTTT	60.2	796	INTERGENIC	--	--	--
Ca5_P1_9552653	Ca5	9552653	TAAAAA/TAAAAAA	TGAGTTGTGAAGTACG GGGA	TTGCAACGATGTAGG ACAAA	59.1	228	INTERGENIC	--	--	--
Ca5_P1_9552935	Ca5	9552935	ATT/AT	TGAGTTGTGAAGTACG GGGA	ACCAAGTGGTTGAGG CAAAG	59.1	878	INTERGENIC	--	--	--
Ca5_P1_9553240	Ca5	9553240	ATTTTT/ATTTT	TGCATTTAAGGTAATG GCAAA	ACCAAGTGGTTGAGG CAAAG	58.2	553	INTERGENIC	--	--	--
Ca5_P1_9553445	Ca5	9553445	TT/TTATATAT	TGCCTCAACCACTTGG TTATT	TCCCTCTATCCCTGT CACG	59.5	392	INTERGENIC	--	--	--
Ca5_P1_9558185	Ca5	9558185	CTTTT/CTTTTT	CAAAAGTTCTTGACGT GATTGA	TTGTGGTACAAGAAAG GCAGAA	59.3	604	INTERGENIC	--	--	--
Ca5_P1_9560325	Ca5	9560325	AAAAAAA/AAAA	TGTTACAATCCCATAC CAAAAA	AGAGGGACGAAAACA GAGCA	58.3	668	INTERGENIC	--	--	--
Ca5_P1_9560422	Ca5	9560422	ATTTTT/ATTTTTTT	TGTTACAATCCCATAC CAAAAA	AGAGGGACGAAAACA GAGCA	58.3	668	INTERGENIC	--	--	--
Ca5_P1_9560967	Ca5	9560967	TTATTATT/TTATTATTATT	TCTGTTTTCGTCCCTC TGCT	TCAACATTCAAGAAAC GCCA	60.0	436	INTRON	Ca_23781	Q	--
Ca5_P1_9570925	Ca5	9570925	CTTT/CTTTAATTT	TGGTGAACTGATCTC AAGCA	CTTAATCAACGTGCAG GCAA	59.4	458	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_9570971	Ca5	9570971	AATCATATAT/AAT	TGGTGAAACTGATCTC AAGCA	CTTAATCAACGTGCAG GCAA	59.4	458	INTERGENIC	--	--	--
Ca5_P1_9581491	Ca5	9581491	CAA/CAAA	CATACATGGGAACAAA GGGG	GGGTCAGGGTTTCAAA TACAA	60.0	571	DRR	Ca_23783	--	--
Ca5_P1_9582075	Ca5	9582075	TT/TTAT	AGCTGACACCACACAA CCAC	TCTTGAACCTGTCCCG AATC	59.6	438	DRR	Ca_23783	--	--
Ca5_P1_9583627	Ca5	9583627	TT/TTGACAAATCTGT	TTGGCTAGTAGGTGG ATGG	GGTATTTTGTGTGCC ATGTG	59.9	260	INTERGENIC	--	--	--
Ca5_P1_9587623	Ca5	9587623	GTTTTTTT/GTTTTTTT	CGCTGCATATTGTTT TCCT	TTGCATTCGGTTGATG TAGC	60.1	424	INTERGENIC	--	--	--
Ca5_P1_9589441	Ca5	9589441	ATTTTTTT/ATTTTTT	TTTTGTGGTGGGAGG ATTA	AAAATTTTGGGATGGT TGTGA	60.2	314	DRR	Ca_23784	--	--
Ca5_P1_9615819	Ca5	9615819	TAAAAAA/TAAAAAA	TTGCCTTTAACTGGTT GGG	CGGGTATGGTTTGACT TTATCC	60.0	149	DRR	Ca_23788	C	--
Ca5_P1_9616667	Ca5	9616667	CTTTATTTATTTATTTAT/CTTTAT TTATTTATTTATTTATTTAT	GCAAGGAAGAAGGTTT TGGA	CTAACCTTGAAGTCGA GCGG	59.3	572	DRR	Ca_23788	C	--
Ca5_P1_9620004	Ca5	9620004	TCCC/TCC	TTTCAGGATCAAATCC AGGC	GCTTTCCAGTCCATG TGGT	60.0	566	INTERGENIC	--	--	--
Ca5_P1_9620206	Ca5	9620206	ATTTT/ATTT	ACCACATGGACTGGAA AAGC	CTCTTCAGCATCAGCC ATCA	60.0	528	INTERGENIC	--	--	--
Ca5_P1_9626102	Ca5	9626102	CCACA/CCA	AGTTTCTCCCCGAAA CCTA	TGGCAAATCGATTGAC AAAA	59.9	657	INTERGENIC	--	--	--
Ca5_P1_9637822	Ca5	9637822	GACA/GACACA	GGATGTGCATGAAGT CAAG	CATCCATGAAGCATCC AATG	60.3	212	INTRON	Ca_23790	C	CAMTA

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_9639982	Ca5	9639982	GAAAAAA/GAAAAAA	TCTGCAGGAACACTTG CATC	GACAGCTTTGGAATGT GGGT	60.0	891	INTRON	Ca_23790	C	CAMTA
Ca5_P1_9646561	Ca5	9646561	AATATCCA/AA	CGATGTAGAGGTGGG GAAAA	CACTCCAGCCACAAAA CAAA	59.9	512	DRR	Ca_23791	--	--
Ca5_P1_9649095	Ca5	9649095	GAAAA/GAAAAA	TTGTGGGCTTGTAAGT CACG	TCCACAAAATTCAAAC TAGAGGT	59.8	315	INTERGENIC	--	--	--
Ca5_P1_9649310	Ca5	9649310	AATATATATATATATATA/AATATAT ATATATA	TTGTGGGCTTGTAAGT CACG	AAACACAAATTTCCAAT TTACTATTCA	59.8	425	INTERGENIC	--	--	--
Ca5_P1_9657702	Ca5	9657702	TAAA/TAA	ATGGGTCAATTGTCGT GATT	AAATTTGCACCAATCA AGCC	60.1	516	INTERGENIC	--	--	--
Ca5_P1_9658247	Ca5	9658247	AGGGG/AGGG	GCTTGAATGGCTTGAT TGGT	AAAGGGGCTTGCAATC TTTT	60.1	203	INTERGENIC	--	--	--
Ca5_P1_9707702	Ca5	9707702	ATTT/ATTTT	GCCAGACAAAGGTGAC CAAT	CAAACACATACGTT GCCC	60.0	171	INTERGENIC	--	--	--
Ca5_P1_9710858	Ca5	9710858	TAAAA/TAAA	GTTTTTCGACCAACTT CCCA	CCATTGGAGCCTTAAG TGGA	59.9	694	DRR	Ca_20495	--	--
Ca5_P1_9710959	Ca5	9710959	AA/AAACA	GTTTTTCGACCAACTT CCCA	CCATTGGAGCCTTAAG TGGA	59.9	694	DRR	Ca_20495	--	--
Ca5_P1_9715610	Ca5	9715610	TAA/TA	TGAATCGCTCCGAAAG AAAT	TGATGGACTACACAAA AACCCA	59.8	958	INTRON	Ca_20495	--	--
Ca5_P1_9715646	Ca5	9715646	AATA/AA	TTTCAACAAATATTGAA CCGAAA	TGATGGACTACACAAA AACCCA	58.6	487	INTRON	Ca_20495	--	--
Ca5_P1_9715734	Ca5	9715734	CAT/CATAT	CGTAAAAATACGTGAA ATTCGTCA	TGATGGACTACACAAA AACCCA	60.3	388	INTRON	Ca_20495	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_9717484	Ca5	9717484	TAAA/TAAAA	GAAGCTGAGCTACGAT TGCC	CAACTTTTCGCACAG CAAG	60.1	843	INTRON	Ca_20495	--	--
Ca5_P1_9723148	Ca5	9723148	ATTTTT/ATTTTTTT	AACCGATGTAGCGTAA TGCC	AAAGGTCTTGCCGAAG TCAA	60.0	154	INTERGENIC	--	--	--
Ca5_P1_9723234	Ca5	9723234	TCCC/TCC	AACCGATGTAGCGTAA TGCC	TGTTTACGCGTGAATG ATGA	60.0	578	INTERGENIC	--	--	--
Ca5_P1_9723961	Ca5	9723961	AAATAA/AAA	TCATTACGCGTAAAC ATCA	TGTTTGATTGATATG TGCCCT	58.7	625	INTERGENIC	--	--	--
Ca5_P1_9725536	Ca5	9725536	TAAAAAAAAA/TAAAAAAAAA	CCATCTAGAACAAATGA TGAACCC	TCACATGGAAGCTTTT GTGG	59.7	308	INTERGENIC	--	--	--
Ca5_P1_9725700	Ca5	9725700	A/ACAACATTTTT	CGATTTTGCATTGGAA GAAA	TCAGCGTTCAATTTTG TGGA	58.7	409	INTERGENIC	--	--	--
Ca5_P1_9733773	Ca5	9733773	AA/AACA	TGTCACTTAAGGAACG AAAATGAA	CAAGGAAAGAATTGGA TGGG	60.0	295	INTERGENIC	--	--	--
Ca5_P1_9734153	Ca5	9734153	GTAAATAAGATAATAAAGAT/GTAA ATAAAGAT	CCCATCCAATTCCTTC CTTG	TTACACAAAAATAACG GTCACAA	59.4	777	INTERGENIC	--	--	--
Ca5_P1_97364	Ca5	97364	T/TCAGCCTC	GGTGGGGATGGATGT AGATG	TGAACAAAACATTGGG CAAA	60.0	630	DRR	Ca_18165	R	FAR1
Ca5_P1_9767795	Ca5	9767795	ATTTTTTT/ATTTTTTTT	AATACCCAAAATGCCC CTTC	CTGAACTGGATTACAG CAAA	60.0	490	INTERGENIC	--	--	--
Ca5_P1_9768398	Ca5	9768398	TA/T	TTTGCGTGAATCCAGT TCAG	TTTGATACGAGTGGGT TTGC	59.8	829	INTERGENIC	--	--	--
Ca5_P1_9768596	Ca5	9768596	T/TTTCTAAATAATGA	TTCTGAAAAATTGGTG CCAT	TTTGATACGAGTGGGT TTGC	58.1	574	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_9769103	Ca5	9769103	T/TAGTA	CAAAGCTAATTTGCAA ACCCA	GTCGATCGAGTTATGT CGCA	60.1	491	INTERGENIC	--	--	--
Ca5_P1_9769271	Ca5	9769271	ATTTT/ATTT	CAAAGCTAATTTGCAA ACCCA	GTCGATCGAGTTATGT CGCA	60.1	491	INTERGENIC	--	--	--
Ca5_P1_9769307	Ca5	9769307	TTGTTCTCT/TT	CAAAGCTAATTTGCAA ACCCA	GTCGATCGAGTTATGT CGCA	60.1	491	INTERGENIC	--	--	--
Ca5_P1_9774030	Ca5	9774030	TG/TGG	GACGGGTCAGATTGA TGCT	ATGGAAGGGATGTGT GGAAA	60.1	460	INTERGENIC	--	--	--
Ca5_P1_9774119	Ca5	9774119	GTTTTTTT/GTTTTTT	GACGGGTCAGATTGA TGCT	ATGGAAGGGATGTGT GGAAA	60.1	460	INTERGENIC	--	--	--
Ca5_P1_9774862	Ca5	9774862	TAAAAAAA/TAAAAAA	TGTCTTCACAGCTCAA TTGAAAA	TGAGTCTGGCTCAGTG TGCT	59.9	755	INTERGENIC	--	--	--
Ca5_P1_9775261	Ca5	9775261	ATT/AT	AAACCCACAATGAGC CAAA	AAGTTGGAATTGCAGG GTTG	60.3	548	INTERGENIC	--	--	--
Ca5_P1_9775599	Ca5	9775599	TTATATA/TTATATATA	TGAGCACACTGAGCCA GACT	AAGTTGGAATTGCAGG GTTG	59.8	313	INTERGENIC	--	--	--
Ca5_P1_9775672	Ca5	9775672	CAAAAA/CAAAAAA	CAACCTGCAATTCCA ACTT	GAGTAATGGATCTCGT CCGC	60.0	148	INTERGENIC	--	--	--
Ca5_P1_9775991	Ca5	9775991	CAA/CAAAA	CAACCTGCAATTCCA ACTT	CAGCGATAAGCATGGA CAAA	60.0	583	INTERGENIC	--	--	--
Ca5_P1_9782027	Ca5	9782027	ATTTTTTTTT/ATTTTTTTT	TTGTAATTTTCGAAAG GGGG	TATGTACCTCCCACCC CTGA	58.9	117	INTERGENIC	--	--	--
Ca5_P1_9782154	Ca5	9782154	TGG/TG	TCAGGGTGGGAGGT ACATA	CATGATTGTGTCAACG AGGA	60.2	104	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_9782845	Ca5	9782845	ACCC/ACC	AAACATGCTTAAGAAA TTCGG	CGCAAAACACTAACC GACA	57.5	689	INTERGENIC	--	--	--
Ca5_P1_9784654	Ca5	9784654	AAACTCTGAA/AAACTCTGA A	TTTTATGTGGCCCAAT TCC	ATCGTTGCATCAAATC ACCA	59.6	324	INTRON	Ca_20498	S	--
Ca5_P1_9800766	Ca5	9800766	ATTTTTTTTT/ATTTTTTTTTTT	CTCTTTGAGATGTCGC TCCC	CGAAAGGATGATGCAT GAGTT	60.0	682	INTERGENIC	--	--	--
Ca5_P1_9805720	Ca5	9805720	G/GGA	ATGACAACCAGGAAAA ACGC	ACATTGGAAGGTCCAA GCAC	60.0	749	INTERGENIC	--	--	--
Ca5_P1_9807048	Ca5	9807048	CTTATAGCAATGTTATAGCA/CTTATA GCA	TCCCACCTACCAATG GAGT	TCCAACAGCATGAATC AGGA	59.3	908	INTERGENIC	--	--	--
Ca5_P1_9808086	Ca5	9808086	TT/TTCT	GTGACGAAGAATGCCA ACAA	GACCTCAAGTTTCACA ATGTGGT	59.7	396	INTERGENIC	--	--	--
Ca5_P1_9809593	Ca5	9809593	AATTCATTCAATTC/AAATTCATCA TTCATTCATTC	GCATTCAAATCTCCTT GGGA	CTGAGGGCTTCGAAG AAATG	60.0	542	INTRON	Ca_20501	O	--
Ca5_P1_9815370	Ca5	9815370	ATTTTTTTTT/ATTTTTTTTT	CCTACTCTGCCTGAGT TCCG	CCAAACCAAAATTCGGA AAGA	60.0	592	INTRON	Ca_20501	O	--
Ca5_P1_9816091	Ca5	9816091	ATGT/A	TGGGAATGTGGGAGTA TGGT	GTGCATGAGAGAAAG CTCCC	60.1	237	INTRON	Ca_20501	O	--
Ca5_P1_9817818	Ca5	9817818	GGGA/GGGACATAAGGA	GCTGACGTGGCAGAAT GTAA	TCACAAACCATTTTAG CGAGC	59.9	254	INTRON	Ca_20501	O	--
Ca5_P1_9818553	Ca5	9818553	ATTTTT/ATTTT	GCCTCTGTATGCGTT CTCTG	GACTCGACCAGCTTTT GAGG	60.0	158	INTRON	Ca_20501	O	--
Ca5_P1_9819633	Ca5	9819633	GATA/GATAGTTCATTATA	CCAAGTGCAAGTTTG GTTT	TCGGTGCAAGTTGAGT TCTG	60.0	545	INTRON	Ca_20501	O	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_9820324	Ca5	9820324	CTTTT/CTT	CAGAACTCAACTTGCA CCGA	TTGGCACCGAGAAGTT CTTT	60.0	701	DRR	Ca_20501	O	--
Ca5_P1_9828911	Ca5	9828911	CTTTTTTTTT/CTTTTTTTTT	ATGAACGCTCACACTT TTCG	TGGAGAAAACCATGGA AGGA	58.9	539	INTERGENIC	--	--	--
Ca5_P1_9829260	Ca5	9829260	CTTAATTA/CTTAATTAATTA	ATGAACGCTCACACTT TTCG	TGGAGAAAACCATGGA AGGA	58.9	539	INTERGENIC	--	--	--
Ca5_P1_9830614	Ca5	9830614	TAAAAAAAAA/TACAAAAAAAAA	TTGATTGTGCCATGGA GGTA	AACAACCTTGCATGTT CCGT	59.9	618	INTRON	Ca_20502	U	--
Ca5_P1_9833021	Ca5	9833021	ATTTTTTTTT/ATTTTTTTTT	TGCATTCAAAGCTCCA CAAG	TTCGATCAAAAGTGTC GGTG	60.0	663	INTRON	Ca_20502	U	--
Ca5_P1_9835495	Ca5	9835495	ACT/ACTCT	TGCAGCGACTTCCAA TCTA	AATGGCTGAATGTAAC CCAAA	59.6	400	DRR	Ca_20502	U	--
Ca5_P1_9836320	Ca5	9836320	ATTTTTTTTT/ATTTTTTTTT	CATGGTGAAACATGTG ATTCTG	CCTCTTCAAAGCTCAA CAACC	58.9	700	DRR	Ca_20502	U	--
Ca5_P1_9836548	Ca5	9836548	T/TGTATTGTCAA	AGCATGTGGTTGTTGA GCTTT	CACACGAAATTTGAGG TGTC	59.8	408	DRR	Ca_20502	U	--
Ca5_P1_9847801	Ca5	9847801	TAAAAA/TAAAA	CCCCGACTTATGTTTT CCA	CATCCATTCTTTCAAT CATTACCA	59.8	504	INTRON	Ca_20503	R	--
Ca5_P1_9859158	Ca5	9859158	GATA/GATAATA	TTTTGCAACGGAAGTT TGGT	ATAGCTCATCCATTGT CGGC	60.5	717	INTERGENIC	--	--	--
Ca5_P1_9861912	Ca5	9861912	GTTTT/GTTTTT	CTCCGACTTGGCAAT TCAT	TCGTCTTTTCGATTA TGGTG	60.1	816	INTERGENIC	--	--	--
Ca5_P1_9871006	Ca5	9871006	TA/T	TGCTTTTTCGATTTCT GGG	TCTCAGCTCTCCATGC ATTG	60.2	408	DRR	Ca_20504	R	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_9878658	Ca5	9878658	AACA/AA	CAGCACAATAAGCAGG CAAA	TGGACAGCGTAGCGT AGATG	60.0	764	INTRON	Ca_20505	OT	--
Ca5_P1_9880586	Ca5	9880586	A/AT	AAGTGTCAGCCAAGA GCAT	TTTGGAATCGTTTGCA TTGA	59.9	661	INTRON	Ca_20505	OT	--
Ca5_P1_9883038	Ca5	9883038	A/AC	TCGTGGAAGGATAATC CACA	CCTTGCCCCCTACATC TACA	58.9	477	INTERGENIC	--	--	--
Ca5_P1_9883179	Ca5	9883179	TAA/TA	TCGTGGAAGGATAATC CACA	CCTTGCCCCCTACATC TACA	58.9	477	INTERGENIC	--	--	--
Ca5_P1_9883489	Ca5	9883489	TTT/TTTATT	TGTAGATGTAGGGGCG AAGG	TATCACTCGTGTGGCG AGTT	59.9	516	INTERGENIC	--	--	--
Ca5_P1_9884435	Ca5	9884435	ATTTTT/ATTTT	TGGTGGATTTGTGTTT GGAA	ATACATGCTTCGGCCC TATG	59.8	547	INTERGENIC	--	--	--
Ca5_P1_9886271	Ca5	9886271	TT/TTAT	CACGGGAATTGTTGT TTCC	TCTCTCAAGTTCAACC CATGAA	60.2	177	INTERGENIC	--	--	--
Ca5_P1_9896925	Ca5	9896925	CATAT/CATATATAT	CAAAAGAGACATTTC CTACCC	GAAGTGGTGGGGCAA AAATA	59.0	213	INTERGENIC	--	--	--
Ca5_P1_9897244	Ca5	9897244	CAAAAA/CAAAA	TATTTTGTCCCAACCA CTTC	CAACACAACCAACGGA ATCT	59.8	186	INTERGENIC	--	--	--
Ca5_P1_9900286	Ca5	9900286	C/CA	CATTTTGCTTGCATCC ATTG	TGGAATAGAGTGTGAT TGCTTTC	60.1	172	INTERGENIC	--	--	--
Ca5_P1_9905958	Ca5	9905958	AGA/AGACATTTTCTTGA	GTTTCGGCGATGATAAC AACC	TTTGAGTCAGGGTGCT GGAT	60.3	713	DRR	Ca_20506	--	STAT
Ca5_P1_9908116	Ca5	9908116	TT/TTATTTTAT	CGACATTGATGAAAA TTGGC	GAATCCTCTTGTCTCC CTCC	60.3	311	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_9911613	Ca5	9911613	GTTT/GTTT	ATCCAGCACCTGACT CAAA	CACCAACTTCCACTGC TTGA	60.7	551	INTERGENIC	--	--	--
Ca5_P1_9912575	Ca5	9912575	CTAAT/CTAATTAAT	GCGTTTATGCTTTGCT CAGA	TTCGAATTTGGAACCT CACA	59.2	505	INTERGENIC	--	--	--
Ca5_P1_9913463	Ca5	9913463	CTTTTTTT/CTTTTTTTTT	GGAGGGAGCAAAGAG GATTC	TCTCTCCCTCCCATAT TTCTCA	60.2	363	INTERGENIC	--	--	--
Ca5_P1_9917719	Ca5	9917719	GAAAAA/GAAAAAA	TGGACAGAATCAATGC TCCA	TGAGCTACGTCCAGTC CTCA	60.2	677	INTERGENIC	--	--	--
Ca5_P1_9919003	Ca5	9919003	TG/TGG	TGATTGGAGTGGGAAT GGAT	TAAAGCCCTTGTGTGC CTCT	60.1	395	INTERGENIC	--	--	--
Ca5_P1_9948873	Ca5	9948873	CT/CTT	GGCCAAAATATGCAGA GGAA	CATTGAAAGTTATGG TGAATTCCT	60.0	429	INTERGENIC	--	--	--
Ca5_P1_9949551	Ca5	9949551	TTAATA/TTAATAATCTTACACAAATA ATA	TCAATTGTGAGTCGTG TTTGAA	TGGGGAATCAAATCA CCTT	59.2	116	INTERGENIC	--	--	--
Ca5_P1_9953257	Ca5	9953257	CATATA/CATA	GTGACCTTACTCTTTG GCCG	AAATCACAAATGGCT GGCT	59.7	532	INTERGENIC	--	--	--
Ca5_P1_9953374	Ca5	9953374	CTTTTTTT/CTTTTTTTTT	GTGACCTTACTCTTTG GCCG	AAATCACAAATGGCT GGCT	59.7	532	INTERGENIC	--	--	--
Ca5_P1_9953763	Ca5	9953763	AATTCATTCA/AATTCATTATTCA	ATTCCAAAGTGTG CAGC	GGAAGTTGGAATGAG GTTGG	60.1	462	INTERGENIC	--	--	--
Ca5_P1_9955402	Ca5	9955402	GA/G	ACAAGGCCAGCTGTAA ATGA	AAGTGGGGGAGGATC AACTT	58.4	581	INTERGENIC	--	--	--
Ca5_P1_9957931	Ca5	9957931	AAGGTT/AAGGTTTATTGAGGTT	TTCTTGTGTGGTCT CCCA	TCGGCTATTTCCCT TCTT	60.1	366	INTRON	Ca_20508	--	WRKY

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P1_9962240	Ca5	9962240	TGG/TGGG	TCAATTGGAACTTTG CCC	AGCTGTGGGTGGA AGAGA	60.7	444	DRR	Ca_20508	--	WRKY
Ca5_P1_9964705	Ca5	9964705	A/AT	GCCAAGGTAAGAGAA CGCA	TTGGCGCATAACAAA ATGA	60.4	603	INTRON	Ca_20509	GC	HSF
Ca5_P1_9965556	Ca5	9965556	CTT/CTTTT	TCTCAGCGACCTGTT TTCT	TTTCCGGATCTCAAC GAAC	60.0	385	INTRON	Ca_20509	GC	HSF
Ca5_P1_998084	Ca5	998084	TAAAAAAAA/TAAAAAAAA	TAAGCCTGTTTGGAT TTGC	TGTTGTGGAAGCATGG TTGT	60.1	638	INTRON	Ca_23230	--	NAC
Ca5_P1_9981523	Ca5	9981523	TA/T	AAATCCGTGATTCCAA GCTG	GCCGTGAGTCTGATT CATT	60.1	342	DRR	Ca_20510	GC	HSF
Ca5_P1_9983470	Ca5	9983470	CTT/CT	TGAGAACTGGCAAA AAGG	TTTGCTATTCTCCCC ACTG	60.2	922	INTRON	Ca_20511	P	--
Ca5_P1_9986447	Ca5	9986447	TAAAAAA/TAAAAAA	TTCAAATCAACCAG ACCA	AAGGCTTGGGCCATTA TACC	59.9	589	INTRON	Ca_20511	P	--
Ca5_P1_9986981	Ca5	9986981	TAC/T	AGCTGCCCTTGATGT GTCC	GTCACCGAGGAGTC ATTGT	60.1	598	INTRON	Ca_20511	P	--
Ca5_P1_9988260	Ca5	9988260	C/CA	GAAATTGGTACGTCT CCGA	TCATGGACACTGGACA CGAT	59.9	574	INTRON	Ca_20511	P	--
Ca5_P1_9988991	Ca5	9988991	A/ATAATAAAAAAAC	CTGATGCATATTGGTG TCGG	TGCTGATAGTGCACCT CCTG	59.9	602	INTRON	Ca_20511	P	--
Ca5_P1_9993831	Ca5	9993831	TAAAA/TAAAA	AGACCCACTTGACCC TATG	CGCACACAAAAATATC ACCA	60.0	561	INTERGENIC	--	--	--
Ca5_P1_9995801	Ca5	9995801	TCC/TC	TATCCGAGCATGCAT AACA	AATGCAAGACCAACG GTAG	60.1	574	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_10000939	Ca6	10000939	AA/AGAGAGAGAGAGA	AAAGCATGTCCTTTTG TGGG	CCTCCATCCCTTTCAT AGCA	60.0	752	INTERGENIC	--	--	--
Ca6_P1_10001631	Ca6	10001631	CATATATATAT/CATATATATAT	TGCTATGAAAGGGATG GAGG	CCAGCATGAAGAAACA GCAA	60.0	279	INTERGENIC	--	--	--
Ca6_P1_10002215	Ca6	10002215	ATT/ATTT	CCTAATGTAAATGGAG GGGG	CAAGAGGTTCAATTGA CCGA	58.3	291	INTERGENIC	--	--	--
Ca6_P1_10002372	Ca6	10002372	CAATTTATTAATTT/CAATTT	TCGGTCAAATGAACCT CTTG	TCGAATACTGTTTTGA GAACCTTT	58.7	328	INTERGENIC	--	--	--
Ca6_P1_10004452	Ca6	10004452	AATAAAAAATATAAAAAATA/AATAAAAAAT A	AAGGCTGAAAAACATCA CCGT	TCACCCATTTTTGTGA CTTCT	59.6	825	INTERGENIC	--	--	--
Ca6_P1_10004510	Ca6	10004510	TTATATATATATA/TTATATATATA	AAGGCTGAAAAACATCA CCGT	TCACCCATTTTTGTGA CTTCT	59.6	825	INTERGENIC	--	--	--
Ca6_P1_10012800	Ca6	10012800	A/AT	ACCATATCCCAAGCAA GCAC	CTATGCCTGGGGCAT GATTA	60.0	792	DRR	Ca_08591	R	G2-like
Ca6_P1_10022472	Ca6	10022472	GA/GAAA	TTCTTTTCATCAGCCCA ACC	GTGCACATGGACTGTG AAGG	60.1	417	INTERGENIC	--	--	--
Ca6_P1_10023946	Ca6	10023946	AAAGAAG/AAAG	GGAGAAGATGCATGG GAAAA	TTGCAGTTACGATTAA ACCCA	60.0	402	DRR	Ca_08590	T	S1Fa-like
Ca6_P1_10025370	Ca6	10025370	GAA/GAAA	ACTGAATGCACCAAAG TCCC	TTTACCGAAAGGCTCA TTGC	60.0	545	CDS (FRAME SHIFT)	Ca_08590	T	S1Fa-like
Ca6_P1_10027813	Ca6	10027813	AC/A	GGAACAATGGGATACA TGGC	TCTCATGCTGATTGCA CCTC	60.0	460	DRR	Ca_08589	C	--
Ca6_P1_10040599	Ca6	10040599	C/CAG	GTCATCAGCCCTCCCT TGTA	TTCATCATTTCCCCCA CAAT	60.1	721	INTRON	Ca_08587	I	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_10046135	Ca6	10046135	GTTTTTTT/GTTTTTTT	CAGCCGTTGGTTCAAT AGGT	TCATGCATGTTTTATC AATTTTGT	60.0	722	INTERGENIC	--	--	--
Ca6_P1_10047056	Ca6	10047056	ATT/A	ATTGGTTCAAAGTGGG ATCG	AGTGGATATCACCACC CCAA	59.8	472	INTERGENIC	--	--	--
Ca6_P1_10050244	Ca6	10050244	TTTTATTATTTATTTATTATT/TTTA TTTATTATTATTTATTTATTATT	GCAAATCGACAACGAA TCCT	TTTTAGGGACGAAAT GATGG	60.1	560	INTERGENIC	--	--	--
Ca6_P1_10050426	Ca6	10050426	AAT/ACGGTTGAT	GCAAATCGACAACGAA TCCT	TTTTAGGGACGAAAT GATGG	60.1	560	INTERGENIC	--	--	--
Ca6_P1_10053229	Ca6	10053229	GAAA/GAAA	TGTGTGAGTTCCGGT CAAA	GGCTTCTGCTGACATG TTGA	60.1	574	DRR	Ca_08586	--	bZIP
Ca6_P1_10054227	Ca6	10054227	A/AT	ATCGATTCTCACCTT CCAC	CACTCTCAGCGCAG GACAC	60.1	583	INTERGENIC	--	--	--
Ca6_P1_10056156	Ca6	10056156	CTTT/CTT	CGCAGAACATAGAA CAGACAA	AAGCTTTTGCAGCTCA CTCA	59.4	597	INTERGENIC	--	--	--
Ca6_P1_10056451	Ca6	10056451	TA/TAA	GTTGAGTGAGCTGCAA AAGC	CTGTTGCTCGGCATCT GTTA	58.8	495	INTERGENIC	--	--	--
Ca6_P1_10061419	Ca6	10061419	A/AT	TTGAAATTGGTAACGA ATGAGAAA	CATCTAACACAAACA CCGTCA	59.9	674	INTERGENIC	--	--	--
Ca6_P1_10061549	Ca6	10061549	ATTTTTT/ATTTTTTT	TTGTGACAAATATGTAT CGTGTAAATTG	TCCGTAAAGATGTTGT TGATGC	59.2	860	INTERGENIC	--	--	--
Ca6_P1_10061743	Ca6	10061743	AAAC/A	TGACGGTGTGTTGTGT TAGATG	TCCGTAAAGATGTTGT TGATGC	58.6	355	INTERGENIC	--	--	--
Ca6_P1_10061830	Ca6	10061830	ATTT/ATT	TGACGGTGTGTTGTGT TAGATG	GCAAATGAAATGATTG GAGC	58.6	652	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_10064800	Ca6	10064800	AATA/AATATA	GATGAAAATATTGGTG GCGG	AGAACAAAGCCTCGAA AATC	60.2	621	INTERGENIC	--	--	--
Ca6_P1_10083634	Ca6	10083634	GAAA/GAAAA	TTATGCTGTTGGCAGG TGAG	AAAACAAAACAAAACC AAAACCA	59.9	869	INTERGENIC	--	--	--
Ca6_P1_10090364	Ca6	10090364	GAT/GATAT	CCGTAAACCTGGTGA ACCT	TTCATGGACTATTGGC CTCC	59.9	340	DRR	Ca_08582	--	ERF
Ca6_P1_10090605	Ca6	10090605	G/GTCGGC	CCGTAAACCTGGTGA ACCT	CCCACTTAATTTTTCG GGTA	59.9	565	DRR	Ca_08582	--	ERF
Ca6_P1_10090761	Ca6	10090761	TGGGTGCGGGT/TGGGT	ATCCAGTGGGTACCTG CAAA	TATATAAGTGCGGATG CGGG	60.4	153	DRR	Ca_08582	--	ERF
Ca6_P1_10090816	Ca6	10090816	ATTATTTATTTATTTATTTATTTA TTTATTTATTTAT/ATTATTTATTTATT TATTTATTTATTTATTTATT	CCCGCAAAATTAAGTG GGTA	CCCATACCGTTATCC ACAC	59.8	560	DRR	Ca_08583	Z	Trihelix
Ca6_P1_10103455	Ca6	10103455	TCC/TC	CAGTTTACTGGCTTGT CACGA	CCTTCAACGATACACA TCCG	59.0	481	INTERGENIC	--	--	--
Ca6_P1_10107731	Ca6	10107731	CTTTTTTTTT/CTTTTTTTTT	GCGCAAGGTTGCATAA ATCT	ACTCGTGCTAGCGACA TTGA	60.2	766	INTERGENIC	--	--	--
Ca6_P1_10107926	Ca6	10107926	CACAATAA/CA	TGCACATCAACCTTAA ATTCCA	GTTTCCGATTGCCAGG TTTA	60.4	745	INTERGENIC	--	--	--
Ca6_P1_10123378	Ca6	10123378	AAGTA/AA	TTTCTTCCGTCACAA GCTG	TTTTTGATGATTCGCA GACG	59.0	175	INTERGENIC	--	--	--
Ca6_P1_10124818	Ca6	10124818	ATATTTAT/ATAT	TTTGGTATGCACTGGC AGAA	GAGCGAGCATAACAAA GTGGA	60.3	462	INTERGENIC	--	--	--
Ca6_P1_10132155	Ca6	10132155	C/CT	GACACGTTTATTCAAC CGCA	ATTTGAGATTGCATCC CCAG	59.6	217	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_10132328	Ca6	10132328	TT/TTAT	CTGGGGATGCAATCTC AAAT	TGCGAGTGTCAATTT GTTC	59.9	429	INTERGENIC	--	--	--
Ca6_P1_10132858	Ca6	10132858	TCCC/TCC	GAACGAAATTGACACT CGCA	CGGAAAGTGGTATCCA GCAT	59.8	347	INTERGENIC	--	--	--
Ca6_P1_10132949	Ca6	10132949	CTT/CTTT	GAACGAAATTGACACT CGCA	CGGAAAGTGGTATCCA GCAT	59.8	347	INTERGENIC	--	--	--
Ca6_P1_10134691	Ca6	10134691	TAAA/TAA	AATGCTTCAAATGGCC AAAA	TTGATTGATCCCTTTT CTATTGC	60.4	528	INTERGENIC	--	--	--
Ca6_P1_10134830	Ca6	10134830	ATTTTTTT/ATTTTTTTTTT	AATGCTTCAAATGGCC AAAA	TGCACATGAGGATTGA GGAA	60.4	963	INTERGENIC	--	--	--
Ca6_P1_10135848	Ca6	10135848	TTTTTT/TTTTTTATTTTT	TTCCAAGGATCCATT ACCA	TATTTTGTGCGGTGA CCCA	60.1	440	INTERGENIC	--	--	--
Ca6_P1_10138049	Ca6	10138049	CAT/CATAT	TGGCTGGAGGAGCTAC ATCT	CAGCGTAGTCCTCTC GGAC	60.0	478	INTRON	Ca_08579	--	FAR1
Ca6_P1_10140388	Ca6	10140388	TT/TTTGAGGTAT	TAGTCAGGCGATGTTT CACG	AATACCCTCCGGG GTCTA	59.9	682	DRR	Ca_08579	--	FAR1
Ca6_P1_10148888	Ca6	10148888	CATA/CATATA	ACTGGGTCTGGACGAC ATTG	GGTCCACCGTAACATC CGTA	60.0	420	DRR	Ca_08577	--	--
Ca6_P1_10149464	Ca6	10149464	TC/T	TCCGTTCATAGTAATT GTCG	TCTCCATCAGATACCT CGCC	57.6	413	DRR	Ca_08577	--	--
Ca6_P1_10159223	Ca6	10159223	TAA/TAAA	GCCACATTCTTCTCA GTGGA	CATGGTAAAAGGGTGA TGGG	60.2	667	INTRON	Ca_08576	--	--
Ca6_P1_10160055	Ca6	10160055	CTTTTTTT/CTTTTTT	TCTGTGATTGGTGAGG GTGA	GGTCACAAACGTGGCT TCTT	60.1	678	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_10162894	Ca6	10162894	ACCCCC/ACCCC	TGGAATTTGGGGAGTA TAGGTG	TATTGGCACGTAGCTC ATGG	60.1	545	INTERGENIC	--	--	--
Ca6_P1_10163284	Ca6	10163284	ATTTTTTT/ATTTTTT	CCACAACAAAGGACGA GACA	CATGGACACAAATTGC AAGG	59.7	827	INTERGENIC	--	--	--
Ca6_P1_10168033	Ca6	10168033	GTATATA/GTATA	ACCGTGGAAGAATCG TGTC	AACTAGCACGGCAAG CAAT	60.0	711	DRR	Ca_08574	J	--
Ca6_P1_10168091	Ca6	10168091	TTATA/TTATATA	ACCGTGGAAGAATCG TGTC	AACTAGCACGGCAAG CAAT	60.0	711	DRR	Ca_08574	J	--
Ca6_P1_10174986	Ca6	10174986	ATTTTTTTTT/ATTTTTTT	CCGAACCCAACAAC CATTC	TGTTTGAGCAAAGGA AAAA	59.6	969	INTERGENIC	--	--	--
Ca6_P1_10175946	Ca6	10175946	TTTCTTCTTCTTCTTCTTCTTCTT C/TTTCTTCTTCTTCTTCTTCTTCTT	ACCCTGAAGAGGTGGA GGAG	TCAGCCCAACTACTTA GCCG	60.6	559	INTERGENIC	--	--	--
Ca6_P1_10178382	Ca6	10178382	TC/T	TATCTAACGTGCCCC TCAC	ACAGGGGAAACTAGAC CCGT	60.0	635	INTRON	Ca_08573	--	ERF
Ca6_P1_10178910	Ca6	10178910	TA/T	ACGGGTCTAGTTCCC CTGT	TTAATGCCTAGATCCT GCCG	59.9	166	INTRON	Ca_08573	--	ERF
Ca6_P1_10180510	Ca6	10180510	CTCTTCTTTT/CTCTTTC	GAGACAACTGAAGGC CGAG	GTTTGGTCTCGAATAA GGCA	60.0	561	DRR	Ca_08573	--	ERF
Ca6_P1_10181632	Ca6	10181632	ATT/AT	GGTTGGTTATTTGCCC CTTT	CAACTACACCGCTTGC AGAA	60.1	361	DRR	Ca_08573	--	ERF
Ca6_P1_10184639	Ca6	10184639	ATAATTAATTAATTAAT/ATAATTAAT AAT	TCAATCGAAAGTTGTC CCGT	TTCTCAAATCCTACCC ACCG	60.5	596	INTERGENIC	--	--	--
Ca6_P1_10185405	Ca6	10185405	TAAA/TAAAA	TTTTTGACGAGATTGG CAATTA	AGGCCACAACCTGTCA TTTG	59.6	528	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected 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_P1_10190857	Ca6	10190857	C/CT	AGGGTATTTTCACGCA GGTG	CGAACGCACACACTTT TCAT	60.0	433	INTRON	Ca_08570	I	--
Ca6_P1_10196918	Ca6	10196918	CAAAGATTAAGCTCTAAAGATTAA/CAA AGATTAA	GAACGCGTTGATCTT CACCA	GAGCGTGTTTCGTTCTC ATCA	60.1	665	DRR	Ca_08570	I	--
Ca6_P1_10197045	Ca6	10197045	T/TGATTAAATTTTA	GAACGCGTTGATCTT CACCA	GAGCGTGTTTCGTTCTC ATCA	60.1	665	DRR	Ca_08570	I	--
Ca6_P1_10199173	Ca6	10199173	AAG/AAGAG	ATTTAAATGCATGTCG CCCT	CAACACCGTTATCTGA TACAAGC	59.4	647	INTERGENIC	--	--	--
Ca6_P1_10200676	Ca6	10200676	ATTTTT/ATTTTTTT	ATGTTGCATTTTCGAG GGTC	TGGACGCGTAGTATCA AAATG	59.9	719	INTERGENIC	--	--	--
Ca6_P1_10204815	Ca6	10204815	ATTT/ATT	AGTTTGATGATAGGGG CCTT	TTCTCGCCCTAATTGA AACAA	59.8	144	DRR	Ca_08569	R	bZIP
Ca6_P1_10208472	Ca6	10208472	ATTTTT/ATTTT	TGATCGCATTACCTTT GACTG	AGAAAATCCCTCTTCC CCAC	60.1	656	INTERGENIC	--	--	--
Ca6_P1_10209877	Ca6	10209877	ACTCTCTCT/ACTCTCT	AGGGAGAGTCGTATTC GGGT	CAGGGTTTTGGGTTTG AAGA	60.0	137	INTERGENIC	--	--	--
Ca6_P1_10209904	Ca6	10209904	CA/CAA	AGGGAGAGTCGTATTC GGGT	CAGGGTTTTGGGTTTG AAGA	60.0	137	INTERGENIC	--	--	--
Ca6_P1_10210455	Ca6	10210455	ATTTTTTTTT/ATTTTTTTTTTTTTT	AACGTTGGTGCTTGGG TTTC	AGCTGTCCACATCC TCAG	60.0	500	INTRON	Ca_08568	J	NF-YC
Ca6_P1_10218565	Ca6	10218565	ATACGTT/A	TGATGACGATTGGTTG CCTA	TGCTCAAATTGAATCA TGGC	60.1	242	INTERGENIC	--	--	--
Ca6_P1_10224595	Ca6	10224595	CAAGAAG/CAAG	TACGTCTGCGAGAGAG AGCA	GACACGTCCAATTGT GTGG	60.0	448	DRR	Ca_08566	T	FAR1

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_10224803	Ca6	10224803	TC/TCC	CCCCGCAGTTTGT GTAT	GATGCTATTGTGGCA TGTG	59.9	641	DRR	Ca_08566	T	FAR1
Ca6_P1_10228884	Ca6	10228884	AAC/TAC/AAC	TGAAAGGCAATCAACA CTGG	AATTCCATGATCTTGC CGAG	59.7	533	INTRON	Ca_08566	T	FAR1
Ca6_P1_10241049	Ca6	10241049	AATTTTGTATTTTGTATTT/AATTTT TGATTTT	GAGACGAGTGAAGTG GACCC	TGTGGCACAACCTCAG ACAT	59.7	505	INTERGENIC	--	--	--
Ca6_P1_10241272	Ca6	10241272	TAA/TAAA	GAGACGAGTGAAGTG GACCC	TGTGGCACAACCTCAG ACAT	59.7	505	INTERGENIC	--	--	--
Ca6_P1_10250693	Ca6	10250693	TAAAAA/TAAAAAA	GGTGATGAGGCGTG ATAGT	AAATCCGCGATTGGTT TCTA	60.0	746	DRR	Ca_08565	R	bZIP
Ca6_P1_10250923	Ca6	10250923	CAAAA/CAAAA	TTATAAGCACTCGCGT TCCA	AAATCCGCGATTGGTT TCTA	59.5	409	DRR	Ca_08565	R	bZIP
Ca6_P1_10251492	Ca6	10251492	GATATATAT/GATATAT	TGGATTGCAGGAAGT ACCC	CCGGCTCCTATTTTG ATGA	59.9	129	INTERGENIC	--	--	--
Ca6_P1_10251637	Ca6	10251637	TTTCAATAATT/TTTCAATAATTCAATA ATT	GGATTGCAGGAAGATA CCCA	TCGTAAACGGTTTCTT TGGC	59.9	640	INTERGENIC	--	--	--
Ca6_P1_10251944	Ca6	10251944	CTCATCATCATC/CTCATCATCAT CATCATC	CATATAGGGTGGGGT GGTG	ATCCAAAACGACGACG AATC	59.9	344	INTERGENIC	--	--	--
Ca6_P1_10257662	Ca6	10257662	TAA/TAAA	TGAAAGAAGACAACG TGCC	CATTTTCATACTCAGC ATTGTCA	58.9	686	INTERGENIC	--	--	--
Ca6_P1_10258275	Ca6	10258275	ATTTTT/ATTTT	GGCAGAAAAGAATCTT CTGGA	AGAGGGAAGGAAAAC CTGGA	58.5	507	INTERGENIC	--	--	--
Ca6_P1_10259432	Ca6	10259432	GTTTTTT/GTTTTTTTTT	ATCCCGTAGTCGTCGT CACC	AAGGCAGCGTTGAAG GTAGA	60.0	505	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_10265158	Ca6	10265158	ACATGTCTAACTACTTCA/ACATGTCT AACTACTTCATGTCTAACTACTTCA	TTGATTGTGCATTGG TGCT	TCCCTTGATTGTTCT TTTGG	60.1	199	DRR	Ca_08562	S	--
Ca6_P1_10265275	Ca6	10265275	CTTTT/CTTT	TTGATTGTGCATTGG TGCT	GAGACGACATCTATAA TGGTTGAAA	60.1	529	DRR	Ca_08562	S	--
Ca6_P1_10272224	Ca6	10272224	G/GGCGTATAT	TAGGGTGCTAGCGGAT TTTG	AAGGCACCCATTAGTT GACG	60.2	550	DRR	Ca_08561	--	--
Ca6_P1_10274946	Ca6	10274946	TAT/TATCTATGAT	TGCATTGAGCTTTGTC TTGG	TCCATCCCTTAACCAT ACCG	60.0	301	DRR	Ca_08560	R	--
Ca6_P1_10275563	Ca6	10275563	CTTT/CTTTT	AGGTCTAGGCCAAATC AGAAA	ATGTGCCATGTCGTAG GCTT	57.9	497	DRR	Ca_08560	R	--
Ca6_P1_10276246	Ca6	10276246	CTATATAT/CTATAT	TTTAAGCCTACGACAT GGCA	CAGTCACCATGTGCCA CTTTA	59.3	426	DRR	Ca_08560	R	--
Ca6_P1_10279858	Ca6	10279858	G/GAATCT	GTTTCGTAAAGAATTAA CACAAAAATG	CAAAACCGATAGATAT CAGGTGAC	57.6	199	INTERGENIC	--	--	--
Ca6_P1_10283725	Ca6	10283725	TCCCC/TCCCCC	ATTCGGGACCTCTCCT TTTG	AATATGAATGGCGTC GTGT	60.4	298	DRR	Ca_08559	--	--
Ca6_P1_10284950	Ca6	10284950	TAAAAAAA/TAAAAAAA	CTGCCATCAGCCATTT CTTT	GCCCTCGAGTTACCAA ATGA	60.2	656	INTRON	Ca_08559	--	--
Ca6_P1_10287810	Ca6	10287810	ATT/ATTT	TCAGTCAACATGTGCC ACTTC	CAATGATTTTGCAATC GTCC	59.7	339	INTERGENIC	--	--	--
Ca6_P1_10304315	Ca6	10304315	ATTTTTTTTT/ATTTTTTTTTT	AGGTTGATGGAAGAAC CCAT	TTGAGTTTGACCTTGA TGGAAA	58.3	753	INTERGENIC	--	--	--
Ca6_P1_10306793	Ca6	10306793	GTGGCACTTTG/GTG	TTTATGTTTGTATTCC CTTCCA	CAAAACAAATTTGAAG AATGCAG	57.6	540	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_10308991	Ca6	10308991	AT/ATT	TAAAGGACCAAGTCGG GAAA	GGACCACAAATGTAAT TTAGCCA	59.5	564	INTERGENIC	--	--	--
Ca6_P1_10309976	Ca6	10309976	CAAAA/CAAAAAA	AAAGGACCAAGTCGG AAAA	TCTTGATTGTCCACA CCACA	58.7	424	INTERGENIC	--	--	--
Ca6_P1_10310653	Ca6	10310653	ATTTTT/ATTTTT	TTTGTGCATAATTTGT GATTAATTG	TCGTTTTCGTCTTTTCT CTCA	59.3	609	INTERGENIC	--	--	--
Ca6_P1_10316048	Ca6	10316048	GAA/GAAA	ATTCACATATGCTTCC CGC	ACCAAATTCGATTGA ACGG	59.9	473	INTERGENIC	--	--	--
Ca6_P1_10316678	Ca6	10316678	AA/AATA	TCTGCACAATTGCAAA ATATCA	TTACAGATGGTTTCC TCCA	59.2	559	INTERGENIC	--	--	--
Ca6_P1_10316984	Ca6	10316984	C/CG	TGCAGAACACAAACA TGGC	ATTGCATCCGATTGT CTCC	60.7	613	INTERGENIC	--	--	--
Ca6_P1_10317645	Ca6	10317645	G/GAT	GAATGGTGAGAACAA TCGG	TCATCCTCGCTATGGC TTTT	60.3	743	INTERGENIC	--	--	--
Ca6_P1_10318116	Ca6	10318116	CTTT/CTTTT	AGCCATAGCGAGGATG AAAA	GGTGTATGCCCTGTGT GTTG	59.8	360	INTERGENIC	--	--	--
Ca6_P1_10318872	Ca6	10318872	CTTTTTTTTTTTT/CTTTTTTTTTTTT	TTAACCACCCGGTTCT CAAG	TGACATGGTTGGCTGT GAAT	60.0	724	INTERGENIC	--	--	--
Ca6_P1_10319172	Ca6	10319172	CAAA/CAAAA	TTTTCTCTCGAGCATT GAACA	TGACATGGTTGGCTGT GAAT	58.6	624	INTERGENIC	--	--	--
Ca6_P1_10324835	Ca6	10324835	ATG/ATGTTTGTGGATATATAATTG	AATGATGTGGTGCAC TTGA	ATTGACATCGTCCAAA GCCT	60.1	551	INTERGENIC	--	--	--
Ca6_P1_10325204	Ca6	10325204	GTTTGA/GTTTGAATTGA	TTGGACGATGTCAATA CCCA	CATTGTCAATGGTCAA TCGTT	59.8	445	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_10330527	Ca6	10330527	GAAAAAAAAA/GAAAAAAAAAA A	ACCTTTCAAATGCGTT GACC	TCAAATGTTTGAGAGA CGCA	60.0	169	INTERGENIC	--	--	--
Ca6_P1_10344260	Ca6	10344260	T/TTTTTTTA	GAGGAGGGCTATCATC ACCA	GCGTGCAATTCGTCTA TCCT	60.0	609	INTERGENIC	--	--	--
Ca6_P1_10358114	Ca6	10358114	CTTTTT/CTTTTT	TGGTGAGGCCATTGAA GAAT	GGTCAACGCATTTGAA AGGT	60.5	579	INTERGENIC	--	--	--
Ca6_P1_10360535	Ca6	10360535	TTACTA/TTA	TGCTGGGACTCATCCT TACC	TCCACGCATTGACTC ATAAA	60.1	895	INTERGENIC	--	--	--
Ca6_P1_10362594	Ca6	10362594	ATCTT/AT	CGATGAAATCGAAATC CACA	ATTGCAAGAGGAGCGT GAAT	59.5	384	INTERGENIC	--	--	--
Ca6_P1_10365059	Ca6	10365059	TAA/TA	TCATTCGATTGCTTATT TATTTCA	CACTGGACGTTGTAC CGTG	59.1	356	INTERGENIC	--	--	--
Ca6_P1_10377538	Ca6	10377538	ATA/ATATTATTATTA	CTCGATTGGGCGAAA ATAA	TTGGCGCATCAATTT TGTA	60.0	549	INTERGENIC	--	--	--
Ca6_P1_10377821	Ca6	10377821	ATGT/AT	CTCGATTGGGCGAAA ATAA	TTGGCGCATCAATTT TGTA	60.0	549	INTERGENIC	--	--	--
Ca6_P1_10384260	Ca6	10384260	GATATTAT/GAT	AATAACTGCAAGGCA TCCG	AACGAATCCACCCATG AAGA	60.1	299	INTRON	Ca_08554	O	C2H2
Ca6_P1_10395343	Ca6	10395343	TAAAAAAAAAAAA/TAAAAAAAAA	GTGTGTGGGTTTTGG CTTT	TTTGCAAGCAAGGCAAC ATAG	59.9	565	INTRON	Ca_08553	R	MYB_related
Ca6_P1_10398370	Ca6	10398370	AT/ATCT	GTTGTATTTGCGTTGC CCTT	CTCCTGGAGCACGAAA ACTC	60.0	569	INTRON	Ca_08553	R	MYB_related
Ca6_P1_10398506	Ca6	10398506	A/ACACAAATGTT	GTTGTATTTGCGTTGC CCTT	CTCCTGGAGCACGAAA ACTC	60.0	569	INTRON	Ca_08553	R	MYB_related

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_10400999	Ca6	10400999	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA AAAAA	TGTCTTGC GTTTAGT GGCT	GTGTTTGGCGATTCCC TTTA	58.6	618	INTRON	Ca_08553	R	MYB_related
Ca6_P1_10406411	Ca6	10406411	TTTTAAAAAT/TTTTAAAAATTTAAAAA T	CCGGTACAAAAAGCAA GGAG	GTGGCAACCTTCTCTT CGAC	59.7	432	INTERGENIC	--	--	--
Ca6_P1_10412258	Ca6	10412258	GAAAAA/GAAAAAA	AGGGCCAAACTTGGAT CTTT	TTTTCACAAGCTCACA GGGA	59.9	374	INTERGENIC	--	--	--
Ca6_P1_10414754	Ca6	10414754	CTTTTT/CTTTTTTTT	GGGGTGATGGAAAAAT CAGA	TCCCCGAAAATACAAT TCCC	59.7	919	INTERGENIC	--	--	--
Ca6_P1_10417732	Ca6	10417732	TGG/T	CTCACTTGTTGGGTTT CCTCT	CCCCCTCGAACACAA AATA	58.3	369	INTERGENIC	--	--	--
Ca6_P1_10431174	Ca6	10431174	GAAAT/G	GCTAATTCTCATCCGC AAGC	TCACAACCCCAAGACA ACAA	60.0	703	INTRON	Ca_08552	R	--
Ca6_P1_10432027	Ca6	10432027	CTTTT/CTTTTT	CTACCACCAGCCGATT GATT	ATATGCGGCCCAACAAT AGAG	60.0	304	INTRON	Ca_08552	R	--
Ca6_P1_10432473	Ca6	10432473	AGGG/AGGGG	GACAACTCTATTGTGG GCCG	TGCACGATTGGAATTA AGCG	60.5	465	INTRON	Ca_08552	R	--
Ca6_P1_10438851	Ca6	10438851	CA/C	TCTCTTGAACCTCTC GACAA	ATTGGTCCTCTACCCC CATT	60.0	302	DRR	Ca_08552	R	--
Ca6_P1_10439181	Ca6	10439181	TCACA/TCA	CCACAATGAAATGGGG GTAG	ACCTCAGCCGCACTAT TTGT	60.0	683	DRR	Ca_08552	R	--
Ca6_P1_10457521	Ca6	10457521	TA/TCTTTTTCTAAGTCA	TTCCTTCGGTCTTGTC TGCT	ATTTCGGATCATGCAA CACA	60.0	551	INTRON	Ca_08551	--	--
Ca6_P1_10457902	Ca6	10457902	TGG/TGGG	TGTGTTGCATGATCCG AAAT	GGTTTGAGAGGAAGAA GGGG	59.9	176	INTRON	Ca_08551	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected 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_P1_10458622	Ca6	10458622	TGGATG/T	CAGAGTTGGAGTGGT CAA	TTTTCAGTTTCGCCAT GGAT	59.9	567	INTRON	Ca_08551	--	--
Ca6_P1_10463184	Ca6	10463184	GATAATAATAATAATAA/GATAATA ATAATAATAA	TGAATTGCACGAATAG CCTTC	GCACAATTTGCACGAA CAGT	60.2	823	INTERGENIC	--	--	--
Ca6_P1_10463349	Ca6	10463349	GAAAAAAAAAAAA/GAAAAAAAA	CGAGACAACATAACCT TTCAGTG	GTTCTCTGGGACAAAAC TCCA	58.8	676	INTERGENIC	--	--	--
Ca6_P1_10472712	Ca6	10472712	TAAAAAA/TAAAAAA	AACCAGATCAGATTGT CGCC	TGGGATGAATTTGGAT CATTT	60.1	852	INTERGENIC	--	--	--
Ca6_P1_10476151	Ca6	10476151	TA/T	GCCCATTTATGGGGT ATTT	GCTCTGTGGGAACCTGA GGAG	59.8	595	INTERGENIC	--	--	--
Ca6_P1_10476196	Ca6	10476196	ATTTTT/ATTTTTT	GCCCATTTATGGGGT ATTT	GCTCTGTGGGAACCTGA GGAG	59.8	595	INTERGENIC	--	--	--
Ca6_P1_10476239	Ca6	10476239	ATTTTTTTTT/ATTTT	GCCCATTTATGGGGT ATTT	GCTCTGTGGGAACCTGA GGAG	59.8	595	INTERGENIC	--	--	--
Ca6_P1_10482318	Ca6	10482318	CA/C	CAAGTGGGAAAATGGC AAGT	ATTGGATTGAGTTGGG CTTG	60.0	535	INTRON	Ca_08548	E	CAMTA
Ca6_P1_10482397	Ca6	10482397	AG/A	CAAGTGGGAAAATGGC AAGT	ATTGGATTGAGTTGGG CTTG	60.0	535	INTRON	Ca_08548	E	CAMTA
Ca6_P1_10482454	Ca6	10482454	GACTTA/GA	CAAGTGGGAAAATGGC AAGT	ATTGGATTGAGTTGGG CTTG	60.0	535	INTRON	Ca_08548	E	CAMTA
Ca6_P1_10485292	Ca6	10485292	CGAAGA/CGA	CGGTGGTCGTATGTAT GCAG	TTCTGACCTATCTCCG GGTG	60.0	704	DRR	Ca_08547	G	C2H2
Ca6_P1_10486008	Ca6	10486008	ATTT/ATTTTT	AATCAAGTATTTGTCC GGCG	TCTGTGGAAGCAAGAT GCAC	60.0	650	DRR	Ca_08548	E	CAMTA

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_1049252	Ca6	1049252	ATTTTTTTTT/ATTTTTTTTT	TTATTCACCGTCTCCC TTGG	TGAGGTAATTGGAAT TTTAGGGA	59.9	539	INTERGENIC	--	--	--
Ca6_P1_10492686	Ca6	10492686	ATTTT/ATTT	TATGTGCTCTCACCCC ATGA	CCAGAAGTTTGGGGA ATGA	60.1	599	INTRON	Ca_08547	G	C2H2
Ca6_P1_10493244	Ca6	10493244	ATT/ATTT	ACTTCTGTAGCAAGGG GCAA	GTCTCACTGTGGTGTG GGTG	59.9	553	INTRON	Ca_08547	G	C2H2
Ca6_P1_10497132	Ca6	10497132	CAAAATAAATAAATAAATAAA/CAA ATAAATAAATAAATAAA	ACCACCTTTGAGACAA ACCG	GTTTCAGTGGTTTCC CTGT	60.0	291	INTRON	Ca_08547	G	C2H2
Ca6_P1_10502342	Ca6	10502342	ATT/ATTTCAACTT	AAAATTGGGTGGAGTT GCAG	TGCAGTGGGTGGTAT GAGA	60.0	510	INTERGENIC	--	--	--
Ca6_P1_10502468	Ca6	10502468	AG/A	TTGCAAAATTGGTGTGG AAGA	TGACCTCAACGTGAGA CAGAA	60.1	390	INTERGENIC	--	--	--
Ca6_P1_10507939	Ca6	10507939	TTATATATAT/TTATATATATAT	TGTCATTCTGTATCT CCTCAA	TTTTTAAATTTTCATCT GCACTGG	58.2	467	DRR	Ca_08544	S	--
Ca6_P1_10508310	Ca6	10508310	TAAAAAAAA/TAAAAAAAAA	TGTCATTCTGTATCT CCTCAA	GAAAACGGGCACCAA GAGTA	58.2	719	DRR	Ca_08544	S	--
Ca6_P1_10509593	Ca6	10509593	TGAGAGAGAGAGAGAGAGAGAGA GAGAGAGAGA/TGAGAGAGAGAGAGA GAGAGAGA	TATTTTGTGTGGCCCA ATCC	GGCCTTGGACACCTTT AACA	60.6	447	INTRON	Ca_08544	S	--
Ca6_P1_10511768	Ca6	10511768	TATTATTAATAGAATTATTAATAGAAT/ TATTATTAATAGAAT	AATTGATCTTTGCGGC ATTC	TTGCACGTCAAGAAAG TTGC	60.0	580	INTRON	Ca_08544	S	--
Ca6_P1_10513025	Ca6	10513025	GTA/GTATATA	TGAAAAATCGCAAACG CATA	ATTTGTTCAGCCACTG GAGG	60.2	433	INTRON	Ca_08544	S	--
Ca6_P1_10514411	Ca6	10514411	CAAAAAAAAA/CAAAAAAAAAA	TTCGCAATCTGTGTTTT TCG	CAAGAATTCGTATCGT CTAAATGC	59.8	642	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected 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_P1_10514563	Ca6	10514563	TAAAAAAAAA/TAAAAAAAAAAAAA	TCACCAATCCTATGCT GTTGTC	ACGAAGTGACACATGA CCCA	60.0	924	INTERGENIC	--	--	--
Ca6_P1_10555535	Ca6	10555535	GT/GTATTATT	AGCATGTGGAGCAGTT GTTG	CCCCGTTAATCCACTT GCTA	59.9	445	INTERGENIC	--	--	--
Ca6_P1_10556404	Ca6	10556404	ATTTT/ATTT	CGACATCAATGCTACA TGTCAA	TCTCAAGTGTGCCCGT CATA	59.6	485	INTERGENIC	--	--	--
Ca6_P1_10559368	Ca6	10559368	T/TG	CGCCCTAGGTGCTTGT TTTA	TGGATGGATGTTTGCA ATGT	60.3	417	INTERGENIC	--	--	--
Ca6_P1_10563725	Ca6	10563725	TA/T	TCGAAAAAGCGGATG TTAC	GGGTGTCACATGTTGA TGGT	60.1	916	INTERGENIC	--	--	--
Ca6_P1_10564000	Ca6	10564000	TAAAAA/TAAAAA	GAAATCCCAATCCAA ATTTCA	GCAGCACACAGCATAG GAAA	60.0	567	INTERGENIC	--	--	--
Ca6_P1_10564033	Ca6	10564033	AATATAT/AAT	GAAATCCCAATCCAA ATTTCA	GCAGCACACAGCATAG GAAA	60.0	567	INTERGENIC	--	--	--
Ca6_P1_10564108	Ca6	10564108	ATTTTTTTTT/ATTTTTT	GAAATCCCAATCCAA ATTTCA	GCAGCACACAGCATAG GAAA	60.0	567	INTERGENIC	--	--	--
Ca6_P1_10564399	Ca6	10564399	CTT/CTTT	TTTCCTATGCTGTGTG CTGC	CTTTTCACCCTTGATC GGAA	60.0	611	INTERGENIC	--	--	--
Ca6_P1_10564542	Ca6	10564542	AATATATATATATAT/AATATATATATA TATAT	TTTCCTATGCTGTGTG CTGC	CTTTTCACCCTTGATC GGAA	60.0	611	INTERGENIC	--	--	--
Ca6_P1_10575204	Ca6	10575204	GAAAAAAAA/GAAAAAAAAA	AAGATCAGAGCTTTTG CCCA	CAAAGAAAGGAAACAG AGCGA	60.0	733	INTERGENIC	--	--	--
Ca6_P1_10576207	Ca6	10576207	TTGGTAAACT/TT	AAGGAAAGGTATCAT GGGG	AATTGGTGAGGTGTCC CTTG	60.0	701	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_10576490	Ca6	10576490	CTTTT/CTTTT	TTGCCAAGGTTAATG CACA	ATGGTGGTTGCTAGGT TTGC	60.1	888	INTERGENIC	--	--	--
Ca6_P1_10584040	Ca6	10584040	ATTTT/ATTT	TTCCCAACCTACGGTG AAAC	GGGAGTATTGGGCTT GAAAT	59.8	708	INTRON	Ca_08540	J	bZIP
Ca6_P1_10587047	Ca6	10587047	A/AC	CACCCAGTCGCTCACA ATTA	CACGACCTTCCTTGG TTGT	59.7	824	INTERGENIC	--	--	--
Ca6_P1_10593283	Ca6	10593283	CAATAATAAT/CAATAAT	TTGAGTGGTCACAAA ACTTGG	TTTCTCCACCAACCT CACC	60.0	647	INTERGENIC	--	--	--
Ca6_P1_10604574	Ca6	10604574	TTAT/TTATTTATTATCTAT	GCAAGGCTTGTGGT GTTT	AAAGCGAGATCTGAAC CGAA	60.2	264	INTRON	Ca_08537	H	--
Ca6_P1_10606251	Ca6	10606251	CTATA/CTA	CATGGGTTAGAGGAAG GCAA	TTTATACTTTCCGCC CACG	60.1	723	DRR	Ca_08537	H	--
Ca6_P1_10608315	Ca6	10608315	TG/TGG	ACCCGCTTAATTGTGG CTAA	ACATTACCCGCATCCA CCTA	59.6	383	INTERGENIC	--	--	--
Ca6_P1_10611247	Ca6	10611247	TAATAAAATAAAATAAA/TAATAAAT AAATAAAATAAA	TCTGACATGACAAAAT GGTGG	TCGGAATTGGTCCGAA ATTA	59.4	409	DRR	Ca_08536	K	HSF
Ca6_P1_10611559	Ca6	10611559	AG/AGTTTACACTTCCGATG	ATATTTTCTCCAAGG GCGG	TTGTTTGGTTCAAGGG AAGG	60.3	711	DRR	Ca_08536	K	HSF
Ca6_P1_10620739	Ca6	10620739	TTTATTA/TTTA	TTTGCTATTATGAACAC CGCA	GGATCTGAAATCCCCT CTCC	59.2	179	INTERGENIC	--	--	--
Ca6_P1_10621502	Ca6	10621502	TA/TAA	TGTTATGCAGGCACGA CAAT	CATCCCAAGTTTAGGG ATTTTG	60.1	209	INTERGENIC	--	--	--
Ca6_P1_10622699	Ca6	10622699	TCACGCTAGCAAATAGC/TC	ATCAGCGATGTGCACA ATTT	CAACCGTTGTTCGAGG CTAT	59.2	569	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_10623188	Ca6	10623188	TATAA/TA	CTGAGGCGGCAGAGT AATTC	TTTTGGCATCCACTTC AATTT	60.0	490	INTERGENIC	--	--	--
Ca6_P1_10623269	Ca6	10623269	AT/A	CTGAGGCGGCAGAGT AATTC	CCAAACTCCCTCACTA CCCA	60.0	906	INTERGENIC	--	--	--
Ca6_P1_10631599	Ca6	10631599	ATTT/ATT	CTGACACAAAATCCAC CACG	ACCACCACGGAATGA TTGT	60.0	812	DRR	Ca_08534	R	NAC
Ca6_P1_10642500	Ca6	10642500	C/CCTATAGA	CGATTTGACAGCAAAA GCAA	GACAACCTTCGTTGCC CTAA	60.0	437	INTERGENIC	--	--	--
Ca6_P1_10649792	Ca6	10649792	ATTTTT/ATTTTTTT	GACGGTTATGGAGCCT TCAA	TTCGATATCTTGTCCT TCCC	60.1	363	DRR	Ca_08532	--	HSF
Ca6_P1_10649918	Ca6	10649918	GTTTGTTTTGTTTTGTTTT/GTTTGTTTT TGTTTTGTTTTGTTTT	GACGGTTATGGAGCCT TCAA	TTCGATATCTTGTCCT TCCC	60.1	363	DRR	Ca_08531	I	--
Ca6_P1_10657533	Ca6	10657533	C/CTT	ACATCTCTCATTGCC ATCC	ATCAGGTGCTTTGCTG CTTT	59.9	769	INTRON	Ca_08531	I	--
Ca6_P1_10660162	Ca6	10660162	TTAT/TT	CTAGTGAGCATTGCGA GCAG	CTTGTGAGGCAGTCCA ATCA	59.9	372	INTRON	Ca_08531	I	--
Ca6_P1_10660292	Ca6	10660292	A/AGTACT	CTAGTGAGCATTGCGA GCAG	CTTGTGAGGCAGTCCA ATCA	59.9	372	INTRON	Ca_08531	I	--
Ca6_P1_10661552	Ca6	10661552	CAAAAAAAAA/CAAAAAAAAA	AAAAGACGCGAAAACG AAGA	TCCTTCTTGTAGCGAA GGGA	60.0	492	INTERGENIC	--	--	--
Ca6_P1_10661871	Ca6	10661871	GA/G	TCCCTTCGCTACAAGA AGGA	TTTGCGACAAACTTGA GCTG	59.9	752	INTERGENIC	--	--	--
Ca6_P1_10663689	Ca6	10663689	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA AA	CTTGTTACAGCCGGC TAAA	GCACTGTTACCGTGA TTGT	61.3	639	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_10664790	Ca6	10664790	TC/T	TGCTTGGTACCACAA GACAA	AAATTTCTGTTCAAAA ATCTTGT	60.6	767	INTERGENIC	--	--	--
Ca6_P1_10665216	Ca6	10665216	ATTTTT/ATTTTTTT	CAAAAACAAGATTTTG AAACGAA	TCAAAAGTTTCGAGCA ATACGA	59.6	398	INTERGENIC	--	--	--
Ca6_P1_10665427	Ca6	10665427	TGAAAATTAGAAA/TGAAA	CAAAAACAAGATTTTG AAACGAA	CATTGCAATCGTTGT GTGA	59.6	777	INTERGENIC	--	--	--
Ca6_P1_10677110	Ca6	10677110	TCCCC/TCCCCC	TTCAACACGTGCATGG AAAT	GCTAACACATGATTC CGCA	60.0	581	INTRON	Ca_08530	--	bHLH
Ca6_P1_10686252	Ca6	10686252	TACAC/TAC	CCAGCTTCTTGTGTG TGGA	CAGAGGCAACAAGCTC AGTG	59.9	609	INTRON	Ca_08529	--	G2-like
Ca6_P1_10687161	Ca6	10687161	TTTTTT/TTTTTCTTTTT	AACCCATCATCCACG TTTA	CATGCTCAGACATC CTCAA	60.1	363	INTERGENIC	--	--	--
Ca6_P1_10693997	Ca6	10693997	CT/C	GTCTGCCCTGTTGGAC ATTT	TGTCAGCCAAGTTTCG TGAG	60.0	423	INTERGENIC	--	--	--
Ca6_P1_10694384	Ca6	10694384	TGACATGGAA/TGACATGGAAGACAT GGAA	GTCTGCCCTGTTGGAC ATTT	ATATGGGTACGTGGGT TCCA	60.0	792	INTERGENIC	--	--	--
Ca6_P1_10708022	Ca6	10708022	GCT/GCTGAATCT	CCAAGGGTTGGCTAGA ACTG	TGGAAAATATGTGTGG GATCAG	59.7	689	DRR	Ca_08527	GC	HSF
Ca6_P1_10708360	Ca6	10708360	CTGAT/CT	TGAAATTCGTTGCAA AACAA	GTGTGGCTGAAATGC ATGA	59.2	940	DRR	Ca_08527	GC	HSF
Ca6_P1_10708721	Ca6	10708721	ATTTT/ATTT	TGAAATCAACTGATC CCACA	TCCTTTGGTGGTGT CCTC	59.0	811	DRR	Ca_08527	GC	HSF
Ca6_P1_10841758	Ca6	10841758	CCACAC/CCAC	TCGGTAGTGGTTGATG GTGA	GATGGAATGTTTCGAC ACCC	60.0	788	INTRON	Ca_08513	K	MIKC

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected 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_P1_1094043	Ca6	1094043	ATTTT/ATTTT	TGTCATGGCAACATTC ACAA	TCCTGCCACCATCTTT AACC	59.5	572	DRR	Ca_13316	--	--
Ca6_P1_10948550	Ca6	10948550	GTT/GT	TGATTGACGTTCTCATT TCTCAA	TGCATGAACAAAATTC CAACA	59.7	480	INTERGENIC	--	--	--
Ca6_P1_10957794	Ca6	10957794	TATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATA/TA TAATAATAATAATAATAATAATAAT AATAATAATAATAATAATAATAATA ATAA	TGAAATCTTTTGAATC CCCA	TTTCGAAGAAGGCGAT AACAA	59.4	723	INTERGENIC	--	--	--
Ca6_P1_10968845	Ca6	10968845	AATATATATATATATATATATATAT/ AATATATATATATATATATATATATA TAT	TGAAACTTCATTTTCT TTATTGAGTC	GCACATGGTTGCATGA AAAA	58.5	637	INTERGENIC	--	--	--
Ca6_P1_10996871	Ca6	10996871	AG/A	TTTACTGGTTCGACCA TTGC	AAC TTGTAGGTCGTCC ATAACTTTC	58.6	508	INTERGENIC	--	--	--
Ca6_P1_10996887	Ca6	10996887	GAAAAAA/GAAAAAAA	ACTGGTTCGACCATTC CTTT	AAC TTGTAGGTCGTCC ATAACTTTC	59.6	505	INTERGENIC	--	--	--
Ca6_P1_11089462	Ca6	11089462	AA/AATA	AGCGACGCGTCTCAAT TACT	AACCGCAAATAATTCC ACCA	60.0	777	INTERGENIC	--	--	--
Ca6_P1_11197244	Ca6	11197244	TAAAAAAAA/TAAAAAAAAA	TCAAGAGAATAAGGGA GGGGA	CAATTCCAATTCCAAC CCAC	60.0	515	INTERGENIC	--	--	--
Ca6_P1_11242264	Ca6	11242264	ATTTCCTTCTTCTTCTTCTTCTTCTT CTTTCCTT/ATTTCCTTCTTCTTCTTCTT TCTTCTTCTTCTT	CACTCATGGCTGGTTC AAGA	CACCAACTGCAGCAAA CAGT	59.8	360	INTRON	Ca_20490	--	--
Ca6_P1_11257730	Ca6	11257730	TC/TCC	TCATCAAATTCGTAAC GCAAA	TGCCAAAACGTACCA CCAA	59.2	476	INTERGENIC	--	--	--
Ca6_P1_11276510	Ca6	11276510	AAAAGCATATA/AAAAGCATATAACA AAGCATATAA	CGAAACAAGCATGACT CCAA	AGTTGAACGTTTCCAC CATTG	59.8	352	INTERGENIC	--	--	--
Ca6_P1_112870	Ca6	112870	TG/T	AACTCCTTGGGACCGT GATT	ACCTTGAACGAGGAGC AAAT	60.7	242	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_11310794	Ca6	11310794	AAACCGAAC/AAACCGAACGAAC	CATTATGCTGAATGAT GCCG	TTTTTCCTTTTGGTG ATGG	60.1	742	INTERGENIC	--	--	--
Ca6_P1_11310976	Ca6	11310976	AT/ATT	TTTGTCCAGAGAAT TTGG	TTTTTCCTTTTGGTG ATGG	60.0	175	INTERGENIC	--	--	--
Ca6_P1_11315858	Ca6	11315858	ATTT/ATTTT	GTTTGTGTGGTTGCA GTGG	GCTGATTGGTTGCC TCTC	60.0	399	INTERGENIC	--	--	--
Ca6_P1_11344092	Ca6	11344092	CTTTTTTTTT/CTTTTTTTTTT	TTGACATGTTTTATTG TGTGAA	CGTGGATGTAGCAA GAGGT	58.0	652	INTERGENIC	--	--	--
Ca6_P1_11367342	Ca6	11367342	CAAAAAAAAA/CAAAAAAAAA	TAGATCCACCTTCAAA CCCG	AAAAGCGGTGACAGT GGAC	59.9	667	INTRON	Ca_23422	K	ARR-B
Ca6_P1_11367625	Ca6	11367625	GAAAAAAAAAAAAA/GAAAAAAAAAAAAA	TAGATCCACCTTCAAA CCCG	TCCATTCTCCAACACC ATCA	59.9	809	INTERGENIC	--	--	--
Ca6_P1_11391053	Ca6	11391053	ATTTTTTT/ATTTTTT	CGACGAAAATAGAGG ACCA	TGTGGGAGCCACATGT ATTT	60.1	370	INTERGENIC	--	--	--
Ca6_P1_11391974	Ca6	11391974	TC/T	TGAGAGCCACGTGAT TTGTG	GCCGCACACTCCATTA TTTT	59.8	238	INTERGENIC	--	--	--
Ca6_P1_1142603	Ca6	1142603	TTTATTATTATTATTATT/TTTATTATTATTATTATTATT	TATTTTCCACAATCGCA CCA	GGTTTTAAACGCACCC AAAA	59.9	511	INTERGENIC	--	--	--
Ca6_P1_11464290	Ca6	11464290	TAAAA/TAA	AGGAAAAGGAGGAGG ATGGA	GTGCCAAAACAAATGA CGTG	60.0	638	INTERGENIC	--	--	--
Ca6_P1_11467597	Ca6	11467597	CTTTTTTTTT/CTTTTTTTTTT	GCCCTGCATTCAATCA ATTT	GAGAATGAACCGCTTG TCCT	59.9	521	INTERGENIC	--	--	--
Ca6_P1_11484092	Ca6	11484092	AATATATATATATATATAT/AATATA TATATATATATATAT	TTGTTTACTCTATCTTT TCGCCC	TTTCGAAAAGATTGAA AGGG	58.9	647	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_1150676	Ca6	1150676	CAATAATAATAATAATAATAATAAT AATAATAATAATAATAATA/CAATA ATAATAATAATAATAATAATAATAA TAATAATAATAATAATAATAATAA	CCGGTAAGTAGAGCAG TGGC	TGCCCTCAAAGAGGA AAAA	59.9	949	INTERGENIC	--	--	--
Ca6_P1_11546492	Ca6	11546492	GTAAAA/G	TCGGAAAGGTCATTCA AAGC	TTTGTGTCCAAAGCAT TCTCC	60.2	472	INTERGENIC	--	--	--
Ca6_P1_11568209	Ca6	11568209	ATTTTTTTT/ATTTTTTTT	ATTGCCCAACCAATTAT GGA	GAGGGTGCATCAGC TAAAG	60.0	593	INTERGENIC	--	--	--
Ca6_P1_11569101	Ca6	11569101	T/TAAGTAA	CAAAAGGGGTATTTT GGTTC	CGTTCAATTTCTGCG AAAT	59.6	499	INTERGENIC	--	--	--
Ca6_P1_11588947	Ca6	11588947	CAAA/CAA	ATATCCCATGAGCAAT CCCA	TGGGAGGGAACCCAT ATGTA	60.1	677	INTERGENIC	--	--	--
Ca6_P1_11592242	Ca6	11592242	GTTA/GTTATTGAATTCCTTTA	TGTTGAACTCAAGGAT TGCG	ACCCAATTTGTTGGG ATGA	59.8	611	INTERGENIC	--	--	--
Ca6_P1_11617529	Ca6	11617529	GA/GAA	TTGGGAGTTCATTTGC ATCA	TTTGTGAAGATATTTG TTTCTCG	60.0	905	INTERGENIC	--	--	--
Ca6_P1_11617707	Ca6	11617707	AATATATATATATATATATATATA T/AATATATATATATATATATATAT ATATATATAT	GAGGCATCGTTTCACA ATGA	AGGTTTGCAGGACT GTGTT	59.7	809	INTERGENIC	--	--	--
Ca6_P1_11620567	Ca6	11620567	ACCCC/ACCCCC	ACCCGTGAAGGTATGA GCAC	AGTGCGCCATCATTTT TAGG	60.0	118	INTERGENIC	--	--	--
Ca6_P1_11623529	Ca6	11623529	C/CT	TTCCGAAAACTTGAT GGTC	TTCTCCTTGAAGCTGT CGGT	59.9	263	INTERGENIC	--	--	--
Ca6_P1_11630320	Ca6	11630320	AAGTAGT/AAGT	TGCATATGTGTGGGG AATA	GCTTGATACTTGCCAA AGCC	59.6	621	INTERGENIC	--	--	--
Ca6_P1_11630633	Ca6	11630633	ATTTTT/ATTTTT	GCTTTGCCAAGTATCA AGCC	AAGGGCCCATTTAAGA GCAT	59.9	331	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_11631502	Ca6	11631502	TGAGA/TGAGAGA	CTGCTTCTATTCTTTCG CGG	GGAGGAAGGGCTAAC TTTGG	60.1	562	DRR	Ca_25057	S	--
Ca6_P1_11631784	Ca6	11631784	ATTTTTTTT/ATTTTTTTT	CTGCTTCTATTCTTTCG CGG	GGAGGAAGGGCTAAC TTTGG	60.1	562	DRR	Ca_25057	S	--
Ca6_P1_11631813	Ca6	11631813	TAAAAAAAAA/TAAAAAAAAA	CTGCTTCTATTCTTTCG CGG	GGAGGAAGGGCTAAC TTTGG	60.1	562	DRR	Ca_25057	S	--
Ca6_P1_11631972	Ca6	11631972	CAAAAAAA/CAAAAAA	CCAAAGTTAGCCCTTC CTCC	AGCACTGACCTTTTGA GCGT	60.1	445	DRR	Ca_25057	S	--
Ca6_P1_11648330	Ca6	11648330	TACACAC/TACACACAC	TCCAGACCACTCCATT TTCC	GCACCATCCAATGGA GAGT	59.9	230	INTERGENIC	--	--	--
Ca6_P1_11649630	Ca6	11649630	GACTA/GACTAACTA	TTGCTTGTGCAAAAGA ATGC	TACTATGCGTGGACCC TTCC	60.0	522	DRR	Ca_25059	J	--
Ca6_P1_11650123	Ca6	11650123	TTAA/T	GGAAGGGTCCACGCAT AGTA	GCTTTTGTGGTGGCAC TTTT	60.0	827	DRR	Ca_25059	J	--
Ca6_P1_11654198	Ca6	11654198	GAAAAAAAAA/GAAAAAAAAA	GTTAACCTCGGTCAAG CTGC	TGTCGGCTCACGTTTT TGTA	59.9	891	INTERGENIC	--	--	--
Ca6_P1_11654526	Ca6	11654526	ATTTTTTTTTTT/ATTTTTTTTTTTT	GCGGCTAATAGTTGGT CGTG	TGTCGGCTCACGTTTT TGTA	60.7	543	INTERGENIC	--	--	--
Ca6_P1_11655132	Ca6	11655132	TAAACTAAAACTAAAACTAAAAAC TA/TAAACTAAAACTAAAACTA	GCATGGATGAAATCAA AAGC	TTGGGATGATCCAACA ACAA	58.2	333	DRR	Ca_25060	--	FAR1
Ca6_P1_11655226	Ca6	11655226	AATAACTTTTTA/AA	GCATGGATGAAATCAA AAGC	TTGGGATGATCCAACA ACAA	58.2	333	DRR	Ca_25060	--	FAR1
Ca6_P1_11656579	Ca6	11656579	TGACCG/TG	TCCCTCACTCATCACC ACAA	AACAGCTCCATCGCT AGAA	60.1	340	DRR	Ca_25060	--	FAR1

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_11663665	Ca6	11663665	TAAAAA/TAAAAAA	GCATTACCGATCATGG GTGT	CAGTCACGTCAAACGTG CTCG	60.6	676	INTERGENIC	--	--	--
Ca6_P1_11663719	Ca6	11663719	CAAAA/CAAA	GCATTACCGATCATGG GTGT	CAGTCACGTCAAACGTG CTCG	60.6	676	INTERGENIC	--	--	--
Ca6_P1_11667031	Ca6	11667031	AT/ATTT	TTCACCACAGAAACCA CCAA	ACGCTTTTCCCTGAGC ACTA	60.0	698	INTRON	Ca_25061	Q	G2-like
Ca6_P1_11680671	Ca6	11680671	TC/TTTCC	TAATCCATGGCGAACA CAAA	GCAATTGATGCTCGAA AACA	59.9	284	INTERGENIC	--	--	--
Ca6_P1_11680950	Ca6	11680950	C/CA	TAATCCATGGCGAACA CAAA	TCCAAAGTTTGCAGCA TTCA	59.9	581	INTERGENIC	--	--	--
Ca6_P1_11681178	Ca6	11681178	TTGTGTGTGTGTGTGT/TTGTGTGTGT GTGTGTGTGTGTGT	ATCAATTGCCATTTCG ATCA	TAGCATTTTGTAGGGG GAAA	59.9	692	INTERGENIC	--	--	--
Ca6_P1_11681306	Ca6	11681306	TAAAAA/TAAAAAA	TTTACTCGCAGAATT GGCA	AGCATTTTGTAGGGG AAAA	59.4	543	INTERGENIC	--	--	--
Ca6_P1_11681754	Ca6	11681754	GTTTTTTTT/GTTTTTTTTT	TTTCCCCCTCAAAAT GCTA	CCAACGAATCATGTCT CTCG	59.5	760	INTERGENIC	--	--	--
Ca6_P1_11681794	Ca6	11681794	TA/T	TTTCCCCCTCAAAAT GCTA	CCAACGAATCATGTCT CTCG	59.5	760	INTERGENIC	--	--	--
Ca6_P1_11682127	Ca6	11682127	T/TG	TGGTTTTGATGCTTGA ATTGAT	TTTGAATCACCAATG CGAA	59.5	552	INTERGENIC	--	--	--
Ca6_P1_11686125	Ca6	11686125	TAAAAAAA/TAAAAAAA	GGAGATGCGGTCTCTC AAAG	GTCCTAACGCTGCAGA CACA	60.0	395	INTERGENIC	--	--	--
Ca6_P1_11688551	Ca6	11688551	GAAAA/GAAAAA	TCTCTCTCTCTCTT CTCC	TGTTGCCCAAAACCAT CATA	59.9	557	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_11691624	Ca6	11691624	T/TA	CTTTGCAGCAAGTCAT TGGA	CCAAACTGGGGAGAA ACAA	60.0	871	INTERGENIC	--	--	--
Ca6_P1_11692783	Ca6	11692783	CTTTTT/CTTTTTTT	CAGCCACACTGACGCT AAGA	CGACCTCCTACTGGGT GAAA	60.2	555	INTERGENIC	--	--	--
Ca6_P1_11693152	Ca6	11693152	AATTATTATTATTA/AATTATTATTA	TTTCAACCCAGTAGGAG GTCG	TTTTCCAATTCAGGCC TTTC	60.1	681	INTERGENIC	--	--	--
Ca6_P1_11693651	Ca6	11693651	CAAT/CAATAATAATTAATAATAAT	GAAAGGCCTGAATTGG AAAA	CTCTTTGAGATGTCGC TCCC	59.1	539	INTERGENIC	--	--	--
Ca6_P1_11704737	Ca6	11704737	ATTTTT/ATTTTTTTTT	GTCGTTAATCGTCGTG ATCG	TAAAAATAACATGCG GGCG	59.2	624	INTERGENIC	--	--	--
Ca6_P1_11705047	Ca6	11705047	GTTTTTT/GTTTTTTTT	ATAAATATTGACGCC GCAT	CTTGTCGAGCTATGA TCCA	59.3	521	INTERGENIC	--	--	--
Ca6_P1_11710072	Ca6	11710072	ATTTTTTT/ATTTTTTTTT	GCAACGTTAGGTGGTC CAGT	TCCACGCATGATGAAC ACTT	60.0	467	INTERGENIC	--	--	--
Ca6_P1_11714611	Ca6	11714611	TAAAAA/TAAAAAA	CGGCTTTTGACCGACT CTAA	TTCGAGCAATAGCCAA GAAAA	60.4	503	DRR	Ca_25062	--	--
Ca6_P1_11716781	Ca6	11716781	CATATATATATATATAT/CATATATATA TATAT	TGTAAGGCTCATGATT CCCC	CGCCACCAGCAACTGT AGTA	59.9	757	INTERGENIC	--	--	--
Ca6_P1_11722419	Ca6	11722419	TATATT/TATATTAATATT	CCTTCGCCGTATATGA TTCC	AAGCAAAGGTCCTGAG CAAA	59.4	185	INTERGENIC	--	--	--
Ca6_P1_11726949	Ca6	11726949	CTTCAATTTCAAT/CTTCAAT	TTGAGCCCATATGTTGA CCCA	CTCCTCACTCACCACA AGCA	59.9	635	INTERGENIC	--	--	--
Ca6_P1_11727425	Ca6	11727425	ATAAG/A	TGCTTGTGGTGAGTGA GGAG	TTCCATGCCATAATCA TCCA	60.0	151	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_11727726	Ca6	11727726	AACACA/AACA	TGCTTGTGGTGAGTGA GGAG	TCCCGACGACTAACAA CTCA	60.0	563	INTERGENIC	--	--	--
Ca6_P1_11728216	Ca6	11728216	T/TG	TGAGTTGTAGTCGTC GGGA	TCATGAGAATGCCTTT GTGA	59.3	412	INTERGENIC	--	--	--
Ca6_P1_11731776	Ca6	11731776	CAAAAAAAAAAAAAAAAA/CAAAAAA AAAA	AGGGGCAACTGTCATA CACC	TTTCCCTGTTTTGGG ACTC	59.9	567	INTERGENIC	--	--	--
Ca6_P1_11732271	Ca6	11732271	CAAAAAAAAA/CAAAAAA	GAGTCCCAAAACAGG GAAA	AATCAAAGGGAAGGAG GGAA	59.0	548	INTERGENIC	--	--	--
Ca6_P1_11734034	Ca6	11734034	TAAAAAAAA/TAAAAAAAAA	GAACTACGCGAAAAAC GCAT	GAATTATTTGGGCGAA GCAA	60.3	613	DRR	Ca_25063	--	Trihelix
Ca6_P1_11734105	Ca6	11734105	GAAAAAAAA/GAAAAAAAAA	GAACTACGCGAAAAAC GCAT	GAATTATTTGGGCGAA GCAA	60.3	613	DRR	Ca_25063	--	Trihelix
Ca6_P1_11737556	Ca6	11737556	CTATATATATATAT/CTATATATATA TATATATATATAT	GCAAGCGCTATGTGAC CTTT	AATGTGAATCCACCA GGAA	60.4	770	INTERGENIC	--	--	--
Ca6_P1_11742023	Ca6	11742023	ATTTTTTT/ATTTTTTTT	GCGCTTCAATTTACAA CGCT	TTTTCGCAGAAATCA ATCA	60.4	614	INTERGENIC	--	--	--
Ca6_P1_11746077	Ca6	11746077	AATATATATATATATATA/AATATAT ATATATATATATATATATA	TGCAAGTCGAAATTCA CACG	TGGGTCAAGCCAATA AAAC	60.8	538	INTERGENIC	--	--	--
Ca6_P1_11746279	Ca6	11746279	TTA/TTAGTA	TGCAAGTCGAAATTCA CACG	TTTGTGGGAAAACCC AAAG	60.8	930	INTERGENIC	--	--	--
Ca6_P1_11755125	Ca6	11755125	GTCAAAGATTTTCTTCAA/GTCAA	CGATCATGTTCTGATTT TGTTCA	TGAAATCCCTGAGCT GGTC	59.9	527	INTERGENIC	--	--	--
Ca6_P1_11756937	Ca6	11756937	TAAA/TAAAA	TGCCTTAAGCAGGGAA GAAA	CAGGCTCGAAGTCCTT TTTG	60.0	595	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_11779723	Ca6	11779723	CGGT/C	CAACAAGGCCACATCA ACAC	AAGTTGCGGTAATCC ACAC	60.0	863	INTERGENIC	--	--	--
Ca6_P1_11784060	Ca6	11784060	ATTTTTTTTT/ATTTTTTTTT	TAAGTTGTCTGGGGA GGTG	GGGTCTACGGTGCGA TACTC	60.0	469	INTERGENIC	--	--	--
Ca6_P1_11785408	Ca6	11785408	ATTTT/ATTT	TGCAAACGCACATATA CACG	AATTTGAGCGGTGTGG GTAG	59.2	711	INTERGENIC	--	--	--
Ca6_P1_11788716	Ca6	11788716	TTTGGATAATTGGATAATTGGAT/TTT GGATAATTGGAT	GGTTCAGCAACCGAGA GTTC	TGATAATGCGACGAAA ACCA	59.9	363	INTERGENIC	--	--	--
Ca6_P1_11792161	Ca6	11792161	AAT/A	TGTTGGACGGACAATT GAAA	CAAAATGCCATAAAAT CGGC	59.9	408	INTERGENIC	--	--	--
Ca6_P1_11806357	Ca6	11806357	CATATATATATATATATAT/CATATATA TATATATATATAT	TCACCTAGGAATTCGG CATC	CGAGGTTGGAGTTGG ATCAC	60.0	711	INTERGENIC	--	--	--
Ca6_P1_11812792	Ca6	11812792	GAAAAAA/GAAAAAA	TACCCTTTGCTAGCCC CTTT	ATTTTGGAGGACTTT CGGG	60.1	442	INTERGENIC	--	--	--
Ca6_P1_1203992	Ca6	1203992	AATATATATATATATATATATATAT/ AATATATATATATATATATATAT	GGTGAGCACATTCGTT CAAA	ATGTGCCAACCAACA ACAA	59.7	234	INTERGENIC	--	--	--
Ca6_P1_120405	Ca6	120405	TCA/TCAAATCCA	GAGGCACAAAACCATC ATCC	CCCAAAATGTGGCTTT CAAT	60.3	562	INTERGENIC	--	--	--
Ca6_P1_12061832	Ca6	12061832	AT/ATT	ACATAGCTCCAGTCAG GCGT	ACCCAATTTGTCTGTGG TGAT	59.9	768	INTERGENIC	--	--	--
Ca6_P1_12189517	Ca6	12189517	CTATATATATATATATATATATATAT /CTATATATATATATATATATAT	GTTGACGCTCCGTGTA TGTTG	GGATATGGGTGGGAA TAGGC	60.2	801	INTERGENIC	--	--	--
Ca6_P1_12251969	Ca6	12251969	ATTTTTTTTT/ATTTTTTTTT	GGTAAATTGGTGAAA TTTTGCTT	CGCTCCCACTTTGGA AATA	59.7	858	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected 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_P1_12253200	Ca6	12253200	AATATATATATATATATATATATATA TATATATATATATAT/AATATATATATAT ATATATATATATATATATATATATAT ATATATATATAT	CTCCGTTTATCTCCGT TGGA	CGTGATGATTGATGCA TTTCA	60.1	746	INTERGENIC	--	--	--
Ca6_P1_12254420	Ca6	12254420	AATATATATATATATATATATATATA TATATA/AATATATATATATATATATAT ATATATATATATATA	CCTGTGGTTGGTTGTA GCCT	CTGGAGGTCACCTTCG ACAT	60.0	703	INTERGENIC	--	--	--
Ca6_P1_12321914	Ca6	12321914	AT/ATATGT	TGGGAAAAACTCGGAT GAAG	AATCGCCTTTTGCAAT GAAT	60.0	732	INTERGENIC	--	--	--
Ca6_P1_12325694	Ca6	12325694	TTATATATATATATATATAT/TTATAT ATATATATATATATATAT	TTGTGAATGGCATGTT TTGG	AGCCCCGATGTATTTT GTTG	60.4	680	INTERGENIC	--	--	--
Ca6_P1_12335628	Ca6	12335628	TGAAG/TG	GGAAGGGTGTGGTGT GTTT	TTGGTCACTAAGGGG GTGAG	59.7	968	DRR	Ca_24849	--	--
Ca6_P1_1239992	Ca6	1239992	CATATATATA/CATATATATATA	CGAGACCAAAGGTTTC TTGC	GACATGGCAATTTAGC TCAACA	59.9	684	INTERGENIC	--	--	--
Ca6_P1_12452125	Ca6	12452125	GTTTTTTTTTT/GTTTTTTTTTTT	GGGTTTGAGCTCAGTT TTGC	GGACGTGTTTCAAGG GTCAT	59.9	406	INTERGENIC	--	--	--
Ca6_P1_12535819	Ca6	12535819	TATT/TATTCTCATT	CGATCGATTGGAAGG AAAA	ACCTTTCGAAACAACC AACG	60.0	467	CDS (large-effect mutations)	Ca_05031	R	--
Ca6_P1_12543039	Ca6	12543039	TTATATATATATATATATATATATAT ATATATATATATATATA/TTATATATA TATATATATATATATATATATATA TATATATATATATATA	TTTCGACATAGGTTGT TAAGCTTTT	GAAACCAGTGAAC TTC TCCCC	59.7	590	INTERGENIC	--	--	--
Ca6_P1_12546084	Ca6	12546084	TAAAAAAAAA/TAAAAAAAAA	TTGTGGGATTTTGTG GTTTC	TCCCCTTCCAACAT TAAC	59.7	473	INTERGENIC	--	--	--
Ca6_P1_12562114	Ca6	12562114	ATGTGTGTGTGT/ATATGTGTGTGT GT	GCGAGTCTTAGGTCA CTTCAA	CAC TTCAATGATG TTC GGTATGA	59.4	564	INTERGENIC	--	--	--
Ca6_P1_12625824	Ca6	12625824	GAA/GA	CCATGTTGTGACAGAG TGGG	CAATTGTTGTCTAT TC TGCAA	60.0	683	DRR	Ca_05039	C	C3H

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_12663993	Ca6	12663993	TAAA/TAAAA	ATTGCCTTGCACACAC GTAA	CGGCTCGAACGGTAC ATATT	60.2	636	INTERGENIC	--	--	--
Ca6_P1_12721633	Ca6	12721633	TAAAAAAAAA/TAAAAAAAAA	CCGGAACCTTTTACC TACCG	AAAATTTATCCTGCAC CCCC	59.9	159	INTERGENIC	--	--	--
Ca6_P1_12732291	Ca6	12732291	TAAAAAAAAA/TAAAAAAAAA AA	TCGTCGGACATACGTC TAAGC	TTGTTGCATTTTCA GAGACG	60.3	455	INTERGENIC	--	--	--
Ca6_P1_12787897	Ca6	12787897	AATATATATATATATATATAT/AATA TATATATATATATATATAT	ATCAACAAATGTTGC GAGC	CAACCCCTATTTTG TGATTGA	58.8	749	INTERGENIC	--	--	--
Ca6_P1_12808800	Ca6	12808800	GTTTTTTTTT/TTTTTTTT	CATGGAATTGACGAAC ATCG	GAAGGTGTTGTGACA CTTCTAGC	59.9	360	INTERGENIC	--	--	--
Ca6_P1_12853638	Ca6	12853638	TAAAA/TAAA	CTCATCCATCACACCA AAGC	CTCAGATTCTGCGTCC ATCA	59.1	875	INTRON	Ca_05058	T	TALE
Ca6_P1_12856182	Ca6	12856182	TC/TCAAGTTCGAC	TCCAATGCTGGATTAG GCTC	GCATTATGAACATAA CGCCAA	60.2	512	DRR	Ca_05058	T	TALE
Ca6_P1_12859271	Ca6	12859271	ATTTTTTTTT/TTTTTTTT	GCAGACCAAGTTTCA TTGT	TGTTTTGAGATAGAGT GCTGCAA	60.1	568	INTERGENIC	--	--	--
Ca6_P1_12865045	Ca6	12865045	C/CTTTT	AACAACCAATTTGGAC GCAT	CCCCACACTTTATTC ACCA	60.2	720	DRR	Ca_05059	O	MYB_related
Ca6_P1_12865294	Ca6	12865294	ATTGT/ATTGTATATTTATTTTTTGT	CAAAATGGACACTTAA GGGGA	CTTCCACCCATTATGC CACT	58.9	948	DRR	Ca_05059	O	MYB_related
Ca6_P1_12865567	Ca6	12865567	GAAAAAAAAA/GAAAAAAAAA	CGCGTAACGTGGTGAA TAAA	CTTCCACCCATTATGC CACT	59.6	428	DRR	Ca_05059	O	MYB_related
Ca6_P1_12869795	Ca6	12869795	GAAAAAAAAA/GAAAAAAAAA	ACGCAAAACTTTGAG CCAT	ACGCCAGTCAAACTGA TTGC	59.8	635	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected 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_P1_12869869	Ca6	12869869	GAAAAAAAA/GAAAAAAAA	ACGCAAAACTTTGAG CCAT	ACGCCAGTCAAACTGA TTGC	59.8	635	INTERGENIC	--	--	--
Ca6_P1_12870186	Ca6	12870186	GTATA/GTA	TTGCAATCAGTTTGAC TGGC	ATTCGTTTTTGCTTGG GATG	59.8	555	INTERGENIC	--	--	--
Ca6_P1_12870795	Ca6	12870795	TAAAAAAAA/TAAAAAAAA	CATCCCAAGCAAAAC GAAT	CATTGAGAGGATCCAA AATCAA	59.9	533	INTERGENIC	--	--	--
Ca6_P1_12872062	Ca6	12872062	AGG/AG	TTTCTTTTCATCTGTGG GGC	CCCAACACAAAATCA TGGA	60.1	677	INTERGENIC	--	--	--
Ca6_P1_12877302	Ca6	12877302	CG/CGCTTTTTTTG	GTTCTGTAAGGACGGG ATGA	CTTTTACAGCGCTTTC TGGG	59.9	235	INTERGENIC	--	--	--
Ca6_P1_12879345	Ca6	12879345	TAAAAAAAA/TAAAAAAAA	TAAAGGACCAAGTCGG GAAA	ATCCAAGGAAAGCAT CGTG	59.5	599	INTERGENIC	--	--	--
Ca6_P1_12887141	Ca6	12887141	ATT/ATTT	TGAGCCGACAAATAGA GGAAA	CGTTACAAAACGTGA ACCG	59.8	453	INTERGENIC	--	--	--
Ca6_P1_12888866	Ca6	12888866	ATTTTTTTTT/ATTTTTTTTT	GCTACAATGGCACCCCT GATT	TTTGCTGTGTGGTAAG GCAC	60.0	655	INTERGENIC	--	--	--
Ca6_P1_12889567	Ca6	12889567	CTTTTTTTTT/CTTTTTTTTT	AAAGGGATCATCACAG CCAC	GACCCACTCCTGGTCC TGTA	59.9	646	INTERGENIC	--	--	--
Ca6_P1_12891974	Ca6	12891974	GAAAAAAAA/GAAAAAAAA	GGTAAAAGCCCACTTG GTGA	CCCTGTATTTGCTCTC CGAA	60.0	552	INTERGENIC	--	--	--
Ca6_P1_12894578	Ca6	12894578	CAAAA/CAAAAA	TTCTCTCCTAGCCCCT CCAT	AAAAATAGGCACGGCA ACAC	60.2	742	DRR	Ca_05063	--	--
Ca6_P1_12894895	Ca6	12894895	GAA/GAAA	TTGGTCTTTGCACTTT GCTG	CGGCCACTAATTGGTT AGGA	60.0	369	DRR	Ca_05063	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_12898258	Ca6	12898258	TAAAAAAAAA/TAAAAAAAAA	ACTACCATGTTGGTG GGGA	CACATTGAAAATCAAC TTTACACCA	60.1	646	INTERGENIC	--	--	--
Ca6_P1_12898372	Ca6	12898372	TATGA/T	TACCATGTTGGTGGG GATT	TGCTGATCTTTTCTC CAAAA	59.9	814	INTERGENIC	--	--	--
Ca6_P1_12899744	Ca6	12899744	TAAAAAAAAA/TAAAAAAAAA	TTGGATGTATACGGCG AACA	CAATCCACCTGAATGA AATCC	60.0	881	INTERGENIC	--	--	--
Ca6_P1_12904503	Ca6	12904503	A/AGAAACG	TGGCTCATACATTGA ATTTGTC	TTTGGTTGGTGTTC TGGTC	59.0	701	INTERGENIC	--	--	--
Ca6_P1_12905966	Ca6	12905966	T/TGA	AGAGTTGTCGCGAAA AGGA	TTACGCACCGACATA ATGA	60.0	203	INTRON	Ca_05064	T	bHLH
Ca6_P1_12906079	Ca6	12906079	GTTGTTTACGGAAATGGCT/GT	AGAGTTGTCGCGAAA AGGA	CTGCAGAAGTTCATGC CAAA	60.0	611	INTRON	Ca_05064	T	bHLH
Ca6_P1_12908820	Ca6	12908820	TGGG/TGG	TTGACTGCAGGTCATC CAAA	GACATGGAGCAGTTG GCATA	60.2	770	DRR	Ca_05064	T	bHLH
Ca6_P1_12909604	Ca6	12909604	CAAAA/CAAA	CAGTTATGCCAACTGC TCCA	TGTTGGTCTTCACCTG TCCA	59.9	494	DRR	Ca_05064	T	bHLH
Ca6_P1_12909901	Ca6	12909901	AT/ATT	TGGACAGGTGAAGACC AACA	TTCTTCTCCAATCA ATGC	60.1	696	DRR	Ca_05064	T	bHLH
Ca6_P1_12920553	Ca6	12920553	TAAAAAA/TAAAAAA	GGAAGGAAGGAGGTT CTTCAA	TGCACTGGTTTATTT GAGGG	59.7	585	INTERGENIC	--	--	--
Ca6_P1_12922857	Ca6	12922857	A/AC	TTTTACCGCGAAACA AATC	CAGAAACAGCAGAGAC AGCG	59.9	686	INTERGENIC	--	--	--
Ca6_P1_12923575	Ca6	12923575	TTTACATATCATTACA/TTTACA	TGTTGGCAGAGATGAA GTGG	ATGGGGATGCAGAAG AGAGA	59.8	772	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_12923927	Ca6	12923927	TAAAAAAAA/TAAAAAAAAA	GTTGGATTGGTGCTT GGAT	ATGGGGATGCAGAAG AGAGA	59.8	533	INTERGENIC	--	--	--
Ca6_P1_12930854	Ca6	12930854	CAA/CA	CAAAATTGGATATCTAT CCCCAC	ATTGCCCATGTAAACC GTGT	58.6	391	INTERGENIC	--	--	--
Ca6_P1_12931114	Ca6	12931114	GTATATAT/GTAT	AATGCATCGGTCAAAC CAAC	ATTGCCCATGTAAACC GTGT	60.8	362	INTERGENIC	--	--	--
Ca6_P1_12931395	Ca6	12931395	CAAAAAAAAA/CAAAAAAAAAA	CACGGTTTACATGGGC AATA	ATCTGGTATCAAATGC CCCA	59.3	493	INTERGENIC	--	--	--
Ca6_P1_12931486	Ca6	12931486	ATTTTTTTTT/ATTTTTTT	CACGGTTTACATGGGC AATA	ATCTGGTATCAAATGC CCCA	59.3	493	INTERGENIC	--	--	--
Ca6_P1_12931779	Ca6	12931779	TAAAA/TAAA	CTTGGGGCATTTGATA CCAG	TTGTTTGTGCGATAG TTGC	60.3	576	INTERGENIC	--	--	--
Ca6_P1_12933836	Ca6	12933836	TAAAAAAAA/TAAAAAAAAA	GTTAATCGAAAAAGAA AAGAGTAAAAA	CCCACTCCAATAAAT TTCACAA	57.3	622	INTERGENIC	--	--	--
Ca6_P1_12934565	Ca6	12934565	ATTTTTTTTT/ATTTTTTT	CGGTTTGAAGATGAGG TTCAC	TATTCAAGCAACGGCT GGT	59.6	691	INTERGENIC	--	--	--
Ca6_P1_12934614	Ca6	12934614	GAAAAAAAA/GAAAAAAAAA	CGGTTTGAAGATGAGG TTCAC	ATTATTCAAGCAACGG CTGG	59.6	693	INTERGENIC	--	--	--
Ca6_P1_12935007	Ca6	12935007	TA/T	GCAACAATCTAGAGG GAGGAA	GGGGGCACAAAGACA ACTAA	59.7	362	INTERGENIC	--	--	--
Ca6_P1_12940701	Ca6	12940701	TAAAAAA/TAAAAA	TAGCCTCTCTCCCAA CCTT	ATTATGGATTGGCAT TGGT	60.2	665	DRR	Ca_05066	--	--
Ca6_P1_12944263	Ca6	12944263	ATTTTTTT/ATTTTTTT	CATTGGTGCTTCAAAC CGAT	TCCCTCGTACTTCCAA AACG	60.9	533	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_12946505	Ca6	12946505	TA/TAA	ATTTTATTTCCCGCTTGCT	CATCTGGGTCTTTCATCTGC	59.9	723	INTERGENIC	--	--	--
Ca6_P1_12950292	Ca6	12950292	C/CAGTCA	AGGTCAGACTACATGGCGCA	CACAACCTCCCAATGCTTCT	61.8	562	INTERGENIC	--	--	--
Ca6_P1_12950692	Ca6	12950692	AATATATATAT/AATATATATATATAT	ATCATCGAAGAAGCATTGGG	TCAATTGAGCGAGTGTAGCG	60.0	633	INTERGENIC	--	--	--
Ca6_P1_12953295	Ca6	12953295	GTTTTTTT/GTTTTTTTTT	AAATTCATGGATCAATGGGAG	GGGGAGGGCGTTAGAAATA	58.7	267	INTERGENIC	--	--	--
Ca6_P1_12954436	Ca6	12954436	TAAAAA/TAAAA	TGAAATGATGAGGGGAGAC	CCCTTCATCCCTTACCCTTA	59.9	716	INTERGENIC	--	--	--
Ca6_P1_12955523	Ca6	12955523	T/TCAGG	TGTGCAATTGGATGTTGTTG	ACTCGTTTGGTCATTCGTGA	59.0	660	INTERGENIC	--	--	--
Ca6_P1_12955696	Ca6	12955696	GTTTTTAGTTATTTTATGTT/GTTTTAGTT	TGTGCAATTGGATGTTGTTG	ACTCGTTTGGTCATTCGTGA	59.0	660	INTERGENIC	--	--	--
Ca6_P1_12957093	Ca6	12957093	TAAAAA/TAAAAA	TGAATCCCGAAATTGACCAT	AAAAGCAAACAGTGTAACCG	60.1	404	INTERGENIC	--	--	--
Ca6_P1_12957392	Ca6	12957392	ATTTT/ATTT	TGAATCCCGAAATTGACCAT	AACTTTGGCACTTAAGGGGA	60.1	919	INTERGENIC	--	--	--
Ca6_P1_12957709	Ca6	12957709	T/TC	CGGTTACCTGTTTGCCTTT	TGAAAAGCTTGAGGAAGGGA	60.1	718	INTERGENIC	--	--	--
Ca6_P1_12958383	Ca6	12958383	TAAAAA/TAAAAA	TCCCTTCCTCAAGCTTTCA	TTTCTGGAAGAGGCAGAAGC	59.9	880	INTERGENIC	--	--	--
Ca6_P1_12958671	Ca6	12958671	CCTTCTTC/CCTTCTTCTTCTTCTTC	ACAGCTGAACACACATCCG	GATGAACCGATTGCCATCT	59.9	419	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_12958704	Ca6	12958704	CCTTCTTCTTCTTCTTCTTCTTCTTCTTC/CCTTCTTCTTCTTCTTCTTC	ACAGCTGAACACACATCCG	GATGAACCGATTGGCCATCT	59.9	419	INTERGENIC	--	--	--
Ca6_P1_12959033	Ca6	12959033	ATTTTTTT/ATTTTTTTT	GATGGCAAATCGGTTCATCT	TGAGCATGTGATTGAGGGAA	59.9	571	INTRON	Ca_05068	--	MYB_related
Ca6_P1_12961933	Ca6	12961933	GCA/GCATGTCATAGAATTTTAACA	TGGGCTTCCAAGTATTGACC	CAGGGGATACGACCTCTCAA	59.9	693	DRR	Ca_05068	--	MYB_related
Ca6_P1_12962337	Ca6	12962337	TG/TGG	AGCAAATTTCCCTTCCACCT	AAGAGACACATGGGGTTTGC	59.9	633	DRR	Ca_05068	--	MYB_related
Ca6_P1_12962474	Ca6	12962474	ATTTTT/ATTTTTTT	TTGAGAGGTCGTATCCCTCG	AAGAGACACATGGGGTTTGC	60.1	215	DRR	Ca_05068	--	MYB_related
Ca6_P1_12963634	Ca6	12963634	CAAAAA/CAAAAAA	TTTATTTTCCCTTTTCGCT	AAAGAGAACCATGCCACGAG	59.9	612	INTERGENIC	--	--	--
Ca6_P1_12965366	Ca6	12965366	ATTTTTTTTTT/ATTTTTTTTT	TTTCAACTGGACACTATTCTCTTCA	ATGATTGGATGAAAGAGCGG	59.4	341	INTERGENIC	--	--	--
Ca6_P1_12965600	Ca6	12965600	CAAAAA/CAAAAA	CCGCTCTTTCATCCAAATCAT	ACATTTTGCCTCATTTTCG	60.0	657	INTERGENIC	--	--	--
Ca6_P1_12965806	Ca6	12965806	TA/T	CCGCTCTTTCATCCAAATCAT	TTGCATTTGTGGGGTAAAT	60.0	801	INTERGENIC	--	--	--
Ca6_P1_12967108	Ca6	12967108	TA/TAA	ATAAGCCCCAAGACTGTCCA	CCCCCTTAATTTTGCATGGTT	59.6	664	INTERGENIC	--	--	--
Ca6_P1_12970311	Ca6	12970311	TA/T	CACAGACAGCTTGACACTGCT	CAACAGTGCCAACCAACAC	60.0	730	INTRON	Ca_05069	S	--
Ca6_P1_12972982	Ca6	12972982	GTTTTTTTTT/GTTTTTTTTT	AGTTGGTGAGAGGAAGCGAA	GTCCAACCCAGTGGAAGAAA	60.0	487	INTRON	Ca_05069	S	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_12979257	Ca6	12979257	TATAAAATATTTTCATAA/TATAAAATA TTTTTCATAAAATATTTTCATAA	CCAGCAGTTTGTGATG TGTG	AGGTGTGCTTCCTCGT GAAT	60.2	545	INTRON	Ca_05071	O	E2F/DP
Ca6_P1_12981155	Ca6	12981155	G/GC	ATTGAAAATGCACCAC GACA	GGAATTTTGGTGGGG AGAAT	60.0	417	INTRON	Ca_05071	O	E2F/DP
Ca6_P1_12981169	Ca6	12981169	T/TA	ATTGAAAATGCACCAC GACA	GGAATTTTGGTGGGG AGAAT	60.0	417	INTRON	Ca_05071	O	E2F/DP
Ca6_P1_12987374	Ca6	12987374	GAAAAAAAAA/GAAAAAAAAA	ATGGCCGATGTGTAA GAGG	GCCCCAGATCTTGTT CTTT	60.0	301	INTERGENIC	--	--	--
Ca6_P1_13001289	Ca6	13001289	GACACA/GACACACA	CGTTTTGTTGGGCATA ATCA	CCTAGGCCAAAATTCA AGCA	59.4	773	INTERGENIC	--	--	--
Ca6_P1_13007668	Ca6	13007668	AT/A	TTGAACCTCATTGTGG CAAA	ATAAGTTTTGCCTCCC CACC	60.1	116	DRR	Ca_05074	U	M-type
Ca6_P1_13016905	Ca6	13016905	TCC/TCCC	TGGATCACCACAAACC ACAC	GAACGGCAGAGAG GAAAC	60.3	500	INTERGENIC	--	--	--
Ca6_P1_13019215	Ca6	13019215	GAAAAAAAAA/GAAAAAAAAA	TAGGCCTATGCCATCA AACC	ACGTGACACCACGCAA AGTA	59.9	627	INTERGENIC	--	--	--
Ca6_P1_13033394	Ca6	13033394	T/TATATA	AGTCAATGGATCCCCA CCTA	ATTTTCTCATCCTTG GGG	59.2	484	INTERGENIC	--	--	--
Ca6_P1_13084312	Ca6	13084312	TAAAAAAAAA/TAAAAAAAAA	ATGGGCCTTGAATGAA TGTC	TGTGTGTGAACCCAA CAAAA	59.8	515	INTERGENIC	--	--	--
Ca6_P1_13084415	Ca6	13084415	A/ATATATAT	CAGCATTGACATTGG TGAT	AAACCATGATCATTCA GGGC	59.5	845	INTERGENIC	--	--	--
Ca6_P1_13128943	Ca6	13128943	CTTTTTTTTT/CTTTTTTTTT	CACCACGAGATCAAAA CCCT	CCATTGGCAGTGAAC TCTT	60.0	482	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_13178173	Ca6	13178173	TGCA/TGCAGCGTAACAGCA	CGACATGCAAAGTCAC CAAC	AATCAGCAGAGACACC CCAC	60.2	404	INTRON	Ca_05088	--	--
Ca6_P1_13180103	Ca6	13180103	TTTATTATTATTATTATTATTATTA T/TTTATTATTATTATTATTATTATT ATTAT	TTTGAGTCAGTCAACG CAGG	TAAACCATTCAAACCC CCAA	60.0	830	INTERGENIC	--	--	--
Ca6_P1_13292268	Ca6	13292268	AATATATATATATATATAT/AATATATA TATATATATATAT	AAATGATGACGTGGGA TGTTT	TGCGATTTTCATCCACT ACATTC	59.2	686	INTERGENIC	--	--	--
Ca6_P1_13330838	Ca6	13330838	A/ATTATTATTATTATAT	TTTCAATTTGGCTTGAT GGA	GCAACTCACACCACC TCAA	59.1	567	DRR	Ca_05104	--	--
Ca6_P1_13394015	Ca6	13394015	GATATATATATATATATATATATA/G ATATATATATATATATATATATA	TTGCCACTTGATACAG CAAAA	TGCAACTTGCGTCTAG GATG	59.4	771	DRR	Ca_05112	Q	B3
Ca6_P1_13422865	Ca6	13422865	CAAAAAAAAA/CAAAAAAAAA	CATCGTCGTCAACGAG TGTT	TGTGAGCCTGCTCATT GTTC	59.6	550	INTERGENIC	--	--	--
Ca6_P1_13428719	Ca6	13428719	CTATTTATTTATTTATTT/CTATTTATTT ATTTATTTATTTATTTATTT	GTCTGCGAAAAAGGAG TTGC	TTTCCCTATTGCACCT GGAG	60.0	329	INTERGENIC	--	--	--
Ca6_P1_1343859	Ca6	1343859	GAAAAA/GAAAAA	CAACGAGTTTGATTTC TATTCTAACG	TTGGGTAGCCAAGGTT TCAC	59.7	721	INTERGENIC	--	--	--
Ca6_P1_13474293	Ca6	13474293	TTATATATATATATATATATATATAT ATATATATA/TTATATATATATATATATA TATATATATATATATA	AGCGTTTATCCCACCA ACAG	ATGTGTCAACGGCAAA TGAT	60.0	429	DRR	Ca_05117	--	bHLH
Ca6_P1_13481060	Ca6	13481060	GAAAAAAAAA/GAAAAAAAAA	AAAGTGCTGCCTGTG CTTA	GGAGTTGGAACCTCGG AACAA	59.9	483	INTRON	Ca_05119	S	--
Ca6_P1_1350736	Ca6	1350736	TA/TAAA	AACGTTACTCACCATA AGTGGAA	TCAGCCAAAAAGCTGA TGTG	57.8	425	INTERGENIC	--	--	--
Ca6_P1_1350878	Ca6	1350878	A/AGTCTGT	ACACATCAGCTTTTGG GCTG	AGCCCACTCACCTTCT TCCT	58.9	428	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected 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_P1_13536206	Ca6	13536206	TAAAAAAAAA/TAAAAAAAAAAA	TTAACAAATAAGCCGG CGAC	AGGGGTTGTGAAGTC GACAC	60.1	302	INTERGENIC	--	--	--
Ca6_P1_1353833	Ca6	1353833	CAA/CAAA	TGTTTAAAGGGGTGGC ACTT	ACGGAAGGATCCAGTA GGCT	59.5	513	INTERGENIC	--	--	--
Ca6_P1_13541161	Ca6	13541161	TTATATATATATATATATATATATAT ATATAT/TTATATATATATATATATAT ATATATATAT	TTTTGTGTTTCCAAGA TGCG	TCCTCATCACGCAGTA TAGCC	59.8	298	INTERGENIC	--	--	--
Ca6_P1_1354322	Ca6	1354322	GAA/GAACCAA	AATTTCATAGGCGGT GAAG	GGTGTTACAGCTTTCA TGAACAAA	60.1	420	INTERGENIC	--	--	--
Ca6_P1_13633836	Ca6	13633836	TA/T	GAAACGTCTCACCCTC TTTTT	ATCCATCCAAACGCAC TCTT	58.4	877	INTERGENIC	--	--	--
Ca6_P1_13685455	Ca6	13685455	AATATATATATATATATATATATAT/ AATATATATATATATATATATATATA TAT	AAAAACCAAAATCAAG ATCAGCA	AATTTGTTTGTGGCGA AAGG	60.0	952	INTERGENIC	--	--	--
Ca6_P1_1377550	Ca6	1377550	GATATA/GATATATA	GGCCACACTAAAGTGC CATT	TGTCCATTTTCTGGGA CACA	60.0	551	INTERGENIC	--	--	--
Ca6_P1_1377762	Ca6	1377762	A/AATG	GGCCACACTAAAGTGC CATT	TGTCCATTTTCTGGGA CACA	60.0	551	INTERGENIC	--	--	--
Ca6_P1_13782287	Ca6	13782287	TTATATATATATATATATATATATAT/ TTATATATATATATATATATATATAT AT	CTTGATAGCCAGGGAC ATGC	ACACGAACGGATCCAG AGAT	60.6	453	INTERGENIC	--	--	--
Ca6_P1_13810515	Ca6	13810515	ATTTTTTTTT/ATTTTTTTTTT	ACGACCTTCCCACCTT TACC	GAAATCAGGAACCAAA GGCA	60.2	872	DRR	Ca_05143	A	--
Ca6_P1_13838996	Ca6	13838996	CCT/CCTTCT	TGTGTGATTGGTGTG AGCA	GCAACAACGGGTGAAA ATCT	59.7	563	INTERGENIC	--	--	--
Ca6_P1_13970351	Ca6	13970351	ATTTTTTTTT/ATTTTTTTTT	CCCGAATTTGAAAATC CCTT	AGGTCGTTTCTTGGA AAGC	60.1	581	DRR	Ca_05160	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_14061005	Ca6	14061005	AAGAGAGAGAGAGAGAGAGAGAGAG AGA/AAGAGAGAGAGAGAGAGAGAGA GAGA	GAGGGAAGCGTGTCAA AGAG	ATCCCTCCGACATTT TCTC	60.0	126	INTERGENIC	--	--	--
Ca6_P1_14061795	Ca6	14061795	CGGGGG/CGGGGGG	TCCTTCAAATAATCACG TCCC	ACCTTGAAGGATGCCA AATG	58.9	705	INTERGENIC	--	--	--
Ca6_P1_14064205	Ca6	14064205	CAA/CAAAA	TCGTGAAATTGTCCAC CAAA	GGATTGGTCTAGGG TGGTT	59.9	768	DRR	Ca_05172	U	--
Ca6_P1_14084331	Ca6	14084331	C/CA	AGGATGTGCACTGTTG TTGC	ACTAGATGGTCGCATC CTGG	59.8	453	INTERGENIC	--	--	--
Ca6_P1_14163783	Ca6	14163783	CATATATATATATATATATATATATA T/CATATATATATATATATATATAT A	TAATCGGGAAAAACCT GCAC	AATTTAATATCCGTC CGGC	59.9	565	INTERGENIC	--	--	--
Ca6_P1_14206895	Ca6	14206895	CCATCATCAATC/CCATCATCAATCAT CATCAATC	TGCAACCAGAACCAAT GTGT	TGACCATACCTCACCA ACCC	60.0	930	INTERGENIC	--	--	--
Ca6_P1_14217212	Ca6	14217212	CAGAGAAGAGAAGAGAAGAGAAGAG A/CAGAGAAGAGAAGAGAAGAGAAGA GAAGAGA	AGGGGTGTTGGGAAAA TAGG	GTTGCTTCCGATAA AACG	60.0	439	INTERGENIC	--	--	--
Ca6_P1_14240841	Ca6	14240841	GTATATATATATATATATATATATAT ATATAT/GTATATATATATATATATA TATATATATATATATATAT	GATTTTCATCGCAAGGG TTGT	TCTCGCATAAGTCGAA CAAA	59.9	549	INTERGENIC	--	--	--
Ca6_P1_14243987	Ca6	14243987	GAAAAAAAAAAAAA/GAAAAAAAAAAAAA	TGCGTATCAAAACCGT CATT	CAAAGGTTTCAGAATG GGGA	59.0	779	INTERGENIC	--	--	--
Ca6_P1_14245763	Ca6	14245763	GTTTTTTTTTTT/GTTTTTTTTTTTTT	CTTATATTTGCCGCAA CGGT	AATCTTCCATTGCTCC ATGC	60.0	521	INTRON	Ca_05192	QR	--
Ca6_P1_14246280	Ca6	14246280	ATATTATTATTATTATTATTATTATT TAT/ATATTATTATTATTATTATTAT	GCATGGAGCAATGGAA GATT	TGGTTTTTGAAATTA CGCA	60.0	849	DRR	Ca_05192	QR	--
Ca6_P1_14277716	Ca6	14277716	TTATATATATATATATATATATAT/TT ATATATATATATATATATATAT	GTGGCCCATAAACCAC TCAT	ATGGGGCCATCAAGTA CTCA	59.7	597	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_14279315	Ca6	14279315	GG/GGAG	CACGTGAAAAGCGGT ACAA	TCAATGCCATCAAATC CTCA	59.8	594	INTERGENIC	--	--	--
Ca6_P1_14293231	Ca6	14293231	AATATATATATATATATATAT/AATA TATATATATATATATATATAT	CCCCAACACACCAATA AACC	ACCAACAATGGGTATT CGGA	59.9	504	INTERGENIC	--	--	--
Ca6_P1_14301085	Ca6	14301085	TTCTCTCTCTCTCTCTCTCTCTCTC TCTCTCTCTCT/TTCTCTCTCTCTCTC TCTCTCTCTCTCTCTCTCTCT	GCACCAGAAGTGCAAA TTCA	TTTCGTTGGTTACAG GTCA	59.8	746	INTERGENIC	--	--	--
Ca6_P1_14338064	Ca6	14338064	TTATATATATATATATATATATATAT ATATATATAT/TTATATATATATATATAT ATATATATATATATATATATAT	AAAGCTTGCTTCGAGA AAAA	CTCCCACTCCACCTA CAAG	57.1	740	INTERGENIC	--	--	--
Ca6_P1_14487778	Ca6	14487778	ATTTTTTTTT/ATTTTTTTTTTT	AAGCGGAAGCCACTCT CATA	TCCTCTTGGGTCCCTT AAAC	60.0	316	INTERGENIC	--	--	--
Ca6_P1_14553627	Ca6	14553627	TTATATATATAT/TTATATATATAT	TGTTTCATCAAGACCTG CACTG	CAAAAATTTGTGAGAG ACCAAAA	59.9	232	INTERGENIC	--	--	--
Ca6_P1_14565601	Ca6	14565601	TGG/TGGGG	ATGGAGTAAACGGCAA CAGG	TAATTGCACTTTTGGT CCCC	60.0	358	INTERGENIC	--	--	--
Ca6_P1_14661772	Ca6	14661772	ATTTTAATTT/ATTTTAATTTCACTTTTA ATTT	TGGCTTTTCAAATAAA GCAAA	TCTGATGTTGTCAATT GTGAAGG	59.1	561	INTERGENIC	--	--	--
Ca6_P1_14676799	Ca6	14676799	TTCTCTCTCTCTCTCTCTCT/TTCTCT CTCTCTCTCTCTCTCT	AGTGGGTGGTGCCAAT AGAG	ACCCAGGCTATGGAAT GTCA	60.0	491	INTERGENIC	--	--	--
Ca6_P1_1468628	Ca6	1468628	TAAAAAAAAA/TAAAAAAAAA	AAGAATGGAGCTCAAG GGGT	GCCTCCAAAAAGTAAT CCCC	60.1	405	INTERGENIC	--	--	--
Ca6_P1_14696179	Ca6	14696179	GTTATTATTATTATTATTATTATTA TTATTATTATTATGTTATTATTATTAT ATTATTATTATTATTATTAT	TGCATTTATGCCAGGA GACA	CAAAACCTCCTTTGTC CTCTC	60.2	556	INTERGENIC	--	--	--
Ca6_P1_14755558	Ca6	14755558	T/TATA	TTTTAACCGTGGTTTG AAACTT	AGTCAGACGCTACTCG GCAT	57.8	212	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected 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_P1_14755753	Ca6	14755753	ATT/ATTT	AAC TTGATGCCGAGTA GCGT	TTTGTGAGGGCTTTT CAGC	59.9	633	INTERGENIC	--	--	--
Ca6_P1_14807796	Ca6	14807796	CATATATATATATATATATATATAT/ CATATATATATATATATATATATATA T	GGCTTAAGTCTGGCCT ACGA	TCAATTGGGCAATCAC TCAG	59.5	472	INTERGENIC	--	--	--
Ca6_P1_1483440	Ca6	1483440	TA/TAAGA	CTTCCGCGTGTATTT TCAT	TGTTACCACCACCAGA ACCA	60.0	784	INTERGENIC	--	--	--
Ca6_P1_14840992	Ca6	14840992	GNNNNNNNNN/GNNN	TGCTCTTCTATGGAAT GGGG	ATGGCGAAGTCAACAA GTCC	60.0	280	CDS (FRAME SHIFT)	Ca_05257	J	--
Ca6_P1_14882800	Ca6	14882800	TTATATATATATATATATAT/TTATAT ATATATATATATATATAT	GAGAGGTCGGATCTCG ACTAA	TTCCGTGCAATTGTTG TTTC	58.5	510	INTERGENIC	--	--	--
Ca6_P1_1491943	Ca6	1491943	CT/CTT	TGGTTTTCTGACCGGA CTCT	CAATGTCATCAAATAG CGGC	59.6	772	INTRON	Ca_27033	H	--
Ca6_P1_1492206	Ca6	1492206	TAAGAAGAAAAG/TAAGAAGAAAAGAA GAAAAG	CCGTGCATATGACAGA AATGA	ATGCACCGTTGAAACA ACAA	59.6	510	INTRON	Ca_27033	H	--
Ca6_P1_1492346	Ca6	1492346	ATAGC/ATAGCGCCGCTGTAGC	CCGTGCATATGACAGA AATGA	ATGCACCGTTGAAACA ACAA	59.6	510	INTRON	Ca_27033	H	--
Ca6_P1_1492728	Ca6	1492728	AT/ATT	TTGTTGTTTCAACGGT GCAT	ATGGTTGGGGGATAAA AAGG	60.0	651	INTRON	Ca_27033	H	--
Ca6_P1_14991238	Ca6	14991238	TNNNNNNNNNN/TNNNNNNN	AACCCAACCCAAACAA ACAA	CACCTTGCAAATGCTG CTTA	60.1	671	INTERGENIC	--	--	--
Ca6_P1_15024345	Ca6	15024345	ATT/AT	TACGAGGCGGCTTCTA CACT	AAC TTGTGCCCGTTAA TTCG	60.0	547	DRR	Ca_05281	--	--
Ca6_P1_1517791	Ca6	1517791	GCATTATCGTATACATTA/GCATT	CCAATCCAACCTTGGT GTCT	TTGACTCTTGGGAAGT TGGG	59.8	636	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_15358737	Ca6	15358737	AT/ATTAAATATT	GTTTCTGACCCACTC GCAT	AAGATGAGAGGACGAT ATCCAAA	60.1	522	INTERGENIC	--	--	--
Ca6_P1_15411815	Ca6	15411815	TC/TCC	TTTTGTGATAGGTTCC TGATGC	ATACCTACGGATTTC GCCG	59.1	811	INTERGENIC	--	--	--
Ca6_P1_15412187	Ca6	15412187	CAAAAAAAAA/CAAAAAAAAAA	TATAACCACGGCGAAA ATCC	GCACCGAATACCGACA TCTT	59.8	460	INTERGENIC	--	--	--
Ca6_P1_1542114	Ca6	1542114	ATT/ATTT	TGCAC TTGTGCACTC CTTA	GTAATGCTGCGTGCAA AACA	58.1	334	INTERGENIC	--	--	--
Ca6_P1_15456380	Ca6	15456380	AAA/AAACAA	GCTGTGTATTTTCATGC CTGC	GAGATGAGGTGGTAG CGAGC	59.3	913	DRR	Ca_05328	O	C2H2
Ca6_P1_15470405	Ca6	15470405	TTATATATATATATATATATATATATATATATATATATATATATATA/TTATATATATATATATATATATATATATATATATA TA	GACATCAACATCTCCA TCGG	CCAAATTGTGAGAAAA CAAATATGA	58.9	411	INTERGENIC	--	--	--
Ca6_P1_1548357	Ca6	1548357	TC/T	AAGGAGTTGGTTGGTG TGTTTT	TGACTAGGAAATTCGA GGGG	59.8	601	INTERGENIC	--	--	--
Ca6_P1_1549142	Ca6	1549142	AAT/AATATATAT	TCCATTTTCTTTCTT CCC	GCTCTCCAATGTGTAA TCGCT	60.2	646	INTERGENIC	--	--	--
Ca6_P1_15508917	Ca6	15508917	TTATATATATATATATATATAT/TTATATATATATATATATATATATAT	TGTTTGATTGGGTTGG TTCA	TGGGTGCTTTATTAAG ATGGG	59.8	849	DRR	Ca_05334	--	--
Ca6_P1_15524701	Ca6	15524701	T/TCCCTGAGTTC	GAGATGTCAAGGGAAG GGAA	TTGTGATGCCAACCTA ACGG	59.1	523	INTERGENIC	--	--	--
Ca6_P1_15528104	Ca6	15528104	ATTTTTT/ATTTTTTT	TGCACCAATGAGTCA CATTA TTA	TGTTGTGGATTTGAGC ACTTCT	59.4	374	INTERGENIC	--	--	--
Ca6_P1_15528267	Ca6	15528267	TTATATATATATATATATAT/TTATATATATATATATATATAT	TGCATATGATGTTTCTT CAACCTT	TGTTGTGGATTTGAGC ACTTCT	59.9	286	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_15555599	Ca6	15555599	AATATATA/AATATA	TGTGGGCACATTAGTA GGCA	TCATCGTCGTTGCTTG AGTC	60.1	640	INTERGENIC	--	--	--
Ca6_P1_15559125	Ca6	15559125	CTTT/CTT	TCACCAACAAAACT GGGG	CTACATTCGCGTTAGG GCAA	60.8	480	INTERGENIC	--	--	--
Ca6_P1_15559149	Ca6	15559149	AG/A	TCACCAACAAAACT GGGG	CTACATTCGCGTTAGG GCAA	60.8	480	INTERGENIC	--	--	--
Ca6_P1_15559609	Ca6	15559609	AC/A	TTGCCCTAACCGBAAT GTAG	TGGGAACAAGCATGGT GTAA	60.0	443	INTERGENIC	--	--	--
Ca6_P1_1556325	Ca6	1556325	TAAA/TAAAAAAAAAAAA	ATTGTTCTCCGTTGTC AGGG	GTGATCGACATACTTC GGCA	60.0	864	INTERGENIC	--	--	--
Ca6_P1_1556869	Ca6	1556869	TAAAA/TAAAAA	CAATTTGGTTGGCGT AAAC	TTGCTTTATACTCATAT TTTGGCCT	60.2	528	INTERGENIC	--	--	--
Ca6_P1_1557117	Ca6	1557117	TAAAAAAAA/TAAAAAAAA	GCTTTTCTTCATATTG CCGTT	TTTTGAGCGGAAGAG TCGT	59.6	674	INTERGENIC	--	--	--
Ca6_P1_1557283	Ca6	1557283	GAAAA/GAAAAA	GCTTTTCTTCATATTG CCGTT	TTTTGAGCGGAAGAG TCGT	59.6	674	INTERGENIC	--	--	--
Ca6_P1_15577471	Ca6	15577471	TTCATTATCATTATCATTATC ATTATCATTAT/TTTATTATCATTATCA TTATCATTATCATTATCATTATCATTAT	ACATCCAGTCCTGCAA ATCC	TGAACTCTGAGCGTGT GACC	59.9	852	INTERGENIC	--	--	--
Ca6_P1_1559094	Ca6	1559094	T/TTTTAATTTTAAAGTA	CAGAGCAGTGTGACAG CAAGA	TCAAAAATTTCAAACAA AATCCA	60.4	456	INTERGENIC	--	--	--
Ca6_P1_1559285	Ca6	1559285	GTTA/GTTATTA	CAGAGCAGTGTGACAG CAAGA	TCAAAAATTTCAAACAA AATCCA	60.4	456	INTERGENIC	--	--	--
Ca6_P1_1559414	Ca6	1559414	CAAAAAAAAA/CAAAAAAAAA	CAGAGCAGTGTGACAG CAAGA	TATTTTATTTCCACCG CTGC	60.4	879	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_1559495	Ca6	1559495	GAACAAA/GA	GGATTTTGTGAAATT TTTGATG	TATTTTATCCACCG CTGC	58.9	445	INTERGENIC	--	--	--
Ca6_P1_1559581	Ca6	1559581	ATTTTTTTTTTT/ATTTTTTTTT	TGAAGTTAAATTAAAG GATCGCA	TATTTTATCCACCG CTGC	58.0	283	INTERGENIC	--	--	--
Ca6_P1_15597965	Ca6	15597965	TAAA/TAAA	CAGTTTCCACACGCAC AGAT	TGGGAACAAGCATGGT GTAA	59.8	681	DRR	Ca_05341	--	bHLH
Ca6_P1_1560016	Ca6	1560016	TTT/TTTAATT	AATATTACTGCAGCGG TGGG	GGACCACAAGAAATCC TCCA	60.0	719	INTERGENIC	--	--	--
Ca6_P1_15630356	Ca6	15630356	T/TG	CCTCATTTGTGGCCAA CTTT	CAACGTTGTGATTGTG AGGG	60.0	187	DRR	Ca_05342	--	--
Ca6_P1_15727094	Ca6	15727094	ATTTATTTATTT/ATTTATTTATTT ATTTT	TCCCCGTCTAACTAG GGTT	CCACTGTGTCCTAAC AATTCAA	59.8	268	INTERGENIC	--	--	--
Ca6_P1_15727278	Ca6	15727278	ATTTATTTATTTATTTATTTACTTAT TTTATTTATTT/ATTTATTTATTTATTT TATTTTATTTATTTACTTATTTATTT ATTTT	TCCCCGTCTAACTAG GGTT	TCGTGTCCAAAACCTC AAGG	59.8	766	INTERGENIC	--	--	--
Ca6_P1_15727514	Ca6	15727514	ATTTATTTATTTATTTATTT/ATTTA TTTTATTTATTTATTTATTT	TTAGTTTGGGCTTGGG TTTT	TTGCTCCTACGTATCT CCCG	58.6	911	INTERGENIC	--	--	--
Ca6_P1_15728024	Ca6	15728024	AA/AAATA	CGGGAGATACGTAGGA GCAA	TCGATTATGCGTAGGG AAGG	60.2	248	INTERGENIC	--	--	--
Ca6_P1_15730699	Ca6	15730699	TAAA/TAA	ATTTGAACCTGGCAGC AAAA	GGTTTGAAAAAGGGT GATG	60.6	175	INTERGENIC	--	--	--
Ca6_P1_15730845	Ca6	15730845	ATTTTT/ATTTTTTT	ATTTGAACCTGGCAGC AAAA	GCTTGATGAATAAATC AATGGCT	60.6	525	INTERGENIC	--	--	--
Ca6_P1_15731057	Ca6	15731057	TAAAAA/TAA	ATTTGAACCTGGCAGC AAAA	GGGACAAAAGGCTAG TTTGG	60.6	909	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_15732116	Ca6	15732116	TAAAAA/TAAAAA	AGAGTGTTTAGCGGT CAATG	TCAACACCCCTCTTA GGTG	59.5	472	INTERGENIC	--	--	--
Ca6_P1_15739556	Ca6	15739556	ACCTTC/A	GGTATCGCAATCCTCC GTTA	CGAAACAAGGAAAGCA GAGC	59.9	289	DRR	Ca_22007	R	NAC
Ca6_P1_15851000	Ca6	15851000	C/CT	GCGTTTTCCAGAAGT CTTC	GTGTTGACAAAGGG GAGAA	60.0	374	INTERGENIC	--	--	--
Ca6_P1_15867174	Ca6	15867174	ATTATTTATTTATTTATTTATTTA TTT/ATTATTTATTTATTTATTT	TTTAGACGAGGCCTA GGGA	TTTGTAGTAGCTCGA CGCA	58.9	504	DRR	Ca_22021	K	MYB
Ca6_P1_15868992	Ca6	15868992	AATATATATATAT/AATATATATATA T	GGCTGTGTACCAATTT GCCT	AATGTAGGGTTGCGAA GGTG	60.0	604	INTRON	Ca_22021	K	MYB
Ca6_P1_15877864	Ca6	15877864	GTATA/GTA	TGAGAACTAAATGCAT GCGG	GGTCTTCAACGGAGAT GGAA	59.8	216	DRR	Ca_22023	R	--
Ca6_P1_15930568	Ca6	15930568	ATTTTT/ATTTT	TGTTGCGTAGTCTCCC AGTCT	GTTTGGGTGGGAAA GGATT	59.9	656	INTERGENIC	--	--	--
Ca6_P1_15944936	Ca6	15944936	CTT/CTTT	TGGATCTTGTAATTT GTTTCG	GAAATCCATTGGCATC GTTTC	58.6	233	INTERGENIC	--	--	--
Ca6_P1_15999975	Ca6	15999975	A/AG	AAGTGTGGGCATTTCC TTTG	ATGGACCTCTGTATTC GCCA	60.0	137	INTERGENIC	--	--	--
Ca6_P1_1600368	Ca6	1600368	AATA/AATATA	TGGAGTTTGCAAGCTG TCAT	AGGGGGAGATTGTTG AGACA	59.4	388	INTERGENIC	--	--	--
Ca6_P1_16011007	Ca6	16011007	AATATATATATATATATATATA/AAT ATATATATATATATATATATA	ACCAAAAAGGTTTTGC ATCA	GGATGTCTGACTATTT TGCACTA	58.1	265	INTERGENIC	--	--	--
Ca6_P1_16012701	Ca6	16012701	TA/TAA	TAAGAGTTTGGTTCCG GTGG	TGTGCAGATAAATGGC CAAA	60.0	397	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected 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_P1_16023913	Ca6	16023913	AATATATATATATATATATATA/AAT ATATATATATATATATATA	GACCACAAGTGATATT TAGCCCA	TGGACCAATTTTGTGG TTTG	60.3	381	INTERGENIC	--	--	--
Ca6_P1_16027272	Ca6	16027272	CCAATCGAT/CCAATCGATTGTCAAT CGAT	TTGCCAATCGATTAGT GTGC	GAGTGGGTCGAATGT CGATT	59.7	471	INTERGENIC	--	--	--
Ca6_P1_16051572	Ca6	16051572	TAAAAA/TAAAAA	CAAAATGCAAAACGAT GTGTG	TCAGTTCGGATTGAT CGTA	60.0	590	INTERGENIC	--	--	--
Ca6_P1_16063357	Ca6	16063357	AT/ATT	CGTGGAAACTTCCCT CAAA	TGAGTGGTTAGTCCCA CATTGA	60.1	473	INTERGENIC	--	--	--
Ca6_P1_16070230	Ca6	16070230	ATTTTT/ATTTTTT	ATAGGCTAGGTCGTCC GTCA	TTTGAAAGGCCTGAGC TTGT	59.7	679	INTERGENIC	--	--	--
Ca6_P1_16085218	Ca6	16085218	GATAAATATAAATATAAATATAAAT AAATATAAA/GATAAATATAAATATAAA TATAAATATAAA	CATGGGAAAAATTTT GTGATCG	TCCAGTTGAGTTTCA TGTATCA	60.4	641	INTERGENIC	--	--	--
Ca6_P1_16253665	Ca6	16253665	AATATATATATATATATATATATA T/AATATATATATATATATATATATAT ATATATATAT	CGTGGAAATCGTATTCG TGTG	TTGAATCGACACTCAA CCCA	60.0	490	INTERGENIC	--	--	--
Ca6_P1_16259714	Ca6	16259714	GTTATTATTATTATTATTATTATTA TTATT/GTTATTATTATTATTATTAT TATTATT	GGGGGCAAGTTATATC CACC	TGGAAAATGTAACACC CCAAA	60.4	782	INTERGENIC	--	--	--
Ca6_P1_16266040	Ca6	16266040	AAATAATAATAATAATAATAATAAT AATAATAATAATAATAATAATA/AA ATAATAATAATAATAATAATAATAA TAATAATAATAATAATAA	GGCATTTTAACATTGTA ACACCC	TGCACGACATCATCAT CATT	59.6	384	INTERGENIC	--	--	--
Ca6_P1_16286125	Ca6	16286125	CTTACTTTTT/CTTACTTTTTACTTTTT	TGTTGGGATATTTCTT TTGGA	CTTGAAAGAGCCGCAA GAAG	59.3	576	INTERGENIC	--	--	--
Ca6_P1_1629307	Ca6	1629307	TTACTACTACTACTACTACTA/TTACTA CTACTACTACTA	GGAGTGAGTACCGTG GGAGA	TGTGACACATCCCGTG TCTT	60.1	229	INTERGENIC	--	--	--
Ca6_P1_16322518	Ca6	16322518	GTT/GTTT	AGAAGGGAAAAAGAGA GGCG	TCAAAGGAAATCCCT GACG	60.0	160	DRR	Ca_19667	FP	bHLH

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_16339487	Ca6	16339487	AATATATATATATATATATATATA/ ATATATATATATATATATATATATA	GGATGTGCCAATGATT TGGT	TCCTTCTTCTCGCTC TCCA	60.6	327	INTERGENIC	--	--	--
Ca6_P1_16353127	Ca6	16353127	A/AG	GCTCCGCACTGATAG AGAG	ACGGACCGGACACTA GACAC	60.1	432	INTRON	Ca_19662	S	--
Ca6_P1_16372439	Ca6	16372439	ATATTATTATTATTATTATTATTAT TATTATTATTATTATTATTAT/ATAT TATTATTATTATTATTATTATTAT ATTATTATTATTATTATTATTAT	TTCTGCTTTCCAACCA AAGA	GCTAGCAACCTTTTTC ACGG	58.5	538	INTERGENIC	--	--	--
Ca6_P1_16397768	Ca6	16397768	AATATATATATATATATATATATA/ ATATATATATATATATATATATATA	GGAGAAGGAGGAAGA AGGACTC	AGGTGGTGCATCCTT GACT	59.8	819	INTERGENIC	--	--	--
Ca6_P1_16407431	Ca6	16407431	GAAAAA/GAAAAAA	GATGCATGTAGTGCCA GTGG	TCACTTGATTATCCC ACATGTAA	60.1	493	INTERGENIC	--	--	--
Ca6_P1_16410410	Ca6	16410410	CTTATTATTATTATTATTATTATTA TTATT/CTTATTATTATTATTATTAT TATTATTATTATT	TGAAAACGCGCGTGTA ATAG	AACAAAATCAATAAAA GTGTCGAA	59.9	638	INTERGENIC	--	--	--
Ca6_P1_16413106	Ca6	16413106	GTTATTATTATTATTATTAT/GTTA TTATTATTATTATTAT	AGAGAGGAGATGCCAA ATGC	GGGGCAAGGGGTATG ATATT	59.4	177	INTERGENIC	--	--	--
Ca6_P1_16476384	Ca6	16476384	AGAGAA/AGAGAAATGACGAGAA	CTTGATGTTCCGATG TGGA	TCTCTAAGGGGACACC ATCG	59.5	671	INTERGENIC	--	--	--
Ca6_P1_16547931	Ca6	16547931	GA/GAGAGCTTA	TTCTTCCTGCTCGTG CTAT	TTCTTTGGCTGAAATG GTCC	60.0	640	INTRON	Ca_06284	A	--
Ca6_P1_16548465	Ca6	16548465	GACAGACTATCAACAGACT/GACAGA CT	GGACCATTTCAGCCAA AGAA	AAGTTTGGGTGTGGCT TTTG	60.1	420	CDS (FRAME SHIFT)	Ca_06284	A	--
Ca6_P1_16548981	Ca6	16548981	CAT/CATAT	CTTCCAAGTCACCCCA GTGT	GGTCTTTAGTGGCAG GTGT	60.0	460	INTRON	Ca_06284	A	--
Ca6_P1_16600528	Ca6	16600528	AATATATATATATA/AATATATATAT ATA	AATGTGCAAATGGATG ATGG	GAGGACCTAGAGCAA CCGTG	59.2	465	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_16625483	Ca6	16625483	GAAAAAAAAA/GAAAAAAAAA	AAATCAATCGCTAAACA AGTTGG	GTGTTGCTCCTCACAC ATGG	59.6	812	INTERGENIC	--	--	--
Ca6_P1_1665851	Ca6	1665851	AATATATATATATATATATATAT/ AATATATATATATATATATATAT	ATGGTGTGGAAGCCAA AAAG	CCTTCCCGTCACAAC ACTT	60.0	283	INTERGENIC	--	--	--
Ca6_P1_16661138	Ca6	16661138	CATATATATATATATATATATAT/CATATA TATATATATATAT	CGCAATTCAGGTCAG TTCA	CCAACGGACAATTTTC GATT	59.8	381	INTRON	Ca_06297	--	--
Ca6_P1_16693405	Ca6	16693405	GAAAAAAAAA/GAAAAAAAAA	TCGGACGACTAGTCCC AATC	CAACCAAAGCAGGGG TTTTA	60.1	767	INTERGENIC	--	--	--
Ca6_P1_16723215	Ca6	16723215	C/CA	GCGAGGATTAGGGTTT GTGA	GTGGCCAGGTGAGAG AAGAG	60.1	208	INTERGENIC	--	--	--
Ca6_P1_1682722	Ca6	1682722	GTGCATCTGTTT/G	GAGGCATTGCTTTGG TGGT	GCAATGTTTGAATG GCTT	60.0	656	INTERGENIC	--	--	--
Ca6_P1_1683094	Ca6	1683094	TATTAAC/TATTAACCATTGATTAAC	AATAAGTCCATCCGGC TCCT	TTGTGGATGGCGTTTG ATAA	59.9	276	DRR	Ca_10299	--	HB-other
Ca6_P1_1683226	Ca6	1683226	CAA/CA	AATAAGTCCATCCGGC TCCT	TTGTGGATGGCGTTTG ATAA	59.9	276	DRR	Ca_10299	--	HB-other
Ca6_P1_1683327	Ca6	1683327	AC/A	TTATCAAACGCCATCC ACAA	CACCTGCGTGTGGTAG TGCT	59.9	504	DRR	Ca_10299	--	HB-other
Ca6_P1_1683470	Ca6	1683470	C/CCAAAACAATCATAAC	TTATCAAACGCCATCC ACAA	CACCTGCGTGTGGTAG TGCT	59.9	504	DRR	Ca_10299	--	HB-other
Ca6_P1_1685705	Ca6	1685705	GTATA/GTA	TCGGTGAGGATTTGTG ATGA	CTTTGCAAGCAAGATC CACA	60.0	286	INTRON	Ca_10299	--	HB-other
Ca6_P1_16866680	Ca6	16866680	TATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATA TAATAATAATAATAATA	TGTCTACCGGTCATA CAAAAA	CACATTACAGATGATC CTTGCA	59.4	816	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/Pf)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_1698558	Ca6	1698558	T/TA	TTTGTGTTGCGCATA ATCG	ATCTCACTCCCCTCCA TCAC	60.6	519	INTERGENIC	--	--	--
Ca6_P1_16996867	Ca6	16996867	TTTCCCTNNNNNNNNNTTCCCT/TTT CCCT	GACGTTTATAAAGTT AGTCTTAAACC	ATAAACGGGACCGGG TAATC	59.1	547	INTERGENIC	--	--	--
Ca6_P1_17086650	Ca6	17086650	GTATATATATATATATATATATAT/AT ATATATATATATATATATATATATAT ATATA	AACGGTGAACAAATGC ACAA	ACAAGCCACATTCCCC ATAC	60.0	520	INTERGENIC	--	--	--
Ca6_P1_17100171	Ca6	17100171	AATATATATATATATATAT/AAATATA TATATATATATATATAT	CTCGAAACCAGCAAAAC CATT	TTTTCTTTGTTGTCATC GACATTT	60.1	562	INTERGENIC	--	--	--
Ca6_P1_17234998	Ca6	17234998	TTATATATATATATATATATATATAT ATATAT/TTATATATATATATATATAT ATATATATAT	AAGGGGATCCGTGGAA ATAC	TTCAGCCTCTCCAAC TCGT	60.0	495	INTERGENIC	--	--	--
Ca6_P1_17249239	Ca6	17249239	CTTATTATTATTATTATTATTATT/AT CTTATTATTATTATTATTATTATTAT TTA	CCCTTTGACCATCAAT CACA	GCACAAATGCAACGA GAGA	59.3	257	INTERGENIC	--	--	--
Ca6_P1_17263276	Ca6	17263276	TGCTGANNNNNNNNNNNGCTGA/TG CTGA	AGGTCCCAGAACCCAG ATTT	TCAATTGACATGGCCA GAAA	59.9	717	INTRON	Ca_06343	--	HB-other
Ca6_P1_1728817	Ca6	1728817	GTTTTTTTTT/GTTTTTTTTT	ATGGCTCCTTGATTC GATG	TCAAAAAGGACAATTA AGCCA	60.0	539	INTERGENIC	--	--	--
Ca6_P1_1729337	Ca6	1729337	GTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTAT/GTAT TATTATTATTATTATTATTATTAT ATTATTATTATTAT	TGGCTTAATTGTCCTTT TTGATG	TGCCGTCTTCAATGCT ACAG	60.3	654	INTERGENIC	--	--	--
Ca6_P1_17312806	Ca6	17312806	CT/C	ACCACAATCAGTTTGC CTCC	TCCCCGCTCAAATTAG GATG	60.0	720	INTERGENIC	--	--	--
Ca6_P1_17414159	Ca6	17414159	TTATATATATATATATATATAT/TT ATATATATATATATATATAT	CATGCAATTGGAAGCT CTGA	ATTGGCAACTCTTGG GATG	59.9	599	INTERGENIC	--	--	--
Ca6_P1_17489743	Ca6	17489743	AATATATATATATATATATATATATA TATATA/AAATATATATATATATATAT ATATATATATATATATA	GTGATCTGAAGACCC GAAT	GGGGTTCTCTTGGTG TGAA	60.1	889	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_17544117	Ca6	17544117	TTAATAATAATAATAATAATAA/TT AATAATAATAATAATAATAA	TGTCACATTTATTCAAC CGCA	CCACGCGAAGAGAGA AAAAC	60.0	852	INTERGENIC	--	--	--
Ca6_P1_1760750	Ca6	1760750	AATATATATATAT/AATATATATATATA TAT	TGGAGTGAATGCAATG GAAA	AGGTCAGGCTCAGGC TTGTA	60.0	119	INTERGENIC	--	--	--
Ca6_P1_17770475	Ca6	17770475	ATTTTTTTTT/ATTTTTTTTTTT	ATTTTCGACATTTTCCA CCG	AAATGCTAAAAGGCAC CGAA	59.8	850	INTERGENIC	--	--	--
Ca6_P1_17784290	Ca6	17784290	ATTTTTTT/ATTTTTTT	TCATTTTGGGCTATGA AGGC	TGGAGGGAGGTTAAG GTGTG	60.0	393	INTERGENIC	--	--	--
Ca6_P1_17832332	Ca6	17832332	ATT/A	CGACCCATTTAACAGC ATCA	CAATACCTGAACCAGC CACA	59.5	490	DRR	Ca_06399	S	--
Ca6_P1_17858051	Ca6	17858051	TCCC/TCCC	AAATTTCCGGGTGGTA CTCC	ATTAGAAGCTGGGG AGGAA	60.1	809	INTERGENIC	--	--	--
Ca6_P1_1788325	Ca6	1788325	CTTTTTTTTT/CTTTTTTTTT	AGGGTGTAAGGCATGG ATGA	CCATCAATCAAAGCAA ACCA	60.3	330	INTERGENIC	--	--	--
Ca6_P1_17913365	Ca6	17913365	TA/T	CACAACTTCACACAT GATTTTCA	CCACCCGTGCTTCTTG TACT	59.9	223	INTERGENIC	--	--	--
Ca6_P1_17914426	Ca6	17914426	CAA/CAAA	ATCTTTTGGTGAAAT GCG	CGCGAAAACAGCGTTA TGTA	59.9	744	INTERGENIC	--	--	--
Ca6_P1_1792547	Ca6	1792547	T/TATA	TGCGGTTTCTCTGCTT TTCT	ACCAACTACCCCCCT ACCC	60.1	594	INTRON	Ca_10305	E	--
Ca6_P1_17926926	Ca6	17926926	TGAAG/TG	TTTCTGTAACAGTGGC TGCAA	GCAACGGAACACATTC TTTG	59.5	815	DRR	Ca_06415	QR	B3
Ca6_P1_17966624	Ca6	17966624	GTATATATATATATATATAT/GTATA TATATATATATATATATATAT	TCCGAGTTATTTTGGT TTTGG	TAATGTGTGACGCAAG GGAG	59.0	468	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_1803443	Ca6	1803443	GAAAAAAAAA/GAAAAAAAAA	AAGTCCAGAGAGTCA GGGA	ATGGAACAGAAATTC TTGC	60.0	876	INTERGENIC	--	--	--
Ca6_P1_1803749	Ca6	1803749	GTAAAAAAAA/GTAAAAAAAAATAA AAAAA	GCATTAAAAATAGAAA TATCTGGTCA	AAATGGGTACGCAGAA AACG	58.3	529	INTERGENIC	--	--	--
Ca6_P1_1813721	Ca6	1813721	GCCAAATAAAT/GCCAAATAAATCCAA TAAAT	GGATCACATGAAACAA CTGTGC	GCAAAACATTGTACCA AGACGA	60.4	682	INTERGENIC	--	--	--
Ca6_P1_1814002	Ca6	1814002	TTCTCTCTCTCT/TTCTCTCTCTCT	TCGAAGTGACTCTGAA GGATGA	TTGAACCAAGAACAT CGCA	60.0	324	INTERGENIC	--	--	--
Ca6_P1_1815783	Ca6	1815783	A/AC	CGAATCATTCCAAACC GTCT	GAGGATTGGGTTGG GATCT	59.9	129	DRR	Ca_10308	TZ	--
Ca6_P1_18180870	Ca6	18180870	TTATATATATATATATATATATATAT ATATATATATA/TTATATATATATATATA TATATATATATATATATATATA	GAGGTCGATTGTGAT TATGG	TCATCATTCCACCACA GCAT	59.3	573	INTERGENIC	--	--	--
Ca6_P1_1819011	Ca6	1819011	CAAAA/CAAA	TCAACAATGCAGCAAC AACA	CGCCAATTAATAATTC CCAC	59.9	644	INTERGENIC	--	--	--
Ca6_P1_1819284	Ca6	1819284	TAAAAAA/TAAAAAA	AGTGAGAAATGGTGA TCGG	CCAACAATCAATTGAA GACAAAA	59.9	624	INTERGENIC	--	--	--
Ca6_P1_1820872	Ca6	1820872	TTG/TTGGTG	CCCACGGGTAACAAC CAAT	CGGGTTGGTTTGATTC AAGT	59.7	707	DRR	Ca_10309	--	--
Ca6_P1_18216735	Ca6	18216735	TTACTTAAGTTG/TTACTTAAGTTGATA CTTAAGTTG	TGTTCAACCGCATTAA TTTGA	ATAGCAACTCCGAGA TGCG	59.1	517	INTERGENIC	--	--	--
Ca6_P1_1822421	Ca6	1822421	CATTAATTA/CATTA	TGCATCACACTTCTTT GCCT	TCAAAGTGAAAATCCC GGAG	59.4	857	INTRON	Ca_10309	--	--
Ca6_P1_1824130	Ca6	1824130	GT/GTT	TTGCAGAATGCATGGG AATA	TCCAACTCTCCGACC AAAC	60.0	779	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected 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_P1_1824314	Ca6	1824314	CA/CTCACAAA	TTGCAGAATGCATGG AATA	TCCAACTCTCCGACC AAAC	60.0	779	INTERGENIC	--	--	--
Ca6_P1_1824803	Ca6	1824803	TCC/TC	GTTTGGTCGGAGAGTT TGGA	CCCTCCTTATCCTTAC GGTTG	60.1	470	INTERGENIC	--	--	--
Ca6_P1_1825208	Ca6	1825208	A/AGATATTG	CAACCGTAAGGATAAG GAGGG	TTTGTGCATGACGCA GACT	59.8	337	INTERGENIC	--	--	--
Ca6_P1_1825931	Ca6	1825931	C/CT	TCAATCACATCACCG TTTG	AGCTCCCAATTTTGCA CTTG	57.9	508	INTERGENIC	--	--	--
Ca6_P1_18273006	Ca6	18273006	ATTAAAAATTAA/ATTAAAAATTAA AAAAATTAA	AAATGGAAACGTTA TTTGGA	CACGAATGTCCAACA TCCA	58.9	477	INTERGENIC	--	--	--
Ca6_P1_18297074	Ca6	18297074	GTTGTTCTTGTTCTTGTT/GTTGTTCT TGTTCTTGTTCTTGTT	ATGGTGGCATATTCGT GGAT	AAATTGGGCATAGAGG AGCA	60.0	253	DRR	Ca_06446	--	ERF
Ca6_P1_1831021	Ca6	1831021	CAA/CA	GTGTACCTGTTGGGGC AACT	TTGGACCTTGTTCTTT TGCC	59.9	279	DRR	Ca_10310	G	--
Ca6_P1_1831347	Ca6	1831347	TG/T	GGCAAAAGAACAGGT CCAA	TGTTAATCGGTGATGA ATTTG	60.1	745	DRR	Ca_10310	G	--
Ca6_P1_1831390	Ca6	1831390	GATT/GATTGGAAAAATT	GGCAAAAGAACAGGT CCAA	TGTTAATCGGTGATGA ATTTG	60.1	745	DRR	Ca_10310	G	--
Ca6_P1_1832442	Ca6	1832442	A/AC	AAAGGTACGTGAGGTG TGCC	CGTAATTATGATGGT GGAGTGG	60.0	614	DRR	Ca_10310	G	--
Ca6_P1_18382715	Ca6	18382715	TAAAAAAA/TAAAAAA	GTGGCAACCTTCTCTT CGAC	GGCTACCTCGCGTGTA ACAT	59.9	664	DRR	Ca_06453	--	--
Ca6_P1_18458309	Ca6	18458309	TA/TAATAATAGAA	CCAACGATAAAATTA TGGGA	GACGGATGTGTAAAT CTTGAA	58.0	468	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected 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_P1_1846516	Ca6	1846516	GCC/GC	CCATAATCTGGAAGCT GGGA	AATCTTGCATGTGGCC TTTC	60.0	746	DRR	Ca_10312	R	--
Ca6_P1_1846574	Ca6	1846574	CAAAAAA/CAAAAAA	CCATAATCTGGAAGCT GGGA	AATCTTGCATGTGGCC TTTC	60.0	746	DRR	Ca_10312	R	--
Ca6_P1_18526506	Ca6	18526506	CATATATATATATATATATATATATA TATATATA/CATATATATATATATATAT ATATATATATATATA	ATTTATGGTTTCTTGG CCCC	TGATTTTGTTTTGTG GGCA	60.0	719	INTERGENIC	--	--	--
Ca6_P1_1854219	Ca6	1854219	ATTTTT/ATTTT	GCATTTTGTCTCTTT GTCG	AGAGGACGCGTACAC TTCAAA	59.7	288	INTERGENIC	--	--	--
Ca6_P1_1854353	Ca6	1854353	ATTTTTTTTT/ATTTTTTTTT	GCATTTTGTCTCTTT GTCG	AGAGGACGCGTACAC TTCAAA	59.7	288	INTERGENIC	--	--	--
Ca6_P1_1857713	Ca6	1857713	ATTT/ATTTT	TAAGGGAAATTGATTT GCGG	ACGACAATTCAACGAC CACA	59.9	492	INTERGENIC	--	--	--
Ca6_P1_1858972	Ca6	1858972	ATTTT/ATTTTT	ACCTTGATAGGGATGG AGGG	CATGAAGCGTGGGTTT ACCT	60.1	841	INTERGENIC	--	--	--
Ca6_P1_18649492	Ca6	18649492	AATTTATATTATTTATATTATTTATATT ATTTATATTATTTATATTATTT/AATTTA TATTATTATATTATTTATATTATTTAT ATTATTTATATTATTTATATTATT	TCACATCTGCACATCG TTTAATG	CGAAAGCTGACGTAAG CAAA	60.0	431	INTERGENIC	--	--	--
Ca6_P1_18657524	Ca6	18657524	TATAGA/TATAGATAGA	AGCCCTGGTGATTTT GTCG	TTGAGGACGTTTGCTT TCAA	60.0	502	INTERGENIC	--	--	--
Ca6_P1_1866434	Ca6	1866434	ATTTTTTTTT/ATTTTTTTTTTTTT	TGAGTTGAAGGGGTCG TTTC	TTAGCTAAGGTGTGGG GTGC	60.1	665	INTERGENIC	--	--	--
Ca6_P1_1866939	Ca6	1866939	TT/TTCT	ATAGGAACAATGCACC CCAC	GGAAGTTTGGTAACGG TGGA	59.7	538	INTERGENIC	--	--	--
Ca6_P1_1867153	Ca6	1867153	A/ATAAAATAAATAAATAAT	ATAGGAACAATGCACC CCAC	CGATGCCTACAGCTTT GTGA	59.7	896	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_1867301	Ca6	1867301	CTTTTT/CTTTTT	TCCACCGTTACCAAC TTCC	CGATGCCTACAGCTTT GTGA	59.8	378	INTERGENIC	--	--	--
Ca6_P1_18675177	Ca6	18675177	TATATTAATATT/TATATTAATTAATA TT	GGGCAGTGGATTTTGT CTGT	CCGTATCATTACCCTC TGGG	60.0	689	INTERGENIC	--	--	--
Ca6_P1_18737329	Ca6	18737329	GTATATATATAT/GTATATATATATAT	TGGTCACATTTGTGT CTCG	AATCAAGTTGGTTGGC TTGG	58.1	588	INTERGENIC	--	--	--
Ca6_P1_18790835	Ca6	18790835	TCCGTTGAG/T	TGCATGGTACGCCAAA TAAA	AGCGGGTGGTTGCTA AAGTA	60.0	869	INTERGENIC	--	--	--
Ca6_P1_18816723	Ca6	18816723	ATTTTTTTT/ATTTTTTTT	TTGGGGTTTTGTAA TAAAGTGA	TTTCGTCAACTAAGGG CTGG	59.7	488	DRR	Ca_06492	--	--
Ca6_P1_18874910	Ca6	18874910	AC/A	CTCCCATGGTAGTGCT GGTT	ATCGGCGAGCTCTAAT TCAA	60.0	473	INTERGENIC	--	--	--
Ca6_P1_18932008	Ca6	18932008	ATTTTTTTTTT/ATTTTTTTTTT	GCAATTTCCAGGCTAT TCCA	GGTTCGTGGTACGACG AAGGA	60.0	754	DRR	Ca_06500	U	--
Ca6_P1_189837	Ca6	189837	AC/A	TTTGCGTGCAAAAACC TATC	TTCGTGGCACAATCAG TAGC	58.8	251	INTERGENIC	--	--	--
Ca6_P1_19093188	Ca6	19093188	ATATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTATT AT/ATATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTA TTATTATTATTAT	CCAAATGGGAAATCCA TGAT	TGCTTGCCTCTCCCA CTCT	59.4	596	INTERGENIC	--	--	--
Ca6_P1_19172700	Ca6	19172700	TTTTTAAATTAATTTTTTATTTTAA/TTT TTAAATTAATTTTTTATTTTAAATTAAT TTTTTATTTTAA	GTGGCACAGTAGACCC CATT	CGTGACATTAACTTGG GCCT	59.9	712	DRR	Ca_06524	R	--
Ca6_P1_19174154	Ca6	19174154	TTATATATATATATATAT/TTATATAT ATATATATATATATAT	GGTGAAATTCATCCGC ATCT	ACATCCGACAAATCGG AAAA	59.9	321	INTERGENIC	--	--	--
Ca6_P1_19217931	Ca6	19217931	GATATATATATATATATATATATATA TATATATAT/GATATATATATATATATA TATATATATATATATAT	CACCTCTGAAAGGGAA GCAG	GCGTCATGAGCATTAT TTCG	60.0	601	DRR	Ca_06529	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_19230223	Ca6	19230223	AATATATATATATATATATATA/AAT ATATATATATATATATATA	AGGGCATCATATTTCAT GCGT	GCAATTCGATTCCCC TTAT	60.3	734	INTERGENIC	--	--	--
Ca6_P1_19355049	Ca6	19355049	ATT/ATTT	TTGTTTCATGAAGTCTTT GGCA	CCGTGATCATATTTTC AAACCA	59.3	400	INTERGENIC	--	--	--
Ca6_P1_19355099	Ca6	19355099	CTTTTTTTTT/CTTTTTTTTT	TTGTTTCATGAAGTCTTT GGCA	CCGTGATCATATTTTC AAACCA	59.3	400	INTERGENIC	--	--	--
Ca6_P1_19365842	Ca6	19365842	TAAAAAAAA/TAAAAAAAA	GCGTTAAGGCATCCAA ACTC	TAAATGGGCTTGAA TGAA	59.7	531	INTERGENIC	--	--	--
Ca6_P1_1939700	Ca6	1939700	AATATATATATATAT/AATATATATA TATATATAT	TGATCAATTTACCAAC GATTACAGA	ATTTTACATGCCCAA AGCG	59.8	718	INTERGENIC	--	--	--
Ca6_P1_1951178	Ca6	1951178	TTAATAATAATAATAATAATAATA TAATAATAATAA/TTAATAATAATA ATAATAATAATAATAATAA	TTATTACCGTGGCT TTGG	GGCAGCTTTTATCGTG CAAT	59.8	439	DRR	Ca_10320	--	--
Ca6_P1_19515788	Ca6	19515788	CAATTAAT/CAATTAATTAAT	TTGAAATGAGTCGCA GAAGAA	TTTTCAACAACAACA TGAAAA	60.0	191	INTERGENIC	--	--	--
Ca6_P1_19591689	Ca6	19591689	CATATATATATATATATATATATA T/CATATATATATATATATATATA TATAT	TGGAACACACATTGT CATTGAT	TGTGCATATCTGCAGT TTCATTT	60.1	709	INTERGENIC	--	--	--
Ca6_P1_19680352	Ca6	19680352	TTATATATATATATATATAT/TTATAT ATATATATATATATAT	GGGAAAATGAACATGT CACAGA	CTTTGATAAGTGCGG TGGT	59.8	654	INTERGENIC	--	--	--
Ca6_P1_19747051	Ca6	19747051	AATATATATATA/AATATATATATATA	AACGGAGCCTTAGTGA AGGAG	CGTGTGCACTAACAC ACCC	59.9	715	INTERGENIC	--	--	--
Ca6_P1_1975398	Ca6	1975398	TAG/TGAAAAGGAAG	CACAAAGGCCTGATCC ATCT	GCTTTTGCGGCATCTA GTTC	60.1	653	INTERGENIC	--	--	--
Ca6_P1_1975493	Ca6	1975493	AT/ATACAT	GTAGTTTGGCTTCCCT TCCC	GCTTTTGCGGCATCTA GTTC	59.9	458	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_1976018	Ca6	1976018	AAT/AATAGAT	GAAGTAGATGCCGCAA AAGC	GTACGTGGTCTTCCC TGAA	60.0	560	DRR	Ca_10322	--	--
Ca6_P1_1976736	Ca6	1976736	TC/TCCC	TTATTCTCCATTGGGC ATCC	TCCTGCGGGTAATGAT AAGC	59.7	963	DRR	Ca_10322	--	--
Ca6_P1_1976758	Ca6	1976758	CATC/CATCAAAATC	TCACGCATCAAAGTGA AACC	TCCTGCGGGTAATGAT AAGC	59.7	843	DRR	Ca_10322	--	--
Ca6_P1_1977351	Ca6	1977351	TTT/TTTTTT	GCTTATCATTACCCGC AGGA	TAGCATAGTCCAAGCG GACC	60.1	465	DRR	Ca_10322	--	--
Ca6_P1_1977557	Ca6	1977557	ATT/ATCCCTCATTGTTT	GCTTATCATTACCCGC AGGA	TCTGGAACCGGAGCA ATAAC	60.1	761	DRR	Ca_10322	--	--
Ca6_P1_1978360	Ca6	1978360	A/ATCG	CGTGGAGCATTCCGAG TATT	GGAGTTAGGCGTGT GATGT	60.1	575	INTRON	Ca_10322	--	--
Ca6_P1_1978522	Ca6	1978522	C/CCTGAGG	ACATCACACGCCCTAA CTCC	CTTAGCCTTGCAAATG AGGC	60.0	197	INTRON	Ca_10322	--	--
Ca6_P1_20515518	Ca6	20515518	GAAAA/GAAAAA	AACCAAGAGCAGCCAC AGTT	GGGCCACTCACTGGA AGTAG	59.9	572	DRR	Ca_16380	B	--
Ca6_P1_20531282	Ca6	20531282	CTTTTTTTTT/CTTTTTTTTTTT	TTGGTGGAACCTTTGA AAATGA	CCTTTTCAGCAAAAAC TCCG	59.6	630	INTERGENIC	--	--	--
Ca6_P1_20611867	Ca6	20611867	AATTATTATTATTATTATTATTATT ATTATTATTATT/AAATTATTATTATTATT ATTATTATTATTATTATTATTATTATT	AAGCACCAATCGATGG AAAG	TTTCATTCGGGAGAAA CCAC	60.1	923	INTERGENIC	--	--	--
Ca6_P1_20779566	Ca6	20779566	GTTATTATTATTATTATTATTATTATTA TTATTATTATTATTATT/ATTATTATTATT TATTATTATTATTATTATTATTATTATT ATTATTATT	TAGGATGGTGGTGCAC AAGA	GCCATGCATGCCTATA CCTT	60.1	560	DRR	Ca_16352	--	NF-YA
Ca6_P1_20851411	Ca6	20851411	TTTCTTCTTCTT/TTTCTTCTTCTTCTT	ACACAAAACCTGCCGAT CCAT	CTTGAAAACGAATTGG GACC	60.4	335	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_20852278	Ca6	20852278	TAAAA/TAA	TGCAATTTCAAGGGAC AAGA	CAAGGATGATAGCG ATGTG	59.2	731	INTERGENIC	--	--	--
Ca6_P1_20853701	Ca6	20853701	GA/GAATAAGCA	TCCTGAGGAACATTCT CCGT	AAGCAACAAAAGAACA TCACACA	59.7	327	INTERGENIC	--	--	--
Ca6_P1_20920548	Ca6	20920548	CATATT/CATATTATATT	TTCTTGGAACCTGCAA AATC	AAAGACCAGCACCATC AACC	60.1	353	INTRON	Ca_16338	U	--
Ca6_P1_20952173	Ca6	20952173	TATAATAATAATAATAATAATAATA AT/TATAATAATAATAATAATAATA ATAATAAT	CCACTCTCCTCACTGG AAGC	TGCATGATTACCATCA ACGAA	60.0	347	INTERGENIC	--	--	--
Ca6_P1_21021586	Ca6	21021586	CTATTTATTTATTTATTTATTT/CT ATTTATTTATTTATTTATTT	CACCGTCGTGTTTCATC TGTC	TTATTTACCGTCGTG TCCA	60.2	458	INTERGENIC	--	--	--
Ca6_P1_21110734	Ca6	21110734	AATGAT/AAT	GGTTGCTTGTGAGCTT CCTC	TTGGTGCGTGTGTGT TTTT	60.0	497	DRR	Ca_16322	G	--
Ca6_P1_21110757	Ca6	21110757	TAA/TAAA	GGTTGCTTGTGAGCTT CCTC	TTGGTGCGTGTGTGT TTTT	60.0	497	DRR	Ca_16322	G	--
Ca6_P1_21139884	Ca6	21139884	ATTTTTTTT/ATTTTTTTTT	CAGAAGGATTGCTCGT GTGA	TGCATAGGCAAAATG ATTGA	60.0	528	INTERGENIC	--	--	--
Ca6_P1_21141563	Ca6	21141563	GTTTTTT/GTTTTT	TCCGATAGGAAGAGCC AATG	ACGTTTATTTTCGGA CCCC	60.2	697	INTERGENIC	--	--	--
Ca6_P1_21146689	Ca6	21146689	AT/A	CACACCTTTTGGATGC ACAC	TGGTCATTTTCGTCAT CCCT	60.0	379	INTERGENIC	--	--	--
Ca6_P1_21154520	Ca6	21154520	AACGCA/AA	CTCTGCTAGTGCCTT CCTT	AAAGGGGGAAGAAAC GAAAA	59.9	419	INTERGENIC	--	--	--
Ca6_P1_21340779	Ca6	21340779	AT/ATT	GTTGAGGTGATGGGTA TGGG	GACAATGAATCAATCA CCATGA	60.1	654	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_21353236	Ca6	21353236	GTTTTTTTTT/GTTTTTTTTT	TTATCGGTGACGGAGC TAGG	TGCATTATTTCTCAGC GGGT	60.2	548	INTERGENIC	--	--	--
Ca6_P1_21374485	Ca6	21374485	AATATATATATATATATATATA/A ATATATATATATATATATATATAT A	GACCTTTTGCAATTGA CTTGG	GGCAAACCGTTTTAAT CTTTT	59.6	838	INTERGENIC	--	--	--
Ca6_P1_21388665	Ca6	21388665	GTATATATATATATATATAT/GTATA TATATATATATATAT	CGCTAGTCTTTTATCTC AATTCG	TTCTTTTGCACCATGC AGTC	58.7	366	INTERGENIC	--	--	--
Ca6_P1_21399662	Ca6	21399662	AAATAATAATAATAATAA/AAATAA TAATAATAATAA	TCCCTAGTTGGAGGTC GATG	GTCCACCTAAATGCCC TTGA	60.1	447	INTERGENIC	--	--	--
Ca6_P1_21400148	Ca6	21400148	ATATTATTATTATTATTATT/ATATT ATTATTATTATTATT	GATGTGGAAGCTCAAGG GCAT	AGCCAGCTGAAGACCA AAAA	59.9	349	INTERGENIC	--	--	--
Ca6_P1_21400209	Ca6	21400209	GAAAAAAAAA/GAAAAAAAAA	GATGTGGAAGCTCAAGG GCAT	AGCCAGCTGAAGACCA AAAA	59.9	349	INTERGENIC	--	--	--
Ca6_P1_21401021	Ca6	21401021	TAAAAA/TAAAAA	TTGGTCTCGTGTGCTT TACG	TGGTTCTGGGCACATA GTGA	59.9	643	INTERGENIC	--	--	--
Ca6_P1_21401312	Ca6	21401312	C/CT	AGCTCAGTCCTCACAA CCGT	TTAGATCGGACAAGAA ACCGA	59.9	344	INTERGENIC	--	--	--
Ca6_P1_21401897	Ca6	21401897	ATATTACACTATTA/ATA	TCGGTTTCTTGTCGGA TCTAA	ATTCATGGATGCGGGT ATGT	59.7	721	DRR	Ca_19861	E	--
Ca6_P1_21408015	Ca6	21408015	ATTTTTTT/ATTTTTTT	AGGCCTTTTATTCGTT GCC	TTGAATCGCAAAACAA CCAA	60.4	897	DRR	Ca_19860	--	--
Ca6_P1_21470474	Ca6	21470474	CAAAAAAAAA/CAAAAAAAAA	TTTCACATATCCTATCA AACACATTTT	TTCTGTTGCTCCAAAGA CTCC	59.2	367	INTERGENIC	--	--	--
Ca6_P1_21485595	Ca6	21485595	GTTTTTTT/GTTTTTTT	TGCGGGCTAGCTCACT TAAT	TCAAAACAAATAGGCA GGGG	60.0	115	INTERGENIC	--	--	--

[illegible]

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/P1)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected 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_P1_22099449	Ca6	22099449	ATTTTTTTTT/ATTTTTTTTTTT	TGTGTTGCTTCTGGC TTTG	ACGTGTGGGTTTCAG GTCTC	60.0	620	INTERGENIC	--	--	--
Ca6_P1_22185260	Ca6	22185260	CATTCAATTCAATTCA/CATTCAATTCA ATTCAATTCA	GAGGGATATTGGAGT GGCA	CTTGGTTTGGGTCTTG GAAA	59.9	384	INTERGENIC	--	--	--
Ca6_P1_22194113	Ca6	22194113	TTACTCGATAAGATACTCGATAA/TTA CTCGATAA	TGTCTGTGCAAAATG TGGT	TTGTTCTGTCTTCTG CACG	60.0	755	INTRON	Ca_11219	--	bZIP
Ca6_P1_2283477	Ca6	2283477	TTATATATATATATATATATATATAT TATATATATATATATATATATATATA	CTTGAGAGTGTGAGCC ACCA	TGAGTTTCCACCTCCT GGAT	60.0	968	DRR	Ca_10356	--	--
Ca6_P1_22915019	Ca6	22915019	AATATATATATATATAT/AATATATATA TATATATAT	CCTAACCAACAAACCT CCGA	TGAAAAATCGAACATT GGCA	60.0	369	INTERGENIC	--	--	--
Ca6_P1_22995848	Ca6	22995848	CTCTCAATCTAAATGGACAT/CTCTCA ATCTAAATGGACATCTCAATCTAAATG GACAT	AAACATTTTCAACGC GTTT	GATTGTGTGGAGGCG GTACT	60.0	664	DRR	Ca_11148	--	--
Ca6_P1_23037853	Ca6	23037853	TAAAAAAAAA/TAAAAAAAAA	GCTGAAAAACAAGGAG ATCAAA	AAATTGCACAAAATAC ATGCTAGG	58.5	567	DRR	Ca_11143	--	ERF
Ca6_P1_23042823	Ca6	23042823	CATATATATATATAT/CATATATATATA T	CAACGATCTGCCACCAC ACAT	GGTGCAGCAAGTGAG CAATA	60.6	665	INTRON	Ca_11143	--	ERF
Ca6_P1_23042859	Ca6	23042859	TCAATCCAATCCAATCCAAT/TCAATC CAATCCAATCCAATCCAAT	CAACGATCTGCCACCAC ACAT	GGTGCAGCAAGTGAG CAATA	60.6	665	INTRON	Ca_11143	--	ERF
Ca6_P1_23042981	Ca6	23042981	TAAA/TAA	CAACGATCTGCCACCAC ACAT	GGTGCAGCAAGTGAG CAATA	60.6	665	INTRON	Ca_11143	--	ERF
Ca6_P1_23064332	Ca6	23064332	CCATGTGTGTTATTC/CC	TGGGTTGATTTTCCCA CATT	TGGAGTTATAGAGACC ATTCCG	60.0	391	INTERGENIC	--	--	--
Ca6_P1_23064745	Ca6	23064745	CA/C	TGGGTTGATTTTCCCA CATT	TCTCGAGCAAATCACA AGTTAAA	60.0	571	INTERGENIC	--	--	--

[illegible]

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_23562113	Ca6	23562113	AATATATATATATATATATATATATA /AATATATATATATATATATATATATA ATA	TAAGTGGGTCAGGA TGGA	AGCTATGGAGTGAGC GGAA	60.3	351	INTERGENIC	--	--	--
Ca6_P1_23584156	Ca6	23584156	AA/AAGTATA	ATGTTGGAACCCGAGA CAAG	AATGTGTTTGCTCTTT GGGC	60.0	703	INTERGENIC	--	--	--
Ca6_P1_23642077	Ca6	23642077	TC/TTTCCC	GATTACCATGGTTGGG ATCG	CAATTCGGTGCTTGT TCCT	60.0	137	INTRON	Ca_11091	R	--
Ca6_P1_23741801	Ca6	23741801	GTATATATATATATATATAT/GTATA TATATATATATATAT	TAGTGCTCTGCATTG TCCG	TGAAGGACGATGAATT CCTAAAA	60.0	768	INTERGENIC	--	--	--
Ca6_P1_23755242	Ca6	23755242	CA/CACTCTCAGATGA	AATGTGGATCCTGCAC ACAA	GTTGTGCTTCTGCTC CTCC	60.0	452	INTERGENIC	--	--	--
Ca6_P1_23755333	Ca6	23755333	TAC/T	GGAGGAGCAGAAGCA ACAAC	CTGTGGGATCAATTGG CTCT	60.0	256	INTERGENIC	--	--	--
Ca6_P1_23764400	Ca6	23764400	GATATATATATATATATATATATATA TATATATATATATAT/GATATATATATA TATATATATATATATATAT	ACTCCAACGTGCGATA GCTT	AACGAAGTAATTCAGC GCAAA	59.9	730	DRR	Ca_11079	K	--
Ca6_P1_2379069	Ca6	2379069	T/TCAAGAGAATAA	GGTCTCAGTTGCAGCA CAAA	CCGATTGGGTTAGCTG TGTT	60.0	305	CDS (FRAME SHIFT)	Ca_10369	T	MYB
Ca6_P1_2381719	Ca6	2381719	TGGGGG/TGGGGGGG	ATTTGAACCATTCAC GCC	ACTCATTGTTGGCTCA TCCC	59.8	513	INTERGENIC	--	--	--
Ca6_P1_2382380	Ca6	2382380	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA	GGGATGAGCCAACAAT GAGT	TGATGTTTGGTTCCAT TTTGA	59.9	450	INTERGENIC	--	--	--
Ca6_P1_2385488	Ca6	2385488	TT/TTATTAT	TCCTCCTCTTTGGCAG GTTA	GGGACCCGGAACCTA AATAA	59.8	722	INTERGENIC	--	--	--
Ca6_P1_23873936	Ca6	23873936	CAT/CATCCTTTAAT	GAGCATAGTTCCTTT CACGG	AATTTGGTCCCAAA CAGA	58.8	441	INTERGENIC	--	--	--

[illegible]

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_24647579	Ca6	24647579	ATTTTTTTTT/ATTTTTTTTT	GTTCTGGATGTGTTG GCCT	ATTCAACTGCATGTCG CATC	60.0	485	INTERGENIC	--	--	--
Ca6_P1_24730447	Ca6	24730447	GTAATAATAATAATAATAATAATA A/GTAATAATAATAATAATAATAAT AATAA	TGAGGACTGGACGTAG CCTT	ACCCCAATTTTCAACC ATCA	59.9	498	INTERGENIC	--	--	--
Ca6_P1_2473639	Ca6	2473639	ACTCT/ACT	ATGGTTGATTCAATGG GAGC	TGAAGCATGCTGACAA GGAC	59.8	100	INTRON	Ca_10378	A	NAC
Ca6_P1_2478363	Ca6	2478363	TAAAAAAAAAAAAA/TAAAAAAAAAAA A	TGCAATGTGGAACGAA GAAA	CATCAATTCATCACTT GTGGAC	60.2	736	INTERGENIC	--	--	--
Ca6_P1_25002657	Ca6	25002657	AATATATATATATATAT/AAATATA TATATATATATAT	CTACATATGCAAAAGC GGCA	GGATGTGTTTCCCTT TCAA	59.9	400	INTERGENIC	--	--	--
Ca6_P1_2506332	Ca6	2506332	CTTTTTTT/CTTTTTTTTT	CGAAAAGCGTTACGAA GGAG	CATCTCTAACACATC AAATTCATCA	60.0	389	INTERGENIC	--	--	--
Ca6_P1_25069605	Ca6	25069605	CTATATATATATATATATATATAT ATA/CTATATATATATATATATAT ATATATATATATA	ACCTTGCTCCCTTACC CACT	TATTTGGATTTTGGC TCGG	60.0	489	INTERGENIC	--	--	--
Ca6_P1_2512054	Ca6	2512054	TA/TAA	GCTCACGTTCCAGTGA TGAA	AGCAATGCCAGTTTA CACC	59.8	569	INTRON	Ca_10383	A	--
Ca6_P1_25130968	Ca6	25130968	A/AATAAGCCT	CCAAAAAGGTTGGAGA TTGA	CCTTTTACAGCGCTTT TCCA	59.9	275	DRR	Ca_26068	--	--
Ca6_P1_2518566	Ca6	2518566	TG/TGG	TAGTCACGCTTGGTCA CTCG	AATGCATTTGCCTGAC TCAA	60.0	952	DRR	Ca_10384	--	--
Ca6_P1_2518811	Ca6	2518811	TA/TAA	AATCTGGCTCAAAATG CAGC	AATGCATTTGCCTGAC TCAA	60.4	723	DRR	Ca_10384	--	--
Ca6_P1_25199710	Ca6	25199710	AATATATATATATATATATATATA TATATATATAT/AAATATATATATAT ATATATATATATATAT	CATTGGCGTGGAGTGA GAAT	GGAGGTGACGTGGAA ATGAT	60.0	379	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_2523036	Ca6	2523036	GGTAAT/G	TTGGTCTCTGGTTG AGGG	CATGCTAGCAAATGCC ATACA	60.1	791	DRR	Ca_10385	--	--
Ca6_P1_2524006	Ca6	2524006	A/AT	GGATGAATTGATGATG GCAA	CCATCAAAACATCATT TGAACA	59.3	600	DRR	Ca_10385	--	--
Ca6_P1_2524155	Ca6	2524155	TAAAAA/TAAAAA	GGATGAATTGATGATG GCAA	CCATCAAAACATCATT TGAACA	59.3	600	DRR	Ca_10385	--	--
Ca6_P1_2525217	Ca6	2525217	TT/TTGCAT	AGTAACCGACCAGCCA ATCA	CAAATTTTGGTCACAT TCCG	60.5	741	INTERGENIC	--	--	--
Ca6_P1_2525428	Ca6	2525428	TAAAAAAAAA/TAAAAAAAAA	CCTGAAATTGATTCT GCGT	CAAATTTTGGTCACAT TCCG	57.8	578	INTERGENIC	--	--	--
Ca6_P1_2528953	Ca6	2528953	AATAT/AAT	TGGGTCAATGTTAAGA GGGC	CGTCAACGTCGTGCAT TTAC	59.9	515	INTERGENIC	--	--	--
Ca6_P1_2533591	Ca6	2533591	AT/ATT	CTCTTATGTCGGTCGC CAAT	AACTTTGGAAGCTG TGGG	60.1	533	INTERGENIC	--	--	--
Ca6_P1_2533657	Ca6	2533657	CA/CAA	CTCTTATGTCGGTCGC CAAT	AACTTTGGAAGCTG TGGG	60.1	533	INTERGENIC	--	--	--
Ca6_P1_2538918	Ca6	2538918	CAATAATAATAATAAT/CAATAATA ATAATAATAATAATAAT	AGGTTGTAGGAGGAAC GGGT	ACTTTGGTACGTGCTT CGCT	59.9	458	INTERGENIC	--	--	--
Ca6_P1_25526796	Ca6	25526796	AAGGGTTTAGGGTTTAGGGTTTAGG/ AAGGGTTTAGGGTTTAGG	GGGTTTTGGGTTTAGG GTTT	GCATTGCACTTAAAG GACGA	59.1	610	INTERGENIC	--	--	--
Ca6_P1_2553132	Ca6	2553132	GCACACACACACACAC/GCACAC ACACACACACACACAC	TTGCTTGAATGCACA TTTT	TGGTCTAACTTTCGGC ACAA	60.3	647	INTERGENIC	--	--	--
Ca6_P1_25594919	Ca6	25594919	AATATATATATATATATATATATATA TATATATATAAATATATATATATATAT ATATATATATATATATA	TATTTGGATTTTGCT CGG	CGAAATGAAACGGG AGAA	59.9	293	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_25613248	Ca6	25613248	TA/TAA	TGGCATATAGGTCAAT TAGGGG	TGGTATTGTGGCTGC TTTG	60.1	547	INTERGENIC	--	--	--
Ca6_P1_25625162	Ca6	25625162	TC/TCC	CAAGTGCTTTGTCGGA ATCA	TTCAGAGGAAGGGGA AAGGT	59.8	506	CDS (FRAME SHIFT)	Ca_24009	K	ARR-B
Ca6_P1_25682308	Ca6	25682308	GTTTAGGTTTTAGGTTTTAGG/GTTT AGTTTTAGGTTTTAGGTTTTAGG	TGGGTCTTGGGCTGTT TTAG	CCCTTAACCCCTTAACC CCAA	60.1	838	INTERGENIC	--	--	--
Ca6_P1_25692901	Ca6	25692901	CTATATATATATATATATA/CTATATAT ATATATATATATA	ATTCCAAACCAAAACC CTCC	AAATTGGTCCACTAGC ACCG	60.0	883	INTERGENIC	--	--	--
Ca6_P1_25722389	Ca6	25722389	TGGGTTTAGGGTTTAGGGTGTAGGG TTTGGGGTTTAAGGTTTAGGGTTTAA GGTTTAGGGTTTACGGTTTAGGGTT/ TGGGTTTAGGGTTTAGGGTTTAGGGT GTAGGGTTGGGGTTTAAAGTTTAGG	TTGTGATTTGGGTTTT GGGT	TGATTAAGAACCAAAA TGGCCT	60.1	502	INTERGENIC	--	--	--
Ca6_P1_25762575	Ca6	25762575	TTATATATATATATATATATAT/TTAT ATATATATATATATAT	TCTCTTCGCGAAACGA ATCT	TTGGTATTGAAGCTCAG GGGC	60.1	576	INTERGENIC	--	--	--
Ca6_P1_2586276	Ca6	2586276	GTTTTTTTTTT/GTTTTTTTTTTTT	GGTGCCACACATACAT TGGA	TAATGCGCGGATCTTA TTCC	60.2	490	INTERGENIC	--	--	--
Ca6_P1_25959668	Ca6	25959668	TACATCAAA/TACATCAATATATGAC ATCAAA	TGTCATCCCAACACG TCAT	TTTTCCCATGCAAGG TTAG	59.8	339	DRR	Ca_25499	R	C2H2
Ca6_P1_25977711	Ca6	25977711	ATTAGTCGTTAGT/ATTAGT	TTTTCGCTTCCAATCCA ACT	ATTGGGATGGTGTGGT GAGT	59.7	225	INTERGENIC	--	--	--
Ca6_P1_26001700	Ca6	26001700	ATTTTTTTTT/ATTTTTTTTT	CACGATGTGGGACTGA ACAC	TTTCCCAATGTGCAGG TTTT	60.0	559	INTERGENIC	--	--	--
Ca6_P1_26092614	Ca6	26092614	GATATATATATATATATATATATAT/ GATATATATATATATATATATATATA T	ATGTTTTGGATTTTGG CTCG	AATTCCTTCCACACA ACCA	59.9	716	INTERGENIC	--	--	--
Ca6_P1_26113844	Ca6	26113844	TAAAAAAAAA/TAAAAAAAAA	AGTTTGGTTCTGTGCT GCCT	TTGTAAGCCCATTCCTC ACACA	59.9	769	DRR	Ca_25504	R	C2H2

[illegible]

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_26590044	Ca6	26590044	GATAATAATAATAATAATA/GATAA TAATAATAATAATA	CCTTTGTGAGGGCTAA AAGC	TTGTTGTTGACCAAGC TAGGAA	59.0	731	INTERGENIC	--	--	--
Ca6_P1_2659757	Ca6	2659757	CATATATATATATATATATATATATA TATATAT/CATATATATATATATATATA TATATATATAT	ACATTGTGATCCCTTC CAGC	TGGTCTGCATGCCCTT TATT	59.9	537	DRR	Ca_10399	--	--
Ca6_P1_26668470	Ca6	26668470	T/TCTATATTTTTTA	CGACGCAATGCATTAA GAGA	CCTTAATCGCCGAAAA TCAT	60.0	490	DRR	Ca_16695	--	--
Ca6_P1_26694181	Ca6	26694181	AATATATATATATATATATATA/AAT ATATATATATATATATATATATAT A	TCCATGACAAATCTGT CTTTTGAT	TTGGACTTACCTTCCA TCCC	59.9	867	INTERGENIC	--	--	--
Ca6_P1_2674884	Ca6	2674884	ATTTTTTTTTT/ATTTTTTTT	GGGCTAGGCCTTAGTC AACC	ACGATAGTAGATGTGG CGGC	60.1	594	INTRON	Ca_10401	V	--
Ca6_P1_2674985	Ca6	2674985	ATGTT/AT	GAAACTTCGTGCCTTT TTGC	ACGATAGTAGATGTGG CGGC	59.9	152	INTRON	Ca_10401	V	--
Ca6_P1_26764661	Ca6	26764661	TAGAGAGAGAGAGAGAGAGAGA/T AGAGAGAGAGAGAGAGAGAGA	CCATAGGATGAAATGC TGGC	GCAGCCATGAACCTTC AACT	60.4	436	INTERGENIC	--	--	--
Ca6_P1_26843571	Ca6	26843571	AAACAA/AAA	TTGACTCCACTTCCCG AATC	AATTGACCTATTTGTC GGCG	60.1	440	DRR	Ca_16716	--	HB-other
Ca6_P1_26867680	Ca6	26867680	CC/CCCTAAATATAAC	TGCAGAAATCGTTCAAA CCAA	CAAGTGGCCTCGAACT CAAT	60.2	720	INTERGENIC	--	--	--
Ca6_P1_26914567	Ca6	26914567	G/GTTGGGATCAGGATTAGT	AGTACCACAAGGAACG ACGG	TCAAGGCCTGGCATTG TAGT	60.0	568	CDS (FRAME SHIFT)	Ca_16724	--	--
Ca6_P1_26929329	Ca6	26929329	ACG/A	AAACCAACGATGGAAG CAAC	TTGCATCTGCATAAGC ATCC	60.0	489	INTERGENIC	--	--	--
Ca6_P1_26931819	Ca6	26931819	TTATATATATATATAT/TTATATATAT ATATATATATAT	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/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_2695274	Ca6	2695274	ATTTTTTTTT/ATTTTTTTTT	TTCAAAACATATACCG CACG	TTTAACACGGTTGTG CATGA	58.6	250	INTERGENIC	--	--	--
Ca6_P1_2708428	Ca6	2708428	ATTTTTTTTT/ATTTTTTTTT	TGCTTAAGCTAGGGGT GTGC	TGGTCCAAAACATT CCAA	60.4	818	DRR	Ca_10404	--	--
Ca6_P1_2711937	Ca6	2711937	TACGTTGA/TA	ATCGGCGATTATTTAC AGCG	AGTCTGGTGCTCGT GACTT	60.1	501	INTERGENIC	--	--	--
Ca6_P1_27124233	Ca6	27124233	TAAAAAAA/TAAAAAAA	CGGAATGCGATCATGT TCTA	TTCTCAAAATATAACC AAACTGCC	59.6	933	INTRON	Ca_14630	--	MYB
Ca6_P1_27165011	Ca6	27165011	ATATTATTATTATTATTATTATT T/ATATTATTATTATTATTATTATT	CATTGTTTGATCCATGT CGC	CCATCATTGACACTCG AAAGAA	59.9	675	INTERGENIC	--	--	--
Ca6_P1_27266132	Ca6	27266132	TTATATATATATATATATATATAT ATATATAT/TTATATATATATATATAT ATATATATATATATATATATAT	TTTTAAGGCGGACAAG TTGG	TTTCTCCAAAATTTC GTCAA	60.1	780	INTERGENIC	--	--	--
Ca6_P1_27277484	Ca6	27277484	TTATATATATATATATATATAT/TTAT ATATATATATATATATATATATATAT	TTCTTTCATGGGAGAC AGCC	AAAAATTGCTCGTAAG ATACCAA	60.2	716	INTERGENIC	--	--	--
Ca6_P1_27289106	Ca6	27289106	GATATATAT/GATATATATAT	CAATTCCCACAGGTAC GCTT	AATTTCAAGGATTGGC GAAG	60.0	612	INTERGENIC	--	--	--
Ca6_P1_27332756	Ca6	27332756	AAGAGAGAGAGAGAGAGAGAGAGAG AGAGAGAGA/AAGAGAGAGAGAGAGA GAGAGAGAGAGAGAGAGAGA	CACACAGGGGCATATC CTTT	GCAGCTGAGTAGTGT GCGAG	59.8	648	INTRON	Ca_14617	K	--
Ca6_P1_2735214	Ca6	2735214	AATATATATATATATATATAT/AA TATATATATATATATATATATAT	TCCTGAATTCGATTG GGTT	TGGGTGGAACAGTG AATGA	59.4	645	INTERGENIC	--	--	--
Ca6_P1_27406139	Ca6	27406139	CTCAGATCAGA/CTCAGA	CTAAAGGAGCAAGTGG CTGG	CTGTGGAATTTCCCC TTCA	60.0	581	INTRON	Ca_14613	C	--
Ca6_P1_27628357	Ca6	27628357	GTTTTTTTT/GTTTTTTTTT	TTTAGTCAAGCTCCGC CACT	ACATGACACATATTTT CACCAAT	60.0	426	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_27628955	Ca6	27628955	GTATATATATATATA/GTATATATAT ATATATATATATA	TTTGTGTTCTCATT TGTTTTT	ACGGGACATATTGTT TTACTGA	57.1	388	INTERGENIC	--	--	--
Ca6_P1_2763884	Ca6	2763884	AA/AATAATA	TGCAAGAAGTTTGG CTTTCTG	TTTTCTGTTTTGTG GAATGGA	60.8	816	INTERGENIC	--	--	--
Ca6_P1_27681598	Ca6	27681598	CTTTTTTTTTTT/CTTTTTTTTTTT	TTGTGCTGAGAAGTC GACAAA	TCAATTTTAATCACT GACAATCA	59.6	518	INTERGENIC	--	--	--
Ca6_P1_27773202	Ca6	27773202	AATATATATATATATATAT/AATATA TATATATATATATATAT	ATCGGAGTGGATTAG GGTC	AAATGACCAAGTTGG AAAAA	60.2	384	DRR	Ca_14584	--	--
Ca6_P1_27808764	Ca6	27808764	GATATATATATATATAT/GATATATA TATATATATATATAT	CCTCAAAGGGAAGGG AAAG	CGTTCTTTGTTCTGG ACGG	60.0	632	INTERGENIC	--	--	--
Ca6_P1_2783350	Ca6	2783350	CTCACGTT/CT	GTTGATGGAATTAGC CGAA	TCGCAACGTGCGAAT ATTA	59.9	276	DRR	Ca_10412	KR	--
Ca6_P1_27929163	Ca6	27929163	TG/TGGTGTCGG	GGACAAACAAAATG GGGA	GCAGAACTGGATT GGGT	59.8	198	INTERGENIC	--	--	--
Ca6_P1_27992261	Ca6	27992261	AAT/AATAT	TTCTTGAAGCTTGAT GAGAATTT	TCCTCGTATAGGCTAA ATGACTCC	58.6	743	INTERGENIC	--	--	--
Ca6_P1_28011542	Ca6	28011542	CAAAAAAAAA/CAAAAAAAAA	CTCCATCATGGACAT TTCA	TATGAGACGTTGTCAC CCCA	59.3	597	INTERGENIC	--	--	--
Ca6_P1_28016489	Ca6	28016489	ATTTTTTTTT/ATTTTTTTTT	CCTCCCGTTTACAAAT CCAA	CGAGGAAATGAAAAAT CCAAA	59.8	687	INTERGENIC	--	--	--
Ca6_P1_28020590	Ca6	28020590	ATTTTTTTTT/ATTTTTTTTT	GGCGTGAATTTTATT GTTGGA	CCAAAATTGTAGTTAA ATGTGCAA	60.1	145	INTERGENIC	--	--	--
Ca6_P1_28065874	Ca6	28065874	ATTTTTTTTT/ATTTTTTTTT	TTGCAAGAAGCAAGGA GCTA	CCCAACACTTCAATC AGCA	58.9	456	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/P1)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_28086166	Ca6	28086166	C/CTT	TGGTAACCCAGCGTAT TTGC	GTGTGATGATTGTGCT TGCC	60.9	162	INTERGENIC	--	--	--
Ca6_P1_28096281	Ca6	28096281	CTTTTTTTTT/CTTTTTTTTTT	GGAATACGTGTCCAT GTCC	TTACTTCCCATTACGC TGCC	60.1	679	INTERGENIC	--	--	--
Ca6_P1_28098136	Ca6	28098136	ATTTTTTTTT/ATTTTTTTTTT	TTTGATTGTGTCACT GTAGCA	TGCGTCTTACAAATTT CAATCA	59.2	318	INTERGENIC	--	--	--
Ca6_P1_28159515	Ca6	28159515	TAAAAAAAA/TAAAAAAAA	AAAACTATGCACAAA CTGACG	ATGGCGGCTAAGAAG ACAGA	57.1	456	INTERGENIC	--	--	--
Ca6_P1_28189141	Ca6	28189141	TAAAAAAAAAAAA/TAAAAAAAAAA	GTCAAGATCTGCTGGT GCAA	GCAGTCAATATAATGG GAAGTATGAA	60.0	425	INTERGENIC	--	--	--
Ca6_P1_28190654	Ca6	28190654	A/ATAAAG	AGGTCTCATACCAGAG ATGCG	TGTGGTTGAGTAAATG TGCCA	59.3	580	INTERGENIC	--	--	--
Ca6_P1_28190835	Ca6	28190835	ATATTATTATTATT/ATATTATTATT ATTATTATT	AGGTCTCATACCAGAG ATGCG	AAGTTAAGGGACCGCA AATG	59.3	871	INTERGENIC	--	--	--
Ca6_P1_28192228	Ca6	28192228	TAAAAAAAA/TAAAAAAAA	TTTGGGATGCGACCTC TTAC	TTGGTGAAGGAGGAG GATTG	60.1	654	INTERGENIC	--	--	--
Ca6_P1_28193559	Ca6	28193559	AGGG/AGG	AAGGACTAAGTCGGGA AGAAAA	GATGGTTTTTGTCCAT TGAATTT	59.7	131	INTERGENIC	--	--	--
Ca6_P1_28194024	Ca6	28194024	ATTTTT/ATTTTTT	GGACCACGAATGTAAT TTAGCC	TGCGAGCATTAGAAGT TGTTG	59.7	737	INTERGENIC	--	--	--
Ca6_P1_28301391	Ca6	28301391	CA/C	ATAAACCGGTGACCAT TGGA	TGAACACGTCAAACAC GACA	60.1	551	INTERGENIC	--	--	--
Ca6_P1_28326755	Ca6	28326755	AT/ATT	TTTGGGCTTGAAGATG AAAA	TTTAAAGCAAGGGTG GTGG	58.3	336	DRR	Ca_25968	A	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_28327723	Ca6	28327723	CATATATATATATAT/CATATATATAT	CAAGAGCATCGTGCA AGGA	GTCCTGGCGTGACAA GAAAT	60.0	424	DRR	Ca_25968	A	--
Ca6_P1_28332319	Ca6	28332319	ATTTT/ATTTT	TTTCAAAAAGTCCCAAT CGC	GGTTTGGAGAAGAAGA CGAAA	60.1	751	INTERGENIC	--	--	--
Ca6_P1_28332579	Ca6	28332579	A/AG	GTCGGAGCTCTGCCAT AAAA	GGTTTGGAGAAGAAGA CGAAA	60.4	599	INTERGENIC	--	--	--
Ca6_P1_28332651	Ca6	28332651	C/CT	GTCGGAGCTCTGCCAT AAAA	GGTTTGGAGAAGAAGA CGAAA	60.4	599	INTERGENIC	--	--	--
Ca6_P1_28332758	Ca6	28332758	TAAA/TAAAA	TTTCGTCTTCTTCTCCA AACC	CCCAACATATTACCTG TTACCCA	58.4	502	INTERGENIC	--	--	--
Ca6_P1_28332811	Ca6	28332811	A/AG	TTTCGTCTTCTTCTCCA AACC	CCCAACATATTACCTG TTACCCA	58.4	502	INTERGENIC	--	--	--
Ca6_P1_28332973	Ca6	28332973	A/AT	TTTCGTCTTCTTCTCCA AACC	CGTGCAAAGTCGAAG CGTAT	58.4	669	INTERGENIC	--	--	--
Ca6_P1_28336699	Ca6	28336699	ATTTT/ATTT	TCTCCCATTTTACCAT GCC	TTTGGCTTTGGTTGAT TCCT	59.8	980	INTERGENIC	--	--	--
Ca6_P1_28354982	Ca6	28354982	TGGAGCAACCAACGGAGCAA/TGGA GCAACCAACGGAGCAACCAACGG AGCAA	TAGATCAAACGGAGCA ACCA	AGAACGGCATCCAGA GAAGA	59.3	109	INTERGENIC	--	--	--
Ca6_P1_28380089	Ca6	28380089	CATATATATATATATATATATATAT/ CATATATATATATATATATATATATA TAT	CAATGGTCCTTCCGAT CCTA	TGCTCTTTCTCCCTCA CTCG	59.9	442	INTERGENIC	--	--	--
Ca6_P1_28443583	Ca6	28443583	CTCTTTTGTGTGTTA/CTCTTTTGTGT ATATCTTTTGTGTGTTA	AAAAACACCAAAAGCC CCTC	CATAAAATGCCATTGA TCCCT	60.3	499	INTERGENIC	--	--	--
Ca6_P1_28444744	Ca6	28444744	GATAATAATAATAATAATAA/GATAATA ATAATAATAATAATAATAATAA	TCCCAACAGCCTAAC AACC	CAAACGCAATCTGAAC AAAA	60.0	509	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_28481355	Ca6	28481355	ATGCCACATCATCATATTTTGGCACA TGCCACATCATCATATTTTGGCACA CATCATATTTTGGCAC	CCAAGTTGAAAAGAAG AAATGG	ACACATCAGCTTTTG GCTG	57.9	323	INTERGENIC	--	--	--
Ca6_P1_28503466	Ca6	28503466	ATAAT/ATAATTAAT	TTTGTGCCTCCATTTC CTTC	TTTTTAAC TAATTGATC ACCGCT	60.1	497	DRR	Ca_25961	--	--
Ca6_P1_28513162	Ca6	28513162	TA/TCTTCAACTTTCCTACCA	CCCACACCTTCTTACC AGGA	GGGACCCAAATTGTCG ATAG	60.0	492	INTERGENIC	--	--	--
Ca6_P1_28513941	Ca6	28513941	ANNNNNNNNN/ANNNNN	TGAAGAAAATTTAAAG GGACGAA	GTGTTGCATCTCATTG GTGG	59.2	569	INTERGENIC	--	--	--
Ca6_P1_28514257	Ca6	28514257	GTTTTTTTTT/GTTTTTTTTT	CCACATGTTTTCGGTT TTCA	GTGTTGCATCTCATTG GTGG	59.4	336	INTERGENIC	--	--	--
Ca6_P1_28515482	Ca6	28515482	GAAAAAA/GAAAAAA	GGCATAGGTGAGATGA CCGT	GCTCCTTATCAAACCA TTTGC	60.0	507	INTERGENIC	--	--	--
Ca6_P1_28520849	Ca6	28520849	A/AC	TTAGAAACAGGGACCC CTCC	TTGTCTGTGAACCGAA GCTG	60.3	577	INTERGENIC	--	--	--
Ca6_P1_28520924	Ca6	28520924	CAA/CAATTAA	TTAGAAACAGGGACCC CTCC	TTGTCTGTGAACCGAA GCTG	60.3	577	INTERGENIC	--	--	--
Ca6_P1_28520971	Ca6	28520971	TCTTGCCTTGCTTG/TCTTGCCTTG	TTAGAAACAGGGACCC CTCC	TTGTCTGTGAACCGAA GCTG	60.3	577	INTERGENIC	--	--	--
Ca6_P1_28521027	Ca6	28521027	A/ACATAG	TCTCATTCTTGCTTG CCTT	TTGTCTGTGAACCGAA GCTG	60.0	172	INTERGENIC	--	--	--
Ca6_P1_28521076	Ca6	28521076	AACAT/A	TCTCATTCTTGCTTG CCTT	TTGTCTGTGAACCGAA GCTG	60.0	172	INTERGENIC	--	--	--
Ca6_P1_28537234	Ca6	28537234	ATT/AT	ATTCTCAAAGCCCTC ACCT	TTCCACTTCTTTTCC ACCA	60.1	436	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_2854436	Ca6	2854436	CAAGAAAGAAAGAAAGAAAGAA AGAAAGAA/CAAGAAAGAAAGAA AAGAAAGAAAGAAAGAAAGAA	CATGCCATAATTTTG GGAC	TCGTGAAGAGGAGAT GCGAT	60.0	692	INTRON	Ca_10421	C	--
Ca6_P1_28546422	Ca6	28546422	AT/A	AATATCCCGTTTGACC ACGA	GCAAACCCCTCAGTA CCAA	60.2	331	DRR	Ca_17494	A	--
Ca6_P1_28608731	Ca6	28608731	CTTTTTTTTT/CTTTTTTTTTTT	TGGTGCACATAACT AAGG	AGCCGACATTGCAAAA GACT	59.7	500	INTERGENIC	--	--	--
Ca6_P1_28610431	Ca6	28610431	CT/C	AGGATTTGGTTCAAG GTCC	TGTCCTGACTCTTGGC AGTG	60.2	643	DRR	Ca_17488	K	--
Ca6_P1_28683623	Ca6	28683623	AATATATATATATATATATA/AATAT ATATATATATATATA	AATGGGCCCAATTCTA CCTC	GTGGAATGCTTTAGGG GTCA	60.2	899	DRR	Ca_17480	Q	Nin-like
Ca6_P1_2871677	Ca6	2871677	GATATATATATATATAT/GATATATA TATATATATATATAT	GGGTGTTATGGCCACA GTTC	TCATGTAGCTCTCTCA TCTTCAGG	60.2	648	INTERGENIC	--	--	--
Ca6_P1_2879110	Ca6	2879110	CCTCTCTCTCTCTCTCTCTCTCTCT CTCTCTCTCTCTCTCT/CCTCTCTCTC TCTCTCTCTCTCTCTCTCTCTCTCTCT CTCT	CAAGAAATGAAGGCC AAAA	TTCAAGGAGAGAGGCTT ACGA	60.0	129	DRR	Ca_10425	T	--
Ca6_P1_28832556	Ca6	28832556	AAAAATAATAATAATAATAATAATA ATAATA/AAAAATAATAATAATAATA TAAATA	GCTTTCTTGATCAAGT GGCAA	TGCAATTGGTTTCT GTCTG	59.4	648	INTERGENIC	--	--	--
Ca6_P1_28844267	Ca6	28844267	CCAACA/CCAACAACA	ATGGCGTATCCATTCC AAAA	TGACACGCAAGGTAG GAGC	60.2	422	INTERGENIC	--	--	--
Ca6_P1_28949517	Ca6	28949517	GATATATATATATATATATATAT/GA TATATATATATATATATATATATAT	GAGACAAATGTTTTCC ACTGGT	CCCATGCAATAGCACG AGTA	58.1	778	INTRON	Ca_17471	G	--
Ca6_P1_28957439	Ca6	28957439	ATTTTTTT/ATTTTTTT	TGCTTTTTAGGAGAAA AAGTTTGA	GCTCTCTCATTTGTTA CCTGCAT	58.7	952	INTERGENIC	--	--	--
Ca6_P1_28977511	Ca6	28977511	ATTTTTTTTTTT/ATTTTTTTTTTT	TCCAAATGTTTAAGAC GATCC	TGATTCCACCTTGA TTTT	58.1	598	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_28979834	Ca6	28979834	AATATATATATATATATATAT/AA TATATATATATATATATATATAT	AATCTCTTATGTGGG CACG	CATTTGCGCACATTGA ATAA	60.0	288	INTERGENIC	--	--	--
Ca6_P1_2899868	Ca6	2899868	TCACACACACACACACACACAT CACACACACACACACACACACA CA	AAACTTCCCAATAG GCCC	TGTTTTCTTTAATAA GTGCGTG	59.3	557	INTERGENIC	--	--	--
Ca6_P1_29148934	Ca6	29148934	GTTATTATTATTATTATTATTATT/ GTTATTATTATTATTATTATTATTA TT	TTGTGTCGTGTGCTG TTCA	TCGTGTTTCAAAATTC AAGGA	59.9	871	INTERGENIC	--	--	--
Ca6_P1_29149220	Ca6	29149220	AATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTA TTATTATTATT	TGACAATTTATGGTT TAAATCTCA	TTGCTCCTACGTATCT CCCG	58.3	557	INTERGENIC	--	--	--
Ca6_P1_29174756	Ca6	29174756	AATATATATATATA/AATATATATAT ATA	ACCAGCTCCTTTTGT GACC	CAGCCCCAATACTCC TACA	59.2	595	INTERGENIC	--	--	--
Ca6_P1_29209211	Ca6	29209211	CATATATATATATATATATATATA TATATA/CATATATATATATATATAT ATATA	CTTCTGGTCAAGCGTT GTCA	CGGGATGTTTGAGGG TTAAA	60.0	611	INTERGENIC	--	--	--
Ca6_P1_29231459	Ca6	29231459	AAAGTCTCAAGTCTCAAGTCTCAA/AA AGTCTCAAGTCTCAAGTCTCAAGTCT CAA	ACTCCACACACCTCA AAGG	TTTCAAGTCTAGTCGA AGTTCATCA	60.0	834	INTERGENIC	--	--	--
Ca6_P1_29298739	Ca6	29298739	ATA/ATAATAGTA	TAGGGTCAGTTTCGAG GACG	ATGTTGTTTTCAACC GAGC	60.2	384	INTERGENIC	--	--	--
Ca6_P1_29427526	Ca6	29427526	G/GTCAA	CTGCTCATATGCGCCA ATC	GGCACATGTTTTGGC TTTT	60.3	182	INTERGENIC	--	--	--
Ca6_P1_29436060	Ca6	29436060	GTATTATTATTATTATTAT/GTATT ATTATTATTATTAT	CGATGCTTGATCGCTA ATTG	TCCGTCTCACCATGTC CATA	59.4	401	INTERGENIC	--	--	--
Ca6_P1_29478598	Ca6	29478598	CTATATATATATATATATAT/CTATA TATATATATATATATATAT	TGAAGAGGAACTGAA GCGG	ATGTGAATCCCACCAG GAAA	60.5	837	INTERGENIC	--	--	--
Ca6_P1_29499825	Ca6	29499825	TTTTATTATTATT/TTTTATTATT	TTTCATTCCATCGCAT TCA	CGGGGAATCAGCTTTA TTGA	60.0	110	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_2960468	Ca6	2960468	CATATATATATATATAT/CATATATA TATATATATATAT	AAGAAAGGGGTATTGG TGCC	CACAAATTTGACAATA AACTTTGACA	60.2	698	INTRON	Ca_10438	T	bHLH
Ca6_P1_29636797	Ca6	29636797	CAAA/CAAAA	CCCTCTTCTCATGTAT GCACC	TGGTGCACCTCAACTT ATGC	59.6	493	INTERGENIC	--	--	--
Ca6_P1_29640665	Ca6	29640665	AATATATATATATATATATATATAT/ AATATATATATATATATATATATAT	CACACATCGCGAGTAA TGATG	AACTTCTCGAGGACGC AAAA	60.2	541	INTERGENIC	--	--	--
Ca6_P1_29662748	Ca6	29662748	AATAT/AAT	CTGAGCCCCTGACTTA GTGC	GGAGGGTTTTGGTTTG GAAT	60.0	626	INTERGENIC	--	--	--
Ca6_P1_29742807	Ca6	29742807	CTTTNNNNNNNNNTTT/CTTT	GCAATATCTCCGTCGT CACA	CAAGAGACATGAGACG CTGC	59.7	194	INTERGENIC	--	--	--
Ca6_P1_29833274	Ca6	29833274	A/AG	GCCGAATAAAACCTC ACAA	CAAAGCAACCACAAAA AGCA	59.9	561	INTERGENIC	--	--	--
Ca6_P1_30053610	Ca6	30053610	AATATATATATATATATAT/AATATA TATATATATATATATATATATATAT	TGTTTTGGCAACAAC TTTATG	AATTTGGGATACGAC GACA	57.8	408	INTERGENIC	--	--	--
Ca6_P1_30102387	Ca6	30102387	ATTTTTTTTTTT/ATTTTTTTTTTT	TTGGGAGATGCATGTA TTGG	TTAGACGTAACCCACC TTGGA	59.4	596	INTERGENIC	--	--	--
Ca6_P1_3017002	Ca6	3017002	GTTTTTT/GTTTTTTT	GGCCAATAAACTCCG TGAA	TGGATGCCAATGATTG AAGA	59.9	737	INTERGENIC	--	--	--
Ca6_P1_30337520	Ca6	30337520	AACACACACACACACACACACACACA CACACACACACACA/AACACACACA CACACACACACACACACACACACA CACA	CAAGCTCACTGTCAGG GTCA	TTTCTCCACTCACACC CACA	60.0	445	INTERGENIC	--	--	--
Ca6_P1_30383201	Ca6	30383201	ATTTTTTTTTT/ATTTTTTTTT	AGGGGAGCTGTAGTA CCTAA	TGTGTGTGAAGAAGGA AGCG	58.0	317	INTERGENIC	--	--	--
Ca6_P1_30432238	Ca6	30432238	TATCATCATCATCAT/TATCATCATCAT CATCAT	TGGTTTGACAGATGGG ATGA	TTTAACTCTTGGGGA TGCG	59.9	364	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected 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_P1_30499830	Ca6	30499830	G/GA	AACACCCTTATCGAAC ACGC	CCGTTAACATCAAAAT GGGG	60.0	460	INTERGENIC	--	--	--
Ca6_P1_30578950	Ca6	30578950	CTATATATATATAT/CTATATATATA TATATATAT	TGCACATTCTCCTCAC TTGC	CCTCTCGGTACTCTGT TCGC	60.0	593	INTRON	Ca_16460	--	--
Ca6_P1_30588229	Ca6	30588229	AATCGC/A	GGACGTCTACAACATT GGGG	CCACATGAGTGTGTTG AGGG	60.2	948	DRR	Ca_16461	--	SAP
Ca6_P1_30612658	Ca6	30612658	GGAAGGAGGTAGTGAA/GGAA	GAGGATGGTGAGGAT GGAGA	ACAAAGCCTCTTGTCTG AGGA	60.0	547	INTERGENIC	--	--	--
Ca6_P1_30646917	Ca6	30646917	CTTTTT/CTTTTT	TGTTTGCATCAAGATG GGTT	GCGACTTCCCACGTGA TATT	59.0	592	INTERGENIC	--	--	--
Ca6_P1_30698837	Ca6	30698837	GTTATTTATTTATTTATTTATTTA TTTATT/GTTATTTATTTATTTATT TATTTATTTATTTATT	CGTTTTCGGTTTCAGG GTAA	CCCATCTATTACCC ACGC	60.0	949	INTERGENIC	--	--	--
Ca6_P1_30749251	Ca6	30749251	TATTAATTAATTAATTAATTAATTT AATTAATTAATT/TATTAATTAATTAATT AATTAATTAATTAATTAATT	CACCAAAGCCACCTAT CACA	CGAAGGAACGGTGAA CGTAT	59.6	761	INTERGENIC	--	--	--
Ca6_P1_30767529	Ca6	30767529	CATATATATATATATATATATATATA /CATATATATATATATATATATATA	GCACCTGTTCTTAGCA AGCC	AGGCGGGAAAAATTTA CGAC	60.0	465	INTRON	Ca_16471	O	FAR1
Ca6_P1_30816682	Ca6	30816682	GTTTTTTTTT/GTTTTTTTTT	ATAAACCTTCGGAGGG GAAA	ACCCCTCTCAAAGCAC AAGA	59.8	518	INTERGENIC	--	--	--
Ca6_P1_30899600	Ca6	30899600	TNNNNNNNNN/TNNNNN	ATGGAGTCGCCACCAA AAT	GCACCGGAAGATACG TAGGA	60.3	368	INTERGENIC	--	--	--
Ca6_P1_30901162	Ca6	30901162	ACT/ACTCT	CACTCCAAAAGGCACT GGTT	CACAGATGATGGGCA GAAGA	60.1	341	INTERGENIC	--	--	--
Ca6_P1_30910602	Ca6	30910602	AATATATATATATATATATATATAT/ AATATATATATATATATATATAT	TTGTGACGTTGTTTCA TTCAG	CGAAGGCAATAATCGT GTGA	59.7	415	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_3093515	Ca6	3093515	ATT/AT	GCGGCAAGCTTTCTT TATG	TGGAACCCGTTTCATTA CCTC	60.0	447	INTERGENIC	--	--	--
Ca6_P1_30971630	Ca6	30971630	TA/TAA	CACCTTCGAGTTTCCG CTTC	GAGATCAAAATCCAG CCAA	60.0	437	INTERGENIC	--	--	--
Ca6_P1_31065694	Ca6	31065694	AATATATATATATATATATATATATAT T/AATATATATATATATATATATATAT	CGTGTATTATTTCCAG CTTTCA	GGTAAGGGTAAAGGC GAAGG	59.3	790	INTERGENIC	--	--	--
Ca6_P1_31096995	Ca6	31096995	AAATAA/AAA	GACGTGTTTTTAAGGA TTGGAAA	CTTTGCTTGGACCAAA CTGG	59.4	420	INTERGENIC	--	--	--
Ca6_P1_31097072	Ca6	31097072	TA/T	AAGAGTCAATGACCAC CTTCAA	CTTTGCTTGGACCAAA CTGG	60.0	318	INTERGENIC	--	--	--
Ca6_P1_31097180	Ca6	31097180	ATTT/ATTTTT	TCCCAATTGAGTGACA TCTTTC	CTTATAGCCGAATGGC CAAA	59.0	587	INTERGENIC	--	--	--
Ca6_P1_31097256	Ca6	31097256	TAT/TATTTTGAT	CAACAATTTCCCAACAA AAACA	CTTATAGCCGAATGGC CAAA	59.8	492	INTERGENIC	--	--	--
Ca6_P1_31099504	Ca6	31099504	TA/T	TGGGATGATGTTGGGA AAGT	TTGCAAGAAAACCTC GCTT	60.2	129	INTERGENIC	--	--	--
Ca6_P1_31132134	Ca6	31132134	TAAA/TA	CACTCCAGGTTCCATT CCTC	GCTGGTGGCTAATTAT TCCATT	59.5	708	INTERGENIC	--	--	--
Ca6_P1_31270397	Ca6	31270397	TTAATAATAATAATAATAATAATAA TAATAATAATAATAATAATAATAAT AATAA/TTAATAATAATAATAATAA TAATAATAATAATAATAATAATAAT AATAATAATAATAATAATAATAA	CTCAACCCATTTTCCC ACTC	TGGCTCCTTCAACAA AAGG	59.4	684	INTERGENIC	--	--	--
Ca6_P1_31288956	Ca6	31288956	TTATATATATATATATATATATATATA TATATATATATATATA	TGATTCTTGAAAGTTA GCAAAACACA	ATCGACAAACCAACAT GCAA	60.2	460	INTERGENIC	--	--	--
Ca6_P1_31294617	Ca6	31294617	GCC/GC	CACGAAGGCAAGCCAT TTAT	TGGTTGATCATTTGTG GTGG	60.1	220	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected 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_P1_31295569	Ca6	31295569	CATATATATATATATA/CATATATATAT ATATATA	GCAATGCTCCCTAA TTGA	TCGTCGTCAACCTTG TTAG	60.0	274	INTERGENIC	--	--	--
Ca6_P1_31301748	Ca6	31301748	TTTTTTTTAATTTTT/TTTTTTTAA TTTTTAAATTTTTT	AGTTGTGGGGAGGC TTAGT	AGGCAGGGGCAACTA AAGAT	60.0	410	INTERGENIC	--	--	--
Ca6_P1_31333691	Ca6	31333691	CTATATATATATATA/CTATATATAT A	AATGAGCCTTCTTGGC TTCA	TTTCGAGGGCTTTGAC CTTA	60.0	593	INTERGENIC	--	--	--
Ca6_P1_31335349	Ca6	31335349	TTATATATATATATATATATATAT ATATATAT/TTATATATATATATAT ATATATATAT	TCGGTTCATAAAACGA GTTAAAA	GAAGCTTCTATGGTCC CGTG	58.0	392	INTERGENIC	--	--	--
Ca6_P1_31406963	Ca6	31406963	TTTATTATTATTATTATTATTATTA TT/TTTATTATTATTATTATTATT TATTATTATT	TTCTCGCCTATTTTGC TCC	CGTCCTCATTTTGCTC CACT	59.4	635	INTERGENIC	--	--	--
Ca6_P1_31413696	Ca6	31413696	CAAAAA/CAAAAA	GAACGGTGATGACAGC TTGA	GGCCTCCTTGACCTC CTCT	59.8	491	INTERGENIC	--	--	--
Ca6_P1_31467440	Ca6	31467440	GATATATATATATATATATATAT TATATATA/GATATATATATATAT ATATATATATA	GGATGGTGGCTAGAC GTGAT	CACTGCTGCAATGTT GTGA	60.0	654	INTERGENIC	--	--	--
Ca6_P1_3151491	Ca6	3151491	TAAATACAAATAA/TAAATACAAATA TAAATACAAATAA	ACCTATCAGAGCGGT TCCT	TCCAAGCCATTTAATT TCTGC	60.1	533	INTERGENIC	--	--	--
Ca6_P1_31607874	Ca6	31607874	TTATATATATATATATAT/TTATAT ATATATATATATATAT	TAAAGATTGGGAGAG GGGT	CTCCAGTTTGCATCC GATT	59.9	322	INTERGENIC	--	--	--
Ca6_P1_31649694	Ca6	31649694	AATCAC/AATCACATCAC	CAATCACCAATGACC ACCA	AACCTCGCCACTGTAA CACC	60.2	500	DRR	Ca_15190	--	bHLH
Ca6_P1_31734338	Ca6	31734338	ATTTTTTTTT/ATTTTTTTTT	GCGGACAAATTAGGT GTCAA	TGAATAGGCTTGCCTG TCAT	60.0	549	INTERGENIC	--	--	--
Ca6_P1_3176026	Ca6	3176026	AGG/AGGG	GCAATGGAAGGTGAAA ATGG	GCATAGGAGCGTGGA AATTG	60.3	522	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_3176136	Ca6	3176136	G/GAAAAATGTCTTGGC	TGGCAATGGAAGTGAAAT	TTTAACCCCTTTCAACCGCA	60.3	769	INTERGENIC	--	--	--
Ca6_P1_31769480	Ca6	31769480	A/AT	CGGGAGATACGTAGGAGCAA	TCGATTATGCGTAGGG AAGG	60.2	250	DRR	Ca_15194	--	--
Ca6_P1_3184079	Ca6	3184079	AATATATATATATATATATATATATA /AATATATATATATATATATATATATA	TTCAATCCATTAAACGCAACAA	TCGAAGTTGCTTCAATCCAA	59.1	685	INTERGENIC	--	--	--
Ca6_P1_31869279	Ca6	31869279	AATTATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTAT/AATTA TTATTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTATTAT	TGAGGCCAAGACAACAA CAAA	GACGAGCGAAACCTAAGCAC	60.3	786	INTERGENIC	--	--	--
Ca6_P1_31939686	Ca6	31939686	A/ACT	CTGCGGTTCTTGCTGTGTA	AGGCAGCTTGATTCTTGGA	60.0	382	INTERGENIC	--	--	--
Ca6_P1_31950641	Ca6	31950641	ATTTTTTT/ATTTTTTT	CCACTTCAGCGTGCAATCTA	TTCTTGGGTAGAAAATGCGG	60.0	612	INTERGENIC	--	--	--
Ca6_P1_31960785	Ca6	31960785	AAT/AATAT	GCCGAATAAAACCTCAACAA	TTTGACGCCACAAAGTCTG	59.9	817	INTERGENIC	--	--	--
Ca6_P1_32095653	Ca6	32095653	GTATATATATATATATATATATATAT ATAT/GTATATATATATATATATATA TATATATATAT	CCAGTCAACTCAACGTGTGG	TGAGACATATCGTCGGAAAGAG	60.2	395	INTERGENIC	--	--	--
Ca6_P1_32150554	Ca6	32150554	ATTTTCCACTTTTCCACTTTTCCA/ATT TTCCACTTTTCCA	ATTTGAAATCACATGGGGA	CTGCATGTTTCCATGTGTG	60.0	292	DRR	Ca_15215	MW	--
Ca6_P1_32206043	Ca6	32206043	CTTTTTTTTT/CTTTTTTTTT	AAAGTTGCTTCGGACATTG	CGATGCCTAATCAACA AAACC	60.1	585	INTERGENIC	--	--	--
Ca6_P1_32318384	Ca6	32318384	A/AAAGAGT	TGGGAACAACCTTGAGGAGG	TCGGTGTCATATCCGTGTGT	60.1	399	INTRON	Ca_15223	R	--
Ca6_P1_3232392	Ca6	3232392	ATTTATTTTATTT/ATTTATTTTATTT TTATTT	ACGTGGCTCCTTATACACAG	TTTTTGAGCCTTTTCA CCAA	60.0	563	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_32364514	Ca6	32364514	AATATATATATATATATATATA/AAT ATATATATATATATATATATATA	TGTCACCTAAAAGGAA TTGCG	CCAATCGTCAGGTTTA TGATGA	60.1	754	INTERGENIC	--	--	--
Ca6_P1_32372827	Ca6	32372827	CAA/CA	GAATACGCGGCTGATT CATT	CGCCCCGTTTTAACTC ATTA	60.1	613	INTERGENIC	--	--	--
Ca6_P1_32372986	Ca6	32372986	ATTTTT/ATTT	GAATACGCGGCTGATT CATT	CGCCCCGTTTTAACTC ATTA	60.1	613	INTERGENIC	--	--	--
Ca6_P1_32373478	Ca6	32373478	GTAATAATAATAATAATAATAATA ATAATAATAATAATAATA/GTAATA ATAATAATAATAATAATAATAATA TAATAATAATA	TAATGAGTTAAACGG GGCG	TTGGTCCAACACGAAG AGA	60.0	382	INTERGENIC	--	--	--
Ca6_P1_32391786	Ca6	32391786	AATATATATATATATA/AATATATATAT ATATATA	CGCTATGCCCCATTAG ATGT	TTTGATTGACTCATTG CGTG	59.9	294	INTERGENIC	--	--	--
Ca6_P1_32406729	Ca6	32406729	TCAAG/T	GCCCCCACTATTCTC GATT	AAAAGTGAAACGCTTG GCAT	60.3	593	INTERGENIC	--	--	--
Ca6_P1_32519592	Ca6	32519592	AG/A	CGCATGCCACTCACTC TAAA	CGCTGCCACTTTCTAC ATCA	60.0	611	INTERGENIC	--	--	--
Ca6_P1_32521477	Ca6	32521477	GACATGATAC/GAC	TTGCCAACGTGTCAAT CACT	TTTTCCCTACTATTTTG CAGCC	60.2	259	INTERGENIC	--	--	--
Ca6_P1_32521795	Ca6	32521795	ATTTTGTTTGTTT/ATTTT	TTGCCAACGTGTCAAT CACT	TGCTAGGACCAACGAT CATGT	60.2	902	INTERGENIC	--	--	--
Ca6_P1_32522263	Ca6	32522263	CA/CAA	TTGTTCATTTTGGTCG TTCA	CCTTGGCGGATATAGG GAAT	59.0	347	INTERGENIC	--	--	--
Ca6_P1_32540181	Ca6	32540181	TATATAT/TATATACATATAT	GTTTATCAATGGACGC GGAC	TTCCCTAAAAACGGT TGTG	60.3	341	INTERGENIC	--	--	--
Ca6_P1_32540257	Ca6	32540257	TACATAA/TACATAAGAAACATAA	GTTTATCAATGGACGC GGAC	TTCCCTAAAAACGGT TGTG	60.3	341	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_32540480	Ca6	32540480	GTTTTTTT/GTTTTTTT	CACAACCGTTTTAGG GGAA	GAGGATTGCTATGGAC AACCA	59.8	214	INTERGENIC	--	--	--
Ca6_P1_3255826	Ca6	3255826	AATATATATATATAT/AATATATATA TATATATAT	TGGCTTGTTTGATTTA GGACA	ATTCTGAATGATCAGTT GCCC	58.3	547	INTERGENIC	--	--	--
Ca6_P1_32612733	Ca6	32612733	CTTTTTTTTTTT/CTTTTTTTTTTT	GATCATCGAGTTCCC GTGT	ACCATGCAAAGACATC CACA	59.9	568	INTERGENIC	--	--	--
Ca6_P1_32617100	Ca6	32617100	AAA/AAATAA	GAACGGTCCATGCAAA AGTT	CCCCGATCCTTATAC GACT	60.0	554	INTERGENIC	--	--	--
Ca6_P1_32629991	Ca6	32629991	TAATGCA/TA	CGCTCTCAATCGTGCA ATAA	TAGTGATTGGAAGGA CGGC	60.0	719	INTERGENIC	--	--	--
Ca6_P1_32630102	Ca6	32630102	TAAAAAAA/TAAA	TTTGAGGGAGGGAATT AGGG	TAGTGATTGGAAGGA CGGC	60.3	583	INTERGENIC	--	--	--
Ca6_P1_32630124	Ca6	32630124	TAAA/TAAA	TTTGAGGGAGGGAATT AGGG	TAGTGATTGGAAGGA CGGC	60.3	583	INTERGENIC	--	--	--
Ca6_P1_32630376	Ca6	32630376	AGGGG/AGGGGGG	GCCGTCCTTTCCAATC ACTA	ATCGGGAAGAGGTTA GGGAA	60.1	123	INTERGENIC	--	--	--
Ca6_P1_32646614	Ca6	32646614	ATTTTTTTTT/ATTTTTTTTT	CATCACGTGCTTGATG ATGA	TGAATTCAGAACAAAA CGATCAA	59.2	503	INTERGENIC	--	--	--
Ca6_P1_32759448	Ca6	32759448	AATATATATATATATATATAT/AATA TATATATATATATATATAT	AATTTTGAAGTGGCCG TGAC	TCGACCTTCATTTTAT ACATTTTT	60.0	701	INTERGENIC	--	--	--
Ca6_P1_32825934	Ca6	32825934	AC/A	AAACACGTTGGCATT GTGA	ATTCTGACTAGTGGTGG TGCC	60.0	762	INTERGENIC	--	--	--
Ca6_P1_32828825	Ca6	32828825	TTATATATATATATATAT/TTATATAT ATATATATAT	AGATGAATTCTGGGTC GTGG	GCTTCACCATTTAGAG ACCCTG	59.9	759	INTERGENIC	--	--	--

[illegible]

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_33229272	Ca6	33229272	GAAAA/GAAA	TGTTGACGGTGTGTTT TTAAGG	AAATTTTAGACCGCGA CACG	59.9	477	INTERGENIC	--	--	--
Ca6_P1_33229296	Ca6	33229296	TG/TGG	CGGTGTGTTTTTAAGG ATTGG	AAATTTTAGACCGCGA CACG	59.4	471	INTERGENIC	--	--	--
Ca6_P1_33229369	Ca6	33229369	ATTTTTTTTTTTTT/AATGTTTTTTTTT TTTTT	CGGTGTGTTTTTAAGG ATTGG	AAATTTTAGACCGCGA CACG	59.4	471	INTERGENIC	--	--	--
Ca6_P1_33229523	Ca6	33229523	AAAAACGAAAA/AAAAA	CGGTGTGTTTTTAAGG ATTGG	GCGGATATCGTAGGG TGCTA	59.4	644	INTERGENIC	--	--	--
Ca6_P1_33229803	Ca6	33229803	TAAAAAAA/TAAAAA	AAGCAAGCCAAAAAG AAAA	GCGGATATCGTAGGG TGCTA	59.9	382	INTERGENIC	--	--	--
Ca6_P1_33231576	Ca6	33231576	AT/ATT	TGGTGATTGGGTGCT GATG	GACCCATCGATTTGAA GCAT	60.4	975	INTERGENIC	--	--	--
Ca6_P1_33233620	Ca6	33233620	G/GAA	CCGCCCACTAAAAAGT TGAA	AATCGCCATAACTTGA AATGC	60.1	935	INTERGENIC	--	--	--
Ca6_P1_33234353	Ca6	33234353	TTAATGTTATTGTTGAA/TTAATGTTAT TGTTGAATAATGTTATTGTTGAA	TGCATTTCAAGTTATG GCGA	GGGCGTTAAGAATGG GAAAT	60.2	675	INTERGENIC	--	--	--
Ca6_P1_33240261	Ca6	33240261	A/AAAGAG	GTTTGGTATTGGGCTC CCTT	CACAATTCCTCCCTCT CCAA	60.2	314	INTERGENIC	--	--	--
Ca6_P1_33240380	Ca6	33240380	A/AG	GTTTGGTATTGGGCTC CCTT	CGAAACTCACCCCTTG TTGT	60.2	750	INTERGENIC	--	--	--
Ca6_P1_33240742	Ca6	33240742	AA/AATATA	TTGGAGAGGGAGGAAT TGTG	CGAAACTCACCCCTTG TTGT	60.0	456	INTERGENIC	--	--	--
Ca6_P1_33242521	Ca6	33242521	TTATATATATATATAT/TTATATATAT ATATATATAT	AAATGCTTGTGCGATA TCTGTTT	TCGTATTGTTGGATG TTGTCC	59.5	212	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_33256778	Ca6	33256778	ATATTATTATTATTATTATTATT TATTATTATTATTATTATTA/ATATT ATTATTATTATTATTATTATTATTA TTATTATTA	TGGCTATTATGGCAC GACA	TAATGTGGAAACCCCT TCAA	60.1	596	INTERGENIC	--	--	--
Ca6_P1_33285610	Ca6	33285610	CATA/CATATA	CAAAATGTCAATTGTT GCACG	ATTGTTTCCTCGTGCC TTTG	60.0	637	INTERGENIC	--	--	--
Ca6_P1_33299866	Ca6	33299866	ATTTTT/ATTTT	GTCGTCATGATTCGCT TCAA	GTTTGATTTCCTTGG GGTT	59.8	488	INTERGENIC	--	--	--
Ca6_P1_3330798	Ca6	3330798	AATTATTATTATTATTATTATTATT ATTATTATT/AATTATTATTATTATTATT ATTATTATTATTATTATTATT	TCAATTGATTTTCGGTA TCCTTC	GACCTCCCAAAGGCAT TTTT	59.3	406	INTERGENIC	--	--	--
Ca6_P1_33308806	Ca6	33308806	ATATCAGTATCAGTAT/ATATCAGTAT CAGTATCAGTAT	TTTTGGAGCTTCAGCA TTTG	CCTCTTTCTTCGCAT TTCG	59.0	518	INTERGENIC	--	--	--
Ca6_P1_33334768	Ca6	33334768	AATATATATATATATATATATATATA /AATATATATATATATATATATATA	TTTTGTGTGCAGAGGC TATGA	GGGTTCAAGCTAATGG CAGA	59.5	534	INTERGENIC	--	--	--
Ca6_P1_33337104	Ca6	33337104	ATTT/ATT	CCAATTTTTGATTCCT CCA	TTAGGCTCCTGCTTCA TGCT	59.7	527	INTERGENIC	--	--	--
Ca6_P1_33340808	Ca6	33340808	GTTTTTTT/GTTTTTTT	TTCAATGTCATACACA GGCCA	ATGATAACGCATGAAT GGCA	60.0	841	INTERGENIC	--	--	--
Ca6_P1_3346050	Ca6	3346050	AATATATATATATATATATATATATA TATAT/AATATATATATATATATATAT ATATAT	ATAAATCACGGCCCAA CAAC	CCATTGCACATTGGT TTTC	59.7	611	INTERGENIC	--	--	--
Ca6_P1_33488777	Ca6	33488777	GATATATATATATATATAT/GATATA TATATATATATATAT	TTACCCAACCCCAATT TCA	AAGTTTTGGGAAAGGG GAAA	60.0	641	INTERGENIC	--	--	--
Ca6_P1_3351397	Ca6	3351397	GAT/GATAAAATTAT	CGAAAATGGAAAACAC CACC	AAGTTTCGCGGTGAAT TGTTG	60.2	278	INTERGENIC	--	--	--
Ca6_P1_3351662	Ca6	3351662	GATATAT/GATATATATAT	CGAAAATGGAAAACAC CACC	TCGAGTTGCGTAACTG ACATAG	60.2	687	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_3351712	Ca6	3351712	ATTTTTTT/ATTTTT	GTTGATTAGGCTTC ACGG	TCGAGTTGCGTAACTG ACATAG	59.6	580	INTERGENIC	--	--	--
Ca6_P1_3351745	Ca6	3351745	CATATTATATATA/CATA	GTTGATTAGGCTTC ACGG	TCGAGTTGCGTAACTG ACATAG	59.6	580	INTERGENIC	--	--	--
Ca6_P1_3352912	Ca6	3352912	AATTA/AA	AAAGTGGTGGAATT AACG	TTATCCAATTCGTTG CACA	59.9	247	INTERGENIC	--	--	--
Ca6_P1_3353375	Ca6	3353375	TAA/TAAA	CAAAGAGCGTGATGTC AGATG	CCAAAATAGCCGTTTT GACA	59.5	598	INTERGENIC	--	--	--
Ca6_P1_3355103	Ca6	3355103	GCTATTGATCAATCTATTGAT/GCTAT TGAT	TGAATAGATGTGCGCG AGAC	TCCACGGGAGTGAGA GAGAT	60.0	401	INTERGENIC	--	--	--
Ca6_P1_3355875	Ca6	3355875	CTTT/CTTTT	AATTGGCCCTATTGG CTTT	AGAAACGGAATGAGTC ACGG	59.8	709	INTERGENIC	--	--	--
Ca6_P1_3355917	Ca6	3355917	TAAA/TAAAAA	AATTGGCCCTATTGG CTTT	AGAAACGGAATGAGTC ACGG	59.8	709	INTERGENIC	--	--	--
Ca6_P1_3374594	Ca6	3374594	TTAA/TTAAATAA	GAAACTTCAGCAAAA CCGC	TGTGATATCCCAATCC GCTT	59.9	806	INTERGENIC	--	--	--
Ca6_P1_3375286	Ca6	3375286	AATATATATATATATATAT/AATATA TATATATATATATATAT	GATCAGTTGACCCGCG TAGT	TTGATGCCACCTATTT CTCG	60.1	789	INTERGENIC	--	--	--
Ca6_P1_3377584	Ca6	3377584	CTTTTT/CTT	ATGCGGTGATGGTGAT ATTG	TATGGCAATATGGAT GGGT	59.2	745	INTERGENIC	--	--	--
Ca6_P1_33780561	Ca6	33780561	ATTTT/ATTTTT	TGGGAGCTTCAGGAAT CACT	TGCATGTTTGATAATG CGGT	59.8	250	DRR	Ca_22060	G	C3H
Ca6_P1_33786171	Ca6	33786171	CCTA/CCTACTA	TCAACCGGATGAAAA GAAA	AAATGTTTGC GGTTGA ACTC	58.9	228	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDCC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected 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_P1_3379283	Ca6	3379283	AC/ACC	GCAACGGTTTGATGTT GATG	CATT TTCACCTTCATT GCC	60.0	652	INTERGENIC	--	--	--
Ca6_P1_33819433	Ca6	33819433	GTATATATATATATATATATATATAT ATATATATATATATAT/GTATATATA TATATATATATATATATATATATATA TATATATATATATATATATATAT	GACCCCACAAGTCTAT CCGA	AACACATCCAAAATGA TGGGA	59.9	398	INTERGENIC	--	--	--
Ca6_P1_3382595	Ca6	3382595	G/GT	ATCACCGACCACTCAC CTC	TCTCCTCTCAATTCTTT TTCACC	60.0	441	INTERGENIC	--	--	--
Ca6_P1_3382708	Ca6	3382708	AA/AAGGGTTGGA	ATCACCGACCACTCAC CTC	TCAATTTTTCTTCGTTG ACGG	60.0	787	INTERGENIC	--	--	--
Ca6_P1_3382789	Ca6	3382789	CTTTTT/CTTT	ATCACCGACCACTCAC CTC	GTTCAATCAGTGCAGC GTGT	60.0	810	INTERGENIC	--	--	--
Ca6_P1_3382946	Ca6	3382946	CAAAAA/CAAAA	TAACCACCAACATTCTGCCA	TGTTCCGTCCCCTCA TACA	60.0	927	INTERGENIC	--	--	--
Ca6_P1_33864650	Ca6	33864650	TTATATATATATATATATATAT/TTAT ATATATATATATATATAT	TGGTTCTGTTCCCTGA TTTGTG	CCCATGTGAAACGGA GAAAT	60.0	484	INTRON	Ca_22057	--	bHLH
Ca6_P1_3387209	Ca6	3387209	CA/CAAAATGGTGTA	ACCCCTGAACGATGTA AACG	CGCTCTTATCCTGTTG GCTC	59.9	547	INTERGENIC	--	--	--
Ca6_P1_3387853	Ca6	3387853	AGTACGTA/AGTA	GAGCCAACAGGATAAG AGCG	GAAAATTGAGTTCCAT GACGTTT	60.0	477	INTERGENIC	--	--	--
Ca6_P1_3387937	Ca6	3387937	A/AG	GAGCCAACAGGATAAG AGCG	GAAAATTGAGTTCCAT GACGTTT	60.0	477	INTERGENIC	--	--	--
Ca6_P1_3388065	Ca6	3388065	GATATATATAT/GATATAT	GAGCCAACAGGATAAG AGCG	TTGCTTTCACTTCTTT TTCCG	60.0	841	INTERGENIC	--	--	--
Ca6_P1_33886478	Ca6	33886478	TT/TTAAT	CTGGGCAAGGGATCTG AATA	GCGCTTTTTAGCTTTT TAGCTTT	60.0	575	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_3393001	Ca6	3393001	AAATAATAATAATAATAATA/AAAT AATAATAATAATAATA	AGATTACTCTGCCTTC CCGC	TTTTCGTTTTAGATGG CCAAA	60.7	707	INTERGENIC	--	--	--
Ca6_P1_3394139	Ca6	3394139	C/CA	CCATCCAGAGCACCTG AAAT	TCAATTGCCTTGCATG TTGT	60.1	371	INTERGENIC	--	--	--
Ca6_P1_3395375	Ca6	3395375	GTG/GTGCTGCTGCTGCTATAATTG	GGCAGGAACGATACCA CAGT	TTGCCCGTACAAAAGA ATCC	60.0	428	CDS (large-effect mutations)	Ca_05973	U	Trihelix
Ca6_P1_33960708	Ca6	33960708	C/CTT	ACCTTGAGATCCCTC GTTT	GTTTGGCACATGCTG CTTG	59.9	289	INTERGENIC	--	--	--
Ca6_P1_34011050	Ca6	34011050	GATATATATATATATATATATATATA /GATATATATATATATATATATATAT ATATA	TACGACATCCCGTTT ATCC	TTGTGGGTTTTGGTT CAAT	60.7	595	INTERGENIC	--	--	--
Ca6_P1_34052758	Ca6	34052758	GTTATTATTATTATTATTATTAT/G TTATTATTATTATTATTAT	AGAAATCAAAGCGACC AACA	CGAGAAGGGGAGTTG AATTG	58.4	517	INTERGENIC	--	--	--
Ca6_P1_34159504	Ca6	34159504	CAATAATAATAATAATAATAATA/C AATAATAATAATAATAATAATAATA	TCTTTGCCAACCGTTC TTCT	CCTCTAGTGAACCCA CCAA	59.9	175	INTERGENIC	--	--	--
Ca6_P1_34162137	Ca6	34162137	A/AGC	ATGGAAAGTTTGGTGC CTTG	AAAAACGCACGCGTTA AAAT	60.0	376	INTERGENIC	--	--	--
Ca6_P1_3420698	Ca6	3420698	TTATATATATATATATATATATATAT TTATATATATATATATATATATAT	TAGCCGACAACATTGG AACA	TGAACTCGCACATTTG AGGA	60.1	386	INTERGENIC	--	--	--
Ca6_P1_34222252	Ca6	34222252	CATATATATATATATATATATATATA TATATATAT	TGCCTTTTGTGTTTCC CTTC	AGTTTAAATGTCGTGAC CGGC	60.1	496	INTERGENIC	--	--	--
Ca6_P1_3424107	Ca6	3424107	AAATAATAATAATAATAATAATAAT /AAATAATAATAATAATAATAAT	TGGTATGCCGACCTAA TGGT	AAGCTGCAATTTGAAA GGGA	60.2	501	INTERGENIC	--	--	--
Ca6_P1_34294095	Ca6	34294095	TTAAAAACACTTTTCAGTAAA/TTAAA	CTGGATTTTTCACCGT CGTT	TGGCAAATCGATTGAA ACAA	60.0	691	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_34437205	Ca6	34437205	AATTATTATTATTATTATTATTATT ATTATTATTATTA/AATTATTATTATT TATTATTATTATTATTATTATTATT A	GCAGCTGTCGAGTGT TGAA	CGAAGCCAATGTCCTT CTTC	60.2	399	INTERGENIC	--	--	--
Ca6_P1_34570118	Ca6	34570118	TTTTTTG/T	TGGTCGACAAGCAACT GAAG	AACAATCTCCCCCTTT TTGG	60.0	583	DRR	Ca_15816	--	--
Ca6_P1_34624108	Ca6	34624108	AGT/AGTGT	GAATGTTTTTGGCAGC CTTC	TTGCACAAGCTTCAAT TGTT	59.7	672	DRR	Ca_15814	O	--
Ca6_P1_34728984	Ca6	34728984	TTATATATATATATATATAT/TTATAT ATATATATATATATATAT	TAGGCACATCAAGTCA ACCG	TCAGACCATCCGATAG AGGC	59.7	570	INTERGENIC	--	--	--
Ca6_P1_34769968	Ca6	34769968	CTT/CT	TCTGGAAAATCAAAG GGGA	ATCCCGGTTCAATTCA AACA	59.5	717	INTERGENIC	--	--	--
Ca6_P1_34775621	Ca6	34775621	T/TCAATTCAC	AAATGAACCTGTACG GGCT	TCCCAACATTAGCTGA TCCC	59.6	702	INTRON	Ca_15807	R	--
Ca6_P1_34827878	Ca6	34827878	CATATATATATATATATATATATA TATA/CATATATATATATATATATAT ATATATA	AAGTTTCGGGGTAGAG CGAT	TGTAGCATTCTCATGG CGAG	60.1	645	INTERGENIC	--	--	--
Ca6_P1_34838549	Ca6	34838549	CAATAATAATAATAATAATAATAAT AATAATAATAATAATAA/CAATAAT AATAATAATAATAATAATAATAATA ATAATAATAA	CACGTTTGATGTTGGA TCAGA	ATGTGGATGGAACGTG GTTT	59.6	759	INTERGENIC	--	--	--
Ca6_P1_34856533	Ca6	34856533	CATATATATATATATATATATA/C ATATATATATATATATATATA	CTGACTCTGGTGGGGA ATGT	ACAACAATGGTCCAC ATCA	60.0	487	INTRON	Ca_15803	G	--
Ca6_P1_34859064	Ca6	34859064	GATATATATATATATATATATA/G ATATATATATATATATATATATA	GAAAGAGTTTTGAGCC ACGG	AAGTCCAATCTCGGTC AAACTT	59.9	625	INTERGENIC	--	--	--
Ca6_P1_34905964	Ca6	34905964	TTAATAATAATAATAATAATAATAA TAATAATAATAATAA/TTAATAATA ATAATAATAATAATAATAATAATAA TAATAATAATAATAA	TGGGTCCAAATCCATT ATCAA	AACGGCGGTTGTTTAC TTTG	60.0	412	INTERGENIC	--	--	--
Ca6_P1_34936983	Ca6	34936983	AATATATATATATATATA/AATATAT ATATATATATA	TCATCTGCACTTGGC TTTG	TCGCGTCGAAACTAG ATCA	60.0	708	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/P1)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_35002092	Ca6	35002092	ATTTTTTTTT/ATTTTTTTTT	AAAGGCTACAAGGAGC GGAT	AAGCCGGGATAATCAA AGTT	60.2	585	INTERGENIC	--	--	--
Ca6_P1_35013378	Ca6	35013378	ATTTATTTTATTTTATTTTATTTT/ ATTTATTTTATTTT	CAATCTTGGACCAGGA GGAA	TGGCCCTTACTTTTGG ACAG	60.0	725	INTERGENIC	--	--	--
Ca6_P1_35138073	Ca6	35138073	AATATATATATATATATATATATATA TATATAT/AATATATATATATATATAT ATATATATATATATATAT	TCTTTTCATGCATCCCA CAA	GCAAACCAATCCTCTA TCTGC	60.0	335	INTERGENIC	--	--	--
Ca6_P1_35161798	Ca6	35161798	TATAAATATAA/TGAATATAAAATAAT ATAA	AGGAAGAGTGGAGTTG CGAA	CGGTTGAGAACCAAG GATGT	60.0	649	INTERGENIC	--	--	--
Ca6_P1_35169658	Ca6	35169658	GTATATATATATATATATATATATA/ GTATATATATATATATATATATAT ATATATATA	AGGAAGAGTGGAGTTG CGAA	TATTTTGGATTTTGGC TCGG	60.0	524	INTERGENIC	--	--	--
Ca6_P1_35179846	Ca6	35179846	CAAAAAA/CAAAAAA	ACGTTCCAACAGCTC CATC	CGGTACACCTCCAGT CAGT	60.1	654	INTRON	Ca_15787	G	ERF
Ca6_P1_3519049	Ca6	3519049	GTTTTTTTTT/GTTTTTTTTT	AAGACTGCCCTGACCA GAGA	GTGGGGGACTAAGCT AAGGG	60.0	334	INTERGENIC	--	--	--
Ca6_P1_3520685	Ca6	3520685	CTATATATATATAT/CTATATATATA TAT	GTTTCGCGATTTCTCG TGTT	CACGCATTTGACTCGA AAAC	60.3	249	INTERGENIC	--	--	--
Ca6_P1_35246113	Ca6	35246113	CTATTATTATTATTATTATTATTAT TATTAT/CTATTATTATTATTATTAT TATTATTATTATTATTATTATTAT AT	CGACCCAAAATCTAAC CGAA	CCTCGAGAGGCAGGA TAAAG	59.9	356	INTERGENIC	--	--	--
Ca6_P1_35255013	Ca6	35255013	CATATATATATATAT/CATATATATA TATATATAT	ATTCCCCCTTCATCTT GGAC	AAATTAAGTTTCAAAC CACGG	60.1	580	INTERGENIC	--	--	--
Ca6_P1_35354971	Ca6	35354971	CTATATATATATATATATATATATAT ATAT/CTATATATATATATATATATA TATATATATATAT	AGAGTTTCAAAGCCAC CAAG	CTTTCTGTTTGGTAG CGGC	57.1	495	INTERGENIC	--	--	--
Ca6_P1_35399219	Ca6	35399219	GGA/GGAGA	GAAGCTCAGATGGCAC ACAA	AAACACCTAGTGTGGG CTGG	60.0	302	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected 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_P1_35399356	Ca6	35399356	GTTT/GAATTT	TTGAAGCTCAGATGGC ACAC	CTCCCCCTTTTGGCA TAAT	60.0	718	INTERGENIC	--	--	--
Ca6_P1_35461554	Ca6	35461554	ATTT/ATT	GCCAATCAATTTGGCT TTGT	GGATGTGCTTGAGAAA GATGC	59.9	549	INTERGENIC	--	--	--
Ca6_P1_35528115	Ca6	35528115	AACA/AACACA	AAGACCCATCTCCAGC ACAC	CACCCATCGGATAATG CTTC	60.1	783	INTERGENIC	--	--	--
Ca6_P1_35616799	Ca6	35616799	C/CCTT	GTTTCTGAGGCAAAAT CCCA	TGCATTTGTCTTCCCA TTGA	60.1	537	INTERGENIC	--	--	--
Ca6_P1_35704642	Ca6	35704642	AAT/AATACGAT	TCGGAAATAGTCGGAT GGAG	CGTTCAGTGGTACGGA GTCA	60.0	748	INTERGENIC	--	--	--
Ca6_P1_35719325	Ca6	35719325	AATAGAATACTTTATTAT/AATAGAATA CTTTATTATAGAATACTTTATTAT	TGCATCGTTTTTCATCT TTCA	GCGGCTAATTTCAACC AAAT	59.3	630	INTRON	Ca_15773	--	--
Ca6_P1_3579474	Ca6	3579474	AATATATATATATATATATATATATATA TATATATATATATATATATATAT/AATAT ATATATATATATATATATATATATATAT ATATATATATAT	AATCTGGTCAGAGTGC CACC	TCCATTCACGGATGTG AAAA	60.1	698	DRR	Ca_05949	--	--
Ca6_P1_35801189	Ca6	35801189	AAATAATAATAATAATAATAATA/AAA TAATAATAATAATAATAA	CTTCCTAAGCCGCAT TGTT	TTGAACAATAAAAAATTA ATCGCAAA	60.1	548	INTERGENIC	--	--	--
Ca6_P1_35802672	Ca6	35802672	TTTCT/TT	GAGCCTTAGAGTTGGG AGCA	ACCCAACTTGTCGAAC CAAC	59.6	778	INTERGENIC	--	--	--
Ca6_P1_35810337	Ca6	35810337	C/CT	TCATCGATTGCAACT GCTT	CCCTAAAAATTTGTGG GCTT	59.4	672	INTERGENIC	--	--	--
Ca6_P1_35832130	Ca6	35832130	TTCTCT/TTCT	TCGCCTTCTTCGAAAT TAAGTC	AAAAGATTGGTTGGAT TAAAAAGA	59.9	147	INTERGENIC	--	--	--
Ca6_P1_35849588	Ca6	35849588	GATATATATATATATATA/GATATATAT ATATATATATATA	TCATATGACAACGGCA AGGA	AAGCAACCAACTGGCA TAGC	60.1	842	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected 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_P1_35922388	Ca6	35922388	AT/ATT	TCTCCGTTTCATTCTCC ACC	CCTGGGGGCTGTTTA CATA	60.1	450	INTERGENIC	--	--	--
Ca6_P1_36029920	Ca6	36029920	CTTT/CTTTT	TTTGAACCAAAACTT CTTCAA	GGAGAAAAAGATTAA AATCCTCTAAA	60.0	520	INTERGENIC	--	--	--
Ca6_P1_36039668	Ca6	36039668	CATAA/C	CAAGTCGTCGCTTCCA AAGT	AATTGCGGCGAGAGA AGATA	60.4	394	INTERGENIC	--	--	--
Ca6_P1_36070342	Ca6	36070342	TAA/TAAA	GGCATTGGGTCTGTT TTTA	TCTCATTCTCCCTC TCAA	59.9	274	INTERGENIC	--	--	--
Ca6_P1_36093851	Ca6	36093851	AAA/AAATAA	CCTGTTCCAGACATGG TTGA	TGCCAAATGATCCATT CAAA	59.5	868	DRR	Ca_26435	O	--
Ca6_P1_36127435	Ca6	36127435	TACCTTCACCTTCACCTTCACCTTCA/ TACCTTCACCTTCACCTTCA	AAGCAGAGGCAGCAGA GAAG	CCAAAAGCTGAAAGCT GACC	60.0	483	CDS (large-effect mutations)	Ca_26432	R	--
Ca6_P1_36177945	Ca6	36177945	AAGAGAGAGAGAGAGAGAGAGGG AGAGAGAGAGAGAGA/AAGAGAGAGA GAGAGAGAGAGGAGAGAGAGAGAG AGA	ATGGTCCACTTGCA GTCA	TTGTACCAACAAGG TCCA	60.0	400	INTERGENIC	--	--	--
Ca6_P1_36237842	Ca6	36237842	CATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTAT TTAT/CATTATTATTATTATTATTAT TATTATTATTATTATTATTATTATT ATTATTATTATTATTATTAT	TCTACCCCAATCCCT CTCT	ATTTGCCCTGATGTTT TTGG	59.9	573	INTERGENIC	--	--	--
Ca6_P1_36281940	Ca6	36281940	CATATATATATATATATA/CATATAT ATATATATATA	AGTGACCATCTCCCAA GGTG	ATTTTAACGGATGTCG TGGG	60.0	646	INTERGENIC	--	--	--
Ca6_P1_36325192	Ca6	36325192	GTTATTATTATTATTATTATTATTAT TTATTATTATTATTATTATTATTAT TATTATTAT/GTTATTATTATTATTAT TTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTAT	AGCCGCCGCTAATTTT ATTT	TGCATTATCTGTTTC GCTC	60.1	600	INTERGENIC	--	--	--
Ca6_P1_36452738	Ca6	36452738	AATATATATATATATA/AATATATAT ATATATATATA	CAATCCCATTCCCATT TTG	AATGGGCGCTGTTAAA TGTC	60.0	778	INTERGENIC	--	--	--
Ca6_P1_36491069	Ca6	36491069	GATAT/GATATATATATATAT	TGGAAATTGGCACACA AGAA	TGCTTAACTTTCGGTG CCTC	60.1	667	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected 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_P1_36656433	Ca6	36656433	TAAAAAAAAA/TAAAA	TCACCAATATCTTTCCC ACCA	TTGATGGTTGCACCTA AATGA	60.2	612	INTERGENIC	--	--	--
Ca6_P1_36722414	Ca6	36722414	ACCC/ACC	CTTAGGTTTGCACTCA GCCC	TCGCGGATCTGCTCTT AAAT	59.9	685	INTERGENIC	--	--	--
Ca6_P1_36722630	Ca6	36722630	TA/TAA	TTGCTCCTACGTATCC CCAG	TCGCGGATCTGCTCTT AAAT	60.1	295	INTERGENIC	--	--	--
Ca6_P1_36773737	Ca6	36773737	A/AG	GCTGAGTTTCTGCATG ACCA	ACCACAATGTAACACC CCGT	60.0	724	INTERGENIC	--	--	--
Ca6_P1_36774046	Ca6	36774046	CTTT/CTT	ACGGGGTGTTACATTG TGGT	CTATTAGCGTTGGCTC TCGG	60.0	281	INTERGENIC	--	--	--
Ca6_P1_3682028	Ca6	3682028	CATATATATATATATATATATATATA TATAT/CATATATATATATATATATATA TATATATAT	CAAAAATTGGTTGCC AAAG	TTCCCCAACATCGAAC AAAT	60.3	386	DRR	Ca_05939	T	--
Ca6_P1_36880735	Ca6	36880735	AATATATATATATATAT/AATATATA TATATATAT	GGGCCAAGCCCATATT TTAT	TTGTTTGCAAATACTC CCCT	60.0	177	INTERGENIC	--	--	--
Ca6_P1_36898169	Ca6	36898169	AATATATATATAT/AATATATATATATA T	AAGAGAGGTCACTTTG GCGA	CAATTCCCACAGGTAC GCTT	60.0	692	INTERGENIC	--	--	--
Ca6_P1_36951265	Ca6	36951265	TTTATTATTATTATTATTATTATTA TTATTATTAT/TTTATTATTATTATTATT ATTATTATTATTATTATTATTAT	TGGGCAGAATTGATAA ATCG	CTCCCTCTCATCTGTT CAAAAA	58.6	578	INTERGENIC	--	--	--
Ca6_P1_37028357	Ca6	37028357	TA/T	AGACCCGTGATAGGTT GCAC	AATTCTCACGCGATCA CCAC	60.0	447	INTERGENIC	--	--	--
Ca6_P1_37042119	Ca6	37042119	GATATATATATATATATATATATATA /GATATATATATATATATATATATATA ATA	CCAAACTGATGGAAG CGTT	TCATTGTTGATTGCCG AGTC	60.1	556	INTERGENIC	--	--	--
Ca6_P1_37061459	Ca6	37061459	TTCTCTCTCTCTCTCTCTCTCTCTCTC TCTCTCTCTCTCTCTCTCTCT/ TTC TCTCTCTCTCTCTCTCTCTCTCTCTCT CTCTCTCTCTCTCTCTCTCTCTCTCT	TGGTTTGATGTGTTCT TGGC	CGACTCTGGAATGTGA GCAA	59.5	201	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_37110970	Ca6	37110970	ATAAATTAAAGT/ATAAATTAAGTAA TTAAAGT	GCTGGCCTCGTACTCA TTTT	ATCTTGACACTTCCGA TGCC	59.3	652	INTERGENIC	--	--	--
Ca6_P1_37221442	Ca6	37221442	A/AGCC	TCAAAATTTTAGGCCG CAAC	CGAAGTCGTCGTGAGT TTGA	60.1	679	INTERGENIC	--	--	--
Ca6_P1_37221973	Ca6	37221973	T/TC	AACCCATTGAGGTGA CTGC	CCGATCTTCCAATCGT TGAT	60.0	420	INTERGENIC	--	--	--
Ca6_P1_37316155	Ca6	37316155	GAAAAAA/GAAAAAAA	TAATAAATGAGGCGG TGGC	CGTACTTGTCATCCATG AAACA	59.9	735	INTERGENIC	--	--	--
Ca6_P1_37342747	Ca6	37342747	AG/AGG	TGCATCTGGAGCCAAA AAGT	ATTGTCCTGCGACAAA GTCC	60.8	225	INTERGENIC	--	--	--
Ca6_P1_37387169	Ca6	37387169	ATATTATTATTATTAT/ATATTATTA TTATTATTATTAT	CCGTAGTGTTTTGCCC TTGT	TAAGGGCATCCAAGGA TTTG	60.0	586	DRR	Ca_19797	--	E2F/DP
Ca6_P1_3742066	Ca6	3742066	ATATTATTATTATTATTATTATTAT TATTATTA/ATATTATTATTATTATTAT ATTATTATTATTATTATTATTATTA TTA	TGAAAGTTTAGCGGCA ATCA	AATTGTTGGCAGCTT TTTC	59.4	609	INTERGENIC	--	--	--
Ca6_P1_37560511	Ca6	37560511	T/TATGGCAGATCA	GAAGCAGAACCCAAA AACA	CAATCCACAGGTAC GCTT	60.1	559	INTERGENIC	--	--	--
Ca6_P1_3756968	Ca6	3756968	TAAAAAAAA/TAAAAAAAAA	TCCGTTACCACTCACA CCAA	ACCCCTCAAATCTGTT GTGC	60.0	640	INTRON	Ca_05928	--	bZIP
Ca6_P1_37640608	Ca6	37640608	CAAAATTTAAAAATTTAAAAATTTAAA /CAAAATTTAAAAATTTAAAAATTTAAA AATTTAAAA	TTTGGCGTAGTGTGAC TTGC	CTCGTGAGGGGAAGC ATAAG	59.9	308	INTERGENIC	--	--	--
Ca6_P1_37686403	Ca6	37686403	TTCC/T	CATGCTATTGTCATCAT TGCTCTT	TCCCCTCTTCATTCA TTTC	59.6	773	INTERGENIC	--	--	--
Ca6_P1_37714381	Ca6	37714381	CATATATATATATATA/CATATATAT ATATATATATA	TCGATCTCACCAGCAA CAAC	TGGTGTGATGACCAAA ATGG	59.8	352	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/P1)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_37788611	Ca6	37788611	GTATATATATATATATAT/GTATATA TATATATATAT	AATGGAGGAAGGAGG GAGAA	TTTGGATTTTGACTCG GAGG	60.0	435	INTERGENIC	--	--	--
Ca6_P1_3780129	Ca6	3780129	CTTTTT/CTTTTTTTT	GCGTTGTCAAATTAC AAATTCA	TTATTTGAATCCCCA AAACA	59.1	693	INTERGENIC	--	--	--
Ca6_P1_37849692	Ca6	37849692	CAAAA/CAAAAA	TCGAAACCATGACGT TGTA	GAATCCTGGGCTGAAA TCAA	60.0	547	INTERGENIC	--	--	--
Ca6_P1_37850010	Ca6	37850010	C/CTT	TTGATTTAGCCAGG ATTG	AGAATTTACGAGCAGC GGAA	60.0	627	INTERGENIC	--	--	--
Ca6_P1_37890277	Ca6	37890277	AATATATATATATAT/AATATATATATA TATAT	TCACGGCGAATATGAA ATGA	TGCTATGCGTTTGAT CTTG	60.0	652	INTERGENIC	--	--	--
Ca6_P1_37893301	Ca6	37893301	AACA/AACACA	TTCCCATCTTTGTCTCC GAC	ACACCACAGCCAAAC AACA	60.1	363	INTERGENIC	--	--	--
Ca6_P1_37902107	Ca6	37902107	TT/TTGATAT	GTTTTGACAGGCCCGA ATAA	ATGGTGGTTCGGTCAC ATTT	59.9	462	INTERGENIC	--	--	--
Ca6_P1_37934888	Ca6	37934888	TTATATATATATATATA/TTATATATA TATATATATATA	ATCACTTGGCCAGAAA ATCG	GACGCTGACGGTTAT TGTT	60.1	641	INTERGENIC	--	--	--
Ca6_P1_37947362	Ca6	37947362	ATAATTAA/ATAA	ATGAACCTGGAAGTGC ATGA	GGGGCTTCAAGAACA CAAAA	59.1	482	INTERGENIC	--	--	--
Ca6_P1_37971622	Ca6	37971622	GTATATATATATATATATATAT/GTA TATATATATATATATATATAT	AGCTCTGGAGACCTCC TTCC	TTGTTTGTAATGCTC CCCT	60.0	386	INTERGENIC	--	--	--
Ca6_P1_37981463	Ca6	37981463	GAAA/GA	CCAATTGGAACAAGGT TGGA	TATTGCCTCAAAGTGG CTGA	60.7	243	INTERGENIC	--	--	--
Ca6_P1_37981858	Ca6	37981858	TAAA/TAA	TGCAATGACCTTGAAA TTCG	CTTTAGCCTTCATCG CCAG	59.7	817	INTERGENIC	--	--	--

[illegible]

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_38646033	Ca6	38646033	ACCCC/ACCC	TATGGGGTGGTGAA GATGT	GGGGAAGTGAGATGG TGATG	60.1	411	INTERGENIC	--	--	--
Ca6_P1_38717654	Ca6	38717654	TTTTGTTT/TTTT	GGATGCTCAAGACACG TGAA	GGCTAAACCAATCGAT TCCA	59.8	226	INTERGENIC	--	--	--
Ca6_P1_38752921	Ca6	38752921	GGAAAGAAA/GGAAA	TAGGGCACAAAGTCTCC CAAC	AACGTCCATCACACCT CTCC	60.1	460	INTERGENIC	--	--	--
Ca6_P1_38822653	Ca6	38822653	T/TCGTTTACATTGTTCA	TGAGAAAGGGGAAAG GGAAT	TGAGTTGTTGCTTTG ACCA	59.9	737	INTERGENIC	--	--	--
Ca6_P1_3883131	Ca6	3883131	AAAACTTTCAAAA/AAAA	TCTTTGCTTTACACACC CCC	TTGATTTGAAAAGTATT AAAGTCCGA	60.0	305	INTERGENIC	--	--	--
Ca6_P1_38985223	Ca6	38985223	AATATATATATATATATATATATA /AATATATATATATATATATATATA ATA	GCTCTGAGGCTTTTAA GCCA	CCTTACGGTACCGCGA TAAA	59.7	684	INTRON	Ca_15903	--	--
Ca6_P1_39182715	Ca6	39182715	GAAAAAAAA/GAAAAAAAAA	TGGACGAAGTCAATGG TCAA	TCAATGGAATTTTCG AGTCAA	60.1	843	DRR	Ca_15911	P	ERF
Ca6_P1_3920180	Ca6	3920180	GTTGGAATCTTTT/GTTGGAATCTT TTGGAATCTTTT	TGGCATCCAACAATTG TCAT	TTGTGCAACCAATCAC TTGAA	59.8	899	DRR	Ca_05908	R	--
Ca6_P1_39283890	Ca6	39283890	AATATATATATATAT/AATATATATATA TATATATAT	ATGTTTTGGATTTTGG CTCG	CGTAGCACGGTAGTG AGCAA	59.9	476	INTERGENIC	--	--	--
Ca6_P1_39475328	Ca6	39475328	TTTGTGTGTGTGTGTGTGTGTGT GTTGTGTGTGTGTGTGTGT/TTTGT TGTGTGTGTGTGTGTGTGTGT TGTTGTGTGTGTGTGT	TTCGAAAAACGCGATA ACAA	TTAAAGCAACCAATC AGCA	59.3	665	INTERGENIC	--	--	--
Ca6_P1_39488255	Ca6	39488255	TTAATAATAAT/TTAATAATAATAATA T	GGTGCTTTGCCTTTTA GCTG	CATGGATCAAGAACCC GACT	60.0	443	INTERGENIC	--	--	--
Ca6_P1_39670000	Ca6	39670000	AATATATATATATATATATATATATA TATA/AATATATATATATATATATAT ATATATATATATATATATATA	GTAGTGGTTACCTCCG CAGC	TCAAATTGGAATGTTG CTTCA	59.8	411	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected 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_P1_39762547	Ca6	39762547	TTATATATATATATATATATATATAT/TTATATATATATATATATATATATATATAT	CATTGACATTCTTCCT	GAGGTGGCGCAATATTGAT	60.1	561	INTERGENIC	--	--	--
Ca6_P1_39781733	Ca6	39781733	CATATATATATATATATATATATATA/CATATATATATATATATATATATATATA	TCTCCGCATAAGCTTT CGAT	TGCTTCGACACAGTAG CACC	59.9	478	DRR	Ca_15927	--	--
Ca6_P1_39791831	Ca6	39791831	T/TC	CTCGTGTTCTGTTCTGTG AGAA	CAGGGTACGAACCGG TAAGA	60.0	869	INTERGENIC	--	--	--
Ca6_P1_39811005	Ca6	39811005	AATACATAC/AATAC	ATATGACACGTGGCAG TCCA	GAGTCGGTCCAACAAA TTCAA	60.0	463	INTERGENIC	--	--	--
Ca6_P1_40090062	Ca6	40090062	AATATATATATATATATAT/AATATATATATATATAT	CCTCAATTGTACTTTTC GGTGA	ACCCAATGAGAGGAGATCCA	59.1	413	INTERGENIC	--	--	--
Ca6_P1_4048315	Ca6	4048315	AATATATATATATATATATAT/AA TATATATATATATATATATATATAT	TAGGTTATCACCGTGG AGCC	AGCAGCAGTTCACCGA GTTT	60.0	872	INTRON	Ca_05894	R	--
Ca6_P1_40508760	Ca6	40508760	GAAAA/GAAAAA	AATTGACGTGCAACCC TGTC	CGTAGCGAAGTCGGA TGAAT	60.0	364	INTERGENIC	--	--	--
Ca6_P1_40530522	Ca6	40530522	T/TGGAAGAGCGGTCCATG	AAATTGGCTCGCTAGG TTGA	CGAGGTGAAGCAAAG TCCAT	59.8	491	INTERGENIC	--	--	--
Ca6_P1_40536235	Ca6	40536235	CAA/CA	GATTGCAAGTCCCACA TCCT	TCAGACAAAGCTGCAA CCAC	59.9	424	INTERGENIC	--	--	--
Ca6_P1_40699134	Ca6	40699134	GATATATATATATATATATAT/GATA TATATATATATATAT	TGGATTTCAGCCTCGT AACC	AAGCACGTGTCAAATC GTGA	60.1	743	INTERGENIC	--	--	--
Ca6_P1_40802758	Ca6	40802758	ATATTATTATTATTATTATTATTAT TATTATTATTATTATTATT/ATATTA TTATTATTATTATTATTATTATTATT ATTATTATTATTATTATT	TCATCTAAATTGGTGC CAAAGA	ATCGTCACGTCTTCCA TTCA	59.6	726	INTERGENIC	--	--	--
Ca6_P1_40843096	Ca6	40843096	TTATATATATATATATATATATATAT ATATAT/TTATATATATATATATATAT ATATATATATATAT	CTATGCGACCACGTGA AGAA	TTGGTATCAAGATGCG ACATTC	59.9	711	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_40961260	Ca6	40961260	TTATATATATATATATATATATATAT A/TTATATATATATATATATATATATA	GAGAGGGAAGGGAA AGAAA	TGGAGTTCCTCAAAGA TAACGAA	59.6	908	INTERGENIC	--	--	--
Ca6_P1_41118805	Ca6	41118805	TGG/TG	AAGAGTCCAAGTCCGC TGAG	CGATTCCACAGCGCTT ATTT	59.6	482	DRR	Ca_23143	--	Trihelix
Ca6_P1_41128605	Ca6	41128605	TAAAAAAAAA/TAAAAAA	AATGGGCGCTGTAA TGTC	GGGAGCTGATACCAC AGCAT	60.0	702	INTERGENIC	--	--	--
Ca6_P1_41129068	Ca6	41129068	GATATATATATATATA/GATATATAT ATATA	ATGCTGTGGTATCAGC TCCC	TCAACCAATAGAAAG AAGAGAA	60.1	680	INTERGENIC	--	--	--
Ca6_P1_41139265	Ca6	41139265	AA/AAACAGGA	TTCGGGCTTAACCAA AATG	AGCTGCAAGTGCAGA GCATA	59.9	534	INTERGENIC	--	--	--
Ca6_P1_41197340	Ca6	41197340	AAATAATAATAATAATAATAATAAT AATAATAATAATAA/AAATAATAAT AATAATAATAATAATAATAATAATA ATAATAATAATAATAATAA	AGCATTGGTGGTAG GAGG	CACCTCCCGCTAATGT CAAT	60.0	841	INTERGENIC	--	--	--
Ca6_P1_41260615	Ca6	41260615	TAAAAAAAAA/TAAAAA	TATCGTCAGCTGTCG TTGT	GCAGGCCACTTGTAT CCTA	59.6	742	INTERGENIC	--	--	--
Ca6_P1_4134117	Ca6	4134117	AT/ATTT	TTTTTAATAATAGCTCC GAAACAAAA	ACCGTGTGAGGCATT CTTT	59.9	139	INTERGENIC	--	--	--
Ca6_P1_41432949	Ca6	41432949	GAATTAATTAA/GAATTAATTAAATT AA	TCGAATTTTGAGACGG AAAGA	GGTTCGAGTGTGTGC CATAA	59.8	684	INTERGENIC	--	--	--
Ca6_P1_41464281	Ca6	41464281	CTTTGATTGA/CTTTGA	AAGCAGAAGGTAGTGG CGAA	GTACGTGGTCCTTCCC TGAA	60.0	395	INTERGENIC	--	--	--
Ca6_P1_41464328	Ca6	41464328	GAAA/GAAAA	AAGCAGAAGGTAGTGG CGAA	GTACGTGGTCCTTCCC TGAA	60.0	395	INTERGENIC	--	--	--
Ca6_P1_41488253	Ca6	41488253	TTATATATATATATATAT/TTATATAT ATATATATATATAT	TCGTTGAATCCATGTG TTGC	GGTTGGACGCTCTGTT CTGG	60.5	536	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_41493875	Ca6	41493875	TTATATATATATATATATAT/TTATAT ATATATATATATATATAT	GGATCCAAATCTTCTC GTTAA	AGTGGACGGTCTCAAC TTGG	57.4	993	INTERGENIC	--	--	--
Ca6_P1_41520820	Ca6	41520820	AATATATATATATATATAT/AATATA TATATATATATATATAT	GCATTTTGTGTTGAAGAT TTTGATG	ATTCAATCACCCAAAC CGAA	59.9	414	INTERGENIC	--	--	--
Ca6_P1_41550861	Ca6	41550861	TTAATAATAATAATAATAATAATAA TAATAATAATAATAATAATAATAAT AATAATAATAATAA/TTAATAATAATAA TAATAATAATAATAATAATAATAAT AATAATAATAATAATAATAATAATAA	TGTTACTGTGCGGCTA CCAC	GCAAGTGAGTTTCTCC GCTC	59.8	416	INTERGENIC	--	--	--
Ca6_P1_41574227	Ca6	41574227	CATAATAATAATAATAAT/CATAATAAT AATAATAATAAT	TGATTAATCGCAAATT GTCCA	TTTTTGCGGTCTTTT ATGC	59.0	471	INTERGENIC	--	--	--
Ca6_P1_41574282	Ca6	41574282	TTTATTATTATTATTATT/TTTATTATTA TTATTATTATT	TGATTAATCGCAAATT GTCCA	TTTTTGCGGTCTTTT ATGC	59.0	471	INTERGENIC	--	--	--
Ca6_P1_41574810	Ca6	41574810	ATTTTTTTTTTT/ATTTTTTTTTT	TAAAGGCATTGACGGC TCTT	GCATGCCAAAAGAAT TGGT	59.8	646	INTERGENIC	--	--	--
Ca6_P1_41604405	Ca6	41604405	AATATATATATATATATATATATATA TATATA/AATATATATATATATATATAT ATATATATATATATATATATA	ACGCACAAAAGTGTA CTGC	CGTATCATAGGCCAAC GTGA	60.0	318	INTERGENIC	--	--	--
Ca6_P1_41654561	Ca6	41654561	GAAAAAAAAA/GAAAAAAAAA	CCTTTTGTGAAAGAGG CAGC	CACGGGGAAGTTGTT TTGT	60.0	623	INTERGENIC	--	--	--
Ca6_P1_41659483	Ca6	41659483	CAAAA/CAAAA	CCATCAGAAACTGGGA TGGT	TGGCCCTTCATTTTC AATC	59.8	495	INTERGENIC	--	--	--
Ca6_P1_41669872	Ca6	41669872	ATT/ATTT	TGTAGAATCCACCAAT GTCCA	ACCAATCATGTTTCGT GGAA	58.8	651	INTERGENIC	--	--	--
Ca6_P1_41700958	Ca6	41700958	TA/T	CAATGAAGAGCATATG GGCA	GCGTCAGGTTCAATTC CATT	59.6	274	DRR	Ca_21940	J	--
Ca6_P1_4171419	Ca6	4171419	TTATATATATATATATATATATATAT A/TTATATATATATATATATATATATA	ATTTGGAATTAGGCCG ACG	TTGCGCGGGTAAACAT ATAA	59.9	455	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_41743348	Ca6	41743348	GAAA/GAAAA	TATTTTGGATTTGGCT CGG	AGGAAGAGTGGAGTT GCGAA	59.9	431	INTERGENIC	--	--	--
Ca6_P1_41806912	Ca6	41806912	CC/CCTATAC	AAAGAAGTTGAATGTG GCCC	CACCGCCAATAGAAAA GGAA	59.0	515	INTERGENIC	--	--	--
Ca6_P1_41825857	Ca6	41825857	ATTTTT/ATTTTTT	ATCCACTTGAACCCGT CTTG	TGCAATGGAATGGAAT CTGA	60.0	802	INTERGENIC	--	--	--
Ca6_P1_41832129	Ca6	41832129	AATATATATATATATATA/AATATATAT ATATATATATATA	GTGGTCACGGATCTCA CCTT	GGAGAGAGCGAATCG AATGA	60.0	510	DRR	Ca_21944	P	--
Ca6_P1_41875891	Ca6	41875891	ATTTTT/ATTTTTT	GGATCTATGATTCCC TCTTGC	AGTCCCCATGTAATTG TCACG	59.1	568	INTERGENIC	--	--	--
Ca6_P1_41895390	Ca6	41895390	AATATATATATATATATATATATATA /AATATATATATATATATATATATAT ATATATA	ACAAGTTGCCCTTTGG AATG	GGTCGTCAAAACAATA CCCG	60.0	532	INTERGENIC	--	--	--
Ca6_P1_41903127	Ca6	41903127	TTTGGATT/TTT	TCGGTATTTCGAAGTT GGGT	AGCCCCAAAAAGTGGC TATT	59.4	658	INTERGENIC	--	--	--
Ca6_P1_41913124	Ca6	41913124	ATTTTTTT/ATTTTTT	GTGAGACCTTGTGCC ATGA	CCTCTCTGTGATTGC CTCA	59.7	648	INTERGENIC	--	--	--
Ca6_P1_41949688	Ca6	41949688	TTATATATATATATATATATATATAT A/TTATATATATATATATATATATATA	ATCCGTCCTCATATCC ACAA	GGGTAAACCCACATA ACGG	57.8	604	INTERGENIC	--	--	--
Ca6_P1_41957220	Ca6	41957220	CTATATATATAT/CTATATATAT	TCCCCAACTTTTGAATT TGC	TGCTTCAGTCAATGGG ACAG	59.9	877	DRR	Ca_21949	O	--
Ca6_P1_41969965	Ca6	41969965	TTATATA/TTATATATA	AGGAAGAGTGGAGTTG CGAA	TATTTTGGATTTTGGC TCGG	60.0	513	INTERGENIC	--	--	--
Ca6_P1_42005927	Ca6	42005927	CTATTATATTATATTATATTATATTAT/ CTATTATATTATATTATATTATATTATA TTAT	TGTACTGGCCTTGCC TTCT	TGCCTGAATTAAACTG CCAA	59.9	836	DRR	Ca_21951	YU	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_42030623	Ca6	42030623	A/AT	GCAAACCTGACAGGAA AAGC	AACGGCTAGTCACAAC GGTC	60.0	739	INTERGENIC	--	--	--
Ca6_P1_42309198	Ca6	42309198	AATATATATATATATATA/AATATAT ATATATATATATATA	AGGAAGCCCAAGTTCC AAAT	CCAAGAGAGGTGCAA CCAAT	59.9	569	INTERGENIC	--	--	--
Ca6_P1_42313627	Ca6	42313627	TTATATATATATATATATAT/TTATAT ATATATATATATATATAT	TTTTAGAATTGATTGGC GGC	AGGAAGCCCAAGTTCC AAAT	60.0	585	INTERGENIC	--	--	--
Ca6_P1_42360169	Ca6	42360169	TC/TCCCAAAAAGC	AGAACAGAGGGAACGC AGAA	CAGCGCTTATTTGGGA AAAG	60.0	625	INTERGENIC	--	--	--
Ca6_P1_42360857	Ca6	42360857	CTTAATT/CTT	CAGCGCTTTTCCCAA TAAG	TACGCATCATGGGATT CAAA	59.8	601	INTERGENIC	--	--	--
Ca6_P1_42375275	Ca6	42375275	TTT/TTTCTT	TGCAACATTGAAGTG GAAG	CGGAGGAACTTTCGTC ACTC	59.7	121	INTERGENIC	--	--	--
Ca6_P1_42392311	Ca6	42392311	CTTTTTTT/CTTTTTTTTT	AAATGGGTTGAAAGTT GTCGTT	AATGGAGTGATGCCCT TACG	59.8	579	INTERGENIC	--	--	--
Ca6_P1_42398678	Ca6	42398678	ATTTTTTT/ATTTTTT	GGTTTGGGAGAGAAAA AGGAA	TGGTTAAACTCATTG GTCCC	59.6	900	INTERGENIC	--	--	--
Ca6_P1_42457499	Ca6	42457499	T/TG	ATGTTTTCCGGAAGAG GCTT	ACCATAGGCCTTGACC TTCA	60.1	336	INTERGENIC	--	--	--
Ca6_P1_42464964	Ca6	42464964	A/AT	GGTGAGTTTTCCACAA GCGT	GCTTCAATGAAATTTG GCGT	60.2	982	INTERGENIC	--	--	--
Ca6_P1_42476256	Ca6	42476256	TATAATAATAATAATAGTAATAATA ATA/TATAATAATAATAATAGTAATAAT AATA	GACGTGCATCCAATGT TGTC	AAGTTTTCCGAAAGTC ACCG	60.0	902	INTERGENIC	--	--	--
Ca6_P1_42480728	Ca6	42480728	A/AT	CACAAACATCACGTGC AACC	GATATGGGCAGACAG GGTAAA	60.0	885	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_4249273	Ca6	4249273	ATTT/ATTTT	TTCAAGCCATATTTCG GGTC	CGTAAATGATGTGGCA TTCG	59.9	740	INTERGENIC	--	--	--
Ca6_P1_42643338	Ca6	42643338	GT/GTT	GATTGGCACGTCGATT AACA	CAACGGGACTTCTCAC GAAT	59.5	604	INTERGENIC	--	--	--
Ca6_P1_42869037	Ca6	42869037	TAA/TAAA	TTGTCGTGATTATTAG GGGACA	TTGTCAAAACATATGC CGTTTC	59.3	263	INTERGENIC	--	--	--
Ca6_P1_42878186	Ca6	42878186	CTGATAGTGTAAC	TCACAAATATGAACGA TTGTGATG	TTTCATGGAGGTTGAT TGGA	59.8	213	INTERGENIC	--	--	--
Ca6_P1_42899017	Ca6	42899017	TGTG/TGTGAGTG	CTCCTGTTTTGTAAAC CCCCA	TCCAAGAAAACACCAT GAATTG	59.9	575	INTERGENIC	--	--	--
Ca6_P1_4290626	Ca6	4290626	ACATCATCATCATCAT/ACATCATCAT CATCATCAT	CATTCCAGACATTGAC GGTG	ACCTGGAACATTTTG CTCG	60.0	684	CDS (large-effect mutations)	Ca_05873	--	C2H2
Ca6_P1_42907383	Ca6	42907383	A/AAGAGGG	ACTGGCTGACCACTCT CGTT	CAGCGCTTATTGGGA AAAA	59.9	840	INTERGENIC	--	--	--
Ca6_P1_42934218	Ca6	42934218	CATATATATATATATATATATATAT/AT CATATATATATATATATATATATATATAT T	TTTGTGAGATTTTGG GCTCA	CTTTGGCTGAAAAGG TTGG	59.7	187	INTERGENIC	--	--	--
Ca6_P1_43017644	Ca6	43017644	ACATCAT/ACATCATCAT	GGAAGGATTTTGAAGA AACCA	GCCGTGCCTTTTAAAT GTGT	58.1	529	INTERGENIC	--	--	--
Ca6_P1_43043105	Ca6	43043105	CA/C	TGATTTGGTCGCAACA GCTA	AAAAATTGTGCCAAAG TTATGTGA	60.4	556	INTERGENIC	--	--	--
Ca6_P1_43046051	Ca6	43046051	GATTATTATTATTATTATTATTATTATT ATTATTATTATTAT/GATTATTATTATT ATTATTATTATTATTATTATTAT	TGCTAATCTCCTGTTC CGCT	GGTGTGCTGTGTGTT TGCC	60.0	281	INTERGENIC	--	--	--
Ca6_P1_43064353	Ca6	43064353	A/AACTG	CGCCACAACCTCTACT CCTT	GAGGTGCGACAACAG ATGAA	59.4	785	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected 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_P1_43116900	Ca6	43116900	AATATATATATATATATATATATATA TATA/AATATATATATATATATATATAT ATATATATATA	GTTTGGGGTTACTCAT GGGA	ATTCCTCAACATTGGC AAAA	59.6	195	INTERGENIC	--	--	--
Ca6_P1_43138332	Ca6	43138332	GAAAA/GAAA	GTTCCCTTTGGAATGC TTGA	TCTTTGGGCCAGTGAA AATC	60.1	741	INTERGENIC	--	--	--
Ca6_P1_43144384	Ca6	43144384	TTTCTTCTTCTTCTTCTTCTTCTT/ TTCTTCTTCTTCTTCTTCTTCTTCTT TTCT	TCATGTGGACTAAATG GGCA	ACAGCTCAAGCGAAAC CCTA	59.9	399	INTERGENIC	--	--	--
Ca6_P1_43144709	Ca6	43144709	TTTATTATTATTATTATTATTATTATTA TTATTATTATTATAATTATAATTATTAT TATTATTATTATTATTATTATTATTATT ATTATT/TTTATTATTATTATTATTATTA TTATTATTATTATTATTATAATTAT TATAATTATAATTATAATTATAATTAT	TAGGGTTTCGCTTGAG CTGT	TCCGGATCCTTCAGAT TCAC	60.0	656	INTERGENIC	--	--	--
Ca6_P1_43176153	Ca6	43176153	T/TCAGATTTTAAATGATGC	TGACATTGCCATCAA AGGA	AGCCCATCAATCGAAA ACTG	60.0	638	INTERGENIC	--	--	--
Ca6_P1_4363547	Ca6	4363547	AT/ATAGGT	TTGCCTCTTCATTCTT TGC	TAAAAACCGGTTCCGT TCAG	58.1	338	INTERGENIC	--	--	--
Ca6_P1_43771972	Ca6	43771972	AAACAAAACCAACAAAC/AAACAAAC C	CAATTTTGTCCACCAC CAAA	AACCCACTCCCCTTCA GTCT	59.3	963	INTERGENIC	--	--	--
Ca6_P1_43882	Ca6	43882	GTGTAATTGATTATGTAATTGAT/GTG TAATTGATTATGTAATTGATTATGTAA TTGAT	TTACTTTGGAGGGACG TTGC	TTGCTTGACAATTAT TCCAC	60.1	445	INTERGENIC	--	--	--
Ca6_P1_43901335	Ca6	43901335	GCCC/GCCCCC	GACCTTTTGAGGGTTC CCAT	ATTGACAACCTTCCCA CTGC	60.2	260	INTERGENIC	--	--	--
Ca6_P1_43909185	Ca6	43909185	TTGAAG/TTGAAGCAAGTACAACATCAT GAAG	TGATTGGGTTTGGGTT CATT	ACATAGATGCCGCCTT CATT	60.0	445	INTERGENIC	--	--	--
Ca6_P1_43909507	Ca6	43909507	CTTTTTTTTT/CTTTTT	GAAGCGGCATCTATG TGTT	GGCTTTTGAATCACCG AAAA	60.1	447	INTERGENIC	--	--	--
Ca6_P1_43914405	Ca6	43914405	TG/T	TGTCTTGCAAAACCA AAAA	TAAAGCATGTTTGTAG GGGG	59.2	657	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/P1)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected 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_P1_43921996	Ca6	43921996	AA/AATAATA	GGTGTGCTGTGTGT GCGT	GCTTAATTCTAGGGAG GCGG	60.7	578	INTERGENIC	--	--	--
Ca6_P1_43926077	Ca6	43926077	GAA/GA	GGAATTTTGGGGAT GACT	ACACCCATTTCACTTG CTCC	60.0	251	INTERGENIC	--	--	--
Ca6_P1_44054118	Ca6	44054118	GATATATATATATATATATA/GATAT ATATATATATATATATATA	TCACTATGCCGGTAAA AATGAA	CAATGTATTCCAAGT CGGC	59.5	675	INTERGENIC	--	--	--
Ca6_P1_44072205	Ca6	44072205	TTATATATATATATATATATATAT/ TTATATATATATATATATATATAT	GACATTTGGAACCTGA ATTTCCT	TTTGAATTGCGACTT CCTT	58.7	363	INTERGENIC	--	--	--
Ca6_P1_44134697	Ca6	44134697	GGTGGCC/GGTGGCCGTGGCC	GAGGCTGGATGGAAG AGAGA	AGGTTGCTGTTGTGCA GATG	59.5	197	INTERGENIC	--	--	--
Ca6_P1_44242244	Ca6	44242244	AAATAATAATAATAATAATAATAAT AATAATAATAAT/AATAATAATAATAA TAATAATAATAATAATAATAATAAT AAT	TTAAATGTGCAACTT GCCG	GACAACCAATCAGCAC CAAA	59.7	334	INTERGENIC	--	--	--
Ca6_P1_44252651	Ca6	44252651	CTTCTTGATATTCTTGATATTCT/CTTC TTGATATTCTTGATATTCTTGATATTCT T	ACTGCCTTCAGTGCCA CTTT	CCGAGAAGTGTCCGG ATTTA	59.9	610	INTERGENIC	--	--	--
Ca6_P1_44266489	Ca6	44266489	AATATATATATATATATATATATATA TA/AATATATATATATATATATATATA	CCGCATTATAATTCCG CTGT	GTGCCGAGAAAATGTG GATT	60.0	819	INTERGENIC	--	--	--
Ca6_P1_44292405	Ca6	44292405	TAA/TAAA	AACACTAGAACTCGC GCAAA	CCAATCTACATGATGC ACGG	60.1	304	INTERGENIC	--	--	--
Ca6_P1_4432554	Ca6	4432554	ATTTTTTTTT/ATTTTTTTTT	TTTCCTTTGCCAGAGA GACG	AAGTGTCTTTGGGGAC GTTG	60.5	424	INTERGENIC	--	--	--
Ca6_P1_44386840	Ca6	44386840	GAT/G	ACCCAGTGCCTTTTCT TCTT	GCGTCCAGAGAAGA ATCAG	60.1	577	INTERGENIC	--	--	--
Ca6_P1_44418513	Ca6	44418513	CCTCTCTCTCTCTCTCTCT/CCTCTCT CTCTCTCTCTCTCT	ATAGGTGGCCATTGTT CCAA	TGTGGAGTGAAAGCAT GAGG	60.2	543	INTRON	Ca_24238	--	MYB_related

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_44541419	Ca6	44541419	AT/ATT	TATGCAATTGAATGAT GGCA	GGAACCTTGCAAAATG GCTT	58.5	828	INTRON	Ca_24241	E	B3
Ca6_P1_44558395	Ca6	44558395	GTTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTAT TGTTATTATTATTATTATTATTATT ATTATTATTGTTATTATTATTATTATTA TTATTATTATTATTATTATTATTAT	CGACATGGCTCTGATA CCAA	ATGCATGGCCTTATTC ATGG	59.7	816	INTERGENIC	--	--	--
Ca6_P1_4465240	Ca6	4465240	T/TGATA	AAATCCTTCAGGTGTC TCCA	TCAAGAAATAGTGGGG GCAG	59.7	181	INTERGENIC	--	--	--
Ca6_P1_44745465	Ca6	44745465	TTATATATATATATA/TTATATATATATA TATATATATATATA	ATGACGATGACGATGA CGAA	ATGCAGTTGCAGCAAT CAAC	60.1	512	DRR	Ca_13805	--	--
Ca6_P1_44920634	Ca6	44920634	ATTATTTTTTATTTTTTATT/ATTATTT TTTATTT	GGTCCCTCTCTCCAAA TTCC	TTAATTCACGTGCATC GTCTG	59.9	937	INTERGENIC	--	--	--
Ca6_P1_45018203	Ca6	45018203	AA/AAGTAACA	TCAAGACGGGAATTGG AAAG	TTGCAAAGGATGTATT GGCA	60.0	433	INTERGENIC	--	--	--
Ca6_P1_4504175	Ca6	4504175	AAATAATAATAATAATAATAATAAT AATAATAATAATAAT/AAATAATAATAA TAATAATAATAATAATAATAATAAT AATAAT	CCCATCATCCAAAACA CAAA	GGACCACGAATGTAAT TTAGCC	59.2	353	INTERGENIC	--	--	--
Ca6_P1_45075317	Ca6	45075317	TTATATATATATATATATATATATAT ATATATATATATAT/TTATATATATATAT ATATATATATATATATATATATAT	CCTTTCCCTCAAACA AACA	ATTTTGAATTTTGGCT CGGA	59.9	296	INTERGENIC	--	--	--
Ca6_P1_45135342	Ca6	45135342	TTTTTATTTA/TTTTTATTTTATTTTA	AAAAAGTTTGAGAGAC CATTGTTTT	ATTTGCGTCGTTATGT GCAA	58.8	311	INTERGENIC	--	--	--
Ca6_P1_45164662	Ca6	45164662	TCC/TC	GATCAGATCTGGCAGC AACA	TCAGTTGTCATCGAA AAAGC	60.0	735	INTERGENIC	--	--	--
Ca6_P1_45230160	Ca6	45230160	CTATATATATATATATAT/CTATATA TATATATATAT	TGACTCCAACCCTTCA CTCC	TCAACACAGTTGGCAT TGGT	60.1	808	INTERGENIC	--	--	--
Ca6_P1_45268304	Ca6	45268304	GAAATAGAAACATAAAA/GAAA	ATTGGAGAAACATGCG TCAA	GGGTTGAGTTGTTGTT CCTGA	59.1	847	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_45277845	Ca6	45277845	GAAA/GAA	TCACTTATGCAAAAG GGGG	GGCCACAACTAAGAG TTCCC	59.9	561	DRR	Ca_13829	--	--
Ca6_P1_45278332	Ca6	45278332	GTTTT/GTTTTT	TTGGCAAATCGATTGA AACA	TTGATCCTTGCACTCA CTCG	60.1	767	DRR	Ca_13829	--	--
Ca6_P1_45290500	Ca6	45290500	AT/A	GGCACGCTATGGAAAG AGTC	TGAAATCCATAGGAA GCGG	59.8	589	INTERGENIC	--	--	--
Ca6_P1_45329060	Ca6	45329060	T/TTTAAAA	TTTTTCTATTTTATTC TCGTGG	TCGATTATGCGTAGGG AAGG	57.6	762	INTERGENIC	--	--	--
Ca6_P1_45336184	Ca6	45336184	TTATTATTATTATTATTATTAT TA/TTATTATTATTATTATTATT ATTATTA	TTGCCACAACAGAAC GTGT	CCAAAAACCACTG GCTT	60.2	688	INTRON	Ca_13834	T	--
Ca6_P1_45402105	Ca6	45402105	AC/ACTGCTTTAGCAACCACC	TGGTAGCATTTGTTT GGCT	TTTTGGGATGACGTGG ATTT	58.3	738	DRR	Ca_13836	--	--
Ca6_P1_45429763	Ca6	45429763	TNNNNNNNNN/TNNNN	AATTCAATTGAGTCGC CACC	TAAAGGACCACATCGG GAGA	59.9	318	INTERGENIC	--	--	--
Ca6_P1_45469975	Ca6	45469975	TGTTCAAGTTTCAGTTCA/TGTT AGTTCAAGTTCA	TGCGAAAAATGGGTTT GAGT	ATGTGAATCCCACCAG GAAA	60.5	637	INTERGENIC	--	--	--
Ca6_P1_45484176	Ca6	45484176	GTTTTTTTTTTT/GTTTTTTTTTTT	CACCAAAAATTGTACC ACTTGC	GAGGCAACGACTCAAA CCTC	59.4	864	INTERGENIC	--	--	--
Ca6_P1_45586778	Ca6	45586778	AATATATATATATATATATATATA /AATATATATATATATATATATATA ATATATA	TTTGGCCAGACCACCT TTAC	TCTCATGTTCTCTCAA CTGCT	60.0	343	INTERGENIC	--	--	--
Ca6_P1_45675880	Ca6	45675880	A/ATTCCTTTTCGTGTAG	TCACAGGTGGACACAA CAAAA	TCTTTCTTCAAAACACA ATCGAA	60.0	505	INTERGENIC	--	--	--
Ca6_P1_45797406	Ca6	45797406	TATTTGATG/TATTTGATGAATTTGAT G	TCCACTTTCGAATTTG GGAC	GTGGATATCATACCC CCAA	59.9	781	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_45892250	Ca6	45892250	TAAAAAA/TAAAAA	GGAGCGCTAAAGTCTT CCAA	TTGAGGGACCAAACT GGAG	59.6	426	INTERGENIC	--	--	--
Ca6_P1_45895264	Ca6	45895264	TTATATATATATATATA/TTATATATA TATATATA	TTGAAAGAACCAACG AGGG	TTTGAGAAATCCCCAT TGGA	60.1	470	INTERGENIC	--	--	--
Ca6_P1_45922563	Ca6	45922563	GTTTTTTTTTTTT/GTTTTTTTTTTT	GTGGCCACTCACCAA AGAT	TGAACAAAACCAACAA ACCA	60.0	564	INTERGENIC	--	--	--
Ca6_P1_46017538	Ca6	46017538	TTATATATATATAT/TTATATATATATAT AT	TGCGATCACTCGTTCT ATCG	TGACAGGGGTTATGGT TGAAG	60.0	548	INTERGENIC	--	--	--
Ca6_P1_46031146	Ca6	46031146	G/GGA	GGAAATGGATGTCTGC CAAT	AGCCTCGTAGGTTCGA CTGA	59.8	551	INTERGENIC	--	--	--
Ca6_P1_46128884	Ca6	46128884	AAATAATAATAATAATAATAATAAT AATAATAATAATAAT/AAATAATAA TAATAATAATAATAATAATAATAAT AATAATAATAAT	ATGCCAGCTTGACAA TGTT	TGGAGATGCGACCGT CTACT	60.5	741	INTERGENIC	--	--	--
Ca6_P1_46134674	Ca6	46134674	TAAAAAAA/TAAAAAAA	CCTGAAATCCTAACG CCAA	GCAGCGAAAAATCACC AAGT	60.1	446	DRR	Ca_13879	--	MYB_related
Ca6_P1_46142562	Ca6	46142562	A/AGAGAAACT	CTCGGGTCTCTTGACC ATGT	ATGCAGCAATTTCCAT CCTC	60.1	617	INTERGENIC	--	--	--
Ca6_P1_4621073	Ca6	4621073	ATTTTTTTTT/ATTTTTTTTTTT	CCAACGCTACAACCT TCAT	GGAGGAAACAAATTGA TCCAAA	60.0	761	INTERGENIC	--	--	--
Ca6_P1_46346627	Ca6	46346627	TATA/TATAAATA	TAACCCAAAAATCCCA ACCA	ACTTGGGAACCCGAA GAAGT	60.0	466	INTERGENIC	--	--	--
Ca6_P1_46391549	Ca6	46391549	ATTTTTTT/ATTTTTTTTTTT	GAACATGAAAAGGGTC ACCG	GGAGGAATCTTTTGT GCCA	60.4	564	INTERGENIC	--	--	--
Ca6_P1_4639280	Ca6	4639280	TATCAT/TAT	TCGTTCTTCAGGAAG TCGT	GGACTGGGGTCATT TAGGT	59.8	772	DRR	Ca_05833	T	--

[illegible]

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_46869916	Ca6	46869916	CGAAGAAGAAGAAGAAGAAGAA GAAGAAGAAGAA/CGAAGAAGAAGAA GAAGAAGAAGAAGAAGAAGAAGA A	CGCATGATTGAAGGGA AAAT	AGAAAGGCTCAAACGA CCAA	59.9	398	INTERGENIC	--	--	--
Ca6_P1_46877609	Ca6	46877609	TTTATTATTATTATTATTATTATTA/ TTTATTATTATTATTATTATTATTA	TGGATGGATTGGTTGA ATGA	TGAAGGAGGGACCAA AACTG	59.7	198	INTERGENIC	--	--	--
Ca6_P1_46882428	Ca6	46882428	AGAGGATGAGGATGAGGATGAGGAT/ AGAGGATGAGGATGAGGATGAGGAT GAGGAT	TGATGAGGAGGAGGA GGAGA	TTCAATGTTCCCTTTT GTGA	59.9	139	CDS (large-effect mutations)	Ca_17733	--	--
Ca6_P1_46895129	Ca6	46895129	GATATATATATATATATATA/GATATAT ATATATATATATATATATA	CAAACCCGACAAATGA ACCT	TCGCTCAGCAAAATC TTGA	59.8	252	INTERGENIC	--	--	--
Ca6_P1_4694284	Ca6	4694284	ATCTTCTT/ATCTT	CTCAGCAGCAACATCC TTCA	GTGCCCCAATTGACAC TTCT	60.0	513	INTERGENIC	--	--	--
Ca6_P1_47001052	Ca6	47001052	A/AG	GAAGCGGTACTTCCCA TTGA	GGTTACAATGTGGGA CGAG	60.1	417	INTERGENIC	--	--	--
Ca6_P1_47036359	Ca6	47036359	TTGTGTGT/TTGTGT	TCTTGATCGTGTGAGG CATT	TGTGTGGGCATTACT TTGA	59.2	384	INTERGENIC	--	--	--
Ca6_P1_47040606	Ca6	47040606	TTTATTATTATTATTATTATTATTA TTATTATTATTATTAT/TTTATTATTATT ATTATTATTATTATTATTATTATTA T	TATCATCACCTCACCC CCAT	TCCAGTCAATGTGCAA AAACA	60.0	550	INTERGENIC	--	--	--
Ca6_P1_47131186	Ca6	47131186	GTATATATATATATATATATATATA/ GTATATATATATATATATATATATAT A	AGTTAGCGGTGGGGA GAACT	CATCAACACCAAATAT TTCCCA	60.1	846	INTERGENIC	--	--	--
Ca6_P1_47141227	Ca6	47141227	TGGG/TGGGG	TGAAACGATTGACATG TTAAGGA	AAACATTTGGCTACAA GGCG	59.5	818	INTERGENIC	--	--	--
Ca6_P1_47149113	Ca6	47149113	TAAAA/TAAAAA	AAACGGGAACCTCCAGA ATGA	TTTCCACCCAGAAAGC AATC	59.5	617	INTERGENIC	--	--	--
Ca6_P1_47237725	Ca6	47237725	AATATATATATATATATA/AATATAT ATATATATATA	GCATTGGCACGGAAGA TAGT	TGCATGTTCTTACGCT CGTC	60.1	577	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_472874	Ca6	472874	AT/A	TTTCCTTCTCCCTTTG CAC	AGCAAGAAACAAACGA CGCT	59.3	719	DRR	Ca_13267	--	G2-like
Ca6_P1_47299841	Ca6	47299841	AACATATTCA/AACATATTCATATACAT ATTCA	TTGCGCGCTTGTATA CTTG	GCATGCTGCAAGGGA TAGTT	60.0	497	INTERGENIC	--	--	--
Ca6_P1_4731176	Ca6	4731176	ATTTTTTTTT/ATTTTTTTTT	GACACGTGCAAAACCAC TAGC	AAGCAACGATGATAAA ATACGACA	59.4	611	INTERGENIC	--	--	--
Ca6_P1_47312521	Ca6	47312521	GTT/GTTT	TATCTGTGGTCGTGTG GGAA	TCACGGGTCAACACGA TTTA	60.0	822	INTERGENIC	--	--	--
Ca6_P1_47338849	Ca6	47338849	GTAGTCATTCCATATT/GTAGTCATTC CATATTCGATAGTCATTCCATATT	GCAATGAATAGGATG GGAA	TTCTTCATTGCTAGGG GTGG	59.7	731	INTERGENIC	--	--	--
Ca6_P1_47393714	Ca6	47393714	AAATATCAATA/AAATATCAATATCAAT A	TTATCTGCCGCTACCC AAAG	TCTTGAGCTTTTGGC TTGT	60.2	755	INTERGENIC	--	--	--
Ca6_P1_47444823	Ca6	47444823	CTTGAATTTTGAA/CTTGAA	TTTTCATTTCTCCCGT TGG	CCTGAAATTGGCTCCT GAAA	59.9	873	INTERGENIC	--	--	--
Ca6_P1_47500678	Ca6	47500678	TTATTGGGTATATTATATT/TTATTGG GTATATTATATTGGGTATATTATATT	ATGCGACCTCCTGAAG AAAA	GACCGCGTAGATGTG GAAC	59.8	438	INTERGENIC	--	--	--
Ca6_P1_47511062	Ca6	47511062	AATATATAT/AATATAT	ACACGAGGTACCCGAA CAAG	CGAACTCGTCTAGCCC TTTG	60.0	737	INTERGENIC	--	--	--
Ca6_P1_47527023	Ca6	47527023	GAAAAAAAAA/GAAAAAAAAA	AACGAGAAAACGGAGA GCAA	CCCACAAAACATGACT GCAC	60.0	504	INTERGENIC	--	--	--
Ca6_P1_47608974	Ca6	47608974	AATATATATATATATATATATATATAT TATATATAT/AATATATATATATATAT ATATATATATATAT	CAATTTCCCTGGGTT ACCA	TGAAGTGCTACTCCAA TCCCA	59.7	589	INTERGENIC	--	--	--
Ca6_P1_47614631	Ca6	47614631	AA/AACTAATAATA	ACGGCCAAACCAATT AAA	CGACGTTTTCAACATT CCCT	60.2	156	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_47635187	Ca6	47635187	AGG/AGGG	TGCAGAGTTGAATTT GGTGA	TTGCCAATGTTTGGGA ATCT	59.3	763	INTERGENIC	--	--	--
Ca6_P1_47690166	Ca6	47690166	CATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTATT TATTATTATTATTATTATTATTATT ATTATTA	GACGGCAGTCCAAAAG AAAG	CCAAAATTTAGTTTCA GCCCA	59.9	519	INTERGENIC	--	--	--
Ca6_P1_47697947	Ca6	47697947	GTTCTGATTAATTTATTTCTG/GTTCT GATTAATTTATTTCTGATTAATTTATT TTCTG	TATTTTGGGGTTATCG AGCG	TTGGTTTATTTGGGTT GGGA	59.9	801	INTERGENIC	--	--	--
Ca6_P1_47701039	Ca6	47701039	CAAA/CAAAA	TGTCCTGAGTATTCC GGTC	ATGTGACAAACCTTTT CGGG	59.9	645	INTERGENIC	--	--	--
Ca6_P1_47711019	Ca6	47711019	CTT/CTTT	GTCCATAAGCGCCGTA AAAG	GGGTTTCGTATGAAAG GGTT	59.7	602	INTERGENIC	--	--	--
Ca6_P1_47787286	Ca6	47787286	TT/TTAT	AGGAAACAAACGAAG CAGA	CCGCTTTGCATCTCA TAAT	59.9	226	INTERGENIC	--	--	--
Ca6_P1_47816277	Ca6	47816277	AATATATATATATATATATATATATA /AATATATATATATATATATATATA	TGGGAATAGGCCAGAC TTTG	TTCCGAGTTGTTGAG AGGA	60.1	748	INTERGENIC	--	--	--
Ca6_P1_47931312	Ca6	47931312	AATATATATATATATATATATATATA TAT/AATATATATATATATATATATAT ATAT	ATACGGATCAGTTTGG GGTG	GTGAATTGCATGGGTT TTCC	59.7	504	INTERGENIC	--	--	--
Ca6_P1_4795557	Ca6	4795557	GTAATAATAATAATAATAATAATA ATAATAATAATAATAA/GTAATAAT AATAATAATAATAATAATAATAATA ATAATAA	AGTTGGCTTTTGTACC CCCT	ACACGTTTTGTTGTG GCAA	59.9	418	INTERGENIC	--	--	--
Ca6_P1_4795726	Ca6	4795726	AAACGT/A	AGTTGGCTTTTGTACC CCCT	AGTTGGCTTTTGTACC CCCT	59.9	940	INTERGENIC	--	--	--
Ca6_P1_47970616	Ca6	47970616	T/TCCTTCTCTC	TGATGGACTTCGTCT CTTG	CCAGGATAAACAGCC CAGA	60.0	326	INTERGENIC	--	--	--
Ca6_P1_48011269	Ca6	48011269	GATATATATATAT/GATATATATATA TATAT	TTTGTTCGTAATGTT GTTGA	TAGCTGTTGCGACCAA ATCA	59.2	665	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/P1)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_4801698	Ca6	4801698	TGG/TGGG	ATAACCGACACAGACG AGGC	GTTGTTGCTTCTGCTC CTCC	60.1	278	INTERGENIC	--	--	--
Ca6_P1_48063867	Ca6	48063867	AAGA/AA	CGTTTTATTCGGGAC TGGA	CTGCGAGGAACATTTC AACA	59.9	325	INTERGENIC	--	--	--
Ca6_P1_48099170	Ca6	48099170	CTTTTT/CTTTTTTTTT	TGAGACACGGGAAGAA GAGC	CCATAGAACGATAACC ACTTGATT	60.5	514	INTERGENIC	--	--	--
Ca6_P1_48208667	Ca6	48208667	CAATATAATGCGTTAAATATAATGCG TTAAAT/CAATATAATGCGTTAAAT	TTGCGTTTGTAATTCT TCCG	CTGTTGTTTTGCCCC CTAA	60.1	647	INTERGENIC	--	--	--
Ca6_P1_4823723	Ca6	4823723	TAA/TAAA	CGTTTTGGAGTACTTG TTAGTGGA	ACAACCATCAAACCGA TTCC	59.6	432	INTERGENIC	--	--	--
Ca6_P1_48260819	Ca6	48260819	GAAATTAATAAAATA/GAAATTAATA AAATAAAATTAATAAAATA	GTGGATGGTGGGGAA TAGTG	CTGAGGTCCCAAGCTA CGTC	60.1	504	INTERGENIC	--	--	--
Ca6_P1_48267612	Ca6	48267612	AATATATATATA/AATATATATATATA	GACATAAGAATGGAGG CGGA	TTTCTTCGCGTTTGAC TAATG	60.0	674	INTERGENIC	--	--	--
Ca6_P1_48271447	Ca6	48271447	TTTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTAT TAT/TTTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTAT	TGACTAATTGGTCGCC CTTC	GGATGCGATCATGTGA AGAA	60.1	685	INTERGENIC	--	--	--
Ca6_P1_48271722	Ca6	48271722	CATATATATATATATATATATATAT/ CATATATATATATATATATATAT	TGGACCAAAGCAGTGTA TGAG	TGACATTTTCAGGAGG CACA	59.8	804	INTERGENIC	--	--	--
Ca6_P1_48271982	Ca6	48271982	GTATATATATATATATATATATAT/G TATATATATATATATATATAT	GAGGATGCGACCTCCT ACTG	TGACATTTTCAGGAGG CACA	59.8	337	INTERGENIC	--	--	--
Ca6_P1_48279188	Ca6	48279188	T/TA	TCAAGAACGTTTCGAC CACA	GCAACTCGCGGGTTA GTATC	60.3	562	INTERGENIC	--	--	--
Ca6_P1_48279465	Ca6	48279465	AGG/AG	AACCAGATACTAACCC GCGA	TCTGGAAGTTCTTGA CCGTG	59.6	620	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_48279626	Ca6	48279626	ATTTTTTT/ATTTTTT	AACCAGATACTAACC GCGA	TCTGGAAGTTCTTGA CCGTG	59.6	620	INTERGENIC	--	--	--
Ca6_P1_48280097	Ca6	48280097	GAAAAAA/GAAAAAAA	GACACGGTCAAGAAAC TTCCA	TGCGTTGACTCTTCAA TACACA	60.1	376	INTERGENIC	--	--	--
Ca6_P1_48280225	Ca6	48280225	GTAT/GT	GACACGGTCAAGAAAC TTCCA	TGTGGCACATTCCAAA TTTAT	60.1	601	INTERGENIC	--	--	--
Ca6_P1_48280286	Ca6	48280286	ATTTTTTTTTTTTTTT/ATTTTTTTTTTT T	GACACGGTCAAGAAAC TTCCA	TGTGGCACATTCCAAA TTTAT	60.1	601	INTERGENIC	--	--	--
Ca6_P1_48280484	Ca6	48280484	TAA/TTTTGGTGAA	TGTGTATTGAAGAGTC AACGCAT	AAAAGTTGTGCCAAAG TTATGTGA	59.7	732	INTERGENIC	--	--	--
Ca6_P1_48280535	Ca6	48280535	GA/G	TGTGTATTGAAGAGTC AACGCAT	AAAAGTTGTGCCAAAG TTATGTGA	59.7	732	INTERGENIC	--	--	--
Ca6_P1_48280766	Ca6	48280766	TCTA/TCTAAACTA	TGTATTGATGAGTCGT TGAATGAT	GGAGACGTAAAGTCC CACA	58.5	902	INTERGENIC	--	--	--
Ca6_P1_48281397	Ca6	48281397	TAAAAAAA/TGAAAAAAA	GGGACTTTAACGTCTC CAATACA	CTTGAGAACGATCTGC CACA	59.4	473	INTERGENIC	--	--	--
Ca6_P1_48281570	Ca6	48281570	TA/TAATTAAA	TAGGGCAATTGTGCAC ATGA	CTCCAGGTAACGGTTG TGGT	61.1	335	INTERGENIC	--	--	--
Ca6_P1_48316872	Ca6	48316872	T/TAGCC	AGGAGGTGTACCGTC AATC	TGTTTAGGGTACAATG CCGA	60.0	164	DRR	Ca_24607	Q	--
Ca6_P1_4836563	Ca6	4836563	GATACATAAT/GATACATAATACATAAT	TGGCAGCATAGTTCAC CAAA	TGGTGCAAATAAATTA TGAGTTGG	60.1	524	DRR	Ca_05811	R	--
Ca6_P1_48788599	Ca6	48788599	CATATAT/CATATATATAT	TACAATTGATTGGCGG CATA	ATTGTGGTGGAGGTTG TGGT	59.9	738	INTERGENIC	--	--	--

[illegible]

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected 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_P1_49733827	Ca6	49733827	TCC/TC	TTGCAATCTCATCAACT CGG	GTAATGAAAGCGCTT TCGC	59.8	810	INTERGENIC	--	--	--
Ca6_P1_49738545	Ca6	49738545	AATATATATATATATAT/AATATATATA TATAT	ATCCTAAGCCCGATCC ACTT	GAGTTGCAAAAGCGAT TTCC	59.9	326	INTERGENIC	--	--	--
Ca6_P1_49742479	Ca6	49742479	AATATATATATATATATATATATATA T/AATATATATATATATATATATATAT ATATAT	ATGTGTGGGGTTCAAT GCTT	CAAAATGGACACTGC AGAAAA	60.2	901	INTERGENIC	--	--	--
Ca6_P1_49855126	Ca6	49855126	GT/GATATAAT	CGGTTGAAATAAGGCT CCAA	TCACTGGGGATGATT GTGA	60.1	479	INTERGENIC	--	--	--
Ca6_P1_49861454	Ca6	49861454	AGTGTGTGTGTGT/AGTGTGTGTGT	ACCTTGCACTTTTCTCC CCTT	CTTGCCAAGTTGCCAT TTTT	59.9	656	INTERGENIC	--	--	--
Ca6_P1_49869948	Ca6	49869948	TTCTCTCTCTCTCTCTCTCTCTCTC /TTCTCTCTCTCTCTCTCTCTCTCTC CTC	CCAGTCTGAAGTTTCACT GCAA	TCCATCGACCCAGTT ACTC	60.0	480	INTERGENIC	--	--	--
Ca6_P1_49874159	Ca6	49874159	AATATATATATATATATATATATA/A ATATATATATATATATATATATATA	GGGAGGAAGATTTTGA AGGG	GGCAGAAGCAGAGTTT CCAA	59.9	240	DRR	Ca_13487	P	MIKC
Ca6_P1_49998671	Ca6	49998671	TAAAA/TAAAAA	AAGAGAGGTCACTTTG GCGA	TTGCATTCCTCCAAA CACA	60.0	519	INTERGENIC	--	--	--
Ca6_P1_50016281	Ca6	50016281	TA/TAA	GTTGAAGGGCCACAAG TGAT	AAGGTTATGGTGGCTG CAAA	60.0	435	INTERGENIC	--	--	--
Ca6_P1_5002122	Ca6	5002122	TTATATATATATATATA/TTATATATA TATATATATATA	TTTTTAAATAACGGCG GGTG	AATCATGAATTGTCCA TGCAA	59.8	376	INTERGENIC	--	--	--
Ca6_P1_50042944	Ca6	50042944	AATATATATATATATAT/AATATATATA TATATATAT	GATGGCATCACCATGA CAAA	ACACCACGCAAGCAAC ATAA	60.3	830	INTERGENIC	--	--	--
Ca6_P1_50488403	Ca6	50488403	TTATATATATATATATAT/TTATATATAT ATATATATAT	AGGCATTTTGCCTTCA CACT	TTCAAACATTGTATTC CCTCCA	59.7	521	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_50489685	Ca6	50489685	TTAATAATAATAATAATAATAATA TAATAATAATAA/TTAATAATAATA ATAATAATAATAATAATAATAATA TAA	TAGCACGAAATGCTCG ACAC	TGTGACACATGCTGAC GGTA	60.0	412	INTERGENIC	--	--	--
Ca6_P1_50525240	Ca6	50525240	A/A/C	TGGTATGGGAGAGGG ATGAG	TCCCAAAGATGCATT CATT	59.9	817	DRR	Ca_13457	--	NAC
Ca6_P1_50536289	Ca6	50536289	CTCTTTNNNNNNNNNTCTTT/CTCT T	ACTGAAACCCACGTC AACC	AATTTGGTTTGCCTT ATGG	59.9	419	INTERGENIC	--	--	--
Ca6_P1_50601843	Ca6	50601843	TTATATATATATATATATATATA/TTA TATATATATATATATATATATA	TTGCAAGGGAAGTAT CCTGA	GAGCGCAGCAACATA TTGA	59.7	367	DRR	Ca_13453	R	--
Ca6_P1_50765397	Ca6	50765397	ATATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTAT ATATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTATT TATTATTATTATTATTATTATTATT	TGACGCGATGTTGTT GTTT	CACCCTCGCTGAGGTA TCAT	60.2	764	INTERGENIC	--	--	--
Ca6_P1_50818138	Ca6	50818138	AAAAATTTTATA/AA	CACATACTTCACATTT GCATTGA	TGTAAACCCCTTACCG TGTGTC	59.9	682	INTERGENIC	--	--	--
Ca6_P1_51012111	Ca6	51012111	TTTATTATTATTATTATTATTATTA TTCTTATTATTATTATTATTATTAT TATTATTATTA/TTTATTATTATTAT TATTATTATTATTATTCTTATTATT ATTATTATTATTATTATTATTATTA	ATCACCTCACCTACAT GCCC	TGTGGTTGAATAGATG TGCCA	59.8	727	INTERGENIC	--	--	--
Ca6_P1_51012538	Ca6	51012538	TTAATAATAATAATAATAATAAT/T TAATAATAATAATAATAAT	TGGCACATCTATTCAA CCACA	CATGCGATGCAACAT GTAA	60.0	540	INTERGENIC	--	--	--
Ca6_P1_51090950	Ca6	51090950	TGG/TG	TCAAACTTTCCACCCT CGTC	AAACAAGAGTTTCAAG ACCATCAA	60.1	683	INTERGENIC	--	--	--
Ca6_P1_51295690	Ca6	51295690	CTTTT/CTTT	CAGCAAAACATGAAGT TCGC	TCCCAAAAGAGATGAC TTGGA	59.5	561	INTERGENIC	--	--	--
Ca6_P1_51337603	Ca6	51337603	AG/AGG	TGATGGGGTGCAAATT ATGA	CAGGGACCAAGAAATT CAGG	59.7	877	INTRON	Ca_19171	R	--
Ca6_P1_51391818	Ca6	51391818	TATATATATATATATATATATATAT ATATATATATATATATATAT	TATTTTATGTCGGCCA CCC	AAACAAATCGCAAAA ACGG	59.7	340	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected 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_P1_51398741	Ca6	51398741	GATATATATATATATATATATATATAT/GATATATATATATATATATATATATATATATATAT	AAAGAGTGGGGTTGGA GTCA	ACGGAACAAACGACG ATCT	59.5	230	INTERGENIC	--	--	--
Ca6_P1_51425611	Ca6	51425611	TTATATATATATATATATATATATATATAT/TTATATATATATATATATATATATATATATATATAT	TGCATTTACAAATATCC ATCCAA	GGCCGTGCTCATATTC CTAA	59.2	582	INTERGENIC	--	--	--
Ca6_P1_51429120	Ca6	51429120	AATATATATATATATATATATATA/AATATATATATATATATATATATATA	CATGACCCCAATTTT CAGG	TGGACAACGAATCTAA CGGA	60.2	943	INTERGENIC	--	--	--
Ca6_P1_51457914	Ca6	51457914	ATCTTTTCTTTT/ATCTTTTCTTTCTTT	GCGTGTCTTAGTTCCT TGGC	GCCACGTGACTCTCG GTTAT	59.9	575	INTERGENIC	--	--	--
Ca6_P1_51458906	Ca6	51458906	CTATATATATATATATATATATAT/CTATATATATATATATATAT	AATGGATGGCCCAATT AACA	TGCATTTCGTTGGACA AAAA	60.0	631	INTERGENIC	--	--	--
Ca6_P1_51482572	Ca6	51482572	TAAAAAAAA/TAAAAAAAA	TGCACAATTGTTTATGA TGTTTTT	ACACTCCCAAAATCGT CCAG	58.5	552	INTERGENIC	--	--	--
Ca6_P1_51482605	Ca6	51482605	TAAAAAA/TAAAAAA	TGCACAATTGTTTATGA TGTTTTT	ACACTCCCAAAATCGT CCAG	58.5	552	INTERGENIC	--	--	--
Ca6_P1_51483268	Ca6	51483268	TTTATTATTATTATTATTATTATTATTA TTATTATCATCATTATTATTATTATTAA CATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTATTA TTAT/TTTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTATT	CTGGACGATTTTGGGA GTGT	TGCATAATCATTGCC TCAA	60.0	758	INTERGENIC	--	--	--
Ca6_P1_5149046	Ca6	5149046	AATATATATATATATAT/AATATATATATATATATAT	GGTATCGCGTAGAACG TTGA	TGGGTATTTCATAACA TCCAAA	58.8	682	INTERGENIC	--	--	--
Ca6_P1_51504679	Ca6	51504679	TCA/T	ACCAACGAAGTCCTG AATC	TTTCTGCTTAAATCGG TGGG	60.0	342	DRR	Ca_19163	--	Nin-like
Ca6_P1_51672087	Ca6	51672087	AT/AATATATAACCT	ATGGAATGAATCCACA CGGT	TCTTCCACCCAGTTTT GACC	60.1	360	INTERGENIC	--	--	--
Ca6_P1_51675507	Ca6	51675507	A/AG	GGAAGGGATTTTGTG GTGA	TTCGTAATGGACGGGA TGAT	59.8	596	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected 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_P1_51703884	Ca6	51703884	CATATATATATATATATATATAT/CA TATATATATATATATATATATAT	AGGAAGAGTGGAGTTG CGAA	TATTTGGATTTTGGC TCGG	60.0	475	INTERGENIC	--	--	--
Ca6_P1_51725987	Ca6	51725987	AATATATATATA/AATATATATAT ATA	GGACCAGGTTCTGCAT CAAT	TCTGCATTTGTCTGCG TTTC	59.9	558	INTERGENIC	--	--	--
Ca6_P1_51746046	Ca6	51746046	TTAATAATAATAATAATAATAATAA TAATAATAATAAAT/TTAATAATAAT AATAATAATAATAATAATAATAATA AT	GACGAAATTCITTTAA GAGGGG	TTTATGGCACAAACCC ATCG	58.3	412	INTERGENIC	--	--	--
Ca6_P1_51771487	Ca6	51771487	AATAAATATAAATATA/AATAAATATA	CGACCCACATGTTGAA GTTG	TCCCCCTTTGTCTTCT TGTG	60.0	685	INTERGENIC	--	--	--
Ca6_P1_51775676	Ca6	51775676	CT/CTTT	GGAATCTACCATGCAC TGACAA	GGTGC GTTCAACGAA AAAT	60.0	641	INTERGENIC	--	--	--
Ca6_P1_51775756	Ca6	51775756	G/GT	TGATGTGCTACCCATA CCGA	GAGAGCATGCGTTTGT TTCA	59.9	205	INTERGENIC	--	--	--
Ca6_P1_51775849	Ca6	51775849	GATTTTTTATTT/GATTT	TGATGTGCTACCCATA CCGA	GAGAGCATGCGTTTGT TTCA	59.9	205	INTERGENIC	--	--	--
Ca6_P1_51776432	Ca6	51776432	AATATATATATATATATATATATATA T/AATATATATATATATATATATAT	ATTTTTCGTTGAAACG CACC	GGCCTATAGCCTGGC CTACT	60.0	481	INTERGENIC	--	--	--
Ca6_P1_5192603	Ca6	5192603	TTATATATATATATATATATATATAT ATATAT/TTATATATATATATATATAT	CCGTCAAATGCATGA CTTG	GGGAGTCGAGGTGGA TTCTA	60.1	553	INTERGENIC	--	--	--
Ca6_P1_51948483	Ca6	51948483	AATATATATATATATATATATATATA TATATATATATA/AATATATATATAT ATATATATATATATATATA	CTTTAGATGGAATTCG GATGTG	TGCTAAATGTCACCA AACAAAA	58.6	618	INTRON	Ca_25856	--	NAC
Ca6_P1_51952938	Ca6	51952938	TA/TTTAGA	GAAAAGACTTGTGTG CTCGAGTTT	AAGTTTGTGTTTGCAA GCTCA	59.4	773	INTERGENIC	--	--	--
Ca6_P1_51959426	Ca6	51959426	CAA/CAAAA	TAATGGTTTTACGCC AACA	ACCGGAAACGCATGTT AAAG	60.0	586	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_52074906	Ca6	52074906	TTTATTAAGCGATTATTATTCAGCGA TTTATTATTA/TTTATTCAGCGATTAT TATTA	TCCTGAAGATGAGATG CGTG	GGCTATCGCTTATGCA GGAC	59.9	797	DRR	Ca_17514	--	SAP
Ca6_P1_52075058	Ca6	52075058	GTTATTATTATT/GTTATTATTATTATT	GCGTGTCTTATTGGAG AGAGC	GGCTATCGCTTATGCA GGAC	59.1	782	DRR	Ca_17514	--	SAP
Ca6_P1_52104833	Ca6	52104833	A/AC	CAGAAAAGGTGCAAC CACA	TCCTCAACCACCATT TCAT	59.7	793	INTERGENIC	--	--	--
Ca6_P1_52138377	Ca6	52138377	AT/ATT	CACAAGGCACCTTGAGA ACGA	AGCAAATGGCAGGATC TTTG	60.0	233	INTERGENIC	--	--	--
Ca6_P1_52138932	Ca6	52138932	ATA/ATACTA	CAAAGATCCTGCCATT TGCT	ATCCAATGTGATGGGT CCAC	60.2	933	INTERGENIC	--	--	--
Ca6_P1_52141802	Ca6	52141802	ATATTATTATTATTATTATTATTAT TATTATT/ATATTATTATTATTATTATTA TTATTATTATTATTATT	TGTTCGAATCCGTTCT TTGA	CCTCTTGAATGTTTGG GGTG	59.2	591	INTERGENIC	--	--	--
Ca6_P1_52144985	Ca6	52144985	TACTATA/TTA	TCAGACATGCACTTCA TCCA	CCAATCTCCCAAATTA TAAGCC	58.7	390	INTERGENIC	--	--	--
Ca6_P1_52145016	Ca6	52145016	TATAA/T	TCAGACATGCACTTCA TCCA	CCAATCTCCCAAATTA TAAGCC	58.7	390	INTERGENIC	--	--	--
Ca6_P1_52184982	Ca6	52184982	CT/CTCTATAT	TTTCTTTTGTAGGGGA CCACA	TATACAAGCAACGGGG CTCT	59.5	385	INTERGENIC	--	--	--
Ca6_P1_52329133	Ca6	52329133	CTTATTTATTTATTTATTTATTT/CT TATTTATTTATTTATT	TCACCCCAATCAAG GTGAA	TTGCGTTCTCTTACGC ATCA	60.2	990	INTERGENIC	--	--	--
Ca6_P1_52454692	Ca6	52454692	TG/T	TGTTAGTTGGAGGTGG AGGG	GCTGCTTAGTTGTTAT GATTGGC	60.0	860	INTRON	Ca_17536	--	--
Ca6_P1_52477923	Ca6	52477923	TTTATTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTATT/TT TATTATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTATTA TT	TGCGATTGAATAGATG TGCC	ACTTTGGAGGAACGAC TTGG	59.7	733	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_52486383	Ca6	52486383	GTTTTTTTTTTTTTTTT/GTTTTTTTT T	GTTCCATGCTGCCTTT TCAT	AGAGGAAGCAGCCAC TGTGT	60.1	271	INTERGENIC	--	--	--
Ca6_P1_52486696	Ca6	52486696	ATTTTTTTTT/ATTTTTTTTT	AGGCCATCACATTCTT TTTG	CACCTTGGGGACGTCA AGTT	59.9	449	INTERGENIC	--	--	--
Ca6_P1_52486796	Ca6	52486796	ATTTTTTTTT/ATTTTTTTTT	AGGCCATCACATTCTT TTTG	CACCTTGGGGACGTCA AGTT	59.9	449	INTERGENIC	--	--	--
Ca6_P1_52486837	Ca6	52486837	TA/T	AGGCCATCACATTCTT TTTG	CACCTTGGGGACGTCA AGTT	59.9	449	INTERGENIC	--	--	--
Ca6_P1_52517688	Ca6	52517688	TT/TTATAAAAAGGGAAT	TTGTCATAGGCATCG ACCA	TGTGAATGGCCTTAAA AGCA	60.1	608	INTERGENIC	--	--	--
Ca6_P1_52522417	Ca6	52522417	CTTTTTTT/CTTTTTTT	TGCAAAATCAATTTCAA TCAGG	GGGCCTTTTAGGTCCA TACC	59.9	480	INTERGENIC	--	--	--
Ca6_P1_52529525	Ca6	52529525	TAAAAAAAAA/TAAAAAAAAAAAAA	CCCCAGGTGCAATAGA GAAA	TCGCCTACTCACGGAT TTTT	60.1	278	INTERGENIC	--	--	--
Ca6_P1_52666640	Ca6	52666640	CTGGGCTTGGGCTTGGGCTTGG/CTG GGCTTGGGCTTGG	AGGTTGGGATGATTGG GATT	GGGGAAACCACTCA AGATT	60.4	629	INTERGENIC	--	--	--
Ca6_P1_52669647	Ca6	52669647	TTTATTATTATTATTATTATTATT/T TTATTATTATTATTATTATTATT	TGATGATAATCGGTGT CCCA	AGTTGGAGGTCACCTAG CCCA	59.7	372	INTERGENIC	--	--	--
Ca6_P1_52676255	Ca6	52676255	GATATATATATATATATATATAT/GA TATATATATATATATATATATAT	ATGGGTATAAGTACCC GCGA	TGTGTCCATCCCTAAA ACGA	59.3	223	INTERGENIC	--	--	--
Ca6_P1_52763491	Ca6	52763491	A/AGGTTAT	CGTCCAGGCAATGTA GGTT	GCCCTCAGATGAGAGT CAGG	60.0	577	INTERGENIC	--	--	--
Ca6_P1_52774565	Ca6	52774565	AATATATATATATATATATAT/AATA TATATATATATATAT	CGGTGAATCCTTTACG GAGA	GCGAGTCAATCCGGTA AAAA	60.1	569	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_52848807	Ca6	52848807	ACTCGCT/A	CTGCCAAATACTGCGA CTCA	TCAATTTTGCTTGTAG GATGGA	60.0	381	INTERGENIC	--	--	--
Ca6_P1_52850074	Ca6	52850074	ACTAATTTCTAATT/ACTAATTTCTAAT TTCTAATT	TCTGATTCGTTAATGA CAACCTTT	CGTGGGAGCAATTATG TCCT	59.1	218	INTERGENIC	--	--	--
Ca6_P1_52850184	Ca6	52850184	TA/T	AGGACATAATTGCTCC CACG	TCCATCTCCAACAACA TCAAA	60.0	305	INTERGENIC	--	--	--
Ca6_P1_52858643	Ca6	52858643	GTATCTATCTATCTAT/GTATCTATCTA TCTATCTAT	CTGCAACACCATTTTT GTGG	TTTGCTGAAAGCATGT TTGTTT	60.0	689	INTERGENIC	--	--	--
Ca6_P1_52859293	Ca6	52859293	ATATATTATATT/ATATATT	AAGTGAATCCACCTT CCCA	CGAGCCTCCAACCTTCT CTTG	59.4	560	INTERGENIC	--	--	--
Ca6_P1_52862596	Ca6	52862596	T/TTATAA	ACATGAAGGCTTGGGT TGAC	GAGGAGCATGATAGC AAGGC	60.0	193	INTERGENIC	--	--	--
Ca6_P1_5287896	Ca6	5287896	TAAA/TA	CCGAAGAAAAGAAAGC AACG	AGTGCGGAGCGAGGA TACTA	60.0	518	INTERGENIC	--	--	--
Ca6_P1_52889876	Ca6	52889876	ATT/ATTT	TAAAGGACCAAGTCGG GAAA	TGCTCATGGAGTTAGA AGCAA	59.5	471	INTERGENIC	--	--	--
Ca6_P1_52890257	Ca6	52890257	TT/TTTGT	TTGCTTCTAACTCCAT GAGCA	TTATTTGGGTGCATGA GCAA	58.7	413	INTERGENIC	--	--	--
Ca6_P1_5289663	Ca6	5289663	ATTTTTTTTT/ATTTTTTTT	TCAACACTACAACATT ACCAACG	TTTTTCGGTAGGGAGAA ACGA	59.0	569	DRR	Ca_05770	--	--
Ca6_P1_52897673	Ca6	52897673	CATATATATATATATATATATATATATA TATATATAT/CATATATATATATATATA TATATATATATATATAT	TTTTTGCTTTCATTTGT TGCG	TTGATCCTTCGATTTTT GAATG	58.9	838	INTERGENIC	--	--	--
Ca6_P1_52922254	Ca6	52922254	CTTCCTTT/CTTCCTTTGTTTTCTTTC CTTT	TGGAATTTGGGTTTT GCTC	ATTTTGGCTCGGAGGT TTTT	59.9	403	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_5295925	Ca6	5295925	TTTATTATTATTA/TTTATTATTATTA TTATTATTA	TTGACATTTCAAACCG GTCTAT	TGGAAAAGACTCCTGA ATATGGA	58.5	359	INTERGENIC	--	--	--
Ca6_P1_52996524	Ca6	52996524	CATTTT/CT	CTCCGTCATCGCCATA ATTT	TTTCGGTGATTCAAA AGCC	59.9	891	INTERGENIC	--	--	--
Ca6_P1_53146233	Ca6	53146233	TTATATATATATATATATATATAT/TT ATATATATATATATATATATATAT	AGAGGGGTGCATGTTT AAAG	TTCTTTACGGCTGGT ATGC	60.1	586	INTERGENIC	--	--	--
Ca6_P1_53200464	Ca6	53200464	ATATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTAT T	CCGTGTGAATTGTGAT TTTCA	TCTGAGGGAAGTTTC CACG	59.4	814	INTERGENIC	--	--	--
Ca6_P1_53237470	Ca6	53237470	AATATATATATATATATATATATATA /AATATATATATATATATATATATAT ATATA	TCTGACTTTGGAGTTT TCACG	AGGGCACCTTCCTATT CTCC	58.0	628	DRR	Ca_22920	V	ERF
Ca6_P1_53305336	Ca6	53305336	ATTTTTTT/ATTTTTTTTT	CAAGATTCGTGGTGC AAGA	TTGAGGACAAAAGCTG CTGA	59.8	660	INTRON	Ca_22925	G	--
Ca6_P1_53311252	Ca6	53311252	AT/ATT	GATGGTGGCCATTGAA GAGT	CAACAGTGTATGCACC TGCC	59.9	721	INTERGENIC	--	--	--
Ca6_P1_53312302	Ca6	53312302	AAAAATAAAATAAAATAAAATAAA/AA AAATAAAATAAAATAAAATAAA A	ATAGCAATTGGTGCAT CCCT	ATGACCAAGGCATTGA GGAC	59.4	761	INTERGENIC	--	--	--
Ca6_P1_53314507	Ca6	53314507	AATTATT/AATTATTATT	TCGGGCTCAGAAAAAT CAAC	AAGGATTGGTGGGGT AGCTT	60.2	500	INTERGENIC	--	--	--
Ca6_P1_5333051	Ca6	5333051	TTATATATATATATATATATAT/TTAT ATATATATATATATAT	AAC TAGTGGGTAACCC GTGC	TGGAGTCATGTTTTTC ATACGTG	59.0	211	INTERGENIC	--	--	--
Ca6_P1_53413835	Ca6	53413835	ATT/ATTT	CGTCATTGGGGGACT AAAA	GAGTTCGGGAGTAGG GAAGG	59.8	978	INTERGENIC	--	--	--
Ca6_P1_53466632	Ca6	53466632	CACATATACATATACATATACATATAC ATAT/CACATATACATATACATATACAT AT	CGGGCTAGGCTAAAA ATTG	CACGTCTCAACCCAAA ACCT	60.1	249	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_53495788	Ca6	53495788	CATATATATATATA/CATATATATATA	GCAACAATTGCAACAA GTCA	ACCGGGGAAGTTACC AATTC	58.3	361	INTERGENIC	--	--	--
Ca6_P1_53650737	Ca6	53650737	TA/TAA	AAATGACAACCTCATTTT GTTGAGAA	TTAGAAACCTCACCGC CAAT	59.1	565	INTERGENIC	--	--	--
Ca6_P1_53680637	Ca6	53680637	CATATATATATATATATATATATATAT/ CATATATATATATATATATATATATATA T	TCTATGGCACTTGGAG CCTT	AATTTCATGTCTTTT GCCC	59.8	667	INTRON	Ca_18901	--	--
Ca6_P1_5373990	Ca6	5373990	TTATATATATATATATATATATA/TTATA TATATATATATATATATATA	TTCAAAAATTTGGGAAA AATTC	GCGATTCCCGACACA GTAGT	57.3	442	INTERGENIC	--	--	--
Ca6_P1_53780329	Ca6	53780329	GATTAATTAATTAATTAATTAATTAATT AATTAATTAATTAATT/GATTAATTAAT TAATTAATTAATTAATTAATTAATTAAT T	CACACCCTCTCAAGGT GGAT	TCGAATGGTTGATAAA ATTAACG	60.0	723	INTERGENIC	--	--	--
Ca6_P1_53799025	Ca6	53799025	ATTT/ATTTT	GGCCCAATATTTGAAA CCCT	CAACTGCAAAGACCC ATCA	60.0	704	INTERGENIC	--	--	--
Ca6_P1_54035440	Ca6	54035440	ATCA/ATCAATTCTCA	TGGCATGCGGTACAAC TATC	GGATGCAACGTGAAT ACCA	59.6	326	INTERGENIC	--	--	--
Ca6_P1_54068748	Ca6	54068748	CCATCAT/CCAT	GTAAGTGAAAGCGGGA GTGC	ACCACCAACTTGCTTG CTCT	59.9	527	INTERGENIC	--	--	--
Ca6_P1_54068881	Ca6	54068881	TAATATAAAAA/TAATATAAAATATAA AAA	GATCCCAACCATCATT GTCC	ACCACCAACTTGCTTG CTCT	60.0	258	INTERGENIC	--	--	--
Ca6_P1_54068968	Ca6	54068968	GA/GATA	GATCCCAACCATCATT GTCC	ACCACCAACTTGCTTG CTCT	60.0	258	INTERGENIC	--	--	--
Ca6_P1_54069131	Ca6	54069131	ATTTT/ATTTTTT	GATCCCAACCATCATT GTCC	AATTACCACGGCCTCT TGTG	60.0	824	INTERGENIC	--	--	--
Ca6_P1_54069165	Ca6	54069165	AATATATATATATATATATA/AATATAT ATATATATATATATATATA	GATCCCAACCATCATT GTCC	AATTACCACGGCCTCT TGTG	60.0	824	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_54070088	Ca6	54070088	ATT/ATTT	GCAATTGTCGTGATT TATTTTGG	TTTTGGTGGGTTCCAC TTTT	59.8	379	INTERGENIC	--	--	--
Ca6_P1_54070236	Ca6	54070236	TAAAA/TAA	TTTCTTTCCTCATGCTT TAGAGG	TTTTGGTGGGTTCCAC TTTT	59.1	123	INTERGENIC	--	--	--
Ca6_P1_5408451	Ca6	5408451	GAATAAAAAATAAAAAATAAAA/GAAT AAAAATAAAAAATAAAAAATAAAA	CCATAGTCCGGCATT ATT	CCTAAGTTGGTCATCC AACCA	59.8	926	INTERGENIC	--	--	--
Ca6_P1_54095987	Ca6	54095987	CAAAAAAAAAAAAA/CAAAAAAAAAA A	TTTTCCGACTTGGTC CTTT	TTTTCCACGTGAGCA TCAA	58.7	466	INTERGENIC	--	--	--
Ca6_P1_54105701	Ca6	54105701	CTA/CTATCCACAGTGTGAGTATA	TGACTCCAAACCCCTC CAAC	TGACTTGGTGCCAGAA CTGA	59.9	543	DRR	Ca_16264	O	--
Ca6_P1_54108101	Ca6	54108101	TAATAAAATAAAATAAAATAAA/TAA TAAATAAAATAAAAT	TTTGTGCTACATGGGT GAGTG	AATCCGTGCATTAGA GCATT	59.6	838	INTERGENIC	--	--	--
Ca6_P1_54142635	Ca6	54142635	TAAAAAAAAAACAAAAAAAA/TAA AAAAA	AACCGCAATTTTGAAC GAAC	TTCTCGTGATTTTCGA TCCC	60.0	543	INTRON	Ca_16267	--	--
Ca6_P1_54143384	Ca6	54143384	T/TAA	CCAAGAGATATACGGG GCAA	TGAAAGTCTGATCCGA TCTAATAGT	59.9	623	INTERGENIC	--	--	--
Ca6_P1_54143529	Ca6	54143529	CTTTTTTT/CTTTTTTTTT	CCAAGAGATATACGGG GCAA	GCGGCCGATAAGTAA GACAT	59.9	772	INTERGENIC	--	--	--
Ca6_P1_54143633	Ca6	54143633	AATATATA/AATATATATA	CCAAGAGATATACGGG GCAA	CGACAAACAAACCGC ATAA	59.9	907	INTERGENIC	--	--	--
Ca6_P1_54145424	Ca6	54145424	AATTATTA/AATTA	GCAACTGTGTCCCAT AGCA	AGTTCAACTTTTGGC CACTT	59.7	472	INTERGENIC	--	--	--
Ca6_P1_54147546	Ca6	54147546	T/TG	ATCTCTGTCCGTCGAC ATCC	ACGGCCAATCAATTC TGAC	60.1	207	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_54149753	Ca6	54149753	CTTTTTTTTT/CTTTTTTTTT	CAAAAGGGTGGACGAC AAAT	TGGGAGAGTGGTTCG AAAA	59.8	318	DRR	Ca_16268	--	--
Ca6_P1_54158111	Ca6	54158111	CTTTT/CTTT	ATTCGAAACCATCGGA ACTG	TTGGTGTTCGAAAATG AAAA	59.9	588	INTERGENIC	--	--	--
Ca6_P1_54158243	Ca6	54158243	ATTTTGAATTTT/ATTTT	ATTCGAAACCATCGGA ACTG	TTGGTGTTCGAAAATG AAAA	59.9	588	INTERGENIC	--	--	--
Ca6_P1_54159041	Ca6	54159041	T/TA	TTATTGCCAGCTACA CACG	CGCGTAATTGTTATTG ACCG	59.9	597	INTERGENIC	--	--	--
Ca6_P1_54159332	Ca6	54159332	ATAAAT/ATAAATTTAAAT	TGTGATCCCTCTCTT CACTTG	CGCGTAATTGTTATTG ACCG	59.3	520	INTERGENIC	--	--	--
Ca6_P1_54160975	Ca6	54160975	AAATAT/AAATATTAATAT	TTGATTGACAATTTTC ATTGCTT	TCAGTTTCCGGTTTC TTGC	59.9	703	INTERGENIC	--	--	--
Ca6_P1_54163864	Ca6	54163864	CAA/CAAA	CACACGTTGGTAGTCG TTCG	TTTGTGGCGTGTGTT TGTT	60.2	809	INTERGENIC	--	--	--
Ca6_P1_54164396	Ca6	54164396	AC/A	AACAAACACACGCCAA CAAA	GCCAATTGAAAGAAAA CGGA	60.1	345	INTERGENIC	--	--	--
Ca6_P1_54192734	Ca6	54192734	ATTTTTTTT/ATTTTTTTTT	GGACGGCGAAAATAAA ACAA	TTGAAAATGGCTAAGG CAAAA	59.9	642	INTERGENIC	--	--	--
Ca6_P1_54193024	Ca6	54193024	GTATATATATATATATATA/GTATAT ATATATATATATA	GGACGGCGAAAATAAA ACAA	TGGAGAGCGTTGAAG ATGAA	59.9	918	INTERGENIC	--	--	--
Ca6_P1_54218852	Ca6	54218852	ACTTAGTCTTAGTCTT/ACTTAGTCTT	AAGTGGAGGTGTGCT CGCT	TATATTTCCGCCTTGC CAAC	59.9	373	INTERGENIC	--	--	--
Ca6_P1_54259137	Ca6	54259137	TAAAAAAAAA/TAAAAAAAAA	CGGGCATCATATTTAA CAACAA	TCTATCGGGGGACAG ATAAGT	59.7	660	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_54320493	Ca6	54320493	CTTTTTTT/CTTTTTTTT	CTCCAATATTCCTCTC GGCA	TGACACGAGAAATGTC CCAA	60.2	724	INTERGENIC	--	--	--
Ca6_P1_54322468	Ca6	54322468	ATTTT/ATTT	CAACTGCACAAAGCCA AAAA	GGCGGAGGTGAAGAT TCATA	59.9	404	INTERGENIC	--	--	--
Ca6_P1_54333447	Ca6	54333447	CTATTAGAGTATTAG/CTATTAG	GTGCTTGACATTATGG GGCT	ATCATACAAAGGCACC CTCG	60.0	490	INTRON	Ca_16289	O	WRKY
Ca6_P1_54339331	Ca6	54339331	GTA/G	TTCAGGGACATGATGG TCAA	TACGGGGTTGGGGAT AATTT	59.9	876	DRR	Ca_16289	O	WRKY
Ca6_P1_54339604	Ca6	54339604	GAGGATCA/GA	ATCATGCGTTTCTCAC ATGC	TACGGGGTTGGGGAT AATTT	59.7	216	DRR	Ca_16289	O	WRKY
Ca6_P1_54339840	Ca6	54339840	CAAAAA/CAAAA	TAAATTATCCCCAACCC CGT	CTGATGAGCTTTCGGT GCTT	60.3	205	INTERGENIC	--	--	--
Ca6_P1_54339929	Ca6	54339929	TC/T	AAATTATCCCCAACCC CGTA	TCATTGGACTCTCATC CTCTCA	60.3	628	INTERGENIC	--	--	--
Ca6_P1_54341513	Ca6	54341513	T/TCTCTC	GATGTTGGGTCGCTTT CAAT	AAAACCAACACTGCCA AAGG	59.9	688	INTERGENIC	--	--	--
Ca6_P1_54342158	Ca6	54342158	TC/TCC	CCTTTGGCAGTGTTGG TTTT	TCTCGATTGCAATTGT TTTCC	60.0	647	INTERGENIC	--	--	--
Ca6_P1_54342850	Ca6	54342850	GTTTTTTTT/GTTTTTTTT	CAATTGCAATCGAGAA CACC	TTCTGTTAGAAGAGTA GCTGGGG	59.1	674	INTERGENIC	--	--	--
Ca6_P1_54343074	Ca6	54343074	TAAA/TAA	TTGTTGGTGTGTTGTC GTATCA	TTAATGTGTTGGCTTT CGCA	59.0	700	INTERGENIC	--	--	--
Ca6_P1_54343232	Ca6	54343232	AATATATATA/AATATA	CATTGTAACGACGAAC AAAACAA	TTAATGTGTTGGCTTT CGCA	60.0	504	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_54343594	Ca6	54343594	AT/ATT	AATATGCGAAAGCCAA CACA	GCCGTTTTCCATTGTG ACTT	59.2	631	INTERGENIC	--	--	--
Ca6_P1_54343638	Ca6	54343638	TAAAAAAAAA/TAAAAAAAAAAAAA	AATATGCGAAAGCCAA CACA	GCCGTTTTCCATTGTG ACTT	59.2	631	INTERGENIC	--	--	--
Ca6_P1_54344060	Ca6	54344060	C/CTT	AAGTCACAATGGAAAA CGGC	AGGAACTGTAGCAGC CTCCA	60.0	564	INTRON	Ca_16290	R	--
Ca6_P1_54344134	Ca6	54344134	ATTTTTTT/ATTTTTTTT	AAGTCACAATGGAAAA CGGC	AGGAACTGTAGCAGC CTCCA	60.0	564	INTRON	Ca_16290	R	--
Ca6_P1_54345721	Ca6	54345721	T/TC	AAGGCTTCAAGTTGG CTGA	GATAGGGTGCAAAATC GCAT	60.0	780	INTRON	Ca_16290	R	--
Ca6_P1_54355679	Ca6	54355679	GTTTTTTTTTTTT/GTTTTTTTTTTT	GGCATGCCCTTGTTGA AGAT	AGGGCGGAATACAAT GAAAA	60.0	410	DRR	Ca_16292	--	--
Ca6_P1_54712565	Ca6	54712565	AAAACAA/AAAACAAACTAA	GCATACCCCTGGTAA TTGCTC	TGCTAGAAATAGAATT TGGCACA	59.9	352	INTERGENIC	--	--	--
Ca6_P1_54718594	Ca6	54718594	CG/C	AAAGTTGTGCATCCGT TTCC	TCCGCAAGCTGAATC AATG	60.0	528	INTERGENIC	--	--	--
Ca6_P1_54873740	Ca6	54873740	TTAATAATAATAATAATAATAATA TAATAATAATAA/TTAATAATAATAATA ATAATAATAATAATAATAATAATAA	GACCGGTGACCAATGG TAGT	GGTTTGACTCGGCTTG ACTC	59.7	580	INTERGENIC	--	--	--
Ca6_P1_54912817	Ca6	54912817	GATATATATATATATATATATATATA TATATATATATAT	CAATTCGAGCACAAAA TGGA	TTAGCAAGGCAAAACAA GCG	59.7	841	INTERGENIC	--	--	--
Ca6_P1_5493692	Ca6	5493692	GAATAATAATAATAATAATAATAA TAATAATAATAATAATAATAATAAT AATAATAATA/GAATAATAATAATAA ATAATAATAATAATAATAATAATAA TAATAATAATAATAATAATAATAAT AATAATA	GAAAAGGACTTCGCAA GACG	TGTGTTCCCATTTCTCC AACTC	60.0	823	DRR	Ca_05752	--	--
Ca6_P1_54952283	Ca6	54952283	TTATATATATATATATATATATATAT AT/TTATATATATATATATATATATAT AT	CCATTGTAACCCCCA AATTTTA	TTTCCTCATTTCTTC GTGG	59.9	937	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_55081555	Ca6	55081555	TTATATATATATATATATATAT/TTAT ATATATATATATATATATATAT	GCTTTTCAATGAGCG CTGT	TACGAACCTCACAAAC CACA	60.5	691	INTRON	Ca_21214	E	TALE
Ca6_P1_55119409	Ca6	55119409	CAATAATAATAATAATAATAATAAT AATAATAATAATAATAATAATAATA /CAATAATAATAATAATAATAATAA TAATAATAATAATAATAATA	CTTTGGGAGCATAAAG CAGC	CAACGAGATGTTTACC GACTCA	60.0	594	INTERGENIC	--	--	--
Ca6_P1_55143076	Ca6	55143076	A/AAAGAGTGTAAGGTAAT	ATAAAGCCTCGCGATG AAGA	CACCAATACGGGTTA CGTC	59.9	466	INTERGENIC	--	--	--
Ca6_P1_55145116	Ca6	55145116	CCT/CTAGCCCTCCTCT	GACAAACCGTGGAAC CAAT	GGAGCGACACGATCT AGAGG	59.7	328	INTERGENIC	--	--	--
Ca6_P1_55168995	Ca6	55168995	AATATATATATATATAT/AAATATA TATATATATATAT	TGGTTGGTCCTTGAA GAAA	TAGATCCCGAATAGCC CAAC	60.5	546	INTERGENIC	--	--	--
Ca6_P1_5518626	Ca6	5518626	AATATATATATATAT/AAATATATATA TATAT	AAAATGTGGAACACCA AAAGAAA	TTTCTCGAATGAAATT CCCG	59.8	493	INTERGENIC	--	--	--
Ca6_P1_55206601	Ca6	55206601	G/GAGGCTTAA	TTGCACAAGCTTCAGT TGCT	CACCAAAAATGCCCT CTTA	59.8	165	INTERGENIC	--	--	--
Ca6_P1_55397963	Ca6	55397963	TAAA/TAA	TTGCCACAACTTTTGTA CACG	GATGGGGTCACTGTTT TGCT	59.7	477	INTERGENIC	--	--	--
Ca6_P1_55406743	Ca6	55406743	TT/TTTAGCAT	TTCATCGTGCTCTCCT GTTG	TTTTTGGGGTCGTTTT ATGC	60.0	569	INTERGENIC	--	--	--
Ca6_P1_55445568	Ca6	55445568	GTT/GTTGTTATT	AATCACGCGAATCCAC AAAT	AATTCTACCCTCCCC ACAC	60.3	582	INTERGENIC	--	--	--
Ca6_P1_55445634	Ca6	55445634	TAAAAAAAAAAAA/TAAAAAAAAA	AATCACGCGAATCCAC AAAT	AATTCTACCCTCCCC ACAC	60.3	582	INTERGENIC	--	--	--
Ca6_P1_55446083	Ca6	55446083	AG/A	TGAGAGTGTGGGGAG GGTAG	TTTATGTGAATAAATG ACGTTGC	60.1	523	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_55471469	Ca6	55471469	AAGA/AA	CTTTCACCTTGCAGCT CGTG	GAAATTGCTCTGCAT GGCT	59.8	475	INTERGENIC	--	--	--
Ca6_P1_55490592	Ca6	55490592	A/AC	CAAAAGAATGTGAGGG GACAA	CTCCAATGTGCGTCTC TTCA	60.0	179	INTERGENIC	--	--	--
Ca6_P1_55490894	Ca6	55490894	T/TTAATAC	TGAAGAGACGCACATT GGAG	TGTCGGTTACTAAACA TGATGGA	60.0	542	INTERGENIC	--	--	--
Ca6_P1_55500580	Ca6	55500580	AATATATATATATATATATAT/AATATA TATATATATATAT	CAAGTTGGGCTACTTT CACACA	TCAAATCTTGGTCTCC AACAAA	60.2	865	INTERGENIC	--	--	--
Ca6_P1_55540809	Ca6	55540809	TAAAAAAAA/TAAAAAAAAA	TGTTTGCAGAACAGC AGAGA	ACTTCCTCTCACTACG CCGA	59.8	548	INTERGENIC	--	--	--
Ca6_P1_55609436	Ca6	55609436	A/AG	GCCTGAAATCTTGAC ACAA	CTCAAATCGAACCTC CAAA	59.8	657	INTERGENIC	--	--	--
Ca6_P1_55625193	Ca6	55625193	AATATATATATATATATACATATA TATATATATATATATATATATA/A ATATATATATATATATACATATAT ATATATATATATATATATATA	TGTGGTGATATTTTCG TGTGTG	TCGTTGCATACCAGAA CCAA	59.4	643	INTERGENIC	--	--	--
Ca6_P1_55650234	Ca6	55650234	TAA/TAAA	ACACGTTTTGTTGTG GCAA	TCATTGACCAATTTTC CGGT	60.1	329	INTERGENIC	--	--	--
Ca6_P1_5571254	Ca6	5571254	AATATATATATATATATATATATA TATATAT/AATATATATATATATAT ATATATATATATATATATAT	CATTGTAAATCAACATG ATAGGAACA	TCAAACCCCATTCCT TGTA	59.3	730	INTERGENIC	--	--	--
Ca6_P1_55769150	Ca6	55769150	C/CT	TCGATTATGCGTAGGG AAGG	TTTTTCCTTTGTAGGC CCAA	60.1	943	INTERGENIC	--	--	--
Ca6_P1_55771133	Ca6	55771133	GTC/GTC TTC	GGAAACGTGTGAACGG AAGT	GGTAACCAATCCGAAG ACGA	60.0	575	INTERGENIC	--	--	--
Ca6_P1_55771190	Ca6	55771190	TAT/TATCGTCTTCGGAT	TTACCGATGCATTGAT CGAC	GGTAACCAATCCGAAG ACGA	59.5	143	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_55771649	Ca6	55771649	TAAAAAAAA/TAAAAAAAAA	GGATTGATTATCCGAT GCGT	GAACGCGAGATATTGG GTGT	59.8	544	INTERGENIC	--	--	--
Ca6_P1_55781099	Ca6	55781099	GTTTT/GTTTT	AGAAGGCTACCACTAC GCGA	ATCGACTCCCGAACTC AAAA	60.0	500	INTERGENIC	--	--	--
Ca6_P1_55804236	Ca6	55804236	A/ACTAAAACTCTCGTAAGG	CCAAACTCGCACTTT GACA	CGTTAGTGGTGACCGT GATG	59.9	572	INTERGENIC	--	--	--
Ca6_P1_55845096	Ca6	55845096	T/TG	AGTTCACCCCTCGTTG TTTG	TTGCGACTACCTCTTT CACG	60.0	769	INTERGENIC	--	--	--
Ca6_P1_55847701	Ca6	55847701	ATTT/ATT	AGCCCATACGGATGCT CTAA	TGGGAAGATTGACTTG GAGG	59.7	487	INTERGENIC	--	--	--
Ca6_P1_55876495	Ca6	55876495	TTAATAATAATAATAATAATAA TAATAATAATAA/TTAATAATAA TAATAATAATAATAATAATAAT AATAATA	ACATCTGCCACATTG ATGA	CTTTCAAAGTCAGCGG GAAC	59.9	567	INTERGENIC	--	--	--
Ca6_P1_55987809	Ca6	55987809	AATATATATATATATATATATATA TATATATAT/AATATATATATATATAT ATATATATATATATATATATAT	TTCAAGTTCATTAAAC TCAACG	AAAGTTGACTCATATC AAAACCA	59.0	390	INTERGENIC	--	--	--
Ca6_P1_56037300	Ca6	56037300	TTTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTAT TATTATTA/TTTATTATTATTATTAT TATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTA	TCGTCTTAAGTGTCCA CAAAGAA	AACCACCATTTTGGGT TGAA	58.9	603	INTERGENIC	--	--	--
Ca6_P1_56048704	Ca6	56048704	CTTT/CTT	AAAAACAGGTTGTGCG GAAG	AATGGCCACGAATCTG AAAG	60.1	374	INTERGENIC	--	--	--
Ca6_P1_56061319	Ca6	56061319	ATTTATTTTTATTTT/ATTTATTTTTA TTTTATTTT	TTTGGTTGACGCATGT GTTT	ACCAACGCCATTTTCA TTGT	60.0	737	INTERGENIC	--	--	--
Ca6_P1_56087656	Ca6	56087656	CTTT/CTTTT	TTGTGAGCATGAGAAG TTGTTG	TGAAAAATTATTGAAAA AGTTACTTCC	59.0	737	INTERGENIC	--	--	--
Ca6_P1_56087684	Ca6	56087684	CAGA/CA	TTGTGAGCATGAGAAG TTGTTG	CAATTACTCGGTAGTG TCAATCCA	59.0	872	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_56087703	Ca6	56087703	ATT/AT	TTGTGAGCATGAGAAG TTGTTG	CAATTACTCGGTAGTG TCAATCCA	59.0	872	INTERGENIC	--	--	--
Ca6_P1_56139090	Ca6	56139090	AGG/AAACACAAATTGG	ACCCCTCTCACCCCTCT TGAT	TCCTCATCATTCCCTC CTTG	59.9	387	INTERGENIC	--	--	--
Ca6_P1_56176058	Ca6	56176058	GTGAAGGAGTTTG/GTG	GACTTGGACCTTGGTT TCCA	CCCATCCCTACATGCC ATAC	59.9	305	INTERGENIC	--	--	--
Ca6_P1_56191156	Ca6	56191156	CAAAATAAATAAATAAATAAATAA A/CAAAATAAATAAATAAATAA	TCGATTATGCGTAGGG AAGG	TCCTTGAGTTTGGGA CACA	60.1	482	INTERGENIC	--	--	--
Ca6_P1_56251819	Ca6	56251819	A/AT	TGCTCATGAAATTCGA GACG	ATGTACTGCCTATCAC GGGC	59.9	593	INTERGENIC	--	--	--
Ca6_P1_56315433	Ca6	56315433	GTATATATATATATATATATATAT ATATATATATATATAT/GTATATATATA TATATATATATATATATATATATATA TAT	TCACCAGCTTGAGGAG GAGT	GCATTGGAGCACTGG AATCT	60.0	404	INTERGENIC	--	--	--
Ca6_P1_56398955	Ca6	56398955	CATCATTATTGTTATAATCATTATTGT TAT/CATCATTATTGTTATAATCATTAT TGTATAATCATTATTGTTAT	TTCTTTTCCTGGTGGC ATTC	AGCGATGCATGTCTCA AGTG	60.1	510	INTERGENIC	--	--	--
Ca6_P1_56411957	Ca6	56411957	CTTTTTTTT/CTTTTTTT	GTAGTGTTGGTTTGTG GGGG	TATATGCTTTTCGATC GGGG	60.1	752	INTERGENIC	--	--	--
Ca6_P1_56413983	Ca6	56413983	ATTT/ATT	TTCAACAATCGCAACC ACAT	CGCGGGTCATGTTCTA GTTT	60.0	376	INTERGENIC	--	--	--
Ca6_P1_5645292	Ca6	5645292	CTATATATATATATATATAT/CTATA TATATATATATATATAT	GTAACCCCAAGAGAGG TGCG	TTCTAAATGGCGACTT TCCA	59.7	923	INTERGENIC	--	--	--
Ca6_P1_56503979	Ca6	56503979	AAACAA/AAA	GTTGGCGCAAACCTCTT CTTC	TGCAACTTTTCAGGTCC CTTT	60.0	583	INTERGENIC	--	--	--
Ca6_P1_56504001	Ca6	56504001	ATTTTT/ATTTT	GTTGGCGCAAACCTCTT CTTC	TGCAACTTTTCAGGTCC CTTT	60.0	583	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected 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_P1_56504140	Ca6	56504140	AAAAGAAA/AAAA	AAATGCAAAGTCGGAT GGTC	TGCGAAGAAGAATGAT CACG	59.9	896	INTERGENIC	--	--	--
Ca6_P1_56504596	Ca6	56504596	CTATA/CTA	CGTGATCATTCTTCTTC GCA	ACGTCCGACTTGCGTC TTAT	59.9	174	INTERGENIC	--	--	--
Ca6_P1_56504753	Ca6	56504753	ATTTTTTTTTTTTT/ATTTTTTTTTTT	CGTGATCATTCTTCTTC GCA	TCGGTCACCAAGTTAC CACA	59.9	614	INTERGENIC	--	--	--
Ca6_P1_56505598	Ca6	56505598	AC/A	TGGTAAC TTGGTGACC GACA	AATTTTTGCAGAAGAA AGAAAAAG	60.0	485	INTERGENIC	--	--	--
Ca6_P1_56506826	Ca6	56506826	TAAAAAA/TAAAAA AAAA	GGGCACTTGTTAGCAT TTCC	TGCGAAGAAGAATGAT CACG	59.6	495	INTERGENIC	--	--	--
Ca6_P1_56507452	Ca6	56507452	TATCA/TA	CGTGATCATTCTTCTTC GCA	ATCCAAACATTGGCCA TTTC	59.9	685	INTERGENIC	--	--	--
Ca6_P1_56507723	Ca6	56507723	GTTTTTTTTTTTTT/GTTTTTTTTTTTTT	CGTGATCATTCTTCTTC GCA	CTCCCAATTTGCAGTG TCCT	59.9	966	INTERGENIC	--	--	--
Ca6_P1_56507798	Ca6	56507798	CA/CAA	AAATTCAAGTCTCGAC GCAAA	CTCCCAATTTGCAGTG TCCT	59.9	511	INTERGENIC	--	--	--
Ca6_P1_5651856	Ca6	5651856	CATATATATATATATATATATAT/CATA TATATATATATATATATATATAT	TATAATCTGGGGTGGG TTGC	CCGACCGAGTCAATCA AAAT	59.6	522	INTERGENIC	--	--	--
Ca6_P1_5652511	Ca6	5652511	TACACACACACACACACACACACACACACAC/ TACACACACACACACACACACACACACACACAC	CTCACGCAAAACAAGCC ATTA	CAATTCAATGTGCGTT TTAATTT	59.9	588	INTERGENIC	--	--	--
Ca6_P1_56566505	Ca6	56566505	TTTATTATTATTATTATTATTATTATTATTATT TTATTATTATTA/TTTATTATTATTATTATTATT TTATTATTATTATTATTATTATTATTATTATTATT	ACAACATGAAACCACG ACCA	AACCACTTGAGCACCC AAAC	59.9	864	INTRON	Ca_17394	E	--
Ca6_P1_56595831	Ca6	56595831	GTTTTTTTTT/GTTTTTTTTTT	TGGGAATGCATATTCA AATCAA	CACACACACGTAACGT TTTTCA	60.2	368	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected 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_P1_56608130	Ca6	56608130	TGGG/TGG	AAATACCCTTTTCCGT GGC	GTGCCGTCTCCATATG AGGT	60.2	483	INTERGENIC	--	--	--
Ca6_P1_56608497	Ca6	56608497	GTTTTTTTT/GTTTTTTTTT	ACCTCATATGGAGACG GCAC	TTGAACATGCATTCCG AAAA	60.0	357	INTERGENIC	--	--	--
Ca6_P1_56713561	Ca6	56713561	ATT/ATATTT	TTACAGTTGGAAC TTG CTTG	TTTTTGTGATT CAGT GGCA	59.9	833	INTERGENIC	--	--	--
Ca6_P1_56727392	Ca6	56727392	TAA/TAAA	AGGCCAAACATGTTCC CTCA	AATGTTAGTGCACCGT GTCG	60.5	706	INTERGENIC	--	--	--
Ca6_P1_56748962	Ca6	56748962	ATTTTTTTTT/ATTTTTTTTTT	TTTCGTGCTGTGATTG AAGC	TTTTTCAAGTGCAAGC CAAT	60.0	725	INTERGENIC	--	--	--
Ca6_P1_56775193	Ca6	56775193	TTTATTATTATTATTATTATTATTA/ TTTATTATTATTATTATTATTATTATTA TTA	CGTGTGCGAACTTGCT TAAA	GAATCCCTGGTTCACA GCAT	60.1	279	INTERGENIC	--	--	--
Ca6_P1_56788457	Ca6	56788457	GAAAAAAAAACAAA/GAAAAAAAAAA CAAAAAAAAAAACAAA	TTTTGTCACCTCAACC CCTC	TTGTTGCCCATTC TTT TTCTG	59.9	475	INTERGENIC	--	--	--
Ca6_P1_56797374	Ca6	56797374	GTATTATTATTATTATTATTATTAT TATTATTAT/GTATTATTATTATTAT TATTATTATTATTAT	TGTCATCGTAGGGAGA AGGG	GGTGATTGTCGAGTG ACCA	60.1	629	INTERGENIC	--	--	--
Ca6_P1_56834830	Ca6	56834830	TAAAAAA/TAAAAA	TCGTGAGAAAGCGCTG TAAA	TGCATATCACTACGCG AAAAA	59.8	476	DRR	Ca_17421	--	Trihelix
Ca6_P1_56874982	Ca6	56874982	AAATAATAATAATAATAATAATAAT AATAATAATAA/AAATAATAATAATAAT AATAATAATAATAATAA	TGGAATGATGATTTTAT GCATATTT	TTATTTTGACGTTTTC CGC	58.7	725	INTERGENIC	--	--	--
Ca6_P1_56969869	Ca6	56969869	CAAAAAAAAA/CAAAAAAAAA	AACTGGAGCCTACCGG AAAT	AATCCATCCATCATAA GGGG	60.0	249	INTERGENIC	--	--	--
Ca6_P1_56987936	Ca6	56987936	ATTTTTTTT/ATTTTTTTTTT	TGAATGCACCCTTTGA CTGA	CCGTCAAAAGAAAACA TAGGTCA	60.2	725	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected 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_P1_57009761	Ca6	57009761	CATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATA TAATAATAA/CATAATAATAATAAT AATAATAATAATAATAATAATAATA ATAATAATAATAATAA	AATTAGAGCCGGCAAG ACCT	GGCCTAAAGCCTTCA AAAA	60.2	711	INTERGENIC	--	--	--
Ca6_P1_57055878	Ca6	57055878	ATTTTTTT/ATTTTTTTT	TCCAAATGAAGCAAGA TCAAAA	GCGGAAAGAAACAAAT CTCAA	59.7	600	INTERGENIC	--	--	--
Ca6_P1_57058024	Ca6	57058024	TAAAAAA/TAAAAAAA	AGGTTACGGTTAAAT TTGGA	CAGATCGAATCGGATT TTGAA	58.5	351	INTERGENIC	--	--	--
Ca6_P1_57093681	Ca6	57093681	GTAATAATAATAATAATAATAATA/ GTAATAATAATAATAATAATAATA ATA	CCTAATTGAACGGCTA TCGAA	GCAAAAGACGAGGAG TGGTC	59.2	585	INTERGENIC	--	--	--
Ca6_P1_57117976	Ca6	57117976	AATATATATATATATATATATATATA TATATA/AATATATATATATATATAT ATATATA	TTTCATGTGCGTGTGA GTGA	TCAACCAATCAACAA TTTGACA	59.9	519	INTERGENIC	--	--	--
Ca6_P1_57132721	Ca6	57132721	CAAAAAAAAA/CAAAAAAAAA	ACAAGATCGGAGGGA GGAGT	TTTTGTGGTTTTGGTT CGTG	60.1	580	INTRON	Ca_17439	--	--
Ca6_P1_57156334	Ca6	57156334	TATAATAATAATAATAAT/TATAAT AATAATAATAAT	TGGTCGATACACGACG TACC	TTCGAGCACCTAATT TGGA	59.4	612	INTERGENIC	--	--	--
Ca6_P1_57240614	Ca6	57240614	AATTATTATTATTATTATTATTATT ATTATTATTATT/AATTATTATTATT ATTATTATTATTATTATTATTATT	CTTCGTTGACTGCACC TTCA	GCAACTTTCTTGCAAT GGGT	60.0	538	INTERGENIC	--	--	--
Ca6_P1_57284439	Ca6	57284439	AATATATATATATATATATATATATA TATAT/AATATATATATATATATATAT ATATATATATATATATAT	CTTTACCACCTTCATTC GCC	GGGTGAACAGTGAATT AGAATCG	59.6	645	INTRON	Ca_13708	G	NAC
Ca6_P1_57312939	Ca6	57312939	G/GATA	TCGATAGCGTGTCAAT GCTC	CGACGCTTGATCGTTA ATTG	60.0	574	INTERGENIC	--	--	--
Ca6_P1_57312997	Ca6	57312997	T/TAA	TCGTTTCGCAATGACT TCTG	CGACGCTTGATCGTTA ATTG	60.0	329	INTERGENIC	--	--	--
Ca6_P1_57321551	Ca6	57321551	GATAATAATAATAATAATAATAAT AATAATAATAATAATAATAATAAT/ GATAATAATAATAATAATAATAAT AATAATAATAATAATAATAATAATA AT	CTCCATTGCTTCCATT CGTT	TCATTTAAGGTGACCT CGGG	60.1	360	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/P1)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_57357615	Ca6	57357615	CG/C	GCTAAATGGTTGTCTA GGTACTTCAA	TCCCGCAATATCGGAG TAAG	59.2	184	INTERGENIC	--	--	--
Ca6_P1_57359203	Ca6	57359203	TAAAAAAAA/TAAAAAAAA	TTCGGTGCCATAAATT GTGA	TTGCTGTTAACTCGGA CACG	59.9	669	INTERGENIC	--	--	--
Ca6_P1_57374295	Ca6	57374295	AATATATATATATATATAT/AATATA TATATATATATATAT	GGATCACCCGTGAAAG TGAT	TGAAACTTGGAAGATA AGGACCA	59.8	828	INTERGENIC	--	--	--
Ca6_P1_5746075	Ca6	5746075	CTATATATATATATAT/CTATATATA TATATATATAT	GTGGATGGATTCAACG TTCC	CCATCAGCGCATACTA GCAA	60.2	650	INTERGENIC	--	--	--
Ca6_P1_57490883	Ca6	57490883	ATTTTT/ATTTTT	CAAGCATCATGTCGAG CCTA	CTTGTCGGGTACCTC GTGT	60.0	621	INTERGENIC	--	--	--
Ca6_P1_57503133	Ca6	57503133	TTATATATATATATATATATATATAT ATATATATATATATATAT/TTATATAT ATATATATATATATATATATATATAT ATATATATATATAT	GTTCTTGGGTGTGGGA GTGT	GACTCAGGGCAATGG AAGAA	59.9	420	INTRON	Ca_13696	J	C3H
Ca6_P1_57588554	Ca6	57588554	TTATATATATATATATATATAT/TTA TATATATATATATATATATATA	TGGTCTTACTTTGT CTAATTCACG	GCCCCCTCTTCTCTA CAAC	60.1	625	INTERGENIC	--	--	--
Ca6_P1_57648762	Ca6	57648762	CATATATATATATATATATATAT/CA TATATATATATATATATATAT	AACATTTGTTGAGAGT GTGACAA	CAGTTAACGCAACTAA TAGTGTTC	57.3	320	INTERGENIC	--	--	--
Ca6_P1_57809432	Ca6	57809432	TAAAAAAAA/TAAAAAAAA	ATGGCAGTGGCATAGT AGGG	CTCGGATTCAAAGGGT TGAG	60.0	508	INTERGENIC	--	--	--
Ca6_P1_57845287	Ca6	57845287	AATATATATATATATATATATATATA TAT/AATATATATATATATATATATAT ATATATATAT	GGCTAAACGAGTTCAA GGCA	TCCTTAACCAATACGG TCGC	60.4	660	INTERGENIC	--	--	--
Ca6_P1_58084151	Ca6	58084151	TAAAAAAAA/TAAAAAAAA	GGCTACATCGCCATCA TCTT	TCAAGTCGATCCCATC AAATC	60.1	770	INTERGENIC	--	--	--
Ca6_P1_58085881	Ca6	58085881	AATATATATATATATAT/AATATATA TATATATATATAT	TGATTTGATTCTCAAT TCCTG	CTTTGGTTGGTAGCTT TGGG	59.0	704	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_58144378	Ca6	58144378	GATATATATATATATATATAT/GA TATATATATATATATATATATAT	CACCAATTGCGTGTGA TAGG	TTAGGCAACTGTATTG CCCC	60.0	827	INTERGENIC	--	--	--
Ca6_P1_58164188	Ca6	58164188	A/AGGAAATTT	GCCCTGTTGCAGGTTA TTGT	TCTTCAGCCTCACCAG AGGT	60.0	384	INTRON	Ca_13624	U	--
Ca6_P1_582030	Ca6	582030	AATATATATATATATA/AATATATAT ATATATATATA	AAAAATCGAAGATCTTTC ACAAAA	TGGCCTAATCTTTGTG GGAC	57.2	264	DRR	Ca_13279	O	SRS
Ca6_P1_58285192	Ca6	58285192	AT/ATATATATATATTT	TTTTTAAAGATGTCTT CGACAA	CAGCATGATTGGTGA ATGC	58.0	449	INTERGENIC	--	--	--
Ca6_P1_58346262	Ca6	58346262	TCC/TC	TTGACTTTCAAACCT GGGG	ACCCAGATCGTTGGAG ACAC	59.9	496	INTERGENIC	--	--	--
Ca6_P1_58373671	Ca6	58373671	GATATATATATATATATATATA/GAT ATATATATATATATATATATATA	TCACGCAAAAGATTCA TAAAGA	AGTTTGTAAAGCTGTGC GTCG	58.9	500	INTERGENIC	--	--	--
Ca6_P1_58523123	Ca6	58523123	TTATATATATATATATATATA/TTATA TATATATATATATATATATATA	TTTTGGAACAAATCTA ACGGAA	GACACGAGCCTCACCA AAGT	59.9	238	INTERGENIC	--	--	--
Ca6_P1_5853411	Ca6	5853411	GTATTATTATTATTA/GTATTATTATTA TTATTATTA	TCGAACATAACACCTC GCAG	TCCGGTTACATTCCTT CTTTTG	59.9	467	INTERGENIC	--	--	--
Ca6_P1_58562567	Ca6	58562567	A/ATATC	CTTGTGGGCTATGGCT GTTT	AGAGCAGGGATGCAA GTTGT	60.7	403	INTERGENIC	--	--	--
Ca6_P1_58597676	Ca6	58597676	CG/C	CGATCATGCTGCTGT TTTG	TCGTTTCATCTTGAATG TGACAA	60.4	737	DRR	Ca_15402	--	--
Ca6_P1_58646261	Ca6	58646261	GTTTTTTTTTTT/GTTTTTTTTTTTTT	TGGATGCAATGCTACC CATA	TCAAAATTTTCAAACAA AATCCA	59.9	464	INTERGENIC	--	--	--
Ca6_P1_58647704	Ca6	58647704	CTTTTTTTTTT/CTTTTTTTTTT	TGCGAGTTCGCTGTTG TAGT	CAGATTCATTTGCCAC AAACA	59.7	351	DRR	Ca_15410	U	B3

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_58669574	Ca6	58669574	A/AGTG	TGGGTAAAGAAGCCGA AAAA	AAATAGGGGACCGAAA CTGC	59.7	288	INTERGENIC	--	--	--
Ca6_P1_58691212	Ca6	58691212	GTTTTTTTTTTT/GTTTTTTTTTTT	GGCACGTCGTAGGCTT ACTT	GGGTAGCCTAAGGTC CAGG	59.4	835	INTERGENIC	--	--	--
Ca6_P1_58758402	Ca6	58758402	ATTTTTTTTT/ATTTTTTTTTTT	TGGTCTGGCCTATTCT CACC	GATCCGTCAGTCCCT CGTA	60.1	449	INTERGENIC	--	--	--
Ca6_P1_58783248	Ca6	58783248	ATT/ATTTTT	AAGACCAAAAATTGCC AACG	TGGCAAAGCACTTATA CCGA	60.0	835	INTERGENIC	--	--	--
Ca6_P1_58784343	Ca6	58784343	ATTT/ATT	CAATGTTTGTCCCAT GTTTTG	GCTCTCTTCAATATTA AGCATCGG	60.1	709	INTERGENIC	--	--	--
Ca6_P1_58785175	Ca6	58785175	TTCTCTCTCTCTCTCT/TTCTCTCTCT CTCT	TCAAATATTGATCGCA CAAAAA	TTGTCAAATGCTGTTT GCGT	58.2	522	DRR	Ca_15422	K	MYB
Ca6_P1_58786039	Ca6	58786039	TT/TTAT	GAATACGTCAAATTAA TGCAGTTG	AAGAGGTCGCATCTCA AGGA	59.1	471	DRR	Ca_15422	K	MYB
Ca6_P1_58786172	Ca6	58786172	GAAAAAAAAAAAAA/GAAAAAAAAA	TGTGTACATGGTCGCA TCCT	TTTCCATGAACGAAAA TTTGAA	60.0	564	DRR	Ca_15422	K	MYB
Ca6_P1_58806728	Ca6	58806728	AAA/AAATTAA	GGCTCGAAAGATGGTT GAAG	ATTTATATGAGTGCGG GGCA	59.8	885	INTERGENIC	--	--	--
Ca6_P1_58813483	Ca6	58813483	TTT/TTTCTT	TGATATGTCGTCGGTA ACCTTTT	GACTCGGTGAAGGGC AGTTA	59.8	875	INTERGENIC	--	--	--
Ca6_P1_58820359	Ca6	58820359	AAAA/AAAAAGAAA	GAACAATGACGATGGA AGCA	CTTCAACATTGTGACC CAGC	59.7	602	INTERGENIC	--	--	--
Ca6_P1_58822834	Ca6	58822834	CTTT/CTTTT	GAAGCAACTTTTCCC CCTC	TGCCACGACAGTTTAT CAGC	60.1	210	DRR	Ca_15424	S	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_58834846	Ca6	58834846	GTTTTTTTTT/GTTTTTTTTT	TGAAACGTCAACTTT CGGA	AGGACTTCACCATCAA TTCCA	59.3	292	INTERGENIC	--	--	--
Ca6_P1_58872639	Ca6	58872639	TAAAAAAAA/TAAAAAAAA	CGAACTCAAGTACAAC TTTTTGGA	TGCATTCTCTTGAC TTTCAAT	59.7	865	INTERGENIC	--	--	--
Ca6_P1_58874492	Ca6	58874492	GTATATATATATATATATATATA/ GTATATATATATATATATATATA	TCTCAATGTGATTTAA TGTTCCC	GCCTCTCATGCTGAT TCAC	59.3	671	INTERGENIC	--	--	--
Ca6_P1_58966264	Ca6	58966264	AATATATATATATATATAT/AATATA TATATATATATATATAT	TCAGCCTAAGCAGATG CAAA	CAATCCACAGGTAC GCTT	59.7	414	INTERGENIC	--	--	--
Ca6_P1_58989792	Ca6	58989792	A/AAAT	GCCGTCTTCGGTCGTA ATAA	CTGCGAAAATATGTGC ATTG	60.1	297	INTERGENIC	--	--	--
Ca6_P1_59019585	Ca6	59019585	TAAAAAAAA/TAAAAAAAA	TGACCGTGACCTCCCT TATC	CCACTTGCTTTTAAAT GGGG	59.9	367	INTERGENIC	--	--	--
Ca6_P1_59059948	Ca6	59059948	CT/CTTT	ATAGGACGCAAGAAA GCCA	TCCACAACAACCTACG TCCA	59.8	263	INTERGENIC	--	--	--
Ca6_P1_59062415	Ca6	59062415	GAAAAAAAA/GAAAAAAAA	TTGTTGGGCAACAGA TTGA	CACATTACATCCAAG CCAC	60.1	779	DRR	Ca_18867	C	--
Ca6_P1_59093194	Ca6	59093194	ATTTTTTTTT/ATTTTTTTTT	GGAGGCAACCCAACT TATG	TCGCATAATTGGAACG TCAA	59.6	271	INTERGENIC	--	--	--
Ca6_P1_59121959	Ca6	59121959	TAAAAAAAA/TAAAAAAAA	CAAGTCGCTTATGAGC TTGTACC	ACCCAATGACCAAGCA ACTC	60.3	540	INTERGENIC	--	--	--
Ca6_P1_59141300	Ca6	59141300	CAATAATAATAATAATAATAATAAT AATAA/CAATAATAATAATAATAAT AATAATAATAATAA	TTGAATTTGAAATTT GTGCG	TTAAATAGCATTCGCG GTCC	60.0	683	INTERGENIC	--	--	--
Ca6_P1_59184042	Ca6	59184042	TGAAGAAGAAGAAGAAGAAGAA/ TGAAGAAGAAGAAGAAGAAGAAG AAGAAGAAGAA	CAAACTGCCTAATCC CCAA	CGTTTGAGTGGGATGA GGTT	59.9	157	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected 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_P1_59190908	Ca6	59190908	TTATATATATATATATATATATATAT/TTATATATATATATATATATATATAT	TTAATTATCGTCTATCC TTCAATTTTT	TCGGACTTGGTTTAAT TGCC	57.3	932	INTERGENIC	--	--	--
Ca6_P1_59193085	Ca6	59193085	CTTTTTTTTT/CTTTTTTTTTT	ATGGGGTTTACCCATT TGAA	ACATGATGGCAAGACC AAGA	59.0	511	INTERGENIC	--	--	--
Ca6_P1_59254408	Ca6	59254408	GTATATATATATATATATATATAT/GTATATATATATATATATATATAT	GTTGGGCACGTTATC TGTT	TTTGATAACTTTAATTG CATTTTCG	59.9	851	DRR	Ca_18849	--	--
Ca6_P1_59273276	Ca6	59273276	TA/TAAA	TGAAGCTTGTGCCAA GGTA	GGTGAGAATGAAAC GGAGA	59.5	754	INTERGENIC	--	--	--
Ca6_P1_59273311	Ca6	59273311	TA/T	TTTTTGGGCTGAAGCC ATAC	GGTGAGAATGAAAC GGAGA	60.1	359	INTERGENIC	--	--	--
Ca6_P1_59313779	Ca6	59313779	TTATATATATATATATATATATATATATATATA/TTATATATATATATATATATATATATATATATATA	ACGATGACCCGCATAG TTTC	CACCAACAACGAGCAA AATG	60.0	419	INTRON	Ca_18846	I	--
Ca6_P1_59319488	Ca6	59319488	ATTTTTTTTT/ATTTTTTTTT	TTCTTCCTCCATTGG TGAG	GAAATGGCCATGTAC ATCTTT	60.0	754	INTRON	Ca_18846	I	--
Ca6_P1_59336284	Ca6	59336284	TATCAAATAAAAAAAAAATCAAAT/TATCAAAT	TTCCATGTGTACAGTT GTGTCCT	AACACCCCTTCTCGTG TTTG	59.4	620	INTERGENIC	--	--	--
Ca6_P1_59349983	Ca6	59349983	AATATATATATATATATATATATATA/AAATATATATATATATATATATATA	TTTCCATTGCACTCACT CCA	CCTATCATGGCCTGAC CTGT	60.2	777	INTERGENIC	--	--	--
Ca6_P1_59388804	Ca6	59388804	ATTTTTTTTTTT/ATTTTTTTTTT	TAGTGGAAGGGAACAG AGCG	CAGGATCGACTATTGG ATTGG	60.4	622	INTERGENIC	--	--	--
Ca6_P1_59422588	Ca6	59422588	TTATATATATATATATATATATAT/TTATATATATATATATATATATAT	CGGTCAAACCTCATTG TTGC	AGCGAGTCTGCTCCTA AACG	59.2	702	INTERGENIC	--	--	--
Ca6_P1_595167	Ca6	595167	AAATATATATATATATATATGTATGTATATATATATATATAT/AAATATATATATATATATATATATATATATATATATATATATATATATATATATATATAT	TTTGCAATCATCAACCA TTCA	CCTCTGACCAGGATT TCAA	59.9	948	DRR	Ca_13281	Z	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/P1)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_5971753	Ca6	5971753	GATATATATATATATATATAT/GATATA TATATATATATATATATATAT	AGAGAGACGATTGTCA AGGCA	GCTTGTTCACAAGTC ATTCAA	60.0	737	INTERGENIC	--	--	--
Ca6_P1_6016944	Ca6	6016944	AATTATTATTATTATTATTATT/AA TATTATTATTATTATTATT	CTTCCCTTGACCAAA TCCA	TGTTGGCTAAGCATGA CGAC	59.9	597	DRR	Ca_05696	--	NAC
Ca6_P1_6058523	Ca6	6058523	ATTTTTTTTTTTTTTTT/ATTTTTTTTT TTTTTT	TTTCGGGGTTGGTTGA GTAG	TCGTGTGTTTTCCATC CGTA	60.0	464	INTERGENIC	--	--	--
Ca6_P1_6152979	Ca6	6152979	AATATATATATATATATATAT/AA TATATATATATATATATATAT	CCATTAGTTGACCATC GCCT	GAGGACTAGAGGGAG TGCCC	60.0	155	INTERGENIC	--	--	--
Ca6_P1_615343	Ca6	615343	TAATAATAATAATAATAATAA/TA TAATAATAAAAAATAATAATAAAT AATAA	CCGTAGACGCCCTATT TTGA	AATCTATCACCGCCTC GTTG	60.1	815	INTERGENIC	--	--	--
Ca6_P1_6154692	Ca6	6154692	TTATATATATATATATATAT/TTATAT ATATATATATATAT	TTTTCTCGTGCTGAAA ATGTCA	TTGTCGTCTTCGAGTT GTCC	59.8	630	INTERGENIC	--	--	--
Ca6_P1_6158112	Ca6	6158112	GTATATATATATATAT/GTATATATATA TATATAT	GATGAGTGGAAGGAG CCAAA	TGAAAGATAATCCAAT TTTAAATGAGT	60.2	418	INTERGENIC	--	--	--
Ca6_P1_6163420	Ca6	6163420	ATTTTTTTTTT/ATTTTTTTTTT	CCGTCCCTTAGCAAAA TTCA	AAGCAACTATGGCAAA TGGG	60.1	443	DRR	Ca_05680	T	G2-like
Ca6_P1_620794	Ca6	620794	AATATATATATATATATATATATA TATATATATATATATATA/AATATAT ATATATATATATATATATATATAT ATATA	AATAAAAAACAGCGCA TGGTG	GAATACTTTGGCACGC GATT	60.0	366	INTERGENIC	--	--	--
Ca6_P1_6210136	Ca6	6210136	CTTTTTTTTTT/CTTTTTTTTTT	CTGCATTACATTGGTG ACCG	TTGGAAGAGTTGGAGG ACCA	60.0	762	INTERGENIC	--	--	--
Ca6_P1_6319723	Ca6	6319723	CTTTTTT/CTTTTTTT	CATGATGGAAAACATG GGTG	CAGTGGCGTTGGTTA GCATA	59.6	540	INTERGENIC	--	--	--
Ca6_P1_6321313	Ca6	6321313	A/ACCTTTTAAACG	CATTTAAGGGCTCGTG TTAAAGA	GGAAATGGGTTTCAA TTCG	59.7	303	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_6336375	Ca6	6336375	ATAT/ATATGTAT	TTTATCCCACGCAATG TTGA	GTCCCATGGATTGTCT GCTT	59.9	545	INTERGENIC	--	--	--
Ca6_P1_6409588	Ca6	6409588	TTATATATATATATAT/TTATATATAT ATATATATATATAT	TCCACGGCCTCTTGTG TTAT	AGAGCAAGCAAGTTG GTGGT	60.5	581	INTERGENIC	--	--	--
Ca6_P1_6411151	Ca6	6411151	ATAATTTTGTAAATTTTGT/ATAATTT TGTTAATTTTGTAAATTTTGT	GCACTCCCGCTTTCAC TTAC	TTTGGGAAGGGTCAAG AAAA	59.9	929	INTERGENIC	--	--	--
Ca6_P1_6411336	Ca6	6411336	AAT/AATAT	ATCTCGTGGTGCAACA ATCA	TTTGGGAAGGGTCAAG AAAA	60.1	628	INTERGENIC	--	--	--
Ca6_P1_6411391	Ca6	6411391	AATTTATTTATTTAT/AAATTTATTT ATTTATTTATTTATTTAT	ATCTCGTGGTGCAACA ATCA	TTTGGGAAGGGTCAAG AAAA	60.1	628	INTERGENIC	--	--	--
Ca6_P1_6433713	Ca6	6433713	CTT/CTTT	TGTATGCGTTTTTCATC CCA	TCGGAACATATTTTCG CTTC	59.9	197	INTRON	Ca_16912	--	--
Ca6_P1_6447647	Ca6	6447647	TTATATATATATATATAT/TTATATAT ATATATATATATATAT	TAATTCGTGCGTCGTA TGGA	TTTTCATCAATAACATT GAGCG	60.1	219	INTERGENIC	--	--	--
Ca6_P1_6453528	Ca6	6453528	ATTTTTTTTT/ATTTTTTTTT	GAAATGGTATCGCGTC CTGT	TTGTTTATGCGAAGTG ATCG	60.0	524	INTERGENIC	--	--	--
Ca6_P1_6473436	Ca6	6473436	AATATATATATATATATATATATATA TATATATATAT/AATATATATATATAT ATATATATATATATATATATATATAT	TTTGCACATTATTTCC ATTTT	TCCTCCTCTTAGCCAC TGGT	59.0	420	INTERGENIC	--	--	--
Ca6_P1_655178	Ca6	655178	TTATATATATATATAT/TTATATATAT ATATATATAT	CGTGGATGGAGGGTG TATTT	AACTATTACAATTGGA GCCGC	59.7	491	INTERGENIC	--	--	--
Ca6_P1_6583135	Ca6	6583135	ATTTTTTTTT/ATTTTTTTTT	TACGCGGATACGGGT ATGT	AGGACAAATGTGGGAA TTGG	60.2	421	INTERGENIC	--	--	--
Ca6_P1_6584882	Ca6	6584882	ATTATTTTATTTTATTTTATTTTATTTTA T/ATTATTTTATTTTATTTTATTTTATTTT ATTTTAT	AAAGACAAAATTATCCT TGTGATAAAA	GACAAATGAATGAAAG CCCG	57.9	476	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/P1)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_6593507	Ca6	6593507	TTTTATTTATTTATTTATTT/TTTT ATTTATTT	CTACCCACTTTTGC TGAT	AACGGCAAAGATGA CATGC	60.0	285	INTRON	Ca_16920	T	--
Ca6_P1_665721	Ca6	665721	TTATATATATATATATATATAT/TTAT ATATATATATATATATAT	TGGGTCTCATGTCAAG GTCA	TTCAATTTGTTTGGGA GTTAACAA	60.1	479	INTERGENIC	--	--	--
Ca6_P1_6694545	Ca6	6694545	CCTCTCTCTCTCTCTCTCTCTCTCTCT CTCTCT	CGGGAAAAGAAAGCAT CGTA	TACTTTCAAAGGGCC CAGA	60.2	611	INTERGENIC	--	--	--
Ca6_P1_6747248	Ca6	6747248	TAA/TAAA	ACATGATAACCAATGC GGGT	GGGGGTTGAAACGAG GTATT	60.1	509	DRR	Ca_16935	--	NF-YA
Ca6_P1_6754993	Ca6	6754993	AAATAATAATAATAATAATAATAAT AATAAT/AAATAATAATAATAATAATA TAATAATAATAATAATAAT	TTCGGTGCTTTGTCAA TCAA	TTTTGTGTCGCGTTGT TTATG	60.2	737	INTERGENIC	--	--	--
Ca6_P1_6795170	Ca6	6795170	TTATATATATATATATATATAT/TTATAT ATATATATATATATATAT	AACCTTTGACATTGGC TTGG	GCCTGTGTTTGGGAAA AAGT	60.0	843	INTERGENIC	--	--	--
Ca6_P1_6824717	Ca6	6824717	GTT/GT	TGCAATTCTGTATTCTG CCG	GGGTAATGCCCAAAA TCCT	59.8	495	INTERGENIC	--	--	--
Ca6_P1_6862212	Ca6	6862212	ACC/AGAATGAGTTATCC	TGATGATGAGAGCGGA GACA	GGTGGAGCTGTTTATT GGGA	60.5	198	INTERGENIC	--	--	--
Ca6_P1_6917531	Ca6	6917531	GAGAAG/GAG	GGAACGTCATTGGGAA GAGA	GGAGAATCGCCAACCA GATA	60.1	466	INTRON	Ca_16954	KL	G2-like
Ca6_P1_6918472	Ca6	6918472	ATGGGTAGGGT/ATGGGTAGGGTTTG GGTAGGGT	TTGTTCCCAATTGATT TGA	TGATACCAAGAGGGT ACGG	60.1	333	INTERGENIC	--	--	--
Ca6_P1_6920014	Ca6	6920014	GTTTTTTTT/GTTTTTTTTTTTTTTT	CGGGTTTTTACCCTAC CCAT	AAGGTATCCCCCTCCC AAGA	59.9	667	DRR	Ca_16955	--	--
Ca6_P1_6954085	Ca6	6954085	ATACTAACT/ATACT	ACAGCTTCGAACCTTGC ACCT	GCATTCAGTGGTCCAA TGTG	60.1	482	INTRON	Ca_09688	--	NF-YB

[illegible]

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_7495013	Ca6	7495013	GTTGATTTT/GTTGATTTTGATTTT	AGAACCTTGAGGAAGC ACGA	GTGGCGAAATTCGGA TAAC	60.0	521	INTERGENIC	--	--	--
Ca6_P1_7548995	Ca6	7548995	ATTTTTTTT/ATTTTTTTTT	ATTTCTCAACAGGGTG GTGC	GATCGCAAGGGATGAT GAAT	60.0	667	INTERGENIC	--	--	--
Ca6_P1_7553430	Ca6	7553430	CAAAAAAAAA/CAAAAAAAAA	TTCTCTCAAAAGGTGT TTGC	CAAGGGAGTTGCCCTA TCAA	60.1	213	INTRON	Ca_09627	S	--
Ca6_P1_7555065	Ca6	7555065	GGTCTA/GGTCTAGTCTA	GGCATCAACCCCTTT TAAT	TATCCAAGCTGGGAAT GGAG	60.0	746	INTRON	Ca_09627	S	--
Ca6_P1_7558290	Ca6	7558290	TG/T	AATGTTACAAACCAAC GGGC	AGCTTTAGCTTGAGGG GGAG	59.7	798	INTRON	Ca_09627	S	--
Ca6_P1_7568051	Ca6	7568051	GACTAA/GACTAACTAA	TGGGGGAAACTTTGCT ACAC	TTTTGACCATGAGGA GACC	60.0	615	INTRON	Ca_09627	S	--
Ca6_P1_7572118	Ca6	7572118	CTTTTTTT/CTTTTTTT	CTTTGCTAAGGGCGTT TGAG	CCCATGCAAAAGATT GGTT	60.0	536	INTRON	Ca_09627	S	--
Ca6_P1_7583713	Ca6	7583713	TAAA/TAA	TATGCGCGTGATATT TCCA	AATGGGCCAACTCAAG ACAC	60.1	523	INTRON	Ca_09626	C	--
Ca6_P1_7583844	Ca6	7583844	CTCTT/CTCTTCTT	TATGCGCGTGATATT TCCA	AATGGGCCAACTCAAG ACAC	60.1	523	INTRON	Ca_09626	C	--
Ca6_P1_7587726	Ca6	7587726	TC/T	GTGTGATGAAGGATTC GCCT	GATGAGACTTTCCCT AGCCTT	60.1	842	INTERGENIC	--	--	--
Ca6_P1_7587896	Ca6	7587896	TTT/TTTAATT	AGTTGCGATTGTCCGA AGTT	GATGAGACTTTCCCT AGCCTT	59.7	485	INTERGENIC	--	--	--
Ca6_P1_7588100	Ca6	7588100	CTTTTTTT/CTTTTTTTTT	AAGGCTAGGGAAAGT CTCATC	GCTCTCAGTTGAATAG CACGG	58.1	504	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_7588189	Ca6	7588189	TT/TTGCAT	AAGGCTAGGAAAAGT CTCATC	GCTCTCAGTTGAATAG CACGG	58.1	504	INTERGENIC	--	--	--
Ca6_P1_7588595	Ca6	7588595	CAAAAAAAAA/CAAAAAAAAA	TGAGAGCAATCATCAA CAACAA	ACAGACGTGTACAAC GGCG	59.3	318	INTERGENIC	--	--	--
Ca6_P1_7588707	Ca6	7588707	ATTTTTTT/ATTTTTTTT	TTTATTAGACCCCGCT CGATT	ACAGACGTGTACAAC GGCG	59.9	229	INTERGENIC	--	--	--
Ca6_P1_7588781	Ca6	7588781	CTTAT/CT	TTTATTAGACCCCGCT CGATT	ACAGACGTGTACAAC GGCG	59.9	229	INTERGENIC	--	--	--
Ca6_P1_7588870	Ca6	7588870	AAAG/A	TATGAGCACGCCAGT TGTA	CCAAAACTTCCCGA ACAG	60.3	227	INTERGENIC	--	--	--
Ca6_P1_7588987	Ca6	7588987	TAAA/TAA	CGCCAGTTGTACAGT CTGT	CATTCTTTGGACCAC CGTT	59.8	581	INTERGENIC	--	--	--
Ca6_P1_7590083	Ca6	7590083	CAAA/CAAAA	GGCGATGAACATAGT GGTT	ACTATCGTCACCAACC GCTC	59.8	991	DRR	Ca_09625	--	ERF
Ca6_P1_7590103	Ca6	7590103	CGGG/CGGGG	GTGGATGGACGATGAT GTTG	ACTATCGTCACCAACC GCTC	59.8	902	DRR	Ca_09625	--	ERF
Ca6_P1_7592871	Ca6	7592871	GAAGAAA/GAAGAAAGAAA	AGCACGAAAGTTTCCA CCAG	AGAGACGGTATCCGG TGTTG	60.3	646	INTRON	Ca_09625	--	ERF
Ca6_P1_7593280	Ca6	7593280	CAAA/CAAAA	CCTTCTTGCTGGCATT TAGC	TGGCTTAAAGAGATCG GTGC	60.0	477	INTERGENIC	--	--	--
Ca6_P1_7595372	Ca6	7595372	TTATAT/TTAT	CATGGGCATATTACAC CACG	ACGGTGTTGGTGTTC TGGT	59.7	847	INTERGENIC	--	--	--
Ca6_P1_7595504	Ca6	7595504	TA/TATTAATAGTAATAACA	TCTCATCTGAAATGGT CGTAAAA	ACGGTGTTGGTGTTC TGGT	58.8	318	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_7595857	Ca6	7595857	AAT/AATATAT	ACCAGAAACACCAACA CCGT	CCCACCGTAAGATAGC GTGT	60.3	270	INTERGENIC	--	--	--
Ca6_P1_7606703	Ca6	7606703	ATT/AT	TTTCGTGGCATGGAAT ACAA	CCAAAAATTGCCAGC AGTT	59.9	597	INTRON	Ca_09624	R	--
Ca6_P1_7612762	Ca6	7612762	GTTTTTTT/GTTTTTTT	TTTGCATGGATGGTG TGTT	GCAGTTTCTTTGGCAT CCTC	59.8	525	INTERGENIC	--	--	--
Ca6_P1_7612818	Ca6	7612818	ATT/ACTATTTT	TTTGCATGGATGGTG TGTT	GCAGTTTCTTTGGCAT CCTC	59.8	525	INTERGENIC	--	--	--
Ca6_P1_7614382	Ca6	7614382	TGAAGATC/TGAAGATCGAAGATC	TTTGTCTCGTGTGGAA ATAAGAA	CCAGTTTGGAAATCT TTGTGTAGG	60.0	377	DRR	Ca_09622	--	--
Ca6_P1_7620279	Ca6	7620279	TAAAAAAAAA/TAAAAAAAAA	CCTTTTGACAAGCAT TTGA	TTCGTTGATTCCTTTT GCC	59.8	339	INTERGENIC	--	--	--
Ca6_P1_7621519	Ca6	7621519	ATTTTT/ATTTTT	CCAAGTAGGACTGGGC AAAA	GGAGTTAGGGTTGTG CATGG	60.1	590	INTERGENIC	--	--	--
Ca6_P1_7626736	Ca6	7626736	CGGAGGGAGGG/CGGAGGG	TTGAGGCGTCCAAAG AACT	GTACGCTTTTCCCC TTTC	59.9	640	INTRON	Ca_09620	P	--
Ca6_P1_7628156	Ca6	7628156	A/ATC	TTTTCAGAAAGTTTGC GGAC	TGGTTGTGCATGCTAA AGTTG	58.0	833	DRR	Ca_09619	R	WOX
Ca6_P1_7629126	Ca6	7629126	GAAAAAA/GAAAAAA	GAAGCACACCATCCCC TAGC	CTCGGGAACAAGTT GATGT	59.7	212	INTRON	Ca_09619	R	WOX
Ca6_P1_7629625	Ca6	7629625	TGAACGGAACGGAA/TGAACGGAA	CATCAACCTTGTCCC GAGT	GGGATACAGCAGGAC AGGAA	60.0	849	INTRON	Ca_09619	R	WOX
Ca6_P1_7631953	Ca6	7631953	TATTTATTTTAAATTTATTTT/TATTTA TTTTTAATTTATTTTAAATTTATTTT	TGCTTGCTCTAGTTG TTCG	TGACAAAATCTACTG CATGCTT	59.2	653	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_7632106	Ca6	7632106	A/AACT	CGCTTTTGTGTTCACT TGTGA	GGAAGATGTGAATC CAAAAA	59.9	930	INTERGENIC	--	--	--
Ca6_P1_7638969	Ca6	7638969	CATAAAAAATAAAAAATA/CATAAAAA ATAA	AACCACATTTGTTGTC GCTG	TTGGATGTCAACAATG TACACG	59.6	469	INTERGENIC	--	--	--
Ca6_P1_7642427	Ca6	7642427	T/TG	TGCGACCTTTCTTCGT TCTT	TCCGTGTTTATGGAAT GCAA	60.0	729	INTERGENIC	--	--	--
Ca6_P1_7643356	Ca6	7643356	ATTTTT/ATTTTT	TTGCATCCATAAACAC GGA	TGATCAGATAGATATG TTGACCGA	59.9	695	INTERGENIC	--	--	--
Ca6_P1_7644118	Ca6	7644118	ATTTTTTTTT/ATTTTTTTTT	CCAGAGGTGAATCAA TGAGA	GAGGAAGCACGAACG AAGTC	57.7	674	INTERGENIC	--	--	--
Ca6_P1_7644406	Ca6	7644406	T/TG	TGAAAATAAAATCCG GGCA	GAGGAAGCACGAACG AAGTC	60.3	366	INTERGENIC	--	--	--
Ca6_P1_7650683	Ca6	7650683	TTCTTCTCT/TTCTT	ACCTGCACACTGAATT GCAC	ATGAGAGCCAGCACAA AAGC	59.8	266	DRR	Ca_09618	--	--
Ca6_P1_7651996	Ca6	7651996	ATTTTTTT/ATTTTTTT	AATCGACAACAAACGG ACTTT	TGTTTGAGCAAATTTA TGTCATGTT	58.6	254	DRR	Ca_09617	J	FAR1
Ca6_P1_7657887	Ca6	7657887	ACATTAAATCATTAA/ACATTAA	CTGATGAAGTGGCCA AAAT	ACAAATTCTGCGGCTG ATCT	59.9	634	INTRON	Ca_09616	--	--
Ca6_P1_7658418	Ca6	7658418	TTAAAAATAAAAT/TTAAAAATAAAAT TAAAAAT	AGATCAGCCGCAGAA TTGT	CACCCGTGAAACTGTT GATG	59.8	606	DRR	Ca_09616	--	--
Ca6_P1_7661747	Ca6	7661747	T/TTTA	TGGCGTTTTTCGTAAT TAACCTC	TGTGGTTGGGTGCAAA GTAA	58.4	990	INTERGENIC	--	--	--
Ca6_P1_7664765	Ca6	7664765	ACCCC/ACCC	TGGACCCATACTTCAG CTCC	TCCCATACAAAGCTC CGTC	60.1	253	DRR	Ca_09615	J	FAR1

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected 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_P1_7665092	Ca6	7665092	CAAAAAAAAA/CAAAAAAAAA	TGGACCCATACTTCAG CTCC	TCAAGGAAGGGGAGG ACTTT	60.1	904	DRR	Ca_09615	J	FAR1
Ca6_P1_7665250	Ca6	7665250	A/AC	GACGGAGCTTTGTTAT GGGA	TCAAGGAAGGGGAGG ACTTT	60.1	671	DRR	Ca_09615	J	FAR1
Ca6_P1_7679670	Ca6	7679670	AC/A	CAGGGGCTCCAATAC TGAA	TTCCCTCTTTTCA AACC	60.1	539	INTRON	Ca_09613	G	--
Ca6_P1_7679757	Ca6	7679757	TC/TCC	CAGGGGCTCCAATAC TGAA	CGTAGCGATAAACCT GGGA	60.1	902	CDS (FRAME SHIFT)	Ca_09613	G	--
Ca6_P1_7680741	Ca6	7680741	AATTACAATGAAAG/A	AGAGGCACGAGACAA AGGA	ACAAAAATCCCATGCT TCCA	60.0	314	INTERGENIC	--	--	--
Ca6_P1_7685952	Ca6	7685952	AATATATATATATATATATAT/AA TATATATATATATATATAT	CAGGCCATAGTTGAG CATA	GGGTGGTGTGGAGT CATTT	60.0	591	INTERGENIC	--	--	--
Ca6_P1_7686775	Ca6	7686775	GC/GCC	GGAATCTCAGCCAATT CTTGTT	ATTTTCCCTTTGTTG GGAC	59.6	335	INTERGENIC	--	--	--
Ca6_P1_7687872	Ca6	7687872	G/GGACT	GGTTTAAAGGAGGTCT AAATCGTT	TAGTAGTGGTGGTTTC GGGC	58.3	212	INTERGENIC	--	--	--
Ca6_P1_7689459	Ca6	7689459	TA/T	AGAAGTTTCGGTGGAG GGTT	TCCTTGCAGGATGGG TAAG	60.0	733	INTERGENIC	--	--	--
Ca6_P1_7690473	Ca6	7690473	TG/TGG	GGTTCACGCAGTTCAA TGAG	CAAAGTGCCTAACGGA AGAA	59.3	870	INTERGENIC	--	--	--
Ca6_P1_7692254	Ca6	7692254	CTGTGTG/CTGTG	TGTGGACTTTGTTATG TCGCA	TTTTCTCTGAAACAAA CGCA	60.2	440	INTERGENIC	--	--	--
Ca6_P1_7693609	Ca6	7693609	TC/T	TGGGATGGGATGGTA GGTAA	TAGGAATCCAACTCG GTGG	60.0	752	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected 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_P1_7694521	Ca6	7694521	CTTTTT/CTTTTT	TTGGGATGTTGGATGG ATCT	AGCGGGTCTTATCCCA AACT	60.1	416	INTERGENIC	--	--	--
Ca6_P1_7701023	Ca6	7701023	TAA/TAAA	AAACGAACATGGTCAT GGGT	TAGACCAACTCGGCCA TCTC	60.1	595	DRR	Ca_09611	--	--
Ca6_P1_7707527	Ca6	7707527	GTGTTGT/GTGT	TGGGGAAAGAACAGGA TACG	CGATTGGTACCACAAC GCTA	59.9	691	INTERGENIC	--	--	--
Ca6_P1_7708750	Ca6	7708750	ATT/ATTT	CTCATCACACTGGGCA AATG	TGTGACTTCGTCTTCT TCTTTCA	60.1	465	INTERGENIC	--	--	--
Ca6_P1_7713519	Ca6	7713519	TAAGGCAAAAGAAATCAA/TAA	TCACTCAAATCGTTTGT TCCC	TGAGTTTGGTTGATTG TGGAA	60.0	249	INTERGENIC	--	--	--
Ca6_P1_7716479	Ca6	7716479	TGG/TGGG	AGCAAAACATGCAACT CACG	TCCATGGACAGATCCT GACA	59.9	258	DRR	Ca_09608	--	--
Ca6_P1_7721016	Ca6	7721016	CTTT/CTTTT	TTTCTTTGCCCTTTCCC TTT	CCATGCATCCACACTT GTTC	60.0	608	INTRON	Ca_09607	--	--
Ca6_P1_7723105	Ca6	7723105	T/TACTC	CACTTGTAGGCAAGGG AAGC	TAACCAGCCAGGAAAA TTGC	59.9	458	INTRON	Ca_09607	--	--
Ca6_P1_7723583	Ca6	7723583	TG/T	GCAATTTTCTGGCTG GTTA	TGCATGCCGAACCATT ATAG	60.1	431	DRR	Ca_09607	--	--
Ca6_P1_7723827	Ca6	7723827	TGA/TGAGA	CTTCCCACCACCCCT TTAT	GGGTCGGCTCAAGTG TAAAA	60.0	526	DRR	Ca_09607	--	--
Ca6_P1_7727523	Ca6	7727523	GTTT/GTT	TGACCAGCAACACTCC TCAG	GGTTCCTCTTGAAT GTCA	60.0	684	INTRON	Ca_09606	--	--
Ca6_P1_7733689	Ca6	7733689	AAA/AAACAA	CAGACCCCATATGTTT ACCA	CATGCACCAACAATGT TTGAC	59.2	543	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_7735386	Ca6	7735386	ATATATTATATTATATTATTT/ATATAT TATATTATATT	TGATGAGTTCCACCCT GTCA	AAATTTCCATTGGCCA ACAAA	60.1	494	INTERGENIC	--	--	--
Ca6_P1_7737928	Ca6	7737928	TGA/T	AAATCCCATCAACAAT GGC	TTGCTTGAAATAACA ACAAAAA	59.6	517	INTERGENIC	--	--	--
Ca6_P1_7748396	Ca6	7748396	TAA/TA	CTTTTTCACAGGAGCA AGGC	ACATGCCAGGTCACCT ACAA	60.0	415	INTRON	Ca_09604	R	--
Ca6_P1_7758584	Ca6	7758584	CTTTTTTTTTTTT/CTTTTTTTTTT	AACCTTCCACGTGTAA TCCG	TCGTTGTCTCTGCATC CATC	59.9	784	INTRON	Ca_09602	R	SBP
Ca6_P1_7764123	Ca6	7764123	CAAAAAAAAA/CAAAAAAAAAA	GCCGGTTGTATTAAGG AAGAA	GACGTGGAGTGGATAT GTTCTG	58.3	804	INTERGENIC	--	--	--
Ca6_P1_7773242	Ca6	7773242	ATCTCTCCTTCTCTC/ATCTCTCCTTC TCTCCTTCTCTC	CCTTTCCAACATCCAA GCAT	AAGCACAGGGAGAAC AAAGC	59.9	353	INTERGENIC	--	--	--
Ca6_P1_7777409	Ca6	7777409	T/TAAAAGATTAAA	GGCATAATTGTTTTCG CGTT	GAGCTCCCTAAATTGA CCCC	60.0	689	INTERGENIC	--	--	--
Ca6_P1_7778765	Ca6	7778765	TCC/TCCC	TGGGCCCTACAATATT TCTCA	ACGGTGAACCACTTAT GAAGA	59.4	567	INTERGENIC	--	--	--
Ca6_P1_7784752	Ca6	7784752	GNNNNNNNNN/GNN	AATGCGGGAATTGCTT ACAC	CCAAACGAATAACCCA CCAC	60.0	522	INTRON	Ca_09599	--	--
Ca6_P1_7797505	Ca6	7797505	CTTTT/CTTTT	CCGTTTTGTGCCATTA ACCT	GGAAACAATGATGGG GACAC	59.9	584	INTERGENIC	--	--	--
Ca6_P1_7798516	Ca6	7798516	A/AT	TGCATGATCGATTTCC GATA	AAGCGTTGTGGTTGTG GATA	60.0	372	INTERGENIC	--	--	--
Ca6_P1_7798734	Ca6	7798734	ATTT/ATTTT	TGCATGATCGATTTCC GATA	GAGTCATTGGATTGTT TGAAGG	60.0	830	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_7806679	Ca6	7806679	TA/TACA	TCAAGGGATCCCATA ACAA	TTACATTCCCCATTA AGCC	60.1	742	INTERGENIC	--	--	--
Ca6_P1_7808024	Ca6	7808024	AAAAAA/AAAAAAAAAAAA	AAACCAAAACGCAAC ATCC	GGTGGCAAATTGTTTC CAGT	59.8	751	INTERGENIC	--	--	--
Ca6_P1_7811907	Ca6	7811907	GCCTTGCCCTTGCCCTTGCCCT/GCC TTGCCCTTGCCCT	CTAGCACCCATTGGC CTTA	ATGACGAGGCAGTTCC AAAT	60.1	517	INTERGENIC	--	--	--
Ca6_P1_7823908	Ca6	7823908	TA/TAA	TTCCATGTGATTTTGT GGA	CGTCTGAATTGGCAAT CCTT	60.0	618	INTRON	Ca_09596	--	--
Ca6_P1_7826714	Ca6	7826714	GT/GTGTTAAAT	CCAAAACCTTGCATC AATAA	TCACACGCACATAAAT GATTAAGTT	60.0	387	DRR	Ca_09596	--	--
Ca6_P1_7827034	Ca6	7827034	ACATAAAATTC/ACATAAAATTCTTCAT AAAATTC	TTAAATTGTCCGTTTC TTTTCA	ACAAATATGGCCCTCC TTCC	57.9	634	DRR	Ca_09596	--	--
Ca6_P1_7840701	Ca6	7840701	TC/T	GAAATGGAAGCTTTTG GTGC	TCAAACCAAAAACAA AGCC	59.7	192	INTERGENIC	--	--	--
Ca6_P1_7841003	Ca6	7841003	TA/T	GGCTTTGTTTTGGGT TTGA	TTTGACCCCTCTCTCA ATTTTT	60.0	704	INTERGENIC	--	--	--
Ca6_P1_7841423	Ca6	7841423	AT/ATATGT	TTTGTAACCCTTTTCGT TATGC	CCTCGCCAAGCAAGAT TAAG	58.2	628	INTERGENIC	--	--	--
Ca6_P1_7847894	Ca6	7847894	A/AG	TTGCCTTTCATTGCAC TCAAG	TTTTGTACCCCGTTGT GTCA	60.0	461	DRR	Ca_09594	P	MIKC
Ca6_P1_7854608	Ca6	7854608	CATTTATTT/CATTT	ATTGCGGTTGTGAGTT GTGA	GTGGGGGAACCTCAG GTAAT	60.2	831	INTRON	Ca_09591	Q	--
Ca6_P1_7856680	Ca6	7856680	GATATATATA/GATATATA	CCTCGGAGTTCTTTT GTCA	GCAAATGATTGTGGTG CATT	60.2	375	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_7859222	Ca6	7859222	T/TTTAATTGA	CGATGTGTCAAGTCTC GCAT	TTGTTGCACTGTGTGA GTCG	59.9	690	INTERGENIC	--	--	--
Ca6_P1_7860759	Ca6	7860759	TC/T	CGAGGGTGGAGAGTC TCATT	TTGTTGCACTGTGAA TATTTG	59.3	560	INTERGENIC	--	--	--
Ca6_P1_7860852	Ca6	7860852	A/AACACGT	TGATTTCCAAATCTCC CACG	TTTTTGTTTTGAATTC TTGAGT	60.8	572	INTERGENIC	--	--	--
Ca6_P1_7861129	Ca6	7861129	TACCAC/TAC	CAAAATATTCCAACCTGC AACCAA	ACGCCTCCGCTTTTAT TGAT	59.9	556	INTERGENIC	--	--	--
Ca6_P1_7861860	Ca6	7861860	AACCTCAGGCA/AA	GGAGGCGTTGACAATA GTGAT	TATTTGGCGTCGTCTG TCTG	59.1	616	INTERGENIC	--	--	--
Ca6_P1_7862867	Ca6	7862867	TAAAA/TAAAAA	TTTGTGAGTTAGGACG GGTTG	GACTCCCCATTGTAG TGGA	60.0	441	INTERGENIC	--	--	--
Ca6_P1_7870392	Ca6	7870392	ACT/ACTCT	TGTCGGAAACCACTTA TGGA	CCAGAAATGACTCCAC CGTT	59.0	608	INTERGENIC	--	--	--
Ca6_P1_7872493	Ca6	7872493	CTTATTA/CTTA	AATAACGCCACCACTT ACCG	GCTGATATGCAGACCG TTTGA	59.9	915	INTRON	Ca_09590	E	--
Ca6_P1_7881214	Ca6	7881214	TATAATATAATA/TATAATATAATA TAATA	TTTTCGGATCGTTGAC GTTT	AAAGAGTTAAGGGGCA TCCAA	60.5	782	INTERGENIC	--	--	--
Ca6_P1_7892768	Ca6	7892768	AG/A	GGTGTCTCCGTCACGA GTTT	TCCGCTTCAAAAGTTC AACA	60.2	724	DRR	Ca_09586	I	--
Ca6_P1_7895983	Ca6	7895983	CTTT/CTT	ACAAGCCAATGCATAA AGGG	GCAGGTAACCCCTGA GGACA	60.0	565	INTRON	Ca_09586	I	--
Ca6_P1_7896685	Ca6	7896685	GATAT/GATATATAT	CGATATCAAACCCCT GGCT	AAAAATGATGACGTTG GATGC	60.0	691	INTRON	Ca_09586	I	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_7897507	Ca6	7897507	GAAAAAA/GAAAAAA	ATCCAACCTCGTTCG CATC	GGAGGAAATTTATGCC CCAT	59.9	319	INTRON	Ca_09586	I	--
Ca6_P1_7899205	Ca6	7899205	ATTATTTTATTTTATTT/ATTATTTAT TTTATTTTATTTTATTTT	GCACGGGCACCTTATT AGTTA	CCGGATCACCGTATTG AATC	59.2	604	INTERGENIC	--	--	--
Ca6_P1_7899291	Ca6	7899291	TTTTAAAAAAT/TTTTAAAAAATTAT TTAAAAAAT	GCACGGGCACCTTATT AGTTA	CCGGATCACCGTATTG AATC	59.2	604	INTERGENIC	--	--	--
Ca6_P1_7903885	Ca6	7903885	A/AAC	TAGGACCTCCCCACGT TATG	ACACCACAATCAATGG AGCA	59.8	877	INTERGENIC	--	--	--
Ca6_P1_7904891	Ca6	7904891	T/TC	TCCATGGATTGGTG ATTT	TCTCCGATGAGAATGA ATCAAA	60.0	233	INTERGENIC	--	--	--
Ca6_P1_7911757	Ca6	7911757	CTGTGT/CTGT	CCTCAACCTTAAGTC TCCG	CATCCATGCCTCTTCC ATTT	59.9	651	INTERGENIC	--	--	--
Ca6_P1_7912887	Ca6	7912887	GTT/GTTTT	CCTGAAGCTTCTCCC ATCA	CTCCCTCTGTGGTT TTGG	60.3	896	INTRON	Ca_09584	U	M-type
Ca6_P1_7913277	Ca6	7913277	TG/T	TGCATGAATTTGGACG TGAT	TATCTGCAGAACCTC CACC	59.9	622	INTRON	Ca_09584	U	M-type
Ca6_P1_7920707	Ca6	7920707	TAA/TAAA	TTGGATTGCAGCACA AGAG	GAAGGACGGTAACGA CTCCA	60.0	606	INTERGENIC	--	--	--
Ca6_P1_7921429	Ca6	7921429	TAAAA/TAAAA	TGGAGTCGTTACCGTC CTTC	TTGGACGCATTGGTT GATA	60.1	778	INTERGENIC	--	--	--
Ca6_P1_7922060	Ca6	7922060	TAAAA/TAAAA	TATCAACCAATGCGT CCAA	AAAAGATTTAACATA AACCGAGTC	59.9	566	INTERGENIC	--	--	--
Ca6_P1_79328	Ca6	79328	TAAAAAAAAA/TAAAAAAAAA AA	CCAAAACTGGGCTAA CAGC	TTGGTGACGACTCCAT TGAA	59.7	664	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_7933118	Ca6	7933118	AACACTCCAAG/A	TTACCCAAGGCTGCTT GAAC	TTTTATTTTGGCTATG CAACTT	60.2	515	INTERGENIC	--	--	--
Ca6_P1_7934350	Ca6	7934350	TC/TCC	TTTGTGCATTTGACGT AGGA	CGATGTCGTTTGATTC AGAAA	59.2	464	INTERGENIC	--	--	--
Ca6_P1_7935468	Ca6	7935468	ATTTT/ATTTT	TTGTGTGTCATTTGCAG TAAAGC	TTGTGCACACTCGTTA AGTTGA	58.0	428	INTERGENIC	--	--	--
Ca6_P1_7939343	Ca6	7939343	TG/TGGTGATGTTGGCG	GATAAATGTGCAGCTG GGGT	CCTTTGGAGCAAAAGG AACA	60.0	146	CDS (large-effect mutations)	Ca_09580	--	--
Ca6_P1_7943111	Ca6	7943111	CATAAAATAT/CATAAAATATAAAATAT	AGAGTCCGGCTTCTG TTGA	TTCAATATGTTGGAGC AGCG	60.0	566	INTERGENIC	--	--	--
Ca6_P1_7946467	Ca6	7946467	CAT/CATAT	TTTCCACCTTGTAAC CAGC	GGCTATCATCGGAAG GATCA	60.0	653	DRR	Ca_09579	J	--
Ca6_P1_7948041	Ca6	7948041	AA/AAATA	AATTGCCGTTGAAAGT CGAG	GCCTATGGCCAAATG CTTA	60.2	906	DRR	Ca_09579	J	--
Ca6_P1_7954309	Ca6	7954309	TAAAAAA/TAAAAA	CTAACGCGTATACATC GGCA	CACGGTACCACATTGA CGAC	59.7	580	INTERGENIC	--	--	--
Ca6_P1_7955126	Ca6	7955126	ATATTTATTTTATTTATTTT/ATATTT TATTTTATTTT	CCGTGAGATACCGGAG AAAA	TTTTTACGTGGCACAC TAGCTT	60.1	441	INTERGENIC	--	--	--
Ca6_P1_7956383	Ca6	7956383	CTTT/CTTTT	ACTGAGAGGTCCCAAC CCTT	TGAAGGATTGTGATG GGGT	60.0	508	INTERGENIC	--	--	--
Ca6_P1_7956571	Ca6	7956571	TTTCTTTCTTTCTTTCTTTCTT/TTTT CTTTCTTTCTTTCTT	ACTGAGAGGTCCCAAC CCTT	CACGGTAGAGTTTCGT GGGT	60.0	639	INTERGENIC	--	--	--
Ca6_P1_7958310	Ca6	7958310	AATATATATA/AATATATA	CAAATTCAACCCAAAC ACCC	AATACCACATTGCGAG GCTT	60.1	352	DRR	Ca_09578	--	ERF

[illegible]

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_7985102	Ca6	7985102	TTT/TTTAATT	TCAACAGGATTTGCCA ACTG	CACACCACCAACGTT GAAG	59.7	473	INTRON	Ca_09577	G	--
Ca6_P1_7986330	Ca6	7986330	TACA/TACACA	ATCCATTGCTTAATGG CGAG	CCTTCTAGGGGTAGGT GGGA	60.1	731	DRR	Ca_09577	G	--
Ca6_P1_7989323	Ca6	7989323	T/TG	CTTTGGTCACCCATTA TGCC	CAACAGCATTGTTCTG TGGG	60.2	396	INTERGENIC	--	--	--
Ca6_P1_7995646	Ca6	7995646	TTT/TTTGTT	TAACAATTGCGGCAAC AAAA	AAAAGAACTGGCCGTC ACAC	60.1	254	INTERGENIC	--	--	--
Ca6_P1_7996648	Ca6	7996648	GGT/GGTTGAAATGT	CGGATGGAGAAATGT TGAGA	TGGTCTGACTGAATGC AAGC	60.1	707	INTERGENIC	--	--	--
Ca6_P1_8003918	Ca6	8003918	TC/T	CATCCCTAACCCCTAG CTCC	CGGTCTTCACCCACAA ACTT	59.9	828	INTRON	Ca_09574	C	--
Ca6_P1_8008294	Ca6	8008294	TA/TACA	TGTTAGTTGTTGCGCT CTGG	TCCAATGCCATTTAAG CCTC	60.1	549	INTRON	Ca_09573	G	--
Ca6_P1_8008471	Ca6	8008471	TTCAGTTACT/TT	TGTTAGTTGTTGCGCT CTGG	TCCAATGCCATTTAAG CCTC	60.1	549	INTRON	Ca_09573	G	--
Ca6_P1_8019800	Ca6	8019800	ATT/AT	GAGGATGGTTTGGGG ATTTT	TAGTCCTCGGCACTT GTTT	60.0	766	DRR	Ca_09572	R	ZF-HD
Ca6_P1_8021026	Ca6	8021026	AAACAACAACAACAACAACA/AA ACAACAACAACAACA	TGAACTCCACATCAAA CCCA	GTGTGCGGTGAAATTT GTTG	59.9	294	INTERGENIC	--	--	--
Ca6_P1_8027090	Ca6	8027090	ATTTTTTTT/ATTTTTTTT	TCCAGTTTCAATGCTG ATGC	GTGTTCCAAAGGCCAC TGAT	59.8	560	INTERGENIC	--	--	--
Ca6_P1_8031575	Ca6	8031575	CTATATATATATATATATATATAT ATATATATATATATATATATATAT ATA/CTATATATATATATATATATAT ATATATATATATATATATATATATA	GAATGAGCGGAACAG AAAT	TGTTCTGTTGTGAGGT GAAGA	60.1	733	DRR	Ca_09571	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_8031805	Ca6	8031805	TAAAAA/TAAAAAA	TATTTCCTCCCCAAC CAAT	TTTGTTCTGTGTGAG GTGAA	60.4	523	INTERGENIC	--	--	--
Ca6_P1_8032854	Ca6	8032854	AATATATATATATATATATATATATA T/AATATATATATATATATATATATAT ATATAT	TTGCAATACTTTATCCT AGAGCCC	TGGTGAGGGCATCAAT TTTT	60.0	929	INTERGENIC	--	--	--
Ca6_P1_8033050	Ca6	8033050	TAAAAAAA/TAAAAAAA	CCAAATAAATTGCTAAT AACCAAAAA	AAACAATTGGTGAGGG CATC	58.9	755	INTERGENIC	--	--	--
Ca6_P1_8033115	Ca6	8033115	GTTTTTTTTTTTT/GTTTTTTTTTTT	CAATATCATCACATAAA AATGAGAACA	AAACAATTGGTGAGGG CATC	58.5	575	INTERGENIC	--	--	--
Ca6_P1_8033274	Ca6	8033274	TAAAAAAA/TAAAAAAA	AAATAATTGTCATTAC AAAGTCGTC	CCGCTATTGGGCTGTT TATT	57.1	449	INTERGENIC	--	--	--
Ca6_P1_8035424	Ca6	8035424	ATTCTTTCTT/ATTCTT	ACCCACCAATTGTGT TTGT	GTGGGTGGGTGATAG GGTAA	60.0	936	INTERGENIC	--	--	--
Ca6_P1_8040794	Ca6	8040794	A/AG	TGGAGTGAGAAGAAGC AAGGA	AATTTGGGCCATCACA AAAG	60.1	290	DRR	Ca_09569	U	MYB
Ca6_P1_8045861	Ca6	8045861	CTAA/CTAATTAA	ATGCAATTAGTGGGG AAAA	TTTTAATAAACATGGC TTTTTGTTT	59.3	354	INTERGENIC	--	--	--
Ca6_P1_8056410	Ca6	8056410	GTT/GTTTTTTT	AAATTTTGTGTTTTGGGC GTG	ATTCTCCGATCGAATG ATGC	59.8	252	INTERGENIC	--	--	--
Ca6_P1_8072062	Ca6	8072062	CAT/C	TGTCAGCAAAGAGTAG GGCA	CATTGTAATACGGGT GGGG	59.6	225	INTERGENIC	--	--	--
Ca6_P1_8074883	Ca6	8074883	AAT/AATAT	TGATTGAACGTCTGT ACGAATT	TTCCTTCCCTCCTTC CTCAA	59.9	747	INTERGENIC	--	--	--
Ca6_P1_8075760	Ca6	8075760	CTTCATTCTTTCATTCT/CTTCATTCT	GCGTGTGTAATTGGTC ATCG	AGAACAAGCTCTTCGT CCCA	60.0	683	INTRON	Ca_09564	U	Trihelix

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_8076330	Ca6	8076330	TTTTCAATTCATTCA/TTTTCAATTC TTTCATTCA	GACTTTGGAGGAACAC GGAA	TTTCTTGGCCTGCAGT ATCC	60.1	664	INTRON	Ca_09564	U	Trihelix
Ca6_P1_8077664	Ca6	8077664	CTTTTT/CTTTT	AGGTACGTCAAGAAGC TGGC	ATGAGGGCACAAGAAC CAAC	60.2	941	INTRON	Ca_09564	U	Trihelix
Ca6_P1_8080532	Ca6	8080532	AG/AGG	TTAAAAGGGCAACCA AACG	GGGAAGAAGGAATCA GAGGG	60.0	158	INTERGENIC	--	--	--
Ca6_P1_8083667	Ca6	8083667	GTATATATATA/GTATATATA	GTGAAGCCTTGGGAG GTGTA	TTTGCGAAGGGTCTGT TTGT	60.1	858	INTRON	Ca_09563	C	--
Ca6_P1_8085419	Ca6	8085419	ATA/ATACAGTTTA	TTTCCCCGTAGACAC TGAC	TGATAAAAAGACGGAA TCTTTCAA	60.0	565	DRR	Ca_09563	C	--
Ca6_P1_8093284	Ca6	8093284	CTAT/CTATAT	GCCTTTTGCAGGTAA GCAA	TCAACGCCCTGTATGA ATGA	60.4	571	DRR	Ca_09562	S	CAMTA
Ca6_P1_8098645	Ca6	8098645	AAATTTGAATTTGAAT/AAATTTGAAT	TCCGGTTGTTATCCGT TTTT	AATTGTATGGAATGTC TCCGA	59.3	266	INTERGENIC	--	--	--
Ca6_P1_8100005	Ca6	8100005	ATTTTTTTTTT/ATTTTTTTTT	AAAAGAAACAAGTTTG CCCG	CATGGCAAAATCTTTC AAACAA	59.2	675	INTERGENIC	--	--	--
Ca6_P1_8100368	Ca6	8100368	AAAAATAAAA/AAAAATAAAATAAA	AGGTAGGAACATAATG CCTATTTTT	TTACATGGCAAAATC TTTCA	57.3	467	INTERGENIC	--	--	--
Ca6_P1_8100660	Ca6	8100660	AAAT/AAATAAATTAAT	TGAAAGATTTTGCCAT GTGAAC	TCACGGAAACAATTTA TCATGAAC	60.0	344	INTERGENIC	--	--	--
Ca6_P1_8104891	Ca6	8104891	GATCATTCTT/G	GGTTCACCGCCTTCAA ATTA	TCAGTGGTTCATCAGC GAAG	59.9	699	DRR	Ca_09560	J	--
Ca6_P1_8109319	Ca6	8109319	TAAAAA/TAA	CGACAATTATTTTGA CGTTGA	CATCAATGGTGACAGC TTTCTAA	59.9	760	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_8110157	Ca6	8110157	ACTTTAT/A	CCATGATTTTACTTATG CCACC	GGGCACGTGTTCTTTA GTCAA	58.4	742	INTERGENIC	--	--	--
Ca6_P1_8124004	Ca6	8124004	TAACAA/TAA	TGTACTTTTTAAGAGCT TTTGATTGC	GACTCCTTCGTTGGGA AACA	59.5	481	INTERGENIC	--	--	--
Ca6_P1_8127102	Ca6	8127102	CAAAAAAAAA/CAAAAAAAAA	GAAACTCACACACAAC TGCGA	TGACTTATCCACGTCA GATTCAA	59.9	544	INTERGENIC	--	--	--
Ca6_P1_8129670	Ca6	8129670	TAAAAA/TAAAAA	CGGTGGTGAGAAGGA CTCAT	CGATTTTACATTTGAA AGTGAATTA	60.1	593	INTERGENIC	--	--	--
Ca6_P1_8130563	Ca6	8130563	ATTT/ATT	CATACACGTCACCTTG TTTTTACA	CTCTGAACCACTGCTT TTGATG	59.3	630	INTERGENIC	--	--	--
Ca6_P1_8130740	Ca6	8130740	GTTTTCTTTTTTTT/GTTTT	AATGGTATAGCGGAAA ATGTCA	CACCTTTGGGAAATTG GGAT	58.5	513	INTERGENIC	--	--	--
Ca6_P1_8135767	Ca6	8135767	AG/A	TGCATGAGAGCAACCA TAGC	CTCCTTCGTATTTTGC CAGG	60.0	637	DRR	Ca_09556	GE	bZIP
Ca6_P1_8135838	Ca6	8135838	TA/TAA	TGCATGAGAGCAACCA TAGC	GACTATTGCAAAGACC CCCA	60.0	821	DRR	Ca_09556	GE	bZIP
Ca6_P1_8136975	Ca6	8136975	CAGAAGTATAG/CAGAAGTATAGAAGT ATAG	TAGAAGGTGGGGTGAT CTCG	GTTGTTGCTGTTACTG GCGA	60.1	711	INTRON	Ca_09555	P	GRAS
Ca6_P1_8145132	Ca6	8145132	TTTAAAAAATT/TTT	TGTGTGGCGTTAAAGT CGAG	TGTCATGCCGACCAAT TATG	59.9	825	INTERGENIC	--	--	--
Ca6_P1_8145329	Ca6	8145329	TAAAAAAA/TAAAAA	CATGATAAAGATTTCC CATACAAAAA	TGTCATGCCGACCAAT TATG	59.6	484	INTERGENIC	--	--	--
Ca6_P1_8145731	Ca6	8145731	CAATCATAATCATAATCAT/CAATCATA ATCATAATCATAATCAT	CTTGAAGGCACGGAAG AAAC	TCTAACAGAGCACGAA GGCA	59.9	419	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected 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_P1_8151825	Ca6	8151825	TTTTTTTTTTTTTT/TTTTTTTTTT TTTTTTTTTTTT	GGAGGAGGAGAAACAA AGGG	GCTTGCATTTGGGATG AGAT	60.0	665	INTERGENIC	--	--	--
Ca6_P1_8153841	Ca6	8153841	TTATATATATATAT/TTATATATAT	CCATTTGCAAAGGCAT CTTA	GGTCGAAATTACATCG ACAAAA	58.8	563	INTERGENIC	--	--	--
Ca6_P1_8156149	Ca6	8156149	ATCTCTCTCTCTC/ATCTCTCTCTC TCTCTCTC	GTCTCCAGCAGAGCAA AACC	CATGCCAACGAGTCCT TACA	60.0	607	INTERGENIC	--	--	--
Ca6_P1_8156312	Ca6	8156312	AAA/AAATTCGTAA	GTCTCCAGCAGAGCAA AACC	CGTTTGAACACGAAGC TGAA	60.0	874	INTERGENIC	--	--	--
Ca6_P1_8174386	Ca6	8174386	TG/T	AACTCACCGTTGACT TTGC	GAGTGGTGAGCATGC GTTTA	60.2	924	DRR	Ca_09552	K	--
Ca6_P1_8176091	Ca6	8176091	GTGCGTTTATGAT/GT	TGTTGAACCCGAAATC CAAT	AAGGGCCGTCAACACA TAAG	60.2	630	INTERGENIC	--	--	--
Ca6_P1_8194713	Ca6	8194713	TA/TAA	CTTCAACCCGTTTTC CTCA	GATGTCCTGCGTGGTT ACCT	60.1	450	INTRON	Ca_09551	--	--
Ca6_P1_8222819	Ca6	8222819	AT/A	TCATCTGCTGCTGGTT TGAC	CAAATGCCATTGTCAG CAAG	60.0	688	INTRON	Ca_09549	L	--
Ca6_P1_8236355	Ca6	8236355	AGG/AGGG	GTGGATTGGATCACA GCCT	GTGAGTTGGCTGGAAA TGCT	59.9	490	INTRON	Ca_09547	A	--
Ca6_P1_8259286	Ca6	8259286	CATATATATATATATATATATAT/CAT ATATATATATATATATATATATATATAT	GGAACCATGGGTGCTT TTTA	GACATCGGGAAGTGA CAACA	59.8	610	INTRON	Ca_09544	T	YABBY
Ca6_P1_8265196	Ca6	8265196	ATATTATTATTATTATTATTATTAT TATTATTATTATATTATTATTATTATTA TTATTATTATTATT	CTCATCTCAATGTCGC AAGC	TTTTTCGGTCTGAGTC TGTT	59.6	769	INTERGENIC	--	--	--
Ca6_P1_8296691	Ca6	8296691	GGGTCNNNNNN/G	CGGAAGTCGTTTCTC TTGC	TGGTTGAGTCCAACAA AAAGAG	60.0	802	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_8313713	Ca6	8313713	GTTTTTTTTT/GTTTTTTTTT	TTTGACAATCTCATGTT TTGCAG	GGGTCAAAAAGTGTGC AGGT	60.2	730	INTERGENIC	--	--	--
Ca6_P1_8557817	Ca6	8557817	TGAAGAAGAAGAAGAAGAAGAAG AAGAAGAAGAAG/GAAGAAGAA GAAGAAGAAGAAGAAGAAGAAG AGAAGAAG	TTTGGAGACCAATGGT GACA	CTCCGTTTGTAGCGCA AAAT	59.9	783	INTERGENIC	--	--	--
Ca6_P1_8627572	Ca6	8627572	TG/T	TAAATTGGGAGCAAAA TGGC	GACTGCCCTGCCTTGA ATTA	59.9	371	INTERGENIC	--	--	--
Ca6_P1_8640916	Ca6	8640916	ATTTTTTTTT/ATTTTTTTTT	CGAAAAAGTTAACTC CTGCCA	TTTTTCCGACTTGGT CITTT	60.7	667	INTERGENIC	--	--	--
Ca6_P1_8664760	Ca6	8664760	CATATATATATATATAT/CATATATA TATATATATAT	TCCACTCCATCTAACC CTCG	GCGTAACATTATTTAT GGACGA	60.1	477	INTERGENIC	--	--	--
Ca6_P1_8771580	Ca6	8771580	A/ATTCAATACAGTTACAAT	TGACACCACCTCCAAA AACA	GTCGCAAAATCGGAGA AAAA	60.0	733	INTERGENIC	--	--	--
Ca6_P1_8796967	Ca6	8796967	A/AG	GCCAAACAATAGTTGA AACCAG	AACGTTACGCATGAAC CTCC	59.0	588	INTRON	Ca_16754	E	--
Ca6_P1_8824932	Ca6	8824932	TAAAAAAAAA/TAAAAAAAAA	TAGATGCTAGCCCTCC CTTG	TCATTCTTTATTTAATG TTGTTGGAGA	59.4	452	INTERGENIC	--	--	--
Ca6_P1_8904663	Ca6	8904663	GATATATATATATATATATATATA TATATATAT/GATATATATATATATA TATATATATATATAT	TGAATTGCTTCGAACC TGTG	TGCATTTCAAGCTCTC ATGC	59.8	465	INTERGENIC	--	--	--
Ca6_P1_8978015	Ca6	8978015	GTTATTATTATTATTATTATTATTA TTATTATTATTTTATTATTATT/GTTAT TATTATTATTATTATTATTATTATT ATTATTATTATTTTATTATTATT	AGCATGCATAGCATAT GGACA	TGTTGAGAACGAATC CTGA	59.2	528	INTERGENIC	--	--	--
Ca6_P1_9012269	Ca6	9012269	AATATATATATATATATATA/AAT ATATATATATATATATATATATA ATA	CAATAAAATTGGAACAA AACCAACG	GTTGTTGGCTCACAC GATT	59.7	669	INTERGENIC	--	--	--
Ca6_P1_9060428	Ca6	9060428	TTATAAACATATAAAA/TTATAAAA	AAAGTACAATGAGTCA AACCAATTATCC	ATATGCTTCACTTGCC CCAC	58.2	555	DRR	Ca_16733	E	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_909789	Ca6	909789	TTATATATATATATATATATATATATATATATATATA/TTATATATATATATATATATATATATATATATATATA	TCTTGCACTGTTTCTG CATCA	GATCAGGAGTTGGCTT TCCA	60.4	573	INTRON	Ca_13302	R	--
Ca6_P1_9101782	Ca6	9101782	G/GCCA	TTGATAACTTGAAAATG AAATGAAA	GTTTGTGATCGGAGCAA CCAT	57.1	521	INTERGENIC	--	--	--
Ca6_P1_9115132	Ca6	9115132	ATTTTTTTTT/ATTTTTTTTT	CAAAAACGTGAACGGA CAAA	TGTTTTTGGTCCCCGT AAAA	59.6	528	INTERGENIC	--	--	--
Ca6_P1_9126966	Ca6	9126966	ATTTTTTTTT/ATTTTTTTTT	CCACGTTTGTGGTATT TTATCG	CAATGACCAAGAAGT CAAGG	59.3	768	INTERGENIC	--	--	--
Ca6_P1_9128509	Ca6	9128509	CTTTTTTTTT/CTTTTTTTTT	AAACACCAAGGTGAG GCAC	TTTGCATTACGAATT GATGA	60.0	411	INTERGENIC	--	--	--
Ca6_P1_9130006	Ca6	9130006	ATGATTGATTGATT/ATGATTGAT TTGATTGATTGATT	ATTGTGATCGGAGATC GAGG	AAATGTGGTGGAGGCT TGTC	60.0	400	INTRON	Ca_08684	O	Nin-like
Ca6_P1_9163410	Ca6	9163410	AATATATATATATATATATATAT/AA TATATATATATATATATATAT	ATTTATCAAAAGTGTC ATAAAATGC	ACATCTGCCATTGATT TGGG	57.1	902	INTERGENIC	--	--	--
Ca6_P1_9203559	Ca6	9203559	G/GTTATATT	TCGTGAAATAGTGGAC GGTG	TGAACATCAAAATGCC CAAA	59.6	763	DRR	Ca_08676	OT	--
Ca6_P1_9257795	Ca6	9257795	TAAAAAAAAA/TAAAAAAAAA	GCATCCTCGGAAATT TCAA	CACGACAAGTCTCGTG GCTA	60.0	352	INTERGENIC	--	--	--
Ca6_P1_9272159	Ca6	9272159	AT/ATT	AACAAGATCCCACCGA AGTG	TTTGGGATCAAAGCCA GAAC	60.0	679	INTRON	Ca_08671	--	--
Ca6_P1_9306167	Ca6	9306167	ATT/ATTT	GCTCGCATTGAGTAT GTCA	ATGCGAGCTTGATGTC CATA	60.0	341	INTERGENIC	--	--	--
Ca6_P1_9335955	Ca6	9335955	CTTTTTTTTT/CTTTTTTTTT	GCGTTGGAAATTAGCA TGTG	TCCACAACAAAAGCA AAACA	59.2	711	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/P1)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_9347118	Ca6	9347118	GTTTTTTT/GTTTTTTT	TGGCACATGCATAAG GAAA	ACTACTCTATACGCG GGGA	60.1	511	INTERGENIC	--	--	--
Ca6_P1_934734	Ca6	934734	AATATATATATATATATATAT/AA TATATATATATATATATATATAT	CTTCCCATCATGGTGT TTCC	TTCCAACGGGATGTGA AAAT	60.2	819	INTERGENIC	--	--	--
Ca6_P1_9403873	Ca6	9403873	AATATATATATATA/AATATATATAT ATATATA	TTTTGTCGCAATGATA GTTTGA	TAGCGTTCGGAATCTT TCGT	58.4	891	INTERGENIC	--	--	--
Ca6_P1_9472058	Ca6	9472058	CAAAAAAAAA/CAAAAAAAAA	TTTCTTTGGTTCTCCCT TCG	TGTTTAGTACTTTTCC CAATGCC	60.0	498	INTERGENIC	--	--	--
Ca6_P1_9482623	Ca6	9482623	TAAAAAAAA/TAAAAAAAA	GGCAACAACCTCTCA TCCT	ATCTCTTCAGGAGGT CGCA	59.1	623	INTERGENIC	--	--	--
Ca6_P1_9499175	Ca6	9499175	TAAAAAAAA/TAAAAAAAA	AGTCATGGACATGGG GAGT	GGGTAGGACATTGACA AATTGAA	59.2	982	INTERGENIC	--	--	--
Ca6_P1_9507466	Ca6	9507466	TTAATAATAATAATAATAATAATA TAATAATAATA/TTAATAATAATAATA TAATAATAATAATAATAATAATA	GGTCATTTGGACCCTA GGAA	TTACGCAGATTTGCTG TTTTT	58.8	592	INTERGENIC	--	--	--
Ca6_P1_9508249	Ca6	9508249	TTATATATATATATATATATATA/TTA TATATATATATATATATATATA	TTTTGCAAGATGATTGT GGTG	CGTATGTTTAAACGAA TGCAAGA	59.6	284	INTERGENIC	--	--	--
Ca6_P1_9604708	Ca6	9604708	AATATATATATAT/AAATATATATATA T	TTGCGAAAGGGAAAA CATC	GCGAGATCACCGAAG TCATT	60.1	878	INTERGENIC	--	--	--
Ca6_P1_9606829	Ca6	9606829	TAAAAAAAAAAAA/TAAAAAAAAAAAA AAA	CGCTACATGAACTTTG TCACTCA	AAAGGTGATGGTCGAA GGTG	60.4	567	INTERGENIC	--	--	--
Ca6_P1_9623905	Ca6	9623905	CT/C	TCCAAAAACGTCAAAC GACA	AAAAACAAAATCCAT GCCG	60.1	599	INTERGENIC	--	--	--
Ca6_P1_9657524	Ca6	9657524	ATTTTTTTT/ATTTTTTTT	TCACCACAGATATTTTC CATGTG	GACAAATGATGGTGGT GTGC	59.7	627	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_9666045	Ca6	9666045	CTATGATATTGGTGTGAATTATGATATGGTGTGAATTAT/CTATGATATTGGTGTGAATTAT	TATAAGGGAGGATGGG GCTC	TGCATGTTGCCTTCC AAAA	60.2	656	INTERGENIC	--	--	--
Ca6_P1_9734412	Ca6	9734412	TTTA/TTTACTATTATTA	CGTGGCACTCCTATTA ACGA	GCATTCAACGATCAAA TGAAAA	58.8	497	INTERGENIC	--	--	--
Ca6_P1_9873247	Ca6	9873247	CAAAA/CAAA	AACGTGTGAACACAGAC AGGG	AACATCGACCGGATTT AACG	60.0	544	INTRON	Ca_08602	F	--
Ca6_P1_9878542	Ca6	9878542	CAT/CATAT	TTCATATGCATCGCAT CACA	ACGTTTCATTGGTCGG AAAA	59.6	177	INTERGENIC	--	--	--
Ca6_P1_9880749	Ca6	9880749	CAAAATATATAAAA/CAAAA	CCATTCTTGGGATGGT ATGG	TTCTCCCTCAACTTTT CCCTC	60.0	583	INTERGENIC	--	--	--
Ca6_P1_9880942	Ca6	9880942	TTTAATAA/T	CGATTCTGTGCGGATC AATA	TTCTCCCTCAACTTTT CCCTC	61.9	546	INTERGENIC	--	--	--
Ca6_P1_9881176	Ca6	9881176	TCACACA/TCACACACA	TTTTGTGCGATCTCTA GCCA	TTTCTGGCTTTGTCCC TACC	58.4	456	INTERGENIC	--	--	--
Ca6_P1_9881813	Ca6	9881813	A/AC	GCCAGAAATTAACGT AGGGG	TCTTTGTGGCTTGAGC CTTT	59.9	751	INTERGENIC	--	--	--
Ca6_P1_9882800	Ca6	9882800	GTTTTTTT/GTTTTTTTTT	TGTAAGCCCTCTTTAC GGGA	CGAGTCGTCGGTTTTT TTGT	59.7	647	INTERGENIC	--	--	--
Ca6_P1_9883715	Ca6	9883715	AAT/AATAT	CCAACTTTTAAACGCA GTGCT	AAGCTTTGGAATTACC TGTGGA	59.5	392	INTERGENIC	--	--	--
Ca6_P1_9883945	Ca6	9883945	ATTTTTTT/ATTTTTTT	CCAACTTTTAAACGCA GTGCT	TTTCATTACCGCTCAA AGGC	59.5	831	INTERGENIC	--	--	--
Ca6_P1_9884658	Ca6	9884658	AT/ATGT	GCCTTTGAGCGGTAAT GAAA	TCGGAAATTTGAGTC AAGC	60.2	716	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_9890136	Ca6	9890136	CTTTTTTTTT/CTTTTTTTT	AGTCTTCACGTTGGT GTCC	CCTTTCTTCAGCCAA CCAA	60.0	381	INTRON	Ca_08601	--	FAR1
Ca6_P1_9890675	Ca6	9890675	TTTGAT/TT	TGAGCAATCGTCGCAC TTAG	AAATCACAAGACCCA AGCG	60.2	341	INTRON	Ca_08601	--	FAR1
Ca6_P1_9893250	Ca6	9893250	TAA/TAAA	CCGAATCATGGAAGGA GAGA	AACCGCGAAACTTCAT TCAC	60.2	774	INTERGENIC	--	--	--
Ca6_P1_9894814	Ca6	9894814	T/TA	AAATTTCGAAACGCGA GAGA	GGATCTTGCAACGTGG ACTT	60.0	391	DRR	Ca_08600	O	--
Ca6_P1_9898042	Ca6	9898042	CTTTTTTTTT/CTTTTTTTTTT	GCATGCACCATATCCA ACAG	GTGTTGGGTCCGCTTT GTTT	60.0	338	INTERGENIC	--	--	--
Ca6_P1_9900963	Ca6	9900963	CATGAT/CAT	ATGTTGCCAAGGCAGA GAGT	TCGTCGAGGCATCACA ACTA	59.9	928	INTERGENIC	--	--	--
Ca6_P1_9903379	Ca6	9903379	ATTT/ATTTT	TTCGATGTTGCCTAGT CCCT	GTCGTCGAGGCATCAA AACT	59.7	230	INTERGENIC	--	--	--
Ca6_P1_9905316	Ca6	9905316	ATTTT/ATTTT	CATGCATGCCTTGAT TTTG	TAGGGTCCACGCGGT ATATT	60.1	359	INTERGENIC	--	--	--
Ca6_P1_9911021	Ca6	9911021	TAGAAAA/TAGAAATCAGAAAA	TTACGTGGCACCAACT TGAG	TTGCAGCTGTGTGGAA AAAG	59.8	848	DRR	Ca_08599	--	--
Ca6_P1_9913549	Ca6	9913549	AAA/AAATTTGAACAA	AACGATGTCCCGCTAA TCTG	CCGCCCTAAGATCTCT GCTA	60.1	384	INTERGENIC	--	--	--
Ca6_P1_9916324	Ca6	9916324	TCTCCTCCTC/TCTCCTC	ATCTCGAGCTGAAGGT CCAA	TCGGAATTCACCTTTC AACC	60.0	678	INTERGENIC	--	--	--
Ca6_P1_9918700	Ca6	9918700	GAAAAAA/GAAAAAA	TCCTCCTATCCAATACT TCAACG	TCCTAGGGACTTCGTG GTTG	59.5	194	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_9925696	Ca6	9925696	ATATTA/ATA	CCAATTTGGTGTTC TCCT	TCATTTGTGCATGCTG TTGA	60.0	172	INTRON	Ca_08598	--	G2-like
Ca6_P1_9925899	Ca6	9925899	CATTATTATTATTATT/CATTATTA TTATTATT	CCAATTTGGTGTTC TCCT	GGTGAGGACACTCAA TGGG	60.0	448	INTERGENIC	--	--	--
Ca6_P1_9927440	Ca6	9927440	AA/AATTA	TGCAAATCATCATGCA CAAA	CATTCCCCTCTCTTCA AAAGC	59.6	488	INTERGENIC	--	--	--
Ca6_P1_9934996	Ca6	9934996	TA/TAA	AGAAATGGGCCAACT AGCC	TCAAAACGTTGAACAT CCCA	60.5	577	INTERGENIC	--	--	--
Ca6_P1_9935576	Ca6	9935576	CGAGAAAAACAGAGAAAA/CGAGAA AAACAGAGAAAAACAGAGAAAA	TTCATTTCCGTTGCAAA ATG	AATGAAGAATTTGAGC GCGT	59.5	381	INTERGENIC	--	--	--
Ca6_P1_9946035	Ca6	9946035	G/GTAA	TTGAAAATTGATTGATG TCTTGACT	TTAAATATAAGTTCAA TCGACAAATG	59.1	762	INTERGENIC	--	--	--
Ca6_P1_9949458	Ca6	9949458	CATAT/CATATATAT	ATTTAAACCGAACGC GACA	TGCGAGGCACATAGAT TGAG	60.5	693	INTERGENIC	--	--	--
Ca6_P1_9949621	Ca6	9949621	TAAAAA/TAAAAA	ATTTAAACCGAACGC GACA	TGCGAGGCACATAGAT TGAG	60.5	693	INTERGENIC	--	--	--
Ca6_P1_9955037	Ca6	9955037	TAAAA/TAAA	TTCAACGTAAATTCGA GGGG	AGTTGTGACCAATGG ATGG	59.9	335	INTERGENIC	--	--	--
Ca6_P1_9955962	Ca6	9955962	TC/T	CCTCATGCGGTCCTTT AATT	GAAGCAACTCTAATCC CCTCC	60.3	350	INTERGENIC	--	--	--
Ca6_P1_9957991	Ca6	9957991	TAAAAA/TAAAAA	TTAGAGTTAATTTGATG GACAGTGA	AAAATTAAGAGTCT AAGAGCAAA	57.1	525	INTERGENIC	--	--	--
Ca6_P1_9958273	Ca6	9958273	ATTTTTTT/ATTTTTTTTT	TTTGCTCTAGCACTTT TTAATTTT	CATTGAACAAGACGCG AGAA	57.3	530	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_9960473	Ca6	9960473	TATAATAAT/TATAAT	TGTGGAAGTGATGGGA GACA	CTTTGTCGGATGTGCT CAAA	60.1	557	DRR	Ca_08594	O	--
Ca6_P1_9961842	Ca6	9961842	CAAAAAA/CAAAAAA	ACGTTTTCGAATTGGC TCAT	AGAAATCATTCTGTCG TTCC	59.6	366	DRR	Ca_08594	O	--
Ca6_P1_9963991	Ca6	9963991	TAAA/TAAA	ACGGATTACGACGAA GTGG	TTACATTTTCTTAACC ACCCA	60.0	610	INTERGENIC	--	--	--
Ca6_P1_9964418	Ca6	9964418	TAAA/TAAAAA	TGGTGTGTTAAGAAAA TGTGAA	TTAGCATCGCCACAC ATAG	59.4	563	INTERGENIC	--	--	--
Ca6_P1_9975376	Ca6	9975376	C/CA	AAAACCTATTCCAAAA CACAGGT	AAGTAGGACTTTGCAT GGCG	57.4	205	INTERGENIC	--	--	--
Ca6_P1_9976235	Ca6	9976235	ATTTTT/ATTTTTT	CCAAGACTTGACATCG AATCC	CCTCAATTTGATGAGG CATGT	59.5	471	INTERGENIC	--	--	--
Ca6_P1_9987106	Ca6	9987106	CA/CAA	TTGACATCAAAATCGA CAACA	TCACCACACAATCAAA CCCA	59.1	337	INTERGENIC	--	--	--
Ca6_P1_9989005	Ca6	9989005	T/TC	GTTGCTGGACTTGTG GGAT	GAGCAGGAAGGAGGT CTTCA	60.0	711	INTRON	Ca_08593	--	--
Ca6_P1_9996877	Ca6	9996877	ATCTC/ATCTCTC	GGGTTTCATAGAGGGT GCAA	TTCACTCTCCCTCTTG GTCC	59.9	248	DRR	Ca_08593	--	--
Ca6_P1_9999513	Ca6	9999513	AAATAAT/AAAT	TGACACACTTTCATCT GTCGC	TTTTTGGATTAGTCC CCCA	59.9	641	INTERGENIC	--	--	--
Ca7_P1_10007202	Ca7	10007202	TG/T	CGCAACATCTCTTTAC ACCG	AAACCATAACACTCGC AGCC	59.3	853	INTERGENIC	--	--	--
Ca7_P1_10012486	Ca7	10012486	T/TG	GGTAGCCGCAGGTA AGAAT	TGGAATAAACGCTTTA CGGC	60.5	795	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_10016031	Ca7	10016031	CAAA/CAAAA	TAAAAACGCGTACCGA ATCC	GTCGGCTTTTCAAGCA ACTC	60.0	588	DRR	Ca_12767	--	MYB_related
Ca7_P1_10017956	Ca7	10017956	AC/ACC	AGTGTGCGCCCAAAAC ATAG	TATGTTTGACATGCGT CGGT	60.0	819	INTRON	Ca_12767	--	MYB_related
Ca7_P1_10022235	Ca7	10022235	AG/AGG	TTCGTGAACATCCATC CAGA	GACCGTGACTCCATGA GCTT	60.0	233	INTERGENIC	--	--	--
Ca7_P1_10030273	Ca7	10030273	TGG/TG	TTTCAACGGTCCAAT CCTC	GACTCACCACAATGAA TCAACC	59.9	234	INTERGENIC	--	--	--
Ca7_P1_10033527	Ca7	10033527	GTTTTT/GTTTTTTTT	CTCTCATACGGGATGG GTTG	CGTCCCAATTCGACA TCTT	60.3	729	INTERGENIC	--	--	--
Ca7_P1_10033813	Ca7	10033813	GCT/G	ATGTCGAAATTGGGAC GACT	ATTTCTGCACCTCCTC AAGC	59.4	497	INTERGENIC	--	--	--
Ca7_P1_10046644	Ca7	10046644	AAA/AAAGAAGGCAA	CGATCTGACAACCCCA GATT	GGAGTCAGGCTCAGG TGAAG	59.9	901	INTERGENIC	--	--	--
Ca7_P1_10053189	Ca7	10053189	AAT/AATAT	TCCCAAAAGGAGTGTG TTTGA	TGATTATTGGCGTGTG CAAT	59.7	718	INTERGENIC	--	--	--
Ca7_P1_10053360	Ca7	10053360	TTTTTT/TTTTTTTAATAATTTTT	TCCCAAAAGGAGTGTG TTTGA	TGATTATTGGCGTGTG CAAT	59.7	718	INTERGENIC	--	--	--
Ca7_P1_10057468	Ca7	10057468	AG/A	AGGGATGCTACCTCCT ACCA	TTCTTCATGCCTCTC CATC	58.6	514	INTERGENIC	--	--	--
Ca7_P1_10058702	Ca7	10058702	A/AC	TCGCTTTCAAAAATGA GCAA	TTATAGGGCCAGCTTG GTTG	59.6	519	INTERGENIC	--	--	--
Ca7_P1_10061506	Ca7	10061506	CT/CTCTGCAAAATCATAAT	CGCACCTTTCAAGCAT GTTA	CCCATGTGTGTTTTTG GTCA	59.9	314	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_10062875	Ca7	10062875	T/TG	TTTCATTATTGGACTT GATCTTTG	CGCAAGTTGCAATCAA CAAC	58.7	590	INTERGENIC	--	--	--
Ca7_P1_10063103	Ca7	10063103	CTATATATATATATATAT/CTATATA TATATATATAT	GATGCGACGATCTGAA ACAA	CGGTCGTGTGTGGTA GTGAG	59.8	565	INTERGENIC	--	--	--
Ca7_P1_10066743	Ca7	10066743	TAAAAA/TAAAAA	TTCTCTAACGAGAGAA AGGACACA	AAATCCCTTTGACGT TGGG	59.6	355	INTERGENIC	--	--	--
Ca7_P1_10069746	Ca7	10069746	CAAA/CAAAA	CTCAAGCTGAGCCACC AAAT	AAAAAGTTTGGTTTGC CTGG	60.4	610	INTERGENIC	--	--	--
Ca7_P1_10071375	Ca7	10071375	TTATAT/TTAT	CATCGTTGTTGTCCTT GGTG	TTTGGGATTCAGTGAA GGAAA	60.0	871	INTERGENIC	--	--	--
Ca7_P1_10081345	Ca7	10081345	GGT/GGTATGT	TGATCATGTGCTCCAA CACTC	CCACGGCTGCATACAT ACAC	59.7	820	INTERGENIC	--	--	--
Ca7_P1_10095275	Ca7	10095275	TATTAACATTAAACATT/TATTAACATT ACATTAAACATT	GTTCCCTCATGTTCCA CAGC	GGATGCCACTGGTTGA GTTT	60.5	437	DRR	Ca_12773	T	C3H
Ca7_P1_10098401	Ca7	10098401	ATCATCATGGGATTCATCAT/ATCATC AT	GATTTTCCAACATGGG CAAC	TAACTTGCCCCACGT GTCA	60.2	335	INTERGENIC	--	--	--
Ca7_P1_10099355	Ca7	10099355	ATTTTTTTT/ATTTTTTTTT	GTAACGGCCAAAATGA CCAC	AAACTTACCCATTGT GGCG	60.2	159	INTERGENIC	--	--	--
Ca7_P1_10111639	Ca7	10111639	TGG/TG	AAATGATTTTCATGGTA ATGGAAT	GAAGCAACTGTATCGT GGGG	57.8	494	INTERGENIC	--	--	--
Ca7_P1_10112519	Ca7	10112519	GAGAAAGAAAAA/GAGAAAGAAAAATA AGAAAGAAAAA	GGCCGACCCAAGAATT AGAT	TGTTGCTTTTCCCAA ATCA	60.3	923	INTERGENIC	--	--	--
Ca7_P1_10116309	Ca7	10116309	C/CATCAAAAAAATAT	TGCTAGGAGGAAGCAT CGTT	TGAAAAATGCAAGATT GATGTG	60.0	674	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_10117091	Ca7	10117091	ATTTTTTTTT/ATTTTTTTTT	CCTTTTAGGTTGAAAA ACAATTC	ACGGATTGAACGGATT GAAC	57.5	463	INTERGENIC	--	--	--
Ca7_P1_10119011	Ca7	10119011	TTTT/TTTTCTTT	TTTGGCCCGACTTATC TTTG	TAAATCAGGCGGTTTT GGTC	60.1	516	INTERGENIC	--	--	--
Ca7_P1_10121282	Ca7	10121282	CAAAAA/CAAAAA	CGCGAGAACAAATTATG CCTT	TCGATCTTTGCTTCCA ATACA	60.2	466	INTERGENIC	--	--	--
Ca7_P1_10121375	Ca7	10121375	CAA/CA	CGCGAGAACAAATTATG CCTT	TCGATCTTTGCTTCCA ATACA	60.2	466	INTERGENIC	--	--	--
Ca7_P1_10123050	Ca7	10123050	TACA/TA	ATTGACCGGGCACATG TATT	CAAACGATCATTCTAA CACTTCG	60.1	469	INTERGENIC	--	--	--
Ca7_P1_10123569	Ca7	10123569	G/GAGCTT	CGAAGTGTTAGAATGA TCGTTTG	GGTTGAGGTTTGACAG GCAT	58.8	555	INTERGENIC	--	--	--
Ca7_P1_10123898	Ca7	10123898	GATAATATA/GATA	ATGCCTGTCAAACCTC AACC	CGTGTTTGGACAACC ATTG	60.0	605	INTERGENIC	--	--	--
Ca7_P1_10129752	Ca7	10129752	TTC/T	AAACACATGCATTCCC TCAA	GAACATGAGAGGCC ACAAT	59.0	387	INTERGENIC	--	--	--
Ca7_P1_10138374	Ca7	10138374	AAA/AAAGTTGAAACAA	CTACCCCTTCTTTGT GCCA	TCCACCACTACTTTC ACCG	60.1	551	DRR	Ca_12775	--	ERF
Ca7_P1_10142998	Ca7	10142998	TCC/TC	ACGAACACGAAATTGC TTTG	CGTTGCCATCTCTATG TCCA	58.8	874	INTERGENIC	--	--	--
Ca7_P1_10145004	Ca7	10145004	TAA/TAAA	ACGTGGGCTCTTACGA CAGT	AAATCGACTCGGAGT TCCC	59.8	314	INTERGENIC	--	--	--
Ca7_P1_10145153	Ca7	10145153	GCACAC/GCACACAC	ACGTGGGCTCTTACGA CAGT	AAATTGATGCGTGAA AATAACA	59.8	502	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_10145255	Ca7	10145255	CAAT/CAATAAT	ACGTGGGCTCTTACGA CAGT	AAGAACAACAGGTGTC CGGT	59.8	913	INTERGENIC	--	--	--
Ca7_P1_10148920	Ca7	10148920	CTTT/CT	AAGTTTGTAAAATGCC GGTC	AGCTAAAGCCATCCAG AGCA	59.1	327	DRR	Ca_12776	O	--
Ca7_P1_10152891	Ca7	10152891	CTT/CTTT	GCCCATGGTTCTCTAA CTGA	CCGGAATTACCCCTTC AAGT	59.9	825	DRR	Ca_12777	I	--
Ca7_P1_10153488	Ca7	10153488	GTT/GT	GAGCGGCGATGATATT GTTT	TGGTTCGTATATTGGG CCAT	60.1	549	DRR	Ca_12777	I	--
Ca7_P1_10162552	Ca7	10162552	ACGCAACATACC/A	GCCATGTTGCCATGTC TATG	AGCTCGCATCTTGAT TCAT	60.0	886	INTERGENIC	--	--	--
Ca7_P1_10168743	Ca7	10168743	CTTTTTTTTTTTT/CTTTTTTTTTTT	CGCGAAACAACGTATG ATCT	GCCACCAGAAATGAAAT ATACAAAA	58.8	344	INTERGENIC	--	--	--
Ca7_P1_10175453	Ca7	10175453	AATTTGTATTTTG/AATTTGTATTTT GTATTTTG	CATAATTTCCCTCCCC GATT	CGAAGAGTTTACATTT TGCTGC	60.0	578	INTERGENIC	--	--	--
Ca7_P1_10187415	Ca7	10187415	ATATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTAT/A TATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTA T	ATGTACGCGTTCGTGA ATTG	GAAGCTCAGCTCCTTT TTGAG	59.6	786	INTERGENIC	--	--	--
Ca7_P1_1018745	Ca7	1018745	C/CT	TTGCAACATGATAGC TGCC	TTGTTGGCATTGTTGT GGTT	59.8	467	INTERGENIC	--	--	--
Ca7_P1_1018777	Ca7	1018777	ATTGCAT/ATTGCATATTGCAT	TTGTTCCCGTAAAGA TCGC	TTGTTGGCATTGTTGT GGTT	60.1	233	INTERGENIC	--	--	--
Ca7_P1_10188547	Ca7	10188547	TTTATT/TTT	AGCTAACCTTCAAACCT GAAAAAC	TTGTCGTTTGAGGAGT CGTG	57.4	652	INTERGENIC	--	--	--
Ca7_P1_10189830	Ca7	10189830	CTTA/CTTAATTA	GAGTCGGTTCAGTAGG GCAA	TCCTTTGAGCCGACCA TATC	60.3	521	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_10190062	Ca7	10190062	CTTTTT/CTTTTT	GATATGGTCGGCTCAA AGGA	CAAAGCATTTTTGGTC AAGG	60.0	340	INTERGENIC	--	--	--
Ca7_P1_10192729	Ca7	10192729	TTTTTTTCATATA/TTTTTTTCATATAAT GTTTTTCATATA	CCCATTCCGAATACAT TGCT	GAGTTGGGTGCACGA TTTTT	59.8	624	INTERGENIC	--	--	--
Ca7_P1_10193680	Ca7	10193680	AT/ATT	AAAAATCGTGACCCCA ACTC	TCAGGTTTAATTATC CCTCCAAA	60.0	962	INTERGENIC	--	--	--
Ca7_P1_10194004	Ca7	10194004	ATAATTAATT/ATAATT	TTGCTCGATAGAGTTA AATTCCG	CATTTGCCAAGTTTTT ATTTTT	59.8	672	INTERGENIC	--	--	--
Ca7_P1_10195327	Ca7	10195327	TTATATATA/TTATA	TCTGAAGGTCAAAGCC TCGT	TGAACTCGATCAGGTC CAAA	60.0	346	INTERGENIC	--	--	--
Ca7_P1_10195673	Ca7	10195673	TA/TACA	CAGTGCAACTTAGAGC GCAA	GGGGAGGAATTTTAG TGGC	60.3	642	INTERGENIC	--	--	--
Ca7_P1_10199011	Ca7	10199011	ATTT/ATTTT	CGATTCGGATCCCTG TGTT	TCCCGCTAGCTAACCG ACTA	59.8	209	INTERGENIC	--	--	--
Ca7_P1_10204089	Ca7	10204089	CTTTTT/CTTTTT	GATGGGATGACTTTTG TTTGC	GGTTTGTTCCCGTGAG TGTT	59.4	475	INTERGENIC	--	--	--
Ca7_P1_10208171	Ca7	10208171	GAAA/GAAAA	GCATGATGTGGGAGAG GAGT	CAAACCTCCAAAAGG CAGC	60.1	482	DRR	Ca_12782	TU	bHLH
Ca7_P1_10213506	Ca7	10213506	AAAAT/A	ACCGGTATCAGAGATC GTCG	TGGATTTCACATAAAT TCCGTC	60.1	639	INTERGENIC	--	--	--
Ca7_P1_10214018	Ca7	10214018	AATGTATATATTATGTATATATATTA T/AATGTATATATATTAT	TCTCACCTAAAGTAA GTGACGGA	AAACAAGTGCTTTTCGT TGGAA	59.4	741	INTERGENIC	--	--	--
Ca7_P1_10215365	Ca7	10215365	T/TTA	AGGTGACACCATAAGC CCCT	TTTGACTCCCGATTTT GTCC	60.0	625	DRR	Ca_12783	G	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_10216306	Ca7	10216306	CAAAAA/CAAAAAA	ATAGGGCCCCATCTAT GACC	ATGGATCGCATGTTGA GACA	60.0	648	DRR	Ca_12783	G	--
Ca7_P1_10221279	Ca7	10221279	TGGG/TG	CGATGGAAGGCATATG GAGT	CGTGCTGAGTCAAAG GATGA	59.9	669	INTERGENIC	--	--	--
Ca7_P1_10222115	Ca7	10222115	TTATATATATATATATAT/TTATATAT ATATATATATATATAT	TTTCTTCGATCCCCAC TTTTT	TTGTTTTCGTTGACAT GTGATT	59.9	588	INTERGENIC	--	--	--
Ca7_P1_10224079	Ca7	10224079	CAT/C	TGAGCTGTGTCCAAGG AGTG	AAAACATAAGGGGAGG GGG	60.0	625	INTRON	Ca_12784	U	B3
Ca7_P1_10224468	Ca7	10224468	TTGTAAGTGT/TTGT	GCAGAAATCCCGCAG TAAA	AAAACATAAGGGGAGG GGG	60.2	335	INTRON	Ca_12784	U	B3
Ca7_P1_10224561	Ca7	10224561	AT/ATGTT	GCAGAAATCCCGCAG TAAA	GCAGCATGCAAAACT AGCA	60.2	851	INTRON	Ca_12784	U	B3
Ca7_P1_10230123	Ca7	10230123	ATTTTTTTTT/ATTTTTTTT	TCTATATCACGAAATCA CAGGAAAA	ATGTAAGGTGAGCGAA ACCG	59.1	784	INTERGENIC	--	--	--
Ca7_P1_10230437	Ca7	10230437	ATTTTTTT/ATTTTTTTT	TCATTTTATCTCAAT AAGTGTCG	GATTGGGAATCGAAGA ACGA	57.5	491	INTERGENIC	--	--	--
Ca7_P1_10240117	Ca7	10240117	ATTTTTTT/ATTTTTTTT	CCTCAGGATGCGACCA TCTA	CCAGCTTGAACAATGT TTCTT	61.2	687	INTERGENIC	--	--	--
Ca7_P1_10242603	Ca7	10242603	CTT/CT	GGCTGCGACAAAATTG AGAT	ACCCCTTCTATCCTG CCTA	60.2	714	INTERGENIC	--	--	--
Ca7_P1_10247426	Ca7	10247426	AT/ATATTT	TTCAATCACCTTAACCT TTGATCG	TTTTAAGAAATTATGTA CGATGTCCA	59.6	579	INTERGENIC	--	--	--
Ca7_P1_10255917	Ca7	10255917	C/CAAACCTTATA	TAGAGGTCCGTGTCCA AAGG	CCCAAGATTGAGAACA CCGT	60.1	397	DRR	Ca_12787	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_10260220	Ca7	10260220	TTTTATTATTATT/TTTTATTATT ATTTATTT	GATGATCAATCCTAAC ATGCGA	AAGTCCCCGCACCTCT ACTT	59.9	486	INTERGENIC	--	--	--
Ca7_P1_10260362	Ca7	10260362	A/AGTTCTCT	AGTAGAGGTGCGGG ACTTT	TCATTCCAATCATAC GTTCCA	60.1	130	INTERGENIC	--	--	--
Ca7_P1_10260640	Ca7	10260640	ATTTT/ATTT	AGTAGAGGTGCGGG ACTTT	TCACACATCACATC AGATTCA	60.1	600	INTERGENIC	--	--	--
Ca7_P1_10272637	Ca7	10272637	GTTTT/GTTT	TGCCCAGAAACATACG TGAA	TATCCACACGCCCTT TTGT	60.1	779	INTERGENIC	--	--	--
Ca7_P1_10272934	Ca7	10272934	AAGTTATAGTT/AAGTT	TGGGCAGACTTAATTT GCGT	TATCCACACGCCCTT TTGT	60.6	395	INTERGENIC	--	--	--
Ca7_P1_10273514	Ca7	10273514	AATATATATAT/AAATATATAT	AATTGCGAAGCAGAA TTGG	CAGATTGGAAGGCTG GTGAT	60.2	783	INTERGENIC	--	--	--
Ca7_P1_10276349	Ca7	10276349	TAC/T	GCTCTGCAAAGTTGGA AACA	GGATCAGCCAAAATGA AGGA	59.1	635	DRR	Ca_12789	O	--
Ca7_P1_10289138	Ca7	10289138	CTTTTTTTTT/CTTTTTTTTTT	TGCAATTTAAAGCATG TCACG	ACTGCAACATCAACAT CCCA	59.8	280	INTERGENIC	--	--	--
Ca7_P1_10289954	Ca7	10289954	TA/TAA	TGACACGGTACAAGGT GGAA	ATGGAATGTGTTAGCC CTGC	60.0	870	INTERGENIC	--	--	--
Ca7_P1_10290285	Ca7	10290285	CAAAAAA/CAAAAAA	TCAACCAATTTTGTG CAC	ATGGAATGTGTTAGCC CTGC	59.7	208	INTERGENIC	--	--	--
Ca7_P1_10290556	Ca7	10290556	AGAGAACTGAGAACTGA/AGAGAACT GAGAACTGAGAACTGA	GCAGGGCTAACACATT CCAT	AGTTCCAGCGGAAACT CTCA	60.0	478	INTERGENIC	--	--	--
Ca7_P1_10297328	Ca7	10297328	CTA/CTATA	GAATACGAGCAGCAG TTGA	TCACAACTTTAATCGT CTCGG	60.0	591	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_10313209	Ca7	10313209	TAATTTCTAAATTCTAAATT/TAATTTCTAAATT	TTTCCATGCATTGATCTCCA	TCCCTAAGATGCATTCGTCC	60.0	620	INTRON	Ca_12794	A	--
Ca7_P1_10315195	Ca7	10315195	CAAA/CA	GAGCATACCAACAGCGACA	GGGATAAGGCTTGGTTGTTG	59.9	769	INTRON	Ca_12794	A	--
Ca7_P1_10322286	Ca7	10322286	TCC/TCCC	GGTGATCCCACCATACAAAGC	GAAGGCACAAAGAGTCCTCG	60.2	788	INTRON	Ca_12794	A	--
Ca7_P1_10339253	Ca7	10339253	AAACAAAA/AAACAAAAAGAACAAAA	GAAGCATCCCCATTGAAGA	GGTGCAATTTGTCACCTCCT	60.0	549	INTRON	Ca_12794	A	--
Ca7_P1_10340077	Ca7	10340077	ATTTTT/ATTTTT	CTTTCCTTAAAGGCTGCACG	AACGGTGATGATTGAAGGC	60.0	539	INTERGENIC	--	--	--
Ca7_P1_10343265	Ca7	10343265	TAAAAA/TAAAAA	AAGCGCCTTCTTTTATGTTTAAACA	TGATCAATGGAAGGACAAAA	59.9	132	INTERGENIC	--	--	--
Ca7_P1_10351925	Ca7	10351925	CATATATATAT/CATATATATATAT	TTGTGTGGTATCAAGCCAA	AAGCTAAAGCCTCCTCGGTC	60.0	663	DRR	Ca_12795	--	--
Ca7_P1_10355558	Ca7	10355558	GTTT/GTT	AACTGGACCACCACATGA	GAGTGGACTTTTGAGCTGGC	59.8	202	INTERGENIC	--	--	--
Ca7_P1_10355674	Ca7	10355674	AT/ATGT	GCCAGCTCAAAAGTCCACTC	GACCGGATTTTGCCAGTA	60.0	176	INTERGENIC	--	--	--
Ca7_P1_10357532	Ca7	10357532	TATATATATATAAT/TAATATATATATAAT	GTCCAAAAGTCCACTCGAA	GTGGCCTCCAGTACCACTT	60.1	509	INTERGENIC	--	--	--
Ca7_P1_10365474	Ca7	10365474	CT/C	GGCGGTGTTAATCAAGTGGT	AGTTGGACGTCTTGTCTCG	59.9	881	DRR	Ca_12796	E	--
Ca7_P1_10365764	Ca7	10365764	TTTTTTTT/TTTTTTTTTTTTTT	CCCAAAACAAAATACTCATCCA	AGTTGGACGTCTTGTCTCG	58.9	579	DRR	Ca_12796	E	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_10367070	Ca7	10367070	TTATATAT/TTAT	ATGGAAAAATGTTGGA CCGA	CGATCGATAGGGATT ACGG	60.2	612	INTERGENIC	--	--	--
Ca7_P1_10370943	Ca7	10370943	TTAAAAATAAAAAATAA/TTAAAAATA AAA	CATTATTGGGTGTCGA CTGC	CTACATTGTGCGCCG TCTT	60.0	376	INTERGENIC	--	--	--
Ca7_P1_10375952	Ca7	10375952	TAATTAATAATAAATT/TAATTAATAAT T	ACTTTGATTGTTTCG GCTT	GGCAAAACAACAAAA GCAA	58.8	834	INTERGENIC	--	--	--
Ca7_P1_10378546	Ca7	10378546	TTAATAATAATAATAATAAT/TTAA TAATAATAATAATAATAATAATAAT	AACAACCTCCTTCTATT TTCTCTCC	AATTGAATGTCCTCAA CTCA	57.7	491	INTERGENIC	--	--	--
Ca7_P1_10380301	Ca7	10380301	GT/G	ACGGCCTTTTATTG CTTT	CCAAAACGACATCCAG AATCA	60.1	445	INTERGENIC	--	--	--
Ca7_P1_10380474	Ca7	10380474	TAAAAAA/TAAAAAA	TGATTCTGGATGTCGT TTTGG	GCAGAACTTGGCTGGT TTGA	60.9	646	INTERGENIC	--	--	--
Ca7_P1_1038892	Ca7	1038892	TTATATATATATATATATATATATAT ATAT/TTATATATATATATATATATAT ATATATATAT	GTACGAGATGACGACG CCTT	ATGAATGCAGTTACGT GGCA	60.3	717	INTERGENIC	--	--	--
Ca7_P1_10390301	Ca7	10390301	GTTTTTTTT/GTTTTTTTTTT	ACACTTTGGCTTGGTT GGTC	GATTGCAGACGTTTGG TCCT	60.0	573	DRR	Ca_12797	--	NF-X1
Ca7_P1_10390927	Ca7	10390927	TATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATA/TAT AATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATAA TAATA	AACCTCGGGAGCAATG TATG	TTTGCAGCTTCGGTTA CTCC	60.0	251	INTRON	Ca_12798	T	YABBY
Ca7_P1_10393062	Ca7	10393062	ATTT/ATTTT	TCCTCCATGTCAACCC TCTC	CGTTGCCCTCTTTTGG TATC	60.0	653	INTERGENIC	--	--	--
Ca7_P1_10394601	Ca7	10394601	T/TCATGTA	ATATAGCGATGGCCGA TGAG	GGTGAAACACTTCCAA CACG	60.0	437	INTERGENIC	--	--	--
Ca7_P1_10395585	Ca7	10395585	GGA/G	TGGGTTTGACGAAAGG AGAG	CTGGATCGTGGGACT CCTAA	60.2	559	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_10396287	Ca7	10396287	TAAA/TAAAA	TGACAAATAAGCTAAC GGTGC	TCGAGGTCAATTTTAC CATCAAT	58.0	413	INTERGENIC	--	--	--
Ca7_P1_10401514	Ca7	10401514	GTTTTTTTT/GTTTTTTTTTTT	GGCATTGTGCTGTG ATGT	AACTTCCGCTCTCCCA AAAT	59.6	367	INTERGENIC	--	--	--
Ca7_P1_10401895	Ca7	10401895	G/GCTATTTCTCCAAA	ATTTTGGGAGAGCGGA AGTT	TCATGGATGGCTGAAT GAAA	60.1	536	INTERGENIC	--	--	--
Ca7_P1_1040531	Ca7	1040531	ATATTATTATTATTATTATTAT TATTATTATTATTATTATTA/ATATT ATTATTATTATTATTATTATTA TTATTATTATTATTATTATTA	CACTGCTTTCTCATGG CTCA	CAAGCAAAGCAACAAC TCCA	60.1	889	INTRON	Ca_03373	--	Dof
Ca7_P1_10405924	Ca7	10405924	TC/TCC	ATTGCTGGTTGGCAAG GTAG	CCATAATCACATTGCG GGAT	60.1	669	INTRON	Ca_12799	T	--
Ca7_P1_10413643	Ca7	10413643	TTT/TTTTTATT	ACATGGAGCAACCAAT GACA	GATGGCCAAACAAAGG AGAA	60.0	548	INTRON	Ca_12800	S	--
Ca7_P1_10415921	Ca7	10415921	CATATAT/CATATATAT	GACATTGACATATGGA GGCG	TGCTTCTGCCCTTTTC TGTT	59.0	743	INTERGENIC	--	--	--
Ca7_P1_10415974	Ca7	10415974	T/TTATA	GACATTGACATATGGA GGCG	TGCTTCTGCCCTTTTC TGTT	59.0	743	INTERGENIC	--	--	--
Ca7_P1_10416988	Ca7	10416988	AG/A	CTTTCTGCGAGCCA CTTC	CCGTCATCCAATCATA ATTCA	60.3	606	INTERGENIC	--	--	--
Ca7_P1_10418769	Ca7	10418769	CT/CTTT	TTGAACACTTCATCTC CCCC	AGAATTTGTTGCGTGG AACG	59.9	757	INTERGENIC	--	--	--
Ca7_P1_10422509	Ca7	10422509	A/AGATGGTAGGTTGAT	ACATGGAGCAACCAAT GACA	GGCCAAACAAAGGAAA CAAA	60.0	502	DRR	Ca_12801	--	--
Ca7_P1_10423937	Ca7	10423937	ATTT/ATTTT	TTCATTGATGCTTGT GACC	GAGGTGAAGCCTCCAT GTGT	59.7	607	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_10433210	Ca7	10433210	ATTTT/ATTT	CATCACACAATGGTAT CTCAAGTG	GAGTCCGACGTCAATT TTTCA	59.4	928	INTERGENIC	--	--	--
Ca7_P1_10434123	Ca7	10434123	AGTTTG/A	TACAACTTTTGCAATG GGCA	ACCCTCTCCCTAGATG GGAA	60.1	783	INTERGENIC	--	--	--
Ca7_P1_10439381	Ca7	10439381	GAAA/GAA	TTTGCATCCCCCTTTTGA CA	CCTTCAATGGCGGAAT CTTA	60.0	450	DRR	Ca_12804	J	B3
Ca7_P1_10445158	Ca7	10445158	GTTTTT/GTTTTTTT	AAGGTGGAGTAGTCTC GCACA	GCCACAAAGCCATCAG TACA	59.9	477	INTERGENIC	--	--	--
Ca7_P1_10445770	Ca7	10445770	AAAA/AAAAGAAA	ACGCCAATCTGAAACA ATGG	TTTGGGGTGAGTATT GGAAA	60.9	594	INTERGENIC	--	--	--
Ca7_P1_10447170	Ca7	10447170	GTA/GTATA	AGGATTATTGTGCC GTCA	TGCCTTTGGAAGTGT GGTT	60.3	679	INTERGENIC	--	--	--
Ca7_P1_10448321	Ca7	10448321	TCCTC/T	CTCCATTCCATCTCC TTCA	CCTTGGCTCCAATAC ATTG	60.0	570	INTERGENIC	--	--	--
Ca7_P1_10449940	Ca7	10449940	AA/AAGA	TTGACTTCACAGGTT AAACAA	CTCCCTCGTGAATGGT GATT	58.3	664	INTERGENIC	--	--	--
Ca7_P1_10450027	Ca7	10450027	GATAT/GATATAT	TTGACTTCACAGGTT AAACAA	CTCCCTCGTGAATGGT GATT	58.3	664	INTERGENIC	--	--	--
Ca7_P1_10454518	Ca7	10454518	ATTTTTTT/ATTTTTT	AAGGAAATCGGTAGGC AGGT	TTTTCTGGATGCACAA GCTG	60.0	819	INTRON	Ca_12805	--	--
Ca7_P1_10459620	Ca7	10459620	TA/T	GATAATGGACCCGCGA CTTA	CGCCATTTGAATGACG TATG	59.9	680	DRR	Ca_12806	T	WRKY
Ca7_P1_10464523	Ca7	10464523	CAAA/CAAAA	ATTCGGAACAACTGCA ATCC	GCTGAAGCTGCTCTTG TGTG	59.9	879	DRR	Ca_12807	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_10468855	Ca7	10468855	CTTTT/CTTT	AAGCTGGATTTTCGTG GATG	ACGAAGTTTCTGTTG GGGA	60.1	474	INTERGENIC	--	--	--
Ca7_P1_10471583	Ca7	10471583	GAA/GAATCGCTTTTAAAA	ATCTCGGATGGGTTTC TTCA	TTTCATCTTCTCCACT CAACACA	59.5	228	INTERGENIC	--	--	--
Ca7_P1_10472796	Ca7	10472796	TCCACC/TCCACCACC	CTCCTCATTGCTTTG AAGG	AATCAGCCTCCGTGAC AGAC	59.9	326	DRR	Ca_12809	R	--
Ca7_P1_10473226	Ca7	10473226	TA/TAA	GGTAACTCCACCGA AACA	TCCCCAAGTCTTTGAT TTGC	59.8	648	DRR	Ca_12809	R	--
Ca7_P1_10477322	Ca7	10477322	TTTAT/TTTATTAT	CGGTTCCACTTCTCC TGTA	TATGAATGTTGTCGTG GCGT	60.1	584	INTRON	Ca_12809	R	--
Ca7_P1_10477498	Ca7	10477498	GA/GAAAGAAGAGAA	TAGAACCTTCGGATTG CCAC	TATGAATGTTGTCGTG GCGT	60.1	338	INTRON	Ca_12809	R	--
Ca7_P1_10477515	Ca7	10477515	ATT/AT	TAGAACCTTCGGATTG CCAC	TATGAATGTTGTCGTG GCGT	60.1	338	INTRON	Ca_12809	R	--
Ca7_P1_10477599	Ca7	10477599	CATCGCGATCGCGATCGCGATCG/CA TCGCGATCGCGATCG	TGATCTCCGAAACAA CCTC	TATGAATGTTGTCGTG GCGT	60.1	191	CDS (large-effect mutations)	Ca_12809	R	--
Ca7_P1_10478783	Ca7	10478783	TA/TAA	AAAGAAATGGATAAAA ATGTTCCAT	CCGTTCTAGAACGCT GAAG	59.5	415	INTERGENIC	--	--	--
Ca7_P1_10481853	Ca7	10481853	AGG/AG	CCCACAAAATTGGAAC CACC	TTATGGCTCCGGGTAG ACAG	60.1	838	INTRON	Ca_12810	--	SRS
Ca7_P1_10482051	Ca7	10482051	TTCTCTCT/TTCTCT	CAAGAGGTAGCAGGCA CACA	TTATGGCTCCGGGTAG ACAG	60.0	383	INTRON	Ca_12810	--	SRS
Ca7_P1_10482218	Ca7	10482218	G/GAC	CAAGAGGTAGCAGGCA CACA	AATACTGCACCAAGCA TCCC	60.0	877	INTRON	Ca_12810	--	SRS

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_10483357	Ca7	10483357	TCCTCCCCTCCCCTCC/TCCTCCCCT CCCCCCCCCTCC	TGCCTGTCAATAT CCGA	GTAGGGGAGCAAAAT CCCTC	60.0	546	INTRON	Ca_12810	--	SRS
Ca7_P1_10486365	Ca7	10486365	ATGAGT/ATGAGTTGAGT	TTGCACCAGCAAAAGA ATTG	TACCCCAAGTTCCAAT CGAG	59.8	719	DRR	Ca_12810	--	SRS
Ca7_P1_10489972	Ca7	10489972	ATTTTTTT/ATTTTTTTT	GGCTCAAGTCTCGACT ACCG	TATGCCTCCAAATAGG CCAG	60.0	769	INTERGENIC	--	--	--
Ca7_P1_10490031	Ca7	10490031	TC/T	AGAGTTTAAAGTTAATT TTTACGGTTG	TATGCCTCCAAATAGG CCAG	57.1	687	INTERGENIC	--	--	--
Ca7_P1_10496502	Ca7	10496502	ATTTTTTT/ATTTTTTTT	AAACATGGGATGGGAG TATGA	GGGTGGTGGTTTGT TGTC	59.1	710	INTERGENIC	--	--	--
Ca7_P1_10501115	Ca7	10501115	TA/TACGGAAGAAGAAACAAA	TGAGAGAAAGTTGCC ACAAAA	ACACATCATCCCCATC CACT	59.9	391	INTERGENIC	--	--	--
Ca7_P1_10509773	Ca7	10509773	G/GA	TCAATAAGAATTTGGT CCCGA	GGGGTAGAATTGGAAA AACCA	59.4	562	INTERGENIC	--	--	--
Ca7_P1_10513149	Ca7	10513149	T/TG	TCCACTATTGTTTCCA GGGC	GTCCCCTTATCTCCTT TCGC	59.9	253	INTERGENIC	--	--	--
Ca7_P1_10515194	Ca7	10515194	ATTTTTTT/ATTTTTTTT	TGAAGGGTTATCAAGA AATTTGG	TTGCTCCCTTAAATG ACCG	59.4	626	INTERGENIC	--	--	--
Ca7_P1_10517966	Ca7	10517966	TTATATATATATAT/TTATATATAT AT	AGCATTGTCATGCCTA GAACC	ACAGGTAGGTCAGGG TGCAG	59.2	382	INTERGENIC	--	--	--
Ca7_P1_10552099	Ca7	10552099	CAA/CAAA	GCAGCTTCACCCCAAA AATA	AAACGGGGTGTTCAT CAAA	60.1	139	INTERGENIC	--	--	--
Ca7_P1_10557993	Ca7	10557993	A/ACAC	GCGGCTAAATCAGGTC CATA	AAGAAAAAGGCGACAG GACA	60.1	685	DRR	Ca_12813	O	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_10568493	Ca7	10568493	TTATATATATATATATATATATATAT AT/TTATATATATATATATATATATAT	ACGATGGAGGCCAAG TATG	AAAATAAGGCATGGT TTGGA	60.0	487	INTERGENIC	--	--	--
Ca7_P1_10572777	Ca7	10572777	TCTAC/T	TCAAAATGTGACCAGG TGAAAC	CCTGGCCCAACTGTG ATAC	59.9	650	INTERGENIC	--	--	--
Ca7_P1_10578562	Ca7	10578562	TAAA/TAAAA	TTTCGTTTCATTTTGA TCCC	TGCAAGTTGGAAGCA ACAA	58.9	746	INTERGENIC	--	--	--
Ca7_P1_10579803	Ca7	10579803	ATT/AT	TGACATTATGCCTCA CTAGCC	AATGCTTGTGGGCTG TGGT	59.3	489	INTERGENIC	--	--	--
Ca7_P1_10584831	Ca7	10584831	ATTTTT/ATTTTT	ATTCAAATGGGGATT GTTG	TGAAGTTTTAAACCG TGGC	59.5	760	INTERGENIC	--	--	--
Ca7_P1_10591717	Ca7	10591717	TAAA/TAAAA	TCTGCTCCAATTAAT GGTGTTT	CACCGTTCCTTCCTGA CAGT	59.9	764	INTERGENIC	--	--	--
Ca7_P1_10592752	Ca7	10592752	T/TACCTA	CATGTTGAGTTCACCG TTGG	AACCGTGGGTTATGGA ATGA	60.0	406	INTERGENIC	--	--	--
Ca7_P1_10593183	Ca7	10593183	TC/TCTTCCAAAGCC	GATGATGTGGCACAGT GGAC	GGACCAAAAGGTCG AAAGT	60.0	523	INTERGENIC	--	--	--
Ca7_P1_10593540	Ca7	10593540	TAA/TAAA	CCTTCTTGCTTCTCACT CCG	GTGAATCCATTGGCCA AAAC	60.1	924	INTERGENIC	--	--	--
Ca7_P1_10595254	Ca7	10595254	TTAAACCAGAAATCTCATATAAACAGAA A/TTAAACCAGAA	CTCCATGAAATGGCTT GGTT	TTGTGTTTCTGGTTTG CGAG	59.9	424	DRR	Ca_12814	--	--
Ca7_P1_10595369	Ca7	10595369	TCGCA/TCGCATATAACAGAAGCGCA	CTCCATGAAATGGCTT GGTT	TTGTGTTTCTGGTTTG CGAG	59.9	424	DRR	Ca_12814	--	--
Ca7_P1_10596423	Ca7	10596423	CA/CAA	AAAAGCAACCTCTGAA GCCA	TCTTATCATTTTGCCA CCGA	60.0	388	DRR	Ca_12814	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_10600671	Ca7	10600671	GAA/GA	AATGTGAGCGGCTATC CAAC	ATCATTTCATTCCCC ACAA	60.1	583	INTERGENIC	--	--	--
Ca7_P1_10604035	Ca7	10604035	CATATATATATATATATA/CATATAT ATATATATATA	TAGGGCCGTCCTGAA CTTA	AGCAGACAAATGAGCG GAAC	60.5	580	INTERGENIC	--	--	--
Ca7_P1_10604279	Ca7	10604279	TTT/TTTTAGACAGTT	TAGGGCCGTCCTGAA CTTA	CTGCTAGGGGAAGTA CAGCG	60.5	784	INTERGENIC	--	--	--
Ca7_P1_10607434	Ca7	10607434	GAAA/GAA	TATATGGAGACCCGTG CCTT	CTCCATTGCTGTTGCT TTGA	59.4	526	INTRON	Ca_12815	O	--
Ca7_P1_10613236	Ca7	10613236	CTTT/CTT	TCCCTCTGAGCTGTAT GCCT	GGCAACAAGTCATCC TCAT	60.0	649	INTRON	Ca_12815	O	--
Ca7_P1_10613413	Ca7	10613413	AGTATAT/AGTATATGATGTATAT	TCCCTCTGAGCTGTAT GCCT	GGCAACAAGTCATCC TCAT	60.0	649	INTRON	Ca_12815	O	--
Ca7_P1_10620192	Ca7	10620192	A/ATTGTGC	ATGGGGTCGACATTT CATA	AAAACCACATGAGAGA GCCG	60.0	537	DRR	Ca_12815	O	--
Ca7_P1_10620555	Ca7	10620555	CATG/CATGATG	GCAACTGCATCATCTT GCTC	TACCCCTGATTTCCGT CAAA	59.6	604	DRR	Ca_12815	O	--
Ca7_P1_10631442	Ca7	10631442	TTGCAACATGCAACAT/TTGCAACAT	AGAGAGATATGCCTGG CGAA	CTTCAGCAAGGGGAAA ACAA	59.9	136	INTRON	Ca_12818	U	Trihelix
Ca7_P1_10646315	Ca7	10646315	G/GC	TCTGATAGGTTTGGA ACCG	AGGTGCATGGCCAACT CTAC	59.9	134	DRR	Ca_12822	UR	HB-other
Ca7_P1_1065727	Ca7	1065727	TC/TCC	TCATCGCCATCCTCAT GTTA	GATTGTGCGATCCTCC ACTT	60.0	626	INTERGENIC	--	--	--
Ca7_P1_10663412	Ca7	10663412	ATTTTTTTTT/ATTTTTTTTTT	TTATCCATCTCGAAAT GTCA	TCGAGGAGATGGAAG CCTTA	59.1	449	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_10672753	Ca7	10672753	TTAT/TT	TGGTGTGAGATGGGA ATGA	GGATACAAATGTTGGC CCAT	59.9	583	DRR	Ca_12824	--	NF-YB
Ca7_P1_10672818	Ca7	10672818	TCC/TC	TGGTGTGAGATGGGA ATGA	GGATACAAATGTTGGC CCAT	59.9	583	DRR	Ca_12824	--	NF-YB
Ca7_P1_10676593	Ca7	10676593	TGATCGAT/TGATCGATCGAT	AAAACCGGAGCAACAA TTAAGA	ACCCGGGAAAAGAGTT TTGT	60.0	557	INTERGENIC	--	--	--
Ca7_P1_10677978	Ca7	10677978	TTTTATTTATTTAT/TTTTATTTATTTAT TTAT	GAAGTCCAAATCATT AAGGCA	CAAGTCTTAAGCGTTC CCAA	59.5	867	INTERGENIC	--	--	--
Ca7_P1_10680712	Ca7	10680712	ATTTTT/ATTTTTTT	TGGTGGAGGAAGAGG ACGTA	TTCATGGTTCACACAT TGGC	60.6	497	INTERGENIC	--	--	--
Ca7_P1_10681076	Ca7	10681076	CAA/CAAA	TGGTGGAGGAAGAGG ACGTA	TTCCCTCGGTCACAAA CATT	60.6	801	INTERGENIC	--	--	--
Ca7_P1_10681107	Ca7	10681107	GTAT/GTATATAT	TGGTGGAGGAAGAGG ACGTA	TTCCCTCGGTCACAAA CATT	60.6	801	INTERGENIC	--	--	--
Ca7_P1_10688225	Ca7	10688225	CTTT/CTTT	GCAGCCTACAGAAAGT TGGC	GCAGCCCCATGTATCT GAAT	60.0	196	INTRON	Ca_12825	K	ARR-B
Ca7_P1_10690477	Ca7	10690477	GTT/GTTTT	CCTGGCTTGCAACAT ACAA	CAGCCAAGTAACACGC AAAA	59.7	897	DRR	Ca_12825	K	ARR-B
Ca7_P1_10693719	Ca7	10693719	T/TAGCAC	CAAGCACTCGAAAATG CAGA	GAGAGGATGGCGCTT GTTAG	60.1	500	DRR	Ca_12826	K	MYB
Ca7_P1_10694557	Ca7	10694557	TAAAA/TAA	TGTGGATTTCAACATC GCAA	TGCCAAAATTTAAAGG ACGAA	61.1	582	DRR	Ca_12826	K	MYB
Ca7_P1_10695566	Ca7	10695566	C/CTT	TAATACTACGCCGTT CCCT	TGAAGTTGGTGGATG GTTTG	59.6	466	DRR	Ca_12826	K	MYB

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_10699887	Ca7	10699887	TTATATATATATATA/TTATATATATA TATATATATA	TGTCAAATCCAACAC AAATAACA	TGTCTCGTTTGCATGC ATTAT	59.3	588	INTERGENIC	--	--	--
Ca7_P1_10718905	Ca7	10718905	T/TC	ATTGTTCGGGCTGCAA ATAG	AGGAATCTTTGGGGA AGGA	60.1	399	INTRON	Ca_12827	--	--
Ca7_P1_10724368	Ca7	10724368	TAGAG/TAG	CAACTTGGCTGTCCAT TTGA	TGATCCCCACAAAGGA GAAG	59.7	749	INTERGENIC	--	--	--
Ca7_P1_10725612	Ca7	10725612	TTTCTGTTCTGTTCTGTTCT/TTTCTGT TCTGTTCTGTTCTGTTCT	TGTTTCTGGAAGTGG CTCA	GCCAAAAGAGCTGCCA TAAA	59.4	720	INTERGENIC	--	--	--
Ca7_P1_10726400	Ca7	10726400	TTCTCT/TTCT	TTTATGGCAGCTCTTT GGC	TGGATTGTGTCTAAG CGGA	60.3	854	INTRON	Ca_12828	U	M-type
Ca7_P1_10729342	Ca7	10729342	AG/A	CTCGTTTGCATCGGT CTTT	ATCAACCCCTCTTTCC ATCC	60.2	648	INTRON	Ca_12828	U	M-type
Ca7_P1_10731505	Ca7	10731505	AAG/AAGAG	CAGAACCTGTCGGGAT TCAT	TCGGCAACTTCAATT CCTC	59.9	417	DRR	Ca_12828	U	M-type
Ca7_P1_10732290	Ca7	10732290	A/ATT	GCAGTGAAAGAAGAAA TCTCCG	AGAAGTACCCGCGAA GATGA	60.4	482	INTERGENIC	--	--	--
Ca7_P1_10737538	Ca7	10737538	ATTTTT/ATTTTTTT	CAAGTTGGGCTTTCGC TTAC	AAAAGCAAGGGGTGTT TGAA	59.9	744	INTERGENIC	--	--	--
Ca7_P1_10740094	Ca7	10740094	TAAAAATTT/TAAAAATTTAAAAAAT TT	TTTTGCATTGCCACTT CTG	TTCTGATTAAATTCCA ACTTGTGAG	59.8	492	INTERGENIC	--	--	--
Ca7_P1_10741566	Ca7	10741566	GAAAAA/GAA	CAGAACCTGTCGGGAT TCAT	CAAAATCAACCCGATC CAAC	59.9	578	INTERGENIC	--	--	--
Ca7_P1_10741982	Ca7	10741982	ATCAATTT/AT	TTTGAAAGATGAATTC GGGG	AAAATACATCCCGCGA TCCT	59.9	855	DRR	Ca_12829	FE	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_10749389	Ca7	10749389	TAAAAAAAAA/TAAAAAAAAA	CCGTCGGTTCAATATG AATG	CAAAACCACAAACCA TCCA	58.8	507	INTERGENIC	--	--	--
Ca7_P1_10751226	Ca7	10751226	CATA/CATATA	GCGTAACTTTAGATC AATCCTTCA	TCGAAATTAATCGC GAAAA	60.0	592	INTERGENIC	--	--	--
Ca7_P1_10753487	Ca7	10753487	AATATA/AATA	TTTTGTGGTGATTTTGT GTGTG	GTAAAAATCTGGCCG CAAA	59.4	809	INTERGENIC	--	--	--
Ca7_P1_10753561	Ca7	10753561	CATTATTA/CATTA	TTTTGTGGTGATTTTGT GTGTG	GTAAAAATCTGGCCG CAAA	59.4	809	INTERGENIC	--	--	--
Ca7_P1_10759908	Ca7	10759908	ATAATGTAATGTA/ATAATGTAATGTAA TGTA	GATCCAGCAGAAACCC AAAA	TTGGGTCAAACAATG CTGA	60.1	573	INTRON	Ca_12830	E	TALE
Ca7_P1_10761385	Ca7	10761385	AAAATATAAA/AAAA	CGACTAGCAATGAGCC ATGA	TTCAACACAGGACCAT TTGC	60.0	500	INTRON	Ca_12830	E	TALE
Ca7_P1_10763719	Ca7	10763719	ATTGGGA/ATTGGGAATTGGGA	GTGGGGATATCCAACG TGTC	TGGAGGGTGATGTAA AAGGA	60.1	356	INTERGENIC	--	--	--
Ca7_P1_10765382	Ca7	10765382	A/AG	TCACCAACCAACGCA TTTA	ACAAGCAAATGAACG GGAG	60.0	506	INTERGENIC	--	--	--
Ca7_P1_10767415	Ca7	10767415	TAA/TA	TGTCATAACGCACAC TGAAAA	ATAGGCCGTAGGCCA GATTT	59.3	597	INTERGENIC	--	--	--
Ca7_P1_10767646	Ca7	10767646	CAA/CA	TACCCACCTGGTCATG GTTT	ATAGGCCGTAGGCCA GATTT	60.1	291	INTERGENIC	--	--	--
Ca7_P1_10772954	Ca7	10772954	CAAA/CAAAA	TACACTTGATGGGGT GGTT	GCAAAATGGGGATATT GGAA	60.1	598	INTERGENIC	--	--	--
Ca7_P1_10783409	Ca7	10783409	ATTTTT/ATTTTTTTT	GGAGGGAGAACTTTTA AGAGAGAAA	GTCCATTTCCAGTGG CTGT	59.8	454	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_10784413	Ca7	10784413	GAAA/GAAAA	ACGCATGTCGACAAAC AAAT	TCATCAAATTCGTAAC GCAAA	59.1	570	INTERGENIC	--	--	--
Ca7_P1_10788432	Ca7	10788432	ATTTTTTTT/ATTTTTTT	GACAAGGAAGTGAAG CTGG	TTACCGTGGCATTTTT GTCA	59.8	268	INTERGENIC	--	--	--
Ca7_P1_10790426	Ca7	10790426	TGGGG/TGGGGG	CCGGTGTTTTTGAATT CATCT	TTCCGGAATTTTAGGG AAAAA	58.9	856	INTERGENIC	--	--	--
Ca7_P1_10801999	Ca7	10801999	ATG/ATGGTTAGGGTTG	AAAAGATCCGTGCATT CGTC	ATTTGATGCATAATCA ACAATGA	60.1	612	DRR	Ca_12832	--	S1Fa-like
Ca7_P1_10802079	Ca7	10802079	TATTAATTAATTAATTA/TATTAATTAAT TA	AAAAGATCCGTGCATT CGTC	ATTTGATGCATAATCA ACAATGA	60.1	612	DRR	Ca_12832	--	S1Fa-like
Ca7_P1_10806843	Ca7	10806843	AATTT/A	GTTTCGCCGTTTCATCA TTTT	CGATGAAGGCAGACC AATTT	59.9	824	INTERGENIC	--	--	--
Ca7_P1_10807016	Ca7	10807016	GTCTCT/GTCT	ATTTTCGCATGTCTTTT CGG	CGATGAAGGCAGACC AATTT	60.1	619	INTERGENIC	--	--	--
Ca7_P1_10812707	Ca7	10812707	TAAA/TAA	GAGCCCACGAGTTGCT CTAC	AATGTGGAATTGTCAA CGCA	60.0	809	DRR	Ca_12835	T	MYB_related
Ca7_P1_10822750	Ca7	10822750	TTAATA/TTA	TTCATTTCCAACAACGT CAAA	GCACAGCAAGACTTCG TCAA	59.0	565	INTERGENIC	--	--	--
Ca7_P1_10824982	Ca7	10824982	ATT/ATTT	CACTCAACGGGAACAG GTTT	TCAAGCACATAAATTA CGAAATGG	60.0	264	INTERGENIC	--	--	--
Ca7_P1_10825347	Ca7	10825347	ATTTTTTTT/ATTTTTTT	CACTCAACGGGAACAG GTTT	TTGGATCCGACAGTGA TGAA	60.0	843	INTERGENIC	--	--	--
Ca7_P1_10830498	Ca7	10830498	ACATT/ACATTGATTCCATT	AGGGAAACTGTTGGAA ACCA	TTGAAGATGTTGCAAA TGGA	59.4	255	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_10831562	Ca7	10831562	TTTATT/TTT	CACCTCCAAGTCCAAC CAAT	TGCAGCGTTTGTGTTT GTTC	59.8	334	DRR	Ca_12836	S	--
Ca7_P1_10834315	Ca7	10834315	AG/AGG	AGATCAAAGTCAACCC GTCG	AGGGTTGGGAGGGAA GAGTA	60.1	545	INTRON	Ca_12836	S	--
Ca7_P1_10838599	Ca7	10838599	GAAAAA/GAAAA	TGGAAGGACGAGGAAA GTTG	CTTGAAGTGCTCCTTG AGACAA	60.2	453	INTERGENIC	--	--	--
Ca7_P1_10839999	Ca7	10839999	CTTTTT/CTTTT	CACATTTGCCCATGAA ATTG	ACAATTTGGAACTTT GCCG	59.8	395	INTERGENIC	--	--	--
Ca7_P1_10851377	Ca7	10851377	ATT/AT	CAAGCATTTGTTGTG GTGG	TGAGTGCGTGCCTAAA ACTC	60.0	386	DRR	Ca_12839	R	SBP
Ca7_P1_10855445	Ca7	10855445	ATTTT/ATTT	CCTTCAAAGAGTGGCT CCAG	TTTCACACTGTCCACT GCCT	60.0	738	INTERGENIC	--	--	--
Ca7_P1_10856453	Ca7	10856453	AAAT/A	GTTACGCGGAACTGG AAAA	ATGCCGCGTGAAGTT AATA	59.9	682	INTERGENIC	--	--	--
Ca7_P1_10862055	Ca7	10862055	C/CAA	GTTGGCCATGTTGATG TCTG	GAAGCGTCGGCTCAG AATAC	60.0	402	INTRON	Ca_12840	--	--
Ca7_P1_10872734	Ca7	10872734	CAAAAAAAAA/CAAAAAAAAA	GAATTGGATTGGATTG GCAC	TGAAAGAGAGTCCGAC CCAT	60.1	322	INTERGENIC	--	--	--
Ca7_P1_10873099	Ca7	10873099	AAAAACAACAAA/AAAAA	TGGTACTCCCACATTC CACA	ACGCTCACACTGTGTC TTTG	59.8	673	INTERGENIC	--	--	--
Ca7_P1_10877853	Ca7	10877853	CTTTTT/CTTT	GATGCGGGTTCGGTCT AGTA	TTGCGTTGTGTTGTGA TGTG	60.1	444	DRR	Ca_12842	R	CPP
Ca7_P1_10877900	Ca7	10877900	TTGCAATGGCA/TTGGCA	GATGCGGGTTCGGTCT AGTA	TTGCGTTGTGTTGTGA TGTG	60.1	444	DRR	Ca_12842	R	CPP

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_10889615	Ca7	10889615	TTATATATAT/TTATATATATATATAT ATATATATAT	CACCATTCACGTCCAA CACT	CTAAGCTTGACGGG CTATG	59.4	319	INTERGENIC	--	--	--
Ca7_P1_10893150	Ca7	10893150	AT/A	CGCTGAAGATTCTGATG AACA	GTGGGATGGAGAGAC GACAT	59.9	393	INTERGENIC	--	--	--
Ca7_P1_10896204	Ca7	10896204	GTTT/GTTTT	TCCGATTATGCTTTGT TCG	TTTAGGCTAATTGATC CGCTG	58.8	121	INTERGENIC	--	--	--
Ca7_P1_10899870	Ca7	10899870	ATCT/AT	TTCCAGTGTCCATCCA TTCA	ATATGGAGCTGGTGGT GGAG	59.9	594	INTERGENIC	--	--	--
Ca7_P1_10904245	Ca7	10904245	CATATAT/CATAT	TAGCATTGGAATGGAC CACA	CTCACGTGACTTTGGC AGAA	59.9	765	DRR	Ca_12847	--	--
Ca7_P1_10904696	Ca7	10904696	AT/A	CAGGTGCATCCTCTCC AAAT	TGCAGCATCGACACTT TAGG	60.1	333	DRR	Ca_12847	--	--
Ca7_P1_10905837	Ca7	10905837	ATTT/ATT	TGCACGGCCAACAAT ATAA	ACTCCAGCTAGCCCAA GTCA	60.0	383	INTRON	Ca_12847	--	--
Ca7_P1_10909867	Ca7	10909867	T/TG	AGCGCAAAACATTGAC ACAT	TGATTGAGTGGGAAA TGCT	59.2	196	INTERGENIC	--	--	--
Ca7_P1_10910160	Ca7	10910160	GATATATATATAT/GATATATATAT	AGCGCAAAACATTGAC ACAT	TTCCTTGCTTCTTGCA ATTTT	59.2	779	INTERGENIC	--	--	--
Ca7_P1_10913851	Ca7	10913851	AT/ATCAACATTTTAAATT	TTCTTTGGTTTTAGAGA AAGATGG	TGATTGCATCCTTACA CGCT	58.1	652	DRR	Ca_12848	--	--
Ca7_P1_10914028	Ca7	10914028	G/GTTTACGGT	TGGTTGGGCTAATCCT TCTTT	GGTGATAAGGTGATTG CATCC	60.0	139	DRR	Ca_12848	--	--
Ca7_P1_10915266	Ca7	10915266	GTAT/GTATAT	CAAGCGGAAGTTTTTC GCTA	TTTTGCATCTGCAAGC AATC	60.5	496	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_10918664	Ca7	10918664	AAA/AAATGAA	CGACTTAACTGCAAC CCGT	TTTGATGGTGGTGAA CTGA	60.2	832	INTERGENIC	--	--	--
Ca7_P1_10925014	Ca7	10925014	TAAAAAAAA/TAAAAAAAAA	CAATAACGCGGGAGAA CAAT	CCCAACAATCAATCAT GCAA	60.0	401	DRR	Ca_12849	--	--
Ca7_P1_10925493	Ca7	10925493	CATATTTATCCAATATTTA/CATATTTA	TTGCATGATTGATTGTT GGG	CCGGCATAGAGATCG AAGAC	60.3	517	INTERGENIC	--	--	--
Ca7_P1_10933358	Ca7	10933358	TAAAA/TAAAAA	GGCGAAAGAGAGAGT GATTTTT	TGTTTTATGATTGGT GAGATTAGA	59.0	480	INTERGENIC	--	--	--
Ca7_P1_10936810	Ca7	10936810	ATTTTT/ATTTTT	AACGTGGTGAATTTCC TGGC	TGCAAAATTAGAACCT CCAAAAA	59.0	499	INTERGENIC	--	--	--
Ca7_P1_10937736	Ca7	10937736	TCAACACAACACA/TCAACACA	TGCCACGTCAACTGAT GTTT	CAAAGATCTCGCAGCA ATGA	60.2	681	INTERGENIC	--	--	--
Ca7_P1_10938162	Ca7	10938162	TAA/TAAAA	AACACAACACACGGGT AGCA	TATTCATCCCTCCGA CAAC	60.1	661	INTERGENIC	--	--	--
Ca7_P1_10939010	Ca7	10939010	AATATATATATATATATA/AATATAT ATATATATATA	TAATGTTGGTGGTGGG GTTT	TAGCAGCTCCTCACGT TTCA	59.9	118	INTERGENIC	--	--	--
Ca7_P1_10939425	Ca7	10939425	TAAAA/TAAAA	TAATGTTGGTGGTGGG GTTT	GGTTATCAACTCGTGG GTGG	59.9	621	INTERGENIC	--	--	--
Ca7_P1_10942606	Ca7	10942606	TTCTCT/TTCT	TCTTGTAGCAAGGGCA TGTC	CATCCCCACCAACAT TAAG	59.9	388	INTERGENIC	--	--	--
Ca7_P1_10943416	Ca7	10943416	CTATAT/CTATATATAT	TGAATTTCAATCAATTA TGCATCC	AAACCAACTTAATCGC GGTG	60.1	462	INTERGENIC	--	--	--
Ca7_P1_10943662	Ca7	10943662	TAAAAAA/TAAAAAA	AGCACTGACCAGGTGA TATGG	AAACCAACTTAATCGC GGTG	60.0	249	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_10944289	Ca7	10944289	CTATA/CTATATA	CCAGCAACATAATTGG AGCA	CCCTGAGCACAGTGA CAGAA	59.7	828	INTERGENIC	--	--	--
Ca7_P1_10944877	Ca7	10944877	TA/TAATCAA	AGGCGGGATTTTAGGC TTTA	TCTCAACCACAAAGGA AGGA	60.1	547	INTERGENIC	--	--	--
Ca7_P1_11027626	Ca7	11027626	ATATTTT/AT	AGTGGCATTGGATGTT TGAT	CCAATCCAAGGACGGA TCTA	57.9	812	INTERGENIC	--	--	--
Ca7_P1_11032959	Ca7	11032959	ATT/AT	GAAATTCAGTTGAGGG ACCG	CTTCTCGAGGAGCGA CCT	59.5	294	INTERGENIC	--	--	--
Ca7_P1_11033308	Ca7	11033308	ACTCT/ACT	CTCCTCGAGAAAGCGA CCTT	AAACCTTGACGCGTT AAAA	61.0	652	INTERGENIC	--	--	--
Ca7_P1_11034555	Ca7	11034555	GTGTA/GTGTATGTA	TGTCAATGTCAACCCA TGCT	TCAAAAGGCCACCTCT TCAT	60.0	270	INTERGENIC	--	--	--
Ca7_P1_11035832	Ca7	11035832	GTTTTTT/GTTTTTTTTT	GAAGTGGTATCGGTGG CCTA	AGTAGATGCTTGATTG CCCG	60.0	463	INTERGENIC	--	--	--
Ca7_P1_11057154	Ca7	11057154	CATCAGA/CATCAGATCAGA	TGATCTTTAATGTGGG TGCAA	CTCAAGACACCACCCG ATTT	59.0	154	INTERGENIC	--	--	--
Ca7_P1_11063498	Ca7	11063498	TATTGA/T	AAATTTAATTGCGTGTG CCG	ATCTACCACTCGCCAT CCAG	59.8	174	INTERGENIC	--	--	--
Ca7_P1_11065887	Ca7	11065887	AC/ACTTAAACTTC	ACCGTGGCTAGACAAA GTGG	TTGGGGTTGAGACACT GACA	60.2	768	INTRON	Ca_09379	--	bHLH
Ca7_P1_11070487	Ca7	11070487	AATATATATATATATATATAT/AATA TATATATATATATAT	GGCCTGCCAATTCTGT TTAT	GTTTCGATTCTGGGGA TCTA	59.0	290	INTERGENIC	--	--	--
Ca7_P1_11070576	Ca7	11070576	TATAGATAGATAGATAGATA/TATAGA TAGATA	GGCCTGCCAATTCTGT TTAT	GTTTCGATTCTGGGGA TCTA	59.0	290	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_11073665	Ca7	11073665	TA/TAA	TTGCAGCATCACTAG GCAC	CCTCTCCCAATCGCT ACAA	60.0	649	INTERGENIC	--	--	--
Ca7_P1_11073896	Ca7	11073896	CGG/CG	GACAAACAACCAAC CTGTGA	CCTCTCCCAATCGCT ACAA	59.9	549	INTERGENIC	--	--	--
Ca7_P1_11074158	Ca7	11074158	TT/TTCT	TACCGATTGCCATCCT TAGC	ATTACCTTTTCATATTC GTTTTCTAA	60.1	576	INTERGENIC	--	--	--
Ca7_P1_11074298	Ca7	11074298	TAAATTAAAAATTAA/TAAATTAAA	TACCGATTGCCATCCT TAGC	TTTTCAAGTAGGGTAC CTCAATTTTT	60.1	831	INTERGENIC	--	--	--
Ca7_P1_11074395	Ca7	11074395	TAAAAAAA/TAAAAAAA	TACCGATTGCCATCCT TAGC	GCAGAACTTTGCACAA CACC	60.1	919	INTERGENIC	--	--	--
Ca7_P1_11075792	Ca7	11075792	ATATTACTATTA/ATATTA	ATGCAAAAGTCGGTCA TCCT	GATTTGGAATGAGTG CGGT	59.6	544	INTERGENIC	--	--	--
Ca7_P1_11076035	Ca7	11076035	GAAA/GAA	TTGGGACTGTACGATT CAGC	TTGGTTTTTGGATTCA AGGC	58.7	525	INTERGENIC	--	--	--
Ca7_P1_11079201	Ca7	11079201	CAAA/CAAAA	AAAGAAGGGTTGAGA GGGA	GAGCAGAAAGTGGA AGTGC	60.0	553	DRR	Ca_09378	--	bHLH
Ca7_P1_11080343	Ca7	11080343	AAAAGTA/AA	TTGCTGTTTTTGTCCAT TATTTTC	TTTGGCGTGCTTTTAA CGTG	59.5	761	INTERGENIC	--	--	--
Ca7_P1_11082023	Ca7	11082023	TT/TTTTATCT	CAAAATTCCTACAGGC CCAA	GACGTGGCACAGTCTA ATGC	59.9	916	INTERGENIC	--	--	--
Ca7_P1_11084040	Ca7	11084040	CCT/CCTCT	AATATGTCACCTGCCC TAAAAA	AATAACGCCAACAGGT TTCG	57.7	270	INTERGENIC	--	--	--
Ca7_P1_11084744	Ca7	11084744	TAAAAAAA/TAAAAAAA	TTTGCCAAATTTCTCAA CCC	CGTTGTTGTGGAAACC TTGTT	59.9	889	INTRON	Ca_09377	--	bHLH

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_11089497	Ca7	11089497	AATATATATATATATATATATATAT T/AATATATATATATATATATATATAT	TGTATGTCAACGGGAC CAGA	CTTATAAGGACGTCGC AGGG	60.0	455	INTERGENIC	--	--	--
Ca7_P1_11090045	Ca7	11090045	AT/A	AGCCACATCAAGATGT TCACC	GCATTTTACGGAGGCA AAAA	60.0	421	INTERGENIC	--	--	--
Ca7_P1_11092070	Ca7	11092070	CATAT/CATATAT	CGTCCGGTCAAATGA AGTT	CCGAACCCAATTTCCC TAAT	60.0	497	INTERGENIC	--	--	--
Ca7_P1_11100326	Ca7	11100326	T/TA	AACCTATGGCGGAGCT CTCA	ATGTCCACCACATGCG ATAA	60.0	430	INTERGENIC	--	--	--
Ca7_P1_11101213	Ca7	11101213	CTTT/CTTTT	TTGAATTGTGGGCACT CAGA	TGGTCCCCTAAGTTC AACA	60.2	528	INTERGENIC	--	--	--
Ca7_P1_11101266	Ca7	11101266	CT/CTT	TTGAATTGTGGGCACT CAGA	TGGTCCCCTAAGTTC AACA	60.2	528	INTERGENIC	--	--	--
Ca7_P1_11101624	Ca7	11101624	ATTTTT/ATTTTTT	TGTTGAACTAGGGGG ACCA	AGTGGAAGTTGTTTCG GTGG	60.3	631	INTERGENIC	--	--	--
Ca7_P1_11103330	Ca7	11103330	GT/G	TGCGAGAGGGTTTCAC TCTT	GCCTTGCAAATTCAC CCAT	60.0	594	INTRON	Ca_09376	G	--
Ca7_P1_11111495	Ca7	11111495	T/TTAATAATGT	TTGGATTCAAGGATCA AGGC	TGAGGGGAAGGACTA TTTGC	60.0	472	INTERGENIC	--	--	--
Ca7_P1_11117656	Ca7	11117656	CAAGAAAAAGAA/CAA	GGTTCGTCGCGTAGAT TTTG	AAAAATGGAAGGAAGG GTGG	60.6	437	DRR	Ca_09375	--	S1Fa-like
Ca7_P1_11118723	Ca7	11118723	CAAA/CAAAA	TGCATCCAAGAACACC GTAA	AATGTCGTTTTGGTTC CAGC	60.1	774	INTERGENIC	--	--	--
Ca7_P1_11120353	Ca7	11120353	AATATATATATA/AATATATATA	TTGGTAGTGAGGGCTC TTGC	TGCATTTGAGTGCTTT TCCA	60.4	803	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_11120511	Ca7	11120511	TA/TAATTTAAA	CCACTCACTGCTTGT TATCC	TCGGGAAATGTTGTT GTCA	59.9	913	INTERGENIC	--	--	--
Ca7_P1_11120750	Ca7	11120750	ATT/AT	CCAGCTGGACATTCAA ATCA	TCGGGAAATGTTGTT GTCA	59.6	289	INTERGENIC	--	--	--
Ca7_P1_11121486	Ca7	11121486	ATTT/ATTTT	TCCGATGTTGCTGTTG TCAT	TTGGAGAATTGGTAG CGTTG	60.1	373	INTERGENIC	--	--	--
Ca7_P1_11122293	Ca7	11122293	CTTTTT/CTTTTTT	GTAGCCCACTCAATTG GCAT	TTTTTGCAATCCAGCT TCCT	60.0	634	INTERGENIC	--	--	--
Ca7_P1_11122983	Ca7	11122983	ATTTTT/ATTTTTT	AGGAAGCTGGATTGCA AAAA	AAGGTGTCGTCCAAAC CAAA	59.8	524	INTERGENIC	--	--	--
Ca7_P1_11123269	Ca7	11123269	ATT/AT	TTTGGTTTGACGACA CCTT	TGCAACCATATGAAGC AAAAA	60.4	319	INTERGENIC	--	--	--
Ca7_P1_11133587	Ca7	11133587	ATAATTAATTAATTAATA/ATAATTA TTAATTA	TCGTTGTCTTAGTGCG ATTTTT	TAAAAGACCAGGTGTT GGGC	58.9	844	INTERGENIC	--	--	--
Ca7_P1_11134494	Ca7	11134494	GCTGTGGCCTGTGG/GCTGTGG	CAGGGACATACCGTCG ACTT	TTTTTGATTGCACCGC ATAA	60.0	371	INTERGENIC	--	--	--
Ca7_P1_11135296	Ca7	11135296	ATTT/ATT	CACCTGCGTTGTTTTG TTTTG	CTTAGCAGACACCCC CACA	59.3	564	INTERGENIC	--	--	--
Ca7_P1_11135437	Ca7	11135437	AATA/AA	CAAAGTTCGCTTTGCA ACAT	CTAGGCGCACGTGTC AATAA	59.0	534	INTERGENIC	--	--	--
Ca7_P1_11136278	Ca7	11136278	ATTTTT/ATTTTTT	TTTCACGTGTCATAG CTCG	CCTAATCCATACGCAA ATCCA	60.0	526	INTRON	Ca_09374	C	--
Ca7_P1_11139797	Ca7	11139797	CTGT/CT	TTGGCTCGTTTTGTTT TCC	CACCATACGTTGGTCC ACTG	60.1	357	DRR	Ca_09373	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_11145622	Ca7	11145622	CAAA/CAA	GGCAGGGGCAATAA CCAT	CCATACTGAATGGAGC GGAT	60.9	591	INTERGENIC	--	--	--
Ca7_P1_11147854	Ca7	11147854	AT/A	TCAAGTTCAATTCTCCT TCAAAA	ACCAGCAGCTTCTTCG ATGT	58.0	350	INTERGENIC	--	--	--
Ca7_P1_11149506	Ca7	11149506	ACCCC/ACCCC	TAAGACACGGAGCAAT GCAG	AATCGAAGTTTGGTTG TCGAA	60.0	227	INTERGENIC	--	--	--
Ca7_P1_11151221	Ca7	11151221	AC/A	ATCGGACTTCAAACAC CACC	CCTTTGTCTTCTTGG CAGC	59.8	632	INTERGENIC	--	--	--
Ca7_P1_11153911	Ca7	11153911	GAAT/GAATAATATTAAT	TGAGACGACGAAATCA CGAG	ATTGGATTGATTTTCG GTCG	60.0	501	INTERGENIC	--	--	--
Ca7_P1_11154403	Ca7	11154403	AACCGCA/AACCGCACCGCA	ATCGACCGAAAAATCA TCCA	AAAGAGTGAGCCGAC CATTG	60.3	317	INTERGENIC	--	--	--
Ca7_P1_11160281	Ca7	11160281	TG/T	CGCCACAATCACAAGG TATG	AGGGACCACACCAACA AAAG	60.0	562	INTERGENIC	--	--	--
Ca7_P1_11160513	Ca7	11160513	TAAAAAA/TAAAAAA	CGCCACAATCACAAGG TATG	AGGGACCACACCAACA AAAG	60.0	562	INTERGENIC	--	--	--
Ca7_P1_11160815	Ca7	11160815	AGGGGGG/AGGGGGGGG	CTTTTGTGGTGTGGT CCCT	TGTGCTGCTGAGGAAA ATGA	59.9	353	INTERGENIC	--	--	--
Ca7_P1_11166262	Ca7	11166262	ATTTTTTTTT/ATTTTTTTTTTTT	TTCCAATTCAATGGCA TGAG	CATTGACACGCCAAAC TGTC	59.5	830	INTERGENIC	--	--	--
Ca7_P1_11166451	Ca7	11166451	CATAATAATAATAATAATAATA ATAATAATAATAATAATAATAA TAAT/CATAATAATAATAATAATA TAATAATAATAATAATAATAAT AATAATAATAATAAT	TTTGATGATTTTTCACA AACGTG	CATTGACACGCCAAAC TGTC	59.9	498	INTERGENIC	--	--	--
Ca7_P1_11166890	Ca7	11166890	AAT/AATCAT	CATGTCAGAATGTGCT GGCT	GAGGGCACAATAGG GTCAA	59.9	572	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_11167347	Ca7	11167347	GAAAAAA/GAAAAA	TTGACCCTATTGTGC CCTC	CATCATGGCATTGCA TTTC	59.9	379	INTERGENIC	--	--	--
Ca7_P1_11180833	Ca7	11180833	GTATATAT/GTATAT	TTCCAAACCGAGATGA ATCC	TGATAAAATAAGGGAC CGGAAA	59.9	380	INTERGENIC	--	--	--
Ca7_P1_11180939	Ca7	11180939	TCCGG/T	TTCCAAACCGAGATGA ATCC	CCCACTCATTTACACA ACATCC	59.9	659	INTERGENIC	--	--	--
Ca7_P1_11185138	Ca7	11185138	GTTTTT/GTTTT	TTGTACCATGTGCCCT CAAA	TAAATTCCTGAGCCCA ATCG	60.0	693	DRR	Ca_09372	--	MYB_related
Ca7_P1_11188807	Ca7	11188807	ATTTTTT/ATTTTTTT	TGGTCTTGGTTGGATT GACA	ACCTAAACACGGGAT GCTG	59.9	661	INTERGENIC	--	--	--
Ca7_P1_11189022	Ca7	11189022	TAAAAA/TAAAAA	TTGCATTCAATTTGAG CAG	TGCTTCTTCGCAATTA CATCA	59.8	236	INTERGENIC	--	--	--
Ca7_P1_11191001	Ca7	11191001	ATT/ATTT	TGCTCATTTTGTCTTC TTTTTGT	TGTGAAAAATTAGCAA GAAATTCG	60.5	609	DRR	Ca_09371	K	HD-ZIP
Ca7_P1_11191436	Ca7	11191436	TAAAAA/TAAAAA	TCGACATGTCACTCAT GTGAT	GCTCACGTGTTTCTGT CTGC	57.4	467	DRR	Ca_09371	K	HD-ZIP
Ca7_P1_11204112	Ca7	11204112	ATTTTTTT/ATTTTTTT	TTGATCAACGGAGGAA CTCA	TGCTTCCATTTTCATG TTCAA	59.2	914	INTERGENIC	--	--	--
Ca7_P1_11205713	Ca7	11205713	AA/AAATA	ACCATGTCACTCCCCA TTGT	TTCCATTTGTTTCTCT GCCC	60.1	395	INTERGENIC	--	--	--
Ca7_P1_11219786	Ca7	11219786	CAAA/CAAAAA	CATCAATGTCAATTTGTC ACCG	ACTCGAAGGGATTGTT TCCA	59.8	724	DRR	Ca_09370	OR	--
Ca7_P1_11224360	Ca7	11224360	TGATCTTAA/TGATCTTAAGATCTTAA	AACCAAAGTGTGTGCA GCAG	AGGGTGGCCTCCAGT AGTTT	59.9	534	INTRON	Ca_09369	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_11229011	Ca7	11229011	CTTAAATTAAA/CTTAAA	CGCAATACGTTTAATG CTACC	TCTCAGCAAGCAAACA ATGG	57.5	304	DRR	Ca_09369	--	--
Ca7_P1_11229428	Ca7	11229428	TTATA/TTATATA	CCATTGTTTGCTTGCT GAGA	TTGTCTGTCTTTTGTG CGGA	60.0	309	INTERGENIC	--	--	--
Ca7_P1_11229799	Ca7	11229799	TATCAATGTTTCTAAT/TAT	TCCGCACAAAAGACAG ACAA	CCTGGTGCAGGTTTGA TCTT	60.4	473	INTERGENIC	--	--	--
Ca7_P1_11230391	Ca7	11230391	ATT/ATTT	GGTCGATGCAACCTGA ATTT	GGGAGGAAAGGAAAG AAGGA	59.9	903	INTERGENIC	--	--	--
Ca7_P1_11230451	Ca7	11230451	GAGAAA/GA	CAGAGCCGGAACACAA AGAT	AGCCCTCCCCATGTTT TAAT	60.3	953	INTERGENIC	--	--	--
Ca7_P1_11236143	Ca7	11236143	TAA/T	TTCATTGGATTGTGTG TGCAT	TATTTGAGTCCGAGTT GGGG	59.8	529	INTERGENIC	--	--	--
Ca7_P1_11238723	Ca7	11238723	GGTGT/GGTGTGT	AACCACATTCGTCTAT CCGC	AATCGATTTTGCACTT TGGG	60.0	227	INTERGENIC	--	--	--
Ca7_P1_11246244	Ca7	11246244	GTTTTTT/GTTTTTTT	TTGATCGTTCCATTG GTCA	TTGAAATCAGCGGCGT AAAT	59.9	499	INTERGENIC	--	--	--
Ca7_P1_11246580	Ca7	11246580	TAAAAAAA/TAAAAAA	ATTTACGCCGCTGATT TCAA	TGAACAGCAAATTTGT CCAC	60.6	522	INTERGENIC	--	--	--
Ca7_P1_11246939	Ca7	11246939	GAAAAAA/GAAAAAA	ATTTACGCCGCTGATT TCAA	AATTGCATACCACCGG AAAA	60.6	747	INTERGENIC	--	--	--
Ca7_P1_11257164	Ca7	11257164	GAGTA/GA	GGGAGCCCAAAAAGAA AAAG	AGAACCAGGTTGTTT CGTG	60.0	309	CDS (large-effect mutations)	Ca_09367	T	--
Ca7_P1_11268569	Ca7	11268569	CATATATATATAT/CATATATATATAT T	TTTTAACTCGTCCGGG TCAC	TCTCCCAAATTCCTAC CCCC	60.0	486	DRR	Ca_09366	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_11268620	Ca7	11268620	ACT/ACTTCGTCT	TTTAACTCGTCCGG TCAC	TCTCCAAATCTTAC CCCC	60.0	486	DRR	Ca_09366	--	--
Ca7_P1_11272809	Ca7	11272809	TAAA/TAAATAAAA	ACGCTCGTGGAATT GCTT	ACGGAGTTCGTAGTGC GTTT	59.9	516	INTERGENIC	--	--	--
Ca7_P1_11283301	Ca7	11283301	CTATA/CTA	TTTTTAAATTTGGGAG GGCA	ATTGCAGGTCCCAATT ATGC	59.4	886	DRR	Ca_09365	--	AP2
Ca7_P1_11286406	Ca7	11286406	GAAATAAATAAATAAATAA/GAA ATAAATAAATAAATAAATAA	GTAGCAATCCCCACCA AGAA	TCATGCAAGCAAGAAG ATGG	59.9	460	INTRON	Ca_09365	--	AP2
Ca7_P1_11289048	Ca7	11289048	CATTATT/CATTATTATT	CTCAGCTCTGCTATGG ACCC	CCATGAATCACAGCCA TCAC	60.0	562	INTERGENIC	--	--	--
Ca7_P1_11290025	Ca7	11290025	GTT/GTTT	TATGTGCCTCACCAA ATGC	CTATGCCAATTCACC ATGC	59.5	708	DRR	Ca_09364	Q	bHLH
Ca7_P1_11293260	Ca7	11293260	AT/AATAGACT	TGCAGTGTGATGGGAG ATGT	GCCCCTCACAAACACA AAGT	60.1	659	INTERGENIC	--	--	--
Ca7_P1_11299204	Ca7	11299204	TAAAGACAAAAA/TAAA	CAAGAGTGCCACCACA GCTA	GATCTTTGGGACCAAG ACCA	60.0	542	INTRON	Ca_09363	S	--
Ca7_P1_11299886	Ca7	11299886	TTCTCTCTCTCTCTCT/TTCTCTCT CTCTCTCT	GTAGGGTTGTTGCCAT TGCT	TGGTCCAAAATCATCA TCCA	60.0	600	INTERGENIC	--	--	--
Ca7_P1_11300419	Ca7	11300419	CCATCATCAT/CCATCAT	TATGCAAATTTACGG CGCT	TTTTCACCATCTCCAA TTCCTT	60.8	802	INTERGENIC	--	--	--
Ca7_P1_11301021	Ca7	11301021	ATG/A	TGAATCGTATTCGTGA TCGG	AGGCAAAATCTCTCAT GCGT	59.5	306	INTERGENIC	--	--	--
Ca7_P1_11304369	Ca7	11304369	ATT/ATTT	TGTCCAGCCAACAATC AAAA	AGTGATTGGGCTGTGA CTCC	60.1	840	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_11304831	Ca7	11304831	ACCCC/ACCC	GGAGTCACAGCCCAAT CACT	AGCCGCGTTTCATAAG GTAA	60.1	113	INTERGENIC	--	--	--
Ca7_P1_11307292	Ca7	11307292	TAAAAAAAA/TAAAAAAAA	TTTTCCACGAAGAATT GCC	AAAGAATTCGTACTT GCATGG	60.1	206	INTERGENIC	--	--	--
Ca7_P1_11309473	Ca7	11309473	AT/A	CATTGGACAAGCACAA AACAA	CCGTTTAAATACCTT CTCAAAAGA	59.6	200	INTERGENIC	--	--	--
Ca7_P1_11313507	Ca7	11313507	CTTTTT/CTTTTT	TGGACAAATATTGCAT CATGG	CCTTCACCTGTTTAAG GAAATATAA	59.2	593	INTERGENIC	--	--	--
Ca7_P1_11318561	Ca7	11318561	ATACTTACCT/AT	AAAAGTATGGTCCATC CAGGG	ATGCTAGGCTGGACCA AGAG	60.1	368	INTERGENIC	--	--	--
Ca7_P1_11325273	Ca7	11325273	TC/T	GCCTCGTTAGGGACAT CAAA	AGACCAGATTGCCGA AATG	60.1	523	INTERGENIC	--	--	--
Ca7_P1_11325818	Ca7	11325818	TAATAATAACAATAATA/TAATAATA	CATTTGGCAAAATCTG GTCT	GGCCTGAATCTTTAA ATAGGCA	60.1	446	INTERGENIC	--	--	--
Ca7_P1_11339207	Ca7	11339207	TT/TTACAATAAT	TGGGTACAAATTGAAT CTTAGCA	GTGCAAAAAGCATGAT GGTG	58.7	386	INTERGENIC	--	--	--
Ca7_P1_11339276	Ca7	11339276	CATATATATATA/CATATATATATATA	TGGGTACAAATTGAAT CTTAGCA	GTGCAAAAAGCATGAT GGTG	58.7	386	INTERGENIC	--	--	--
Ca7_P1_11342338	Ca7	11342338	TACACA/TACACACA	AGAGTTCAATCCTCAC CCCC	TGCAACTCTACGGAGC AATG	60.3	665	DRR	Ca_09361	--	--
Ca7_P1_11343583	Ca7	11343583	ATTCACCTTCACTTC/ATTCACCTTC	TGTTCCATACACCCCA CCTT	TGCAGTTCAACATTTG TTTCC	60.1	531	DRR	Ca_09360	--	--
Ca7_P1_11345461	Ca7	11345461	CTTTTTTTTTTT/CTTTTTTTTT	CCACTGGTGCTTCTT CCAT	GATGCTCCAAATCTT CCCA	60.1	401	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_11347604	Ca7	11347604	GATGTA/GA	CAAAACAGAATGCGAG CAAA	CGACCCTCGTAGATTG GCTA	60.0	779	INTERGENIC	--	--	--
Ca7_P1_11349622	Ca7	11349622	GAAA/GAA	CCTTCTCCCCCTTCTC TTTG	ATCGCAGCTTCAACCT TCTT	60.2	967	INTERGENIC	--	--	--
Ca7_P1_11357147	Ca7	11357147	TAAAAAAAAA/TAAAAAAAAA	TGGGGGAAGACACTAA AAGC	TCCACAATTTTCAAA GCCA	59.2	681	INTERGENIC	--	--	--
Ca7_P1_11370173	Ca7	11370173	TA/TAA	TGAGCATAATCGTTTTA TTCACG	AAATGGGCAGACAAA CATC	59.2	690	INTERGENIC	--	--	--
Ca7_P1_11375539	Ca7	11375539	TA/T	CAGATTGTTCGGACT GGGT	GGTCGACACATCCTCA CCTT	60.0	759	INTERGENIC	--	--	--
Ca7_P1_11380585	Ca7	11380585	ATC/ATCTAGAATGGTC	TCCGATTTTGTCCATC CTTC	CGTGAGTCCAAAAGTG CAAA	59.9	399	DRR	Ca_09358	--	WRKY
Ca7_P1_11395039	Ca7	11395039	TAA/TA	TTGGTACGGGCCATCT GTAT	ATACGCCTTCATTCCT TCCC	60.2	603	INTERGENIC	--	--	--
Ca7_P1_11397404	Ca7	11397404	GTTTTTTTTT/GTTTTTTTTT	TCAAGGTTGCGTTTT CCTT	CAACGTTAAGAATCGA TGGGA	59.7	670	DRR	Ca_09356	C	--
Ca7_P1_11398309	Ca7	11398309	CT/CTT	TTTTGATACCTTAGTCG GCCA	ACCATCCATGGGAAAT TGAA	59.6	597	DRR	Ca_09356	C	--
Ca7_P1_11405166	Ca7	11405166	GAAAAAAAAA/GAAAAAAAAA	TAACGATGGTTGATCG CAAA	CGTCCTCTTTGTACCC TCCA	60.1	537	INTERGENIC	--	--	--
Ca7_P1_11411096	Ca7	11411096	GTGTTTGTTT/GTGTTT	AAGGCTGCCATTGCTT CTTA	AGGTTTACACACGGAG CCTG	60.0	613	INTRON	Ca_09355	--	MYB_related
Ca7_P1_11413494	Ca7	11413494	TA/TAA	AAGTCCCTGCAAATA CCAA	GGAAGCATGGAAGGA AATGA	59.4	598	DRR	Ca_09355	--	MYB_related

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_11415594	Ca7	11415594	TCC/TC	CATGCCGGTAAAAGTA ACCT	CTCCCAATTGTCCC AAGA	60.0	163	INTRON	Ca_09354	R	AP2
Ca7_P1_11428616	Ca7	11428616	GAAAAA/GAAAA	CCATGCAACTTCGACT TCAA	GGTGGTCAATGACACA GTGC	59.8	658	DRR	Ca_09352	--	GRAS
Ca7_P1_11430402	Ca7	11430402	CTTGTGTGTGTGTGTG/CTTGTG TTGTGTGTG	TCTGGGGAGGTGAGA AAGA	CTCAACTCCACCACCA CCTT	59.8	308	CDS (large-effect mutations)	Ca_09352	--	GRAS
Ca7_P1_11433827	Ca7	11433827	GAAAAAAAAA/GAAAAAAAA	TGGATTGGAACCTTT ATGG	ACAACAACACCACCGA CGTA	59.8	333	INTERGENIC	--	--	--
Ca7_P1_11438197	Ca7	11438197	ATTT/ATT	CTGTGCGTCATTCTT TCCA	TTGGCAATGTTCCCA GAAT	59.8	802	INTERGENIC	--	--	--
Ca7_P1_11441772	Ca7	11441772	ACTCT/ACT	GTGGAGGGCATTACAA TTTT	TTCATGTTTAATGCGA AGTGAGA	59.8	265	INTERGENIC	--	--	--
Ca7_P1_11444944	Ca7	11444944	ATTTTTTATTTTT/ATTTTTTATTTTT TTATTTTT	AAGCTGCAGCCAAGAG AGAG	CAACTGCTCTAAGCCA AGCC	60.0	700	DRR	Ca_09351	--	--
Ca7_P1_11445115	Ca7	11445115	A/AT	AAGCTGCAGCCAAGAG AGAG	CATAATGGGCCAAAAG ATGG	60.0	891	DRR	Ca_09351	--	--
Ca7_P1_11446223	Ca7	11446223	TTTTTAA/TTTTTAAATAAAATTTTAA	TTTGAAATGCAAAAC CTTCG	ACCTCTCACCCCTCCA TTTT	60.1	653	DRR	Ca_09351	--	--
Ca7_P1_11454815	Ca7	11454815	AGGG/AGGGG	GCAATGTTGTGAGGA CCAA	GATCTTCCCCTCGTCC TTTC	59.5	340	INTERGENIC	--	--	--
Ca7_P1_11457065	Ca7	11457065	AATATCATATCA/AATATCA	ATAGGAGCCGAGCTTT CACA	TGGTTTGGCCTGACCT ATTTC	60.0	682	INTERGENIC	--	--	--
Ca7_P1_11457796	Ca7	11457796	GCC/G	GGCTACCGAATATGGA ACGA	ACAGAGGTCTGTGGC CTGAC	59.9	290	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_11460107	Ca7	11460107	TATA/TATAAATATTTTCATA	CAAGCTCCACCACAGC TTTT	ATGCCTTTTGAGTGTG TCCC	60.4	647	INTERGENIC	--	--	--
Ca7_P1_11460758	Ca7	11460758	AGGGGGG/AGGGG	GGGACACACTCAAAG GCAT	TCCCCTCTCTTGCGTA ATTG	60.0	591	INTERGENIC	--	--	--
Ca7_P1_11460976	Ca7	11460976	CATATA/CATA	GGGACACACTCAAAG GCAT	AACAAGTGTGTCACGC GTTC	60.0	808	INTERGENIC	--	--	--
Ca7_P1_11466902	Ca7	11466902	ACC/AC	ACCGTCTGAAAACTC CCCT	TGATTGTCCCATATGC CCTT	60.0	390	DRR	Ca_09348	D	GATA
Ca7_P1_11471085	Ca7	11471085	ATTTT/A	ATCGTTAGCTCCAAG GTCA	TTGCAGGATGACAGCT TTTG	59.7	588	DRR	Ca_09347	TZ	--
Ca7_P1_11471139	Ca7	11471139	TAA/TA	ATCGTTAGCTCCAAG GTCA	TTGCAGGATGACAGCT TTTG	59.7	588	DRR	Ca_09347	TZ	--
Ca7_P1_11478534	Ca7	11478534	C/CCGTCAACTTG	ACCTTTAGCAACCAAC ACCG	GGACAATGAAAAATGG GAGG	60.0	463	INTERGENIC	--	--	--
Ca7_P1_11481982	Ca7	11481982	ATT/AT	GGAGGGACGATGTTAC TCCA	TCCACCAATTCGGTTG AATC	59.9	257	INTERGENIC	--	--	--
Ca7_P1_11486399	Ca7	11486399	GAATAAT/GAAT	CGCTGGATGCTGGAAA CTAC	TAACATCCCACCATT ACCG	60.8	721	INTERGENIC	--	--	--
Ca7_P1_11487806	Ca7	11487806	T/TG	TTGATGTTGAAGGGGG AAAG	GTCATTGGATATGGCC TCGT	59.9	631	INTERGENIC	--	--	--
Ca7_P1_11488210	Ca7	11488210	GAAAAAAAA/GAAAAAAAAA	ACGAGGCCATATCCAA TGAC	TGAAAATCTTGTGTTC ATCCAAA	59.8	655	INTERGENIC	--	--	--
Ca7_P1_11491947	Ca7	11491947	CA/CATA	GCACACAACTGATCGG AAAA	CAAAAAGTAATGCAT GTTTCG	59.7	485	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_11492767	Ca7	11492767	TACAACAA/TACAA	CCCTTCAAAGAAAGG AGGT	TCCCTCTCAACTTGAT TCCG	59.5	487	INTERGENIC	--	--	--
Ca7_P1_11494762	Ca7	11494762	CCTT/CCTTCTT	AGGAGCAGTTTGTGAG GTGC	GAAAGGTGACTTCCTC ACGG	60.5	223	DRR	Ca_09346	--	--
Ca7_P1_11506900	Ca7	11506900	T/TC	TGGACAAAAGAATTG TTATTGATG	ATCTGCTTGTTCGTT TTCA	59.3	504	INTERGENIC	--	--	--
Ca7_P1_11508051	Ca7	11508051	TAAAAAAA/TAAAAAAA	GGTTGCTGGTTTCCG TAGA	TAAGGGTGTGCACGAT GGTA	60.1	374	INTERGENIC	--	--	--
Ca7_P1_11511673	Ca7	11511673	C/CCCGCGAAACTT	TGACCCTAAGAACCCA CCAG	GGATGGGGTAAACATT GTCC	60.0	514	INTERGENIC	--	--	--
Ca7_P1_11511894	Ca7	11511894	ATT/AT	TGAGTGGTGGGAAAAG GATT	CCTTCTTTGGTCTTT GGGT	59.4	768	INTERGENIC	--	--	--
Ca7_P1_11517081	Ca7	11517081	CTATA/CTA	GGTGCAGTACACGACC TCAA	GGATGAGGGAACAAT GTGCT	59.8	487	INTERGENIC	--	--	--
Ca7_P1_11518406	Ca7	11518406	TTTAAAGACACATATTAAGA/TTTAA GA	CCTCAAGTGTGGCGTA GACA	ACGTGGCATGTGTTGT GAAT	59.9	796	INTERGENIC	--	--	--
Ca7_P1_11518780	Ca7	11518780	TAAAAAAA/TAAAAAAA	AGAAGAATTGGTGACG CGTT	ATGATGACGTGGCATG TGTT	59.9	279	INTERGENIC	--	--	--
Ca7_P1_11522015	Ca7	11522015	CAGAATCT/CAGAATCTAGAATCT	TCGGGCAAGAGCTAAA GAAA	TCTTCAATTGGGACC TTCG	60.1	365	DRR	Ca_09345	TDK	C3H
Ca7_P1_11530951	Ca7	11530951	TAAAAAAA/TAAAAAAA	TGAATCGGTACAAGTT TTTGGA	GACCCCGCATTGTAAA GAAA	59.5	664	DRR	Ca_09343	--	--
Ca7_P1_11540679	Ca7	11540679	TTTGT/TT	TTTTTATTTGGCCAT GGAA	CCGGAAAAATTGAAAC TCCA	60.1	531	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_11542682	Ca7	11542682	ATTTTTTTTT/ATTTTTTT	AAGTCCATGGAGCTA GGAA	TTTTTGGTTTGAGTATT ATGCGA	59.8	737	INTERGENIC	--	--	--
Ca7_P1_11543117	Ca7	11543117	ATGTGTGTGT/ATGTGTGTGTGT	TGCGATAATACTCAAA CCAAAAA	TTCAATCTCCGAGTCC GTTC	58.7	432	INTERGENIC	--	--	--
Ca7_P1_11545129	Ca7	11545129	CTTAA/CTTAAGAAAGTAAGGCATTAA	CCAAAGCTTTTATAAGC ATGCAA	TGTGAAAGGGAAGGA GATGG	60.0	311	INTERGENIC	--	--	--
Ca7_P1_11546882	Ca7	11546882	TAAAAA/TAAAAA	GGTTCGTCGGTGATTT GTTT	GGAGGTGTTTTCCAAC CTCA	59.8	476	DRR	Ca_09342	--	LBD
Ca7_P1_11547781	Ca7	11547781	GAAAAAAAAA/GAAAAAAAAA	GTAAGCCTGGCACAAC CAAT	TCAAAATTTAACTCCG TTTACCG	60.0	807	DRR	Ca_09342	--	LBD
Ca7_P1_11549671	Ca7	11549671	GTTTTTTTTT/GTTTTTTTTT	TCTCTTTGCATTGAGG TAAACAT	GAGTTAAAGTCATCGT GGAATCG	58.0	836	INTERGENIC	--	--	--
Ca7_P1_11549896	Ca7	11549896	TAAAA/TAAA	TGAATCACATACATGT GTTGAAAA	GAGTTAAAGTCATCGT GGAATCG	58.0	353	INTERGENIC	--	--	--
Ca7_P1_11554620	Ca7	11554620	CTTTTTTTTT/CTTTTTTT	CCGAGAGGAAAGAGT CACG	CCTCATGTTTCTCCAT TTCCA	60.0	551	INTERGENIC	--	--	--
Ca7_P1_11570159	Ca7	11570159	AG/AGG	ACTCGATGACGTCGAA AAGG	GACCATTGGTGAGC CTTAG	60.3	509	INTERGENIC	--	--	--
Ca7_P1_11571397	Ca7	11571397	GTATA/GTA	TCCACCAAGACGCCTT TAAC	CAAACTGATTGTGG CCCT	60.1	633	INTERGENIC	--	--	--
Ca7_P1_11573652	Ca7	11573652	TAAAAAAAAA/TAAAAAAAAA	CATAGCGGCAAGAAAA CACA	TTTTGTGTGACCACTT CCCA	59.9	774	INTERGENIC	--	--	--
Ca7_P1_11574550	Ca7	11574550	CTTTTTTTTT/CTTTTTTT	CCCCACTTCAAAAAGC TGAA	TCGTAACCAACCAAGA TCGTC	60.2	267	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca7_P1_11578266	Ca7	11578266	GTTT/GTTTT	GTCGTTGGAGCCGTTA AAGA	ATTCCATTGCACCTT CACC	60.2	515	DRR	Ca_09341	--	GRAS
Ca7_P1_11578530	Ca7	11578530	AATATATA/AATATA	TTGGAGCCGTTAAAGA GGTG	CCCATCAATCCACATT TTCC	60.2	749	DRR	Ca_09341	--	GRAS
Ca7_P1_11580871	Ca7	11580871	GTTTTT/GTTTTTT	TGGTGGGCCACAGTTA TGTA	GCATGTCCAAAATCAT TCCC	59.8	694	INTERGENIC	--	--	--
Ca7_P1_11582430	Ca7	11582430	TAA/TAAA	CCTGCTTCACTTCCAT CTCC	TGTGCAATGAGACCTC AACC	59.8	374	INTERGENIC	--	--	--
Ca7_P1_11582643	Ca7	11582643	CTTT/CTTTT	CCTGCTTCACTTCCAT CTCC	TGTGCAATGAGACCTC AACC	59.8	374	INTERGENIC	--	--	--
Ca7_P1_11585161	Ca7	11585161	G/GT	CGATAGTAGTTATGTA CACCCCA	AAAAGTTTGTGATGCA GGGC	59.2	489	INTERGENIC	--	--	--
Ca7_P1_11585943	Ca7	11585943	CTTT/CTTTTT	CTTAACCCACACGTGC CTTT	ATGCGAATTGAAGACG GAAC	60.0	212	INTERGENIC	--	--	--
Ca7_P1_11586111	Ca7	11586111	CTTTTTTT/CTTTTTTTTT	CAAACGGTTCCTTCTT CAAT	CACGACACAACACAAC CCTC	60.0	536	INTERGENIC	--	--	--
Ca7_P1_11590154	Ca7	11590154	CTTT/CTT	CGATTGGATGCTTTGT CCTT	GAATCTTTCCTTGCC AAAA	60.1	755	INTRON	Ca_09339	--	M-type
Ca7_P1_11592335	Ca7	11592335	TGGGG/TGGG	CACGAGCCAGTTGTCT TGAA	ACTGTGAGCGCACATA TTGG	60.0	464	INTERGENIC	--	--	--
Ca7_P1_11594132	Ca7	11594132	TC/T	TGTGAAAAAGTTGTAC CATCACA	TTCTTGAATATTTGCTA GGGGA	58.1	785	INTERGENIC	--	--	--
Ca7_P1_11600424	Ca7	11600424	GTAATTAAT/GTAAT	AGCTTCGCCGATGAAT AGAA	TGTGTGACAAGATCGC ATTT	59.9	325	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_11600742	Ca7	11600742	CAT/CATAT	AGCTTCGCCGATGAAT AGAA	ATCGACCATCTTCATG CTCA	59.9	734	INTERGENIC	--	--	--
Ca7_P1_11603621	Ca7	11603621	AAAT/AAATTAAT	AAACAAAGCGATGACA GCAA	ATGGTGGGGGATATG GTTTT	59.5	360	INTERGENIC	--	--	--
Ca7_P1_11608166	Ca7	11608166	AATTTAT/A	TGACGGTGCATGACAA TTAAA	TGTAGGGCACTTGTTA AGGGA	60.0	646	INTERGENIC	--	--	--
Ca7_P1_11613665	Ca7	11613665	TAAAAAAAA/TAAAAAAAA	TGCATGAGGAATAAGG TTTGG	GGGACATGAGGAAAA CCCAT	59.9	257	INTERGENIC	--	--	--
Ca7_P1_11624553	Ca7	11624553	TATTAATTAAT/TATTAAT	AGACTCCTTTTGGGGT TTCC	GCAAGACATTGACAAA ACTTTCA	59.4	303	INTERGENIC	--	--	--
Ca7_P1_11624660	Ca7	11624660	T/TA	AGACTCCTTTTGGGGT TTCC	TCGTCATAAGCTAACA AAACATGA	59.4	722	INTERGENIC	--	--	--
Ca7_P1_11640274	Ca7	11640274	A/AAG	AAGGTGCCCTTGCCAT TTTG	AGCAACAACATCCATC GTGA	60.0	473	INTERGENIC	--	--	--
Ca7_P1_11643181	Ca7	11643181	CTATA/CTATATA	CCGCAGTATCCACAAA TCCT	AGACGGATCAAACCAT ACCG	60.0	585	INTERGENIC	--	--	--
Ca7_P1_11647401	Ca7	11647401	ATTTTT/ATTTTTT	ACAACTTTGGAGACCG ATCA	TTTCCCTTCTGTGTTG GTGC	58.1	804	INTERGENIC	--	--	--
Ca7_P1_11663918	Ca7	11663918	GAC/GACAC	GCAGAAGTCGGGAGC ATAAG	GAGGGAAAGGCATGA TCAAA	60.0	460	DRR	Ca_09333	--	--
Ca7_P1_11665162	Ca7	11665162	ATGTGTGTGTGTGTGTG/ATGTGT GTGTGTGTG	ACCAACTCCCAACAT ACGG	AGAAAGCCATGTCGAT CCAG	59.7	378	INTRON	Ca_09333	--	--
Ca7_P1_11675229	Ca7	11675229	TC/T	CCAGGGTTCAAAACCT GAAA	TTGGTGGAGTCACATC TGGA	59.9	995	INTRON	Ca_09332	E	MYB_related

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_11678388	Ca7	11678388	GACTATAA/GA	ACACTCCTTCGAACGC CTAA	TTCTCTTGAAATGAGC TGGG	59.9	665	INTERGENIC	--	--	--
Ca7_P1_11678977	Ca7	11678977	TTTTATT/TTTTATTATTATT	CCCAGCTCATTTCAAG AGAA	AATTGCGTGAGAGCTT TTGG	58.0	732	INTERGENIC	--	--	--
Ca7_P1_11679259	Ca7	11679259	TAAA/TAA	AGTGGCACAACTAAAA TGCG	TACCACTCGAACCAAC ACCA	58.8	578	INTERGENIC	--	--	--
Ca7_P1_11687244	Ca7	11687244	TTGG/TTGGTGATGTCTGG	CGCAGTGAGGGAAT GAAT	TCCTCATCCTGACGCT CTTT	60.1	527	DRR	Ca_09331	--	G2-like
Ca7_P1_11691921	Ca7	11691921	TA/TAA	GTGGAAGGAAGTCG CAAG	GTTGGGGATTGGGG TTTTA	59.9	654	INTERGENIC	--	--	--
Ca7_P1_11692218	Ca7	11692218	AA/AATA	GGATGCACATTAGAGC GACA	GCTGAAGACACGTATG CGAA	59.8	759	INTERGENIC	--	--	--
Ca7_P1_11693038	Ca7	11693038	T/TAG	CGCGAAACACTCTTCA GTCA	GGAAACATTAGCACCC GAAA	60.2	341	INTERGENIC	--	--	--
Ca7_P1_11693673	Ca7	11693673	TG/T	TTTCGGGTGCTAATGT TTCC	ATTTATGCATTCCGCC GTAG	59.9	716	DRR	Ca_09330	--	--
Ca7_P1_11694137	Ca7	11694137	TTATATATATATATAT/TTATATATAT ATATATATATATATATATAT	CTACGGCGGAATGCAT AAAT	GGAAATTTAGCAAGG TCCA	60.0	463	DRR	Ca_09330	--	--
Ca7_P1_11697550	Ca7	11697550	TAATAATAAACTCTGAATAATAATA ACTCTGAATAATAA/TAATAATAA TCTGAATAATAAACTCTGAATAATA ATAACTCTGAATAATAA	GGCTATCGCTTATGCA GGAC	TTCAGCGATTATTCA ACGATT	59.8	709	DRR	Ca_09328	--	SAP
Ca7_P1_11698178	Ca7	11698178	TAATAAATCGCTGAATAA/TAATAAATC GCTGAATAAATCGCTGAATAA	AAATCGTTGAATAAATC GCTGAA	GATTTCATATGGGTG GTCC	60.0	480	DRR	Ca_09329	--	SAP
Ca7_P1_11705535	Ca7	11705535	G/GACTA	GCGAGTGATACTTTGT GGCA	CCGAGATTTAAATGGT CGTAGC	59.9	847	DRR	Ca_09327	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_11714431	Ca7	11714431	ATTTT/ATTT	AACGATGAGATGGCAA AAGG	GGCTTTGGTGCTAAGT CCAG	60.1	598	INTERGENIC	--	--	--
Ca7_P1_11729720	Ca7	11729720	CAAAAA/CAAAAAA	AACAAATCTTGGCCAT GGAG	GGCGTGTGCTTGGTA AGAGT	59.9	711	INTRON	Ca_09324	O	NAC
Ca7_P1_11732346	Ca7	11732346	TC/TCC	TTTCAGGCCAGACCA AACT	GGTCTTGATCCATGC CAGT	59.7	324	DRR	Ca_09323	--	ERF
Ca7_P1_11746112	Ca7	11746112	TAAAAA/TAAAAAA	ATGGAAGCGCATTATG GAAG	AGCGAGACCAATTGA TGAAT	60.1	520	INTERGENIC	--	--	--
Ca7_P1_11751654	Ca7	11751654	CTTT/CTT	CATGTTGACCACCTCC AATG	AGCCAAATTGGTTTCC ACAT	59.8	428	DRR	Ca_09321	--	C2H2
Ca7_P1_11756608	Ca7	11756608	ATAT/ATATAATTAT	CTTTGGGACAGTCTGG TGGT	CAAGACGGACTAGTG GGATGA	60.0	476	INTERGENIC	--	--	--
Ca7_P1_11757232	Ca7	11757232	TTAT/TT	TTAGACATGGCAAATG TCGC	CGACAACGGATGCAC AATA	59.7	496	INTERGENIC	--	--	--
Ca7_P1_11757918	Ca7	11757918	ATTTTT/ATTATTTTTT	TTTCCACAAATGCTG TTCTT	CTTCCGATTCTCCGTG TGAT	59.6	588	INTERGENIC	--	--	--
Ca7_P1_11757957	Ca7	11757957	A/AG	TTTCCACAAATGCTG TTCTT	CTTCCGATTCTCCGTG TGAT	59.6	588	INTERGENIC	--	--	--
Ca7_P1_11758471	Ca7	11758471	TACTCACTC/TACTC	ATCACACGGAGAATCG GAAG	CGGTGATTCATGACTC CAAT	60.1	508	INTERGENIC	--	--	--
Ca7_P1_11764530	Ca7	11764530	TA/TAA	AAAGGTGGAATCTACG CCCT	GGTCATTGAAGGAAG GCAAA	60.0	572	DRR	Ca_09320	R	Nin-like
Ca7_P1_1176487	Ca7	1176487	TTATATATATATAT/TTATATATAT AT	GGGATGGGTGGATTTC TTCT	TGGTCGGGACTTCAAG AAAC	60.1	542	DRR	Ca_03355	R	bHLH

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_11766475	Ca7	11766475	CATAT/CAT	CACACACTACCCAC AGGG	AGGTACCCCGAGTTT GCTT	59.9	608	INTRON	Ca_09319	B	NF-YA
Ca7_P1_11768911	Ca7	11768911	TC/T	AGGACCAATTTGGGA CACA	TGTACAGGGAGAGGG GACAC	60.2	400	INTRON	Ca_09319	B	NF-YA
Ca7_P1_11770685	Ca7	11770685	TAAAAAAAAA/TAAAAAAAAA	TATATTGATGGCTCT CGGC	ACAGTCTCTCCCTCG AGGT	60.0	942	INTRON	Ca_09319	B	NF-YA
Ca7_P1_11777681	Ca7	11777681	GACAA/GA	TATATGGTGGTGCCT CTTC	TGGTTCGCACAACTT TTCA	59.6	402	DRR	Ca_09318	H	STAT
Ca7_P1_11804133	Ca7	11804133	C/CT	TGCAACCAATCCAAT TCAA	TCAAACGAGCATGGAG AGTG	59.9	608	DRR	Ca_09315	T	Dof
Ca7_P1_11806847	Ca7	11806847	AATATATATATATATATATATATAT T/AATATATATATATATATATATAT	CATGGATCATGAGGT GTCA	TGACTCGGGTGTGAAT TGAA	60.3	563	INTERGENIC	--	--	--
Ca7_P1_11809179	Ca7	11809179	TA/T	TGGAGGTGGAATCAAC AACA	TCTCACCATTCCACCA ACAA	59.9	812	INTERGENIC	--	--	--
Ca7_P1_11814849	Ca7	11814849	AATTAT/AATTATTTAT	TCAATGTGATCATGTG ACGTGT	ATAAAAGCGTCAATCC GTGG	59.9	533	INTERGENIC	--	--	--
Ca7_P1_11833198	Ca7	11833198	TAAAAA/TAAAAA	CGTTGTCGGTCTTTCA AATG	TTCCCTCTTCAAGCA TGTC	59.2	907	INTERGENIC	--	--	--
Ca7_P1_11833362	Ca7	11833362	ATCTTTTTT/AT	TTCATTGGAGACATAT GTGGAA	TCATTCCTCTTCAA GCAT	59.3	769	INTERGENIC	--	--	--
Ca7_P1_11834363	Ca7	11834363	GTATATATAT/GTATATATATAT	TGTTGCTGACGGACAT TGAT	CATCCCCAATTTCTTT GACA	60.1	542	INTERGENIC	--	--	--
Ca7_P1_11834578	Ca7	11834578	ATT/AT	TGTCAAAGAAAATTGG GGATG	TGGATGATGACACAAT TTCCA	59.8	601	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_11835129	Ca7	11835129	CATATATATA/CATATA	TGGAAATTGTGTCATC ATCCA	TCCTTGTTGCTGCTGG TGAG	59.8	556	INTERGENIC	--	--	--
Ca7_P1_11835682	Ca7	11835682	CATATATATATATATATATA/CATAT ATATATATATATATATA	GTCTCACCAGCAGCAA CAAA	TTTTTGGCCGATGAGT ACCT	60.0	485	INTERGENIC	--	--	--
Ca7_P1_11836315	Ca7	11836315	TCAAATTTAA/TCAAATTTAATAACAAA TTTAA	AGGTACTCATCGGCCA AAAA	GCAACAAAAGAATCAA TCATGG	59.6	394	DRR	Ca_09314	GC	HSF
Ca7_P1_11837157	Ca7	11837157	ATTATTATTAT/ATTATTATTAT	TGTGTGGTCAATTTTAT GGCA	ACCGTAAACAAATGCC GTTC	59.8	718	DRR	Ca_09314	GC	HSF
Ca7_P1_11837248	Ca7	11837248	AC/A	TGTGTGGTCAATTTTAT GGCA	ACCGTAAACAAATGCC GTTC	59.8	718	DRR	Ca_09314	GC	HSF
Ca7_P1_11852240	Ca7	11852240	TA/T	GAACTGCGCTCATCAA AACA	CAAAGGAAAACGAGGA CCAA	60.0	677	INTERGENIC	--	--	--
Ca7_P1_11853726	Ca7	11853726	GAAA/GAA	GCATGTTTACGGGGAA ATGT	ATTGCCACCCATGTAC CATT	59.7	457	INTERGENIC	--	--	--
Ca7_P1_11854062	Ca7	11854062	TG/T	AATGGTACATGGGTGG CAAT	GCCCGTCTCAACTGCT ACAT	59.9	413	INTERGENIC	--	--	--
Ca7_P1_11873661	Ca7	11873661	ATTTTTTTTT/ATTTTTTTT	AAATTAAGGGGTTGTT CGGG	CCCTTCTTCTCTTTT CATGC	60.0	747	INTERGENIC	--	--	--
Ca7_P1_11874481	Ca7	11874481	GTTTTTTT/GTTTTTTTTT	TTCTTTTGAACAATGC CCC	AACTCTTTTGCAATG GTGG	59.9	412	INTERGENIC	--	--	--
Ca7_P1_11879779	Ca7	11879779	CACTA/CACTACTA	TGCTTTGGGCATATTT GGTT	TTTTAGAGGAAAGGCG GGAT	60.3	877	INTRON	Ca_09310	P	C3H
Ca7_P1_11883429	Ca7	11883429	TAAATA/TAAATACAAAATA	AGACTTGGGCAAGGGT TCTT	AGGGAAGGGAAAAAGA AAGCA	60.1	362	INTRON	Ca_09310	P	C3H

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_11883672	Ca7	11883672	TAAAA/TAAA	GCTTCTTTCCCTTCC CTG	GGGCTCAATTGCCTTG AATA	60.2	610	INTRON	Ca_09310	P	C3H
Ca7_P1_11884796	Ca7	11884796	GAT/G	AAGGGAAAGACCTCCC TTCA	AGGGCTGCATGAACAA ATTG	60.0	566	INTRON	Ca_09310	P	C3H
Ca7_P1_11892192	Ca7	11892192	TATTACTA/TATTACTAATATATAAATT ACTA	ATTAGGGAGAAACGGA GGGA	TTTTGTGCCCTAACAC TTAGCA	59.9	441	INTERGENIC	--	--	--
Ca7_P1_11893160	Ca7	11893160	AATATGGTACAT/AAT	AGAATCACCCAACAAC GAGC	CATTGATTAGCGCAAT GCTG	60.1	461	INTERGENIC	--	--	--
Ca7_P1_11894616	Ca7	11894616	TAGAA/TAGAAAGAA	CCGGTTAGAACCCAC CTTG	TGAGGAAATTCAAAA GCGG	60.4	526	INTERGENIC	--	--	--
Ca7_P1_11894962	Ca7	11894962	A/AGTT	CCGCTTTTTGAATTTCC TCA	AACCCAACACATGCA AACA	60.2	616	INTERGENIC	--	--	--
Ca7_P1_11895802	Ca7	11895802	TTTTAATTGATTTAATTG/TTTTAATTG	TCTTCGGGTCAATTG GAAG	CCATCAATCCCAAGA GTCAA	60.0	789	INTERGENIC	--	--	--
Ca7_P1_11898455	Ca7	11898455	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA	GTTGAGGCGTTAGGGT CAAA	TGGGCCCTTCTGCT ACTA	60.1	419	INTERGENIC	--	--	--
Ca7_P1_11899495	Ca7	11899495	AAAATAATTAA/AAAATAATTAAATAAA TAATTAA	CAACAGTGGATGATAA TTTGGAA	ACATGCCCCCTCACTA ATTG	58.9	781	INTERGENIC	--	--	--
Ca7_P1_11899776	Ca7	11899776	CTAAAGATTGTCTAATAAA/CTAAA	TTTTTGCAAATAGGTC GATGA	ACATGCCCCCTCACTA ATTG	58.3	193	INTERGENIC	--	--	--
Ca7_P1_11902231	Ca7	11902231	ATTTTTTTTT/ATTTTTTTTT	CCATTGCACAAGTCCT CAAA	TGAGCCCATTAATAC AGTGC	59.7	161	INTERGENIC	--	--	--
Ca7_P1_11902287	Ca7	11902287	AT/A	CCATTGCACAAGTCCT CAAA	TTCAACCCAAGGCCAT TTTA	59.7	568	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_11902457	Ca7	11902457	ATTTT/ATTTT	CCATTGCACAAGTCCT CAAA	CCATGCGGATTGAAAA ACTT	59.7	757	INTERGENIC	--	--	--
Ca7_P1_11902508	Ca7	11902508	TAAAAA/TAAAA	CCATTGCACAAGTCCT CAAA	CCATGCGGATTGAAAA ACTT	59.7	757	INTERGENIC	--	--	--
Ca7_P1_11908655	Ca7	11908655	CGAGGAGG/CGAGGAGGAGG	TGCGTGAACTTCGTGT TTTC	TGAACCCACCGTACCT TTTC	59.9	702	INTERGENIC	--	--	--
Ca7_P1_11909452	Ca7	11909452	TAA/TAAAA	AGGACAACGGAATCCA TCAG	ATAAGCTAGCCCCAAC GACA	59.9	735	INTERGENIC	--	--	--
Ca7_P1_11910180	Ca7	11910180	AATATATATAT/AATATATAT	GGGCTAGCTTATCCCA CCTC	TGGAGTTGTAATCTGG ACCG	60.1	538	INTERGENIC	--	--	--
Ca7_P1_11911166	Ca7	11911166	AAGA/AAGAGA	CAAATACAATGGCAGC TGGA	TGCAGGAGCATATGAC CAAC	59.7	305	INTERGENIC	--	--	--
Ca7_P1_11914121	Ca7	11914121	AAAA/AAAACAAA	TGGTTCACCAAGTTT GACC	GTTAATTGAGCCGAGC AAGG	60.8	598	INTERGENIC	--	--	--
Ca7_P1_11914209	Ca7	11914209	TAAAAA/TAAAA	TGGTTCACCAAGTTT GACC	GCAATGTTTCCGAGC AAAT	60.8	774	INTERGENIC	--	--	--
Ca7_P1_11917019	Ca7	11917019	TAAA/TAAAAA	TGCATGCAACATGAGT GGTA	GATCTCCATCGCACCA ATCT	59.7	704	INTERGENIC	--	--	--
Ca7_P1_11929464	Ca7	11929464	TAAAAAA/TAAAAAA	GGTGCCACCTTGCAAA TAAT	AAAGAGAAATGGAGTG CTTTG	59.8	682	INTERGENIC	--	--	--
Ca7_P1_11938683	Ca7	11938683	TGAGA/TGA	TCATGAGTTCAAATTTA CCCC	GCATGTACACCACTCC AACG	60.1	586	INTERGENIC	--	--	--
Ca7_P1_11954977	Ca7	11954977	AG/A	TACAGTGATGCAGAGG GTGC	CCGACCGGTGAAATTT GTAA	59.9	358	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_11956646	Ca7	11956646	CTT/CTTT	GCAATAAACACGCGAA TG TG	ACACAAGAAACGCACG ACAG	60.1	193	INTERGENIC	--	--	--
Ca7_P1_11957739	Ca7	11957739	TTATAT/TTAT	TTAACGGCGATCAATG ACAA	TACCAAGTTGGCACAC TCCA	60.1	347	INTERGENIC	--	--	--
Ca7_P1_11960847	Ca7	11960847	ATAT/ATGTATGGATGTAT	TGATGGCACATCATTG TCCT	AACCCCATCCCCAAA TAAG	59.9	221	INTERGENIC	--	--	--
Ca7_P1_11961138	Ca7	11961138	CAAA/CAA	AGAGCCCCACTGGGT ACTT	ATTGAATAGGGAAGGG GTGG	60.0	645	INTERGENIC	--	--	--
Ca7_P1_11961377	Ca7	11961377	GT/GTAAT	CTTATTTTGGGGATGG GGTT	ATTGAATAGGGAAGGG GTGG	59.9	588	INTERGENIC	--	--	--
Ca7_P1_11962415	Ca7	11962415	TAAAAAAA/TAAAAAA	GAAAGCAGTGTCATCC AGCA	GATGGGTTTTGCCACC TAAA	60.0	805	INTERGENIC	--	--	--
Ca7_P1_11962774	Ca7	11962774	ATT/AT	TTTTCATGTA CTCTGGT CGTTGTT	CCTCTTGTGTGGAAC GGAT	60.0	762	INTERGENIC	--	--	--
Ca7_P1_11964621	Ca7	11964621	TA/T	TGGTTGTTGCTCGTC ACTC	CAATGCAC TCGGTTGT ATGAA	59.9	507	INTERGENIC	--	--	--
Ca7_P1_11964910	Ca7	11964910	TATA/T	CAACTTGACTTGCCCA TTTTTC	CGCTGGAACACTTTTC ATTG	59.6	865	INTERGENIC	--	--	--
Ca7_P1_11971411	Ca7	11971411	A/AG	GCACTTTGTGATTGGA GGGT	GGGGGAGACATTAAC AAGCA	60.0	520	INTRON	Ca_09305	U	--
Ca7_P1_11974764	Ca7	11974764	AATTAT/AAT	GCAATTCCACACTTCC CTGT	AAGCTGTGGCTCATCA ACCT	60.0	488	INTRON	Ca_09304	O	--
Ca7_P1_11978858	Ca7	11978858	CGGTG/CG	TTCGTAATGGGCACAA TTCA	TTTATGTGATCCATGC CACC	59.9	120	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_11979039	Ca7	11979039	AAATAATAATAATAAT/AAATAATA ATAAT	TCACTTGCCCAAATCA TTCA	CATGCCTAGGATGAAG GAAGA	60.0	558	INTERGENIC	--	--	--
Ca7_P1_11979200	Ca7	11979200	TAAAAAAAAAAAA/TCAAAAAATAAAAA AAAAAAA	TCACTTGCCCAAATCA TTCA	AAGCGTGGGTACTGG GTATG	60.0	707	INTERGENIC	--	--	--
Ca7_P1_11979419	Ca7	11979419	ATCTT/AT	TCACTTGCCCAAATCA TTCA	AAGCGTGGGTACTGG GTATG	60.0	707	INTERGENIC	--	--	--
Ca7_P1_11988093	Ca7	11988093	TTTATT/TTT	CTGGCATATTACCTCA ATCCTT	TGGAGGGGCTTAGGG AGTAG	57.3	503	INTERGENIC	--	--	--
Ca7_P1_11990830	Ca7	11990830	TATAAAATAAA/TATAAAATAAAATAAA	TGATCGCATGAATAAA ATGGTT	TCACTTGCCATGTGTA CGCT	59.3	193	INTERGENIC	--	--	--
Ca7_P1_11990906	Ca7	11990906	CTA/CTATATA	TGATCGCATGAATAAA ATGGTT	TCACTTGCCATGTGTA CGCT	59.3	193	INTERGENIC	--	--	--
Ca7_P1_11990998	Ca7	11990998	TTTT/TTTTATTTTATTT	CACATGGCAAGTGATT GACC	TTTTCTGATGGATCAA GTTCAAGA	60.0	416	INTERGENIC	--	--	--
Ca7_P1_12006713	Ca7	12006713	AT/ATGT	CCCAATCAGTGGCAGA ACTT	TGGCTCTACAATGGAT GCAG	60.1	720	INTERGENIC	--	--	--
Ca7_P1_12016407	Ca7	12016407	GAAAAA/GAAAAA	TCTTGGTGGAGGAGAG GAGA	AGTGAGTGTCTGGAG CCGT	59.9	554	INTERGENIC	--	--	--
Ca7_P1_12016447	Ca7	12016447	CAAAAAAAAA/CAAAAAAAAA	TCTTGGTGGAGGAGAG GAGA	AGTGAGTGTCTGGAG CCGT	59.9	554	INTERGENIC	--	--	--
Ca7_P1_12017437	Ca7	12017437	GTAGGTCCGCAA/G	ACGAACCTATTGGCT ACCG	CACAAGCTTCTGATGG TGAAG	60.1	254	INTERGENIC	--	--	--
Ca7_P1_12020326	Ca7	12020326	T/TG	TGGGGTAGGTGGTCAT GTTT	TCAAGAGTTGCATCT TGAACA	60.1	503	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_12022936	Ca7	12022936	ATTTTTTTTTT/ATTTTTTTTT	CCAGCTCGCAACATG TAGA	GGCAAAGCAAGCAAAA GAAC	60.0	894	DRR	Ca_09302	--	WRKY
Ca7_P1_12024461	Ca7	12024461	AATATATATATA/AATATATATAT ATATA	TGGTTCACAAATCAGA TGGG	GATGCATCCCGATGAA AAA	59.3	260	DRR	Ca_09302	--	WRKY
Ca7_P1_12024656	Ca7	12024656	TGAAGAAGAAGAAGAA/TGAAGA AGAAGAAGAA	TGGTTCACAAATCAGA TGGG	CACACTAATAAGTGCT CTAAGGACCA	59.3	746	INTERGENIC	--	--	--
Ca7_P1_12024857	Ca7	12024857	TAAAAA/TAAAAA	TGCATCCTTGAATAC CACAC	TTTGTTTCATCCCTACTT TGAATTG	60.8	650	INTERGENIC	--	--	--
Ca7_P1_12026950	Ca7	12026950	TAAAAATAAAAAAT/TAAAAATAAAAA TAAAAAAT	AGTGGATTGCATCGAG TGTG	TCACTTTGGAAATTCT CAACCC	59.7	449	INTERGENIC	--	--	--
Ca7_P1_12029200	Ca7	12029200	AAAT/A	AGCCCGCAAAATTAATC ATGT	AGCTTGTTCGCATCAA GTCA	59.4	352	INTERGENIC	--	--	--
Ca7_P1_12030314	Ca7	12030314	C/CT	ATTCAATCCAACCCCA ACAA	ACCACTGAAAATGTAG GGCG	60.0	509	INTRON	Ca_09301	J	C3H
Ca7_P1_12042016	Ca7	12042016	TTA/T	AGGAAGAAGCAAAGAT CCCC	ATGCACCAATGACATC TCCA	59.7	431	INTERGENIC	--	--	--
Ca7_P1_120434	Ca7	120434	TTATATATATATATATATATATAT ATATATATATATAT/TTATATATATAT ATATATATATATATATATATAT	TCAAATAACGCTGCAC AAAAA	GGAGTACCATCCCCAC ATTG	59.4	557	DRR	Ca_20232	--	--
Ca7_P1_12043414	Ca7	12043414	TTAATTGGTAATTT/TTAATTGGTAA TTTGGTAATTT	TTTTAGACGGGAGGAG TGAGT	ACTCAAGCCGGTAGG GATTT	57.9	109	DRR	Ca_09299	--	NF-YC
Ca7_P1_12043623	Ca7	12043623	T/TA	AAATCCCTACCGGCTT GAGT	TCTAAAATCCGCCAAA CCAC	60.0	342	DRR	Ca_09299	--	NF-YC
Ca7_P1_12050374	Ca7	12050374	CTT/C	TGTATGCGGCAGTTGA GAAG	TGTCGGACATCGAATA ACGA	60.0	479	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_12058164	Ca7	12058164	T/TTTAAA	TGATGGACATACATGA TCGG	CATTCAATTGAGCAGC GAAA	57.7	529	INTERGENIC	--	--	--
Ca7_P1_12058217	Ca7	12058217	GTT/GT	TGATGGACATACATGA TCGG	CATTCAATTGAGCAGC GAAA	57.7	529	INTERGENIC	--	--	--
Ca7_P1_12064549	Ca7	12064549	ATT/ATTT	TTTGCTTTACACCCATA CATTCA	TGGTGTAGTGCGTAG CAGC	59.4	714	INTERGENIC	--	--	--
Ca7_P1_12064840	Ca7	12064840	AATAAATAAATAAATAAATAAATAA ATAAATAAATAA	TCCGACAAAAACAAC AAACA	TGGAGGTGACATGTTT TGGA	59.1	442	INTERGENIC	--	--	--
Ca7_P1_12083301	Ca7	12083301	A/AG	TATTGGGGACAATCCC TTGA	ACTCTTTGTCTCACA GCGAA	60.1	854	INTERGENIC	--	--	--
Ca7_P1_12085578	Ca7	12085578	TTGGTG/TTGGTGGTG	GCACTTTACGGCTTCT CGAT	ATTGGCGCCAGTTAAT TTTT	59.5	179	INTERGENIC	--	--	--
Ca7_P1_12085885	Ca7	12085885	A/AT	GCACTTTACGGCTTCT CGAT	CCTCTCACACTCCAAG CCAT	59.5	683	INTERGENIC	--	--	--
Ca7_P1_12087271	Ca7	12087271	TAAAAAAAAAAAA/TAAAAAAAAA	CTTGGTCAAGAAGAGT CGGG	TGTGGTTTGCCTGTG AAAT	59.8	661	INTERGENIC	--	--	--
Ca7_P1_12092450	Ca7	12092450	TAAA/TAAAA	AAATTGGAGTTGCCAA ACAGA	TTTTTCCGCATTTTCTC TTCTT	59.6	546	INTERGENIC	--	--	--
Ca7_P1_12092590	Ca7	12092590	GAAAAAAGATAAA/GAAAAAAGATA AAAAAAGATAAA	AAATTGGAGTTGCCAA ACAGA	TCGTCTTAAATCCAC AAACCC	59.6	757	INTERGENIC	--	--	--
Ca7_P1_12095546	Ca7	12095546	ATAATATTTT/ATAATATTTTAATATTTT	AACAGGCCCGCCTTT TATT	AGACTTGACCTGGCCA AAAA	60.0	547	INTERGENIC	--	--	--
Ca7_P1_12097516	Ca7	12097516	GTTTTTTTT/GTTTTTTTTTTT	CGATAGTGTTTCGTT CCGT	GAAAAATAACGCACCC CAGA	60.0	376	INTRON	Ca_09296	O	MYB_related

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_12097766	Ca7	12097766	TA/T	GTGCGTTATTTTCGT CCGT	CATTGGTGGTGTAG GTGC	60.0	278	INTRON	Ca_09296	O	MYB_related
Ca7_P1_12102116	Ca7	12102116	AATATATATAT/AATATATAT	GTGCCGTTGGTGAAC TTTT	GTA CTGCTTCGCCTGT AGCC	60.0	833	DRR	Ca_09296	O	MYB_related
Ca7_P1_12105346	Ca7	12105346	ATT/AT	TCCATGAGCATTAAAG ATTCA	GCCACCAATTCTTTT CCCT	59.3	322	INTERGENIC	--	--	--
Ca7_P1_12105500	Ca7	12105500	AG/A	GGTGGCACCTAGGTTT TTCA	GAAACCGCTTGATGAA TTATGTC	60.0	182	INTERGENIC	--	--	--
Ca7_P1_12106813	Ca7	12106813	T/TATACCCAAAAA	ATTGGGAGGAGATTGT GTGC	ATTGGAGATCAGCATT TGCC	59.9	567	INTERGENIC	--	--	--
Ca7_P1_12109653	Ca7	12109653	ATTTTTTTTTT/ATTTTTTTTTT	CACACAAAACGGAGA GGATT	TGTGCCACAATTCACA ACAA	59.1	671	INTERGENIC	--	--	--
Ca7_P1_12111948	Ca7	12111948	TTATATATATATATA/TTATATATATATA TATATATATA	CCAATGGTGCAAACAA ATGA	AAAATTTCCCTTTCCGC TGGT	60.4	681	INTERGENIC	--	--	--
Ca7_P1_12112476	Ca7	12112476	TAAAA/TAAAAA	TTTTTGTAAGTCGCTTC CCG	TCCAAACGCGTTAACT TTGA	60.2	594	INTERGENIC	--	--	--
Ca7_P1_12113143	Ca7	12113143	TATAATAATAAT/TATAATAATAATAAT	TCCCTCCTGTTTTACT CCG	GGACATCATCCACGCT TTTA	59.2	905	INTERGENIC	--	--	--
Ca7_P1_12123750	Ca7	12123750	ATATTA/ATA	ATGGGGGAAACAAGCC TAAG	ATCCCTTCCATATCCT TCCG	60.3	196	CDS (large-effect mutations)	Ca_09295	--	AP2
Ca7_P1_12125579	Ca7	12125579	C/CG	AGATGGAGGCAGAGG GAAAT	AAGAAATGCAGGTTGG ATGG	60.0	689	DRR	Ca_09295	--	AP2
Ca7_P1_12136665	Ca7	12136665	T/TC	CATAATGCGACATCGA ATGG	ATGACACTTTGAGCG TGTG	59.9	382	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_12136694	Ca7	12136694	TG/T	CATAATGCGACATCGA ATGG	ATGACGACTTTGAGCG TGTG	59.9	382	INTERGENIC	--	--	--
Ca7_P1_12136781	Ca7	12136781	TCC/TC	CACACGCTCAAAGTCG TCAT	CATATGTGCCATTACC GACG	59.9	454	INTERGENIC	--	--	--
Ca7_P1_12136889	Ca7	12136889	GT/GTAACCT	CACACGCTCAAAGTCG TCAT	CATATGTGCCATTACC GACG	59.9	454	INTERGENIC	--	--	--
Ca7_P1_12138366	Ca7	12138366	CATATTACAAATATTACA/CATATTACA	TCGAAGAGACGCTTTA ATTGG	TTGAAGCAAATTCGTC AATCA	59.5	953	INTERGENIC	--	--	--
Ca7_P1_12138547	Ca7	12138547	TG/T	TGAGTTGTGTCAAAGG CAGAA	TGAAGCAAATTCGTCA ATCAA	59.5	710	INTERGENIC	--	--	--
Ca7_P1_12142190	Ca7	12142190	TTAT/TTATATAT	TCCTCCTGTCTTCTTG TCCA	TGAGGAACGGTGACT GATGA	58.3	324	INTERGENIC	--	--	--
Ca7_P1_12142469	Ca7	12142469	TTACT/TT	TCATCAGTCACCGTTC CTCA	CCACCACAAATGAAAT GGGT	60.2	447	INTERGENIC	--	--	--
Ca7_P1_12143576	Ca7	12143576	ATTTTTTTT/ATTTTTTTTTT	AAACCAAAATTTTCGG CCC	TTTGTTTACAAGGTATT CTTGCCA	60.0	454	INTERGENIC	--	--	--
Ca7_P1_12143660	Ca7	12143660	CT/CTAT	AAACCAAAATTTTCGG CCC	TTTGTTTACAAGGTATT CTTGCCA	60.0	454	INTERGENIC	--	--	--
Ca7_P1_12143873	Ca7	12143873	TAAAAA/TAAAAA	TGCCCAGAATAAAAAA AGACG	AAGTGGTAGTTAAAAA GTGGCAA	59.3	946	INTERGENIC	--	--	--
Ca7_P1_12145921	Ca7	12145921	TTTATT/TTT	TTTCAATCCACACAGA AACGA	TCTTTGGGTCAAACT TGGC	59.2	646	INTERGENIC	--	--	--
Ca7_P1_12146709	Ca7	12146709	AT/ATGATCGTTT	AAAGGCTGCAGATGCA ATTT	CCTCAAGATCATGTAA TTAGGC	59.9	850	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_12155082	Ca7	12155082	TTAAATAAA/TTAAA	AAGCTTTGCCAGAAGA ATGC	CATGCAGTTTGCATCA TTAACA	59.6	801	INTERGENIC	--	--	--
Ca7_P1_12156855	Ca7	12156855	T/TTATG	TTCCCTTTTGTGGCTA TTCG	TAACACGGGAAACGAG GAAG	60.1	555	INTERGENIC	--	--	--
Ca7_P1_12163643	Ca7	12163643	GTTTTTTTTT/GTTTTTTTTTTT	CCCAACTCAACTGACG AATG	CACTTGAAACACAATG CGTG	59.1	557	DRR	Ca_09293	--	--
Ca7_P1_12164899	Ca7	12164899	T/TG	TTCATAAGTTGAAATTG AACATGG	TTTTGGTGTGGAAC TATACCC	58.1	556	INTERGENIC	--	--	--
Ca7_P1_12193192	Ca7	12193192	CGT/CGTTGTATCCAGT	GCTTCAAAGCCTTTTC CGTT	CAAAACCTCCTCCAA ACAA	60.7	232	DRR	Ca_09289	--	--
Ca7_P1_12193770	Ca7	12193770	AG/AGG	TTGTTTGGGAGGAGT TTTG	TGGTTGTTCACCTTG TTCA	59.9	806	DRR	Ca_09289	--	--
Ca7_P1_1219494	Ca7	1219494	TG/T	GGAGGGATGAATTTG TTGA	CATCCACATGTATGCT TTCCA	59.7	442	INTERGENIC	--	--	--
Ca7_P1_12195116	Ca7	12195116	GA/GACATAA	TGTGTGGGAATTCAT TGGA	CTGTTTCAACAGATCG GCAA	59.8	495	DRR	Ca_09288	Q	--
Ca7_P1_12198065	Ca7	12198065	TAAA/TAAAA	TTTTTATTTATTTTGA CGCACCTC	TACAAGCGTGCATCCA AGAG	58.1	579	INTRON	Ca_09288	Q	--
Ca7_P1_12210192	Ca7	12210192	TTGTGTGTGTGTGT/TTGTGTGTGT GTGTGTGT	TGAAATATGTGCTCC CGTCT	ACGAAGGGCAACAACA AAAC	59.6	823	INTRON	Ca_09287	Q	--
Ca7_P1_12212766	Ca7	12212766	ATTTTT/ATTTTTTT	GGGCAATTTGGAATC AAGA	TCGCTTTTGATGATGA CACC	59.9	719	INTERGENIC	--	--	--
Ca7_P1_12212821	Ca7	12212821	CTTTT/CTTT	TGCATTGGTATCGTTT GTGG	TCGCTTTTGATGATGA CACC	60.4	556	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca7_P1_12212967	Ca7	12212967	TTAAACCA/T	ATCACCACATCGTCCC TAAA	CAAAGGCTTGGACAAA GAGC	57.9	754	INTERGENIC	--	--	--
Ca7_P1_12213100	Ca7	12213100	T/TC	GGTGTCAATCAAAA GCGA	CAAAGGCTTGGACAAA GAGC	59.7	422	INTERGENIC	--	--	--
Ca7_P1_12216744	Ca7	12216744	T/TC	AGGAAGGTTGCATAG GGAT	CGTGTTCCCTCTTT GTGT	59.8	591	INTERGENIC	--	--	--
Ca7_P1_12223964	Ca7	12223964	TTATAT/TTAT	TCGACTCCATCATGTC TCCA	TTCTTGCTTTATTTTG TTCATCC	60.2	463	INTERGENIC	--	--	--
Ca7_P1_12224137	Ca7	12224137	AG/A	TCGACTCCATCATGTC TCCA	TTCTTGCTTTATTTTG TTCATCC	60.2	463	INTERGENIC	--	--	--
Ca7_P1_12225001	Ca7	12225001	AATAT/AAT	ATGGCTCCGGCTCTA TGTA	AAAGAAACAAATTGGG GGATG	59.7	464	INTERGENIC	--	--	--
Ca7_P1_12227697	Ca7	12227697	ATT/AT	TCTTGTAGTCAACGAA TCTTCATCA	GTCAACGAGAATTGTT GCCA	60.2	431	INTERGENIC	--	--	--
Ca7_P1_12234527	Ca7	12234527	AA/AATA	AGACGACGAACAACAC AACG	ATTTTCGATTCCGAG GACC	59.8	353	INTERGENIC	--	--	--
Ca7_P1_12235269	Ca7	12235269	ATTATTGATGATTTTATT/ATTATT	TTCCGTTGAATTACTG CTGC	AGGCACTCACCCAAAA CAAC	58.9	612	INTERGENIC	--	--	--
Ca7_P1_12237168	Ca7	12237168	TTATATATATATATATATATATATAT ATATAT/TTATATATATATATATATAT ATATATATATATAT	CATGTTCTAACCATGC ACCG	TTGTATTCTCCGCTTG AGCC	60.0	763	INTERGENIC	--	--	--
Ca7_P1_12241497	Ca7	12241497	TAA/TA	TCAACTCAAATCGTGC AAGG	GAAATTAAGTTAAGGG ACCGCA	59.8	527	INTERGENIC	--	--	--
Ca7_P1_12242021	Ca7	12242021	AAAAATAATAATAAA/AAAAATAATAA ATAATAATAA	TCAATGCGGTCCCTT AACTT	GAACCGCAACCCCTTA ACTT	58.6	551	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_12242344	Ca7	12242344	TAAA/TAA	TTCGCGGTTCCAGAT ATTA	GTGAGCGTGACGCAG AATTA	60.4	727	INTERGENIC	--	--	--
Ca7_P1_12254878	Ca7	12254878	C/CCT	GTCGTTGGATTACCG TTCT	GTTGATGAAACATGGA CCCC	60.0	579	INTRON	Ca_09284	--	--
Ca7_P1_12256341	Ca7	12256341	GAAAAAAAAAAAAA/GAAAAAAAAA	AAAATGATCAATGGCG AAGC	CAAACGGACGGTGAT TTTCT	60.0	243	DRR	Ca_09284	--	--
Ca7_P1_12257014	Ca7	12257014	AAAAAATAAAAA/AAAAAA	CGCATTTGAGTTGAGT TGGA	ATAGACGACGAGATGC CGAT	59.8	481	DRR	Ca_09284	--	--
Ca7_P1_12259089	Ca7	12259089	AATTATT/AATTATTATT	TCATCTCATGTGTGTG TTTGG	GTCTGCCACATACCC TTTT	57.9	433	INTERGENIC	--	--	--
Ca7_P1_12261342	Ca7	12261342	AA/AATAATA	CTCAATTTCTGTTTGG GGGA	AATATGTTTGCCATGT CGGC	59.9	526	INTERGENIC	--	--	--
Ca7_P1_12265350	Ca7	12265350	TTAGA/T	TCGCCAGTTAAACTC TTCCA	TCCGAGTAAAGATGG ACGG	59.9	450	DRR	Ca_09283	T	WRKY
Ca7_P1_12266841	Ca7	12266841	CATT/CATTGAAAGTATATT	GTTGCAACATCGGAGG TTTT	AAAAAGCGGGGATT AGAA	60.0	508	INTERGENIC	--	--	--
Ca7_P1_12271769	Ca7	12271769	TCAC/TCACAC	CAAAGCATCGCCCTAA CTCT	AACTGGTGCGGACA TAGAC	59.5	542	INTERGENIC	--	--	--
Ca7_P1_12272762	Ca7	12272762	AATATATATATATAT/AATATATATA TATATATAT	ATAATGGATTACGCT TGCC	AGTTAACGGGGTTCTT GTGC	59.9	707	INTERGENIC	--	--	--
Ca7_P1_12272964	Ca7	12272964	CTTTT/CTTT	ATAATGGATTACGCT TGCC	AGTTAACGGGGTTCTT GTGC	59.9	707	INTERGENIC	--	--	--
Ca7_P1_12274370	Ca7	12274370	AGGG/AGG	CGTAAATTTGGAAGGC GTGT	CTCCGAGAGGAATCTG CATC	60.0	362	INTERGENIC	--	--	--

[illegible]

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_12319218	Ca7	12319218	CA/CACATA	TCCCATTCGAGTCATT TTGA	GATCCTTGGTCCTGTT GGAA	60.0	279	INTRON	Ca_09281	R	G2-like
Ca7_P1_12321093	Ca7	12321093	GTT/GT	GAGCGAAAATGAAACG AAGC	GATGGGTAGCCAGCT TTCA	60.0	854	INTRON	Ca_09281	R	G2-like
Ca7_P1_12328339	Ca7	12328339	GTAAATTAATTAA/GTTAATTAA	TCGTAACCTCAAATGC CCTC	GCTTAGTGTTCAATGG GGGA	60.1	609	INTERGENIC	--	--	--
Ca7_P1_12328809	Ca7	12328809	GTT/GT	TAAGCTCCCCATTGA ACAC	AGCACACGTTTCAAAA CACA	59.9	701	INTERGENIC	--	--	--
Ca7_P1_12329462	Ca7	12329462	GATATATATAT/GATATATATATAT	TGTTGAAGGTGCTGTT GCAT	AATATTCGGGTTCCGT TTCC	60.3	345	INTERGENIC	--	--	--
Ca7_P1_12329669	Ca7	12329669	ACCCCC/ACCCC	TGTTGAAGGTGCTGTT GCAT	TTACGGCAGCAAATA TTGA	60.3	538	INTERGENIC	--	--	--
Ca7_P1_12329757	Ca7	12329757	ATTTTT/ATTTT	ATTAAGAAACCCCCAC TGCC	TTACGGCAGCAAATA TTGA	60.2	196	INTERGENIC	--	--	--
Ca7_P1_12331484	Ca7	12331484	GAAAA/GAAAAA	TGACCCTTTTATAAGC CTCCC	TCAGATCCACCAGAA ATCA	59.5	931	INTERGENIC	--	--	--
Ca7_P1_12332691	Ca7	12332691	TCACAC/TCAC	CATGGGAGATCGATT GGAC	CCTGCAACAAGTACCC GAAT	60.3	659	INTERGENIC	--	--	--
Ca7_P1_12337405	Ca7	12337405	CT/C	GAGAATTGCGCAGATG GTTT	GTTGTACCTGGGGTG AAGGA	60.2	480	INTRON	Ca_09279	CR	Nin-like
Ca7_P1_12339660	Ca7	12339660	CAAA/CAAAA	AAATGTGGGTTGAGGG TCAG	GTGTGCTGTCTGGCT GAGAA	59.8	280	DRR	Ca_09278	--	--
Ca7_P1_12340084	Ca7	12340084	AT/ATT	TTCTCAGCCAGACAG ACAC	GTGTGGGAGAGAAAA AGGCA	60.0	488	DRR	Ca_09279	CR	Nin-like

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_12343822	Ca7	12343822	G/GA	TGAGGCTTTACGAA GACAAA	GGTGCAATGCCAAC CTCT	59.1	488	INTERGENIC	--	--	--
Ca7_P1_12345393	Ca7	12345393	AAT/A	TTGCTAAAGCCCACT CCAG	TGCGCAATAACAGAA AAGA	60.4	804	INTERGENIC	--	--	--
Ca7_P1_12347854	Ca7	12347854	CATATATATAT/CATATATATATAT	AATCATGCAACTACAC CACCA	AACGTCGTTCCAGACA CTCC	58.9	434	INTERGENIC	--	--	--
Ca7_P1_12348225	Ca7	12348225	TA/T	TTTTGAAAAGGACGGG ATTG	GCCAAATGTTTGTG CTCT	59.9	534	INTERGENIC	--	--	--
Ca7_P1_12357407	Ca7	12357407	CT/CTTT	CAAAGCCTCCAAACGA TGAT	TTAGCGACGAATCGGA GAGT	60.1	349	INTERGENIC	--	--	--
Ca7_P1_12359255	Ca7	12359255	GAAA/GAAAA	TCATATCATGCTTCAAC CGAG	TCCGTTAAATTACCAT TTCAAGC	58.7	615	INTERGENIC	--	--	--
Ca7_P1_12361782	Ca7	12361782	TAA/TAAA	GACAAAAATGATGCGG TCAA	GAAAAACTTAGGCAAC CCCC	59.5	300	INTERGENIC	--	--	--
Ca7_P1_12362227	Ca7	12362227	CTCTTCTTCTTCTTCTTCTTCTC TTCTTCTT/CTCTTCTTCTTCTTCTT TCTTCTTCTT	GGGGTTGCCTAAGTT TTTC	TCTTGGTAAAAACGG TGCC	59.8	579	INTERGENIC	--	--	--
Ca7_P1_12365777	Ca7	12365777	TTATATATATATATATAT/TTATATAT ATATATATATATATAT	TTCGGGAACAGATTTT GGAG	TTCAAAAGATCGGAG GAAGA	60.0	434	INTRON	Ca_09277	K	HSF
Ca7_P1_12368767	Ca7	12368767	TA/T	TGGGTCTATGAGTCCC ATCA	TCGAACGGAGGCTCTA AAAA	58.9	252	DRR	Ca_09277	K	HSF
Ca7_P1_12402905	Ca7	12402905	CA/CAA	GTCCTGACGCATTGAG GTTT	TGAACAGATCGCGATT TCAA	60.1	493	INTERGENIC	--	--	--
Ca7_P1_12412330	Ca7	12412330	ATTTTTTT/ATTTTTTTTTT	TTATTTCAACCGCTTG GACC	TCCCTTCTGCTTCGTG TAAAA	59.9	758	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca7_P1_12412650	Ca7	12412650	ATACTA/ATA	TGGTCGACATGAGAAC TTTGA	GAATGAAGGCCAATCC TGAA	59.3	775	INTERGENIC	--	--	--
Ca7_P1_12415176	Ca7	12415176	ACACAATCACAATCACAATCACAATCA CAATCA/ACACAATCACAATCACAATC ACAATCACAATCACAATCA	TGAAATCTCATGGCAT GCTT	ACCCTTTGGAGGCCT AAGA	59.2	370	CDS (large-effect mutations)	Ca_09274	--	--
Ca7_P1_12422509	Ca7	12422509	GATGTATA/GATGTATATGTATA	TTCAAAGCAAAATTA TTTCAA	TGTTGATGTGGTTGC CATT	59.1	464	INTERGENIC	--	--	--
Ca7_P1_12432563	Ca7	12432563	GTTT/GTTTT	GCCATAGTTGGTGTG GCTT	CCAAAGCCTTTTCTGA AGCA	60.0	819	INTRON	Ca_09272	--	--
Ca7_P1_12434392	Ca7	12434392	ATTCAAC/ATTCACCTATACTTTCACC	TCACGAGCAAATTCCT CAAA	ATGAGATGAGAGGGT GGGTG	59.4	277	DRR	Ca_09272	--	--
Ca7_P1_12441731	Ca7	12441731	GAAAAAAAA/GAAAAAAAAA	ATTGACCACCACGATT CGAT	TTGAATATGCATCGCC AGAA	60.2	603	INTERGENIC	--	--	--
Ca7_P1_12448298	Ca7	12448298	TTATATATATATATATATATATATATAT ATATATATAT/TTATATATATATATATAT ATATATATATATAT	AAGGCCAACCAATTT GACA	TGTGATTCTTGCTCA CACCA	60.3	508	INTERGENIC	--	--	--
Ca7_P1_12450336	Ca7	12450336	ATT/AT	TGACATGCCTAACTCT ACGAAAA	AAATGGGCTATGAGTG GCAT	59.0	279	INTERGENIC	--	--	--
Ca7_P1_12451622	Ca7	12451622	TC/T	ACTACATGGCAAAGTT GGGC	CCCAATTCCTTTTCG GTCT	60.0	707	INTERGENIC	--	--	--
Ca7_P1_12451909	Ca7	12451909	CTTTTTTTTT/CTTTTTTTTTTTTT	GATTTGGAGTTGGTTG GACG	AAATCCCGAATTCAA ACCC	60.4	537	INTERGENIC	--	--	--
Ca7_P1_1245279	Ca7	1245279	A/AATTCAT	TGCACAAAACACACAA CCCT	TCGCTCCTGTGTCACT TTTG	60.0	468	INTERGENIC	--	--	--
Ca7_P1_12453590	Ca7	12453590	TTT/TTTCACACTCTT	CGCTTGAAGGAGGGT GTTTA	CCAAGTTGGTTTGA TTGC	60.2	883	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_12457698	Ca7	12457698	ATTTTT/ATTTTTTT	TCACGCCACATTGATT TGAT	GGAATCCAATGCCACT GTCT	59.9	746	INTERGENIC	--	--	--
Ca7_P1_12460283	Ca7	12460283	TTATTAT/TT	TTTTTGAGAACCATCA CCCC	TACCCCAACAATGCC TCTT	59.8	735	INTERGENIC	--	--	--
Ca7_P1_12466206	Ca7	12466206	TC/TCC	TTATGAACTCGGTTGC TTCG	TCGAGCGTGAAGTTAC ACCA	58.9	761	DRR	Ca_09270	--	--
Ca7_P1_12477809	Ca7	12477809	ATTT/ATTTT	AATAGGTTGCAGTTGG TCGG	CGCAACACATAAGACA TGGG	60.0	849	INTRON	Ca_09269	Z	--
Ca7_P1_12478944	Ca7	12478944	TCACAACA/TCA	AATACAACGGAATGC GGAG	GCCGCAACAAGACAG AAAAT	60.0	744	DRR	Ca_09269	Z	--
Ca7_P1_12483012	Ca7	12483012	T/TAAGGAG	GCGCAAACGCAAGT CATA	CCTTTTCGGACAGGAA ATCA	60.0	723	DRR	Ca_09268	R	bHLH
Ca7_P1_12483477	Ca7	12483477	G/GTCTGTCAGAAATA	TCTGGGCCTGTATGAT TTCC	AAGTGTCACACAAAGC CAAC	59.9	587	DRR	Ca_09268	R	bHLH
Ca7_P1_12483732	Ca7	12483732	CTTTT/CTTTTT	TCTGGGCCTGTATGAT TTCC	AAGTGTCACACAAAGC CAAC	59.9	587	INTERGENIC	--	--	--
Ca7_P1_12489580	Ca7	12489580	CG/C	CATGCTTCTCAGGTCC CATT	TTCTCCTTCAACGCAC ACTG	60.1	748	INTERGENIC	--	--	--
Ca7_P1_12494369	Ca7	12494369	C/CA	AATGCTAATCCAACCC CACA	ATGCTTGTGGCCCAT AATC	60.2	489	DRR	Ca_09267	--	bZIP
Ca7_P1_12495945	Ca7	12495945	TA/T	GATTTCGAATCCCATG TTGC	AAAATGGAAGTGGCAT GAGG	60.1	961	INTERGENIC	--	--	--
Ca7_P1_12496159	Ca7	12496159	ATTTTTTTTT/ATTTTTTTT	TGCAGGTGTTCTGTTT GGAA	AAAATGGAAGTGGCAT GAGG	60.3	693	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_12496218	Ca7	12496218	ATTTTTTT/ATTTTTTTT	TGCAGGTGTTCTGTT GGAA	AAATGGAAGTGGCAT GAGG	60.3	693	INTERGENIC	--	--	--
Ca7_P1_12497116	Ca7	12497116	TC/T	TTAGACCCACAACCTC AGGC	ATGGGAAATGTTCTG CGAG	60.1	860	DRR	Ca_09266	--	--
Ca7_P1_12501161	Ca7	12501161	AA/AATATATA	GAACATCTGCATATTG ATTGACAC	ATCAAATGGGGTGCAT GATT	59.8	800	INTERGENIC	--	--	--
Ca7_P1_12503107	Ca7	12503107	AG/A	CCACCAATTGCCTTTC TCTC	TCTTTGCCATTTCAA CCACC	59.7	362	INTERGENIC	--	--	--
Ca7_P1_12504871	Ca7	12504871	TAAA/TAA	GACAGCCACAAAATCC ACCT	TGATTGGCCTATTTCC CACC	60.0	332	INTERGENIC	--	--	--
Ca7_P1_12506632	Ca7	12506632	TTATCATATCATATCATCA/TTATCA TATCATATCA	AAAGAGCATGTTAGCC CACG	GGACTGTGACCAGGG TCTGT	60.3	686	INTERGENIC	--	--	--
Ca7_P1_12507814	Ca7	12507814	AT/ATT	TTGCCCTGTACCAAT TTCA	GGAAAAGTCACGGCAA GAAA	59.0	478	DRR	Ca_09265	--	--
Ca7_P1_12508538	Ca7	12508538	ACTCTCTCTCTCTCTC/ACTCTCTC TCTCTC	GGAATGCATCGGAGAA AATG	TCAGTTGCATTCTCAA GGTCA	60.4	480	DRR	Ca_09265	--	--
Ca7_P1_12510178	Ca7	12510178	CATATATATATATATATATATA/CAT ATATATATATATATATA	ACAAACACCCTTGTC CAAT	TGATATCCGTTTACTTT GGTCTCA	60.3	772	INTERGENIC	--	--	--
Ca7_P1_12520611	Ca7	12520611	ATTATTTTATTTT/ATTATTTT	CGATGGAATTTGGTTG TGC	ATGCAATTTTGAAGCG CTTT	59.9	257	DRR	Ca_09264	--	--
Ca7_P1_12520999	Ca7	12520999	GAAA/GAAAA	AGCGCTCAAAAATTGC ATCT	TGTGTGCGGTCATTAA TTGG	60.0	377	DRR	Ca_09264	--	--
Ca7_P1_12521826	Ca7	12521826	CTT/CTAATT	AAGCAATGAACCATCG GAAA	CACCACACAGCAAAAT GGAC	60.4	573	DRR	Ca_09264	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_12522584	Ca7	12522584	CAAAAA/CAAAAAA	GTCCAATTTGCTGTG GGTG	TCAAAAGCATTGTCGG ATGA	60.0	374	INTERGENIC	--	--	--
Ca7_P1_12522625	Ca7	12522625	ACC/AC	GTCCAATTTGCTGTG GGTG	TCAAAAGCATTGTCGG ATGA	60.0	374	INTERGENIC	--	--	--
Ca7_P1_12524095	Ca7	12524095	TG/T	TGAGATTGGAGGGATG AAGG	ATGCAAAAATTCATCG CAAA	60.0	334	INTERGENIC	--	--	--
Ca7_P1_12526663	Ca7	12526663	ATTTTT/ATTTT	CACATATTATTTAATCC ATGCAGATTG	TGCAGTGCCAAGTAA ACTT	59.9	565	INTERGENIC	--	--	--
Ca7_P1_12528911	Ca7	12528911	TAAAAAAAA/TAAAAAAAAA	TGGGGCCTAATAGAAA CTCG	ATAGGCTGGGTAGCC CATTT	59.2	153	INTERGENIC	--	--	--
Ca7_P1_12549450	Ca7	12549450	ATTT/ATT	TAAAGACACAATGCC GGGT	TGCTCCAACAACGAT GAAG	60.4	663	INTERGENIC	--	--	--
Ca7_P1_12550642	Ca7	12550642	TAATTAT/TAATTATGCAAGAATTAT	TTTTAGGCCACAAC CCTG	ATTTGACCATCACCC AAAA	60.1	419	INTERGENIC	--	--	--
Ca7_P1_12557555	Ca7	12557555	TTATATATATA/TTATATATATATATA	TGCATAGGGTGTGCC GTTA	CTTGAATCGGAGAACC AACC	60.0	644	INTERGENIC	--	--	--
Ca7_P1_12560071	Ca7	12560071	ATTTTTTT/ATTTTTT	GAAAGACATCACATGC CACG	CCAAATGCCTAAGAAA CGGA	60.1	634	INTERGENIC	--	--	--
Ca7_P1_12562174	Ca7	12562174	ATTTTT/ATTTT	TAGTCCATCCATGGGT CAAG	AGCGTTTGATTGGAT GAAC	58.4	482	INTERGENIC	--	--	--
Ca7_P1_12565848	Ca7	12565848	GAAAA/GAAAAA	TCTGCCAAAGCTCAA AAGT	TCTCCTCGTTTTGGAT CAGG	60.0	868	INTERGENIC	--	--	--
Ca7_P1_12567138	Ca7	12567138	T/TC	GATGTGGATCAACGCA CTCTT	TTGTCGGCCAAAATT TCAT	60.1	726	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_12581065	Ca7	12581065	AATATATATATATATATATA/AATAT ATATATATATATATATATATA	TCTAAATGGCGACTTC CCAC	GTCAAAATGCCGTACG TGTC	60.1	808	INTERGENIC	--	--	--
Ca7_P1_12581227	Ca7	12581227	AATATATATATATATATATA/AATAT ATATATATATATATA	GCCGATTTTCCAAAGG TTTT	GTGCAATTGTGGGACT CCTT	60.3	626	INTERGENIC	--	--	--
Ca7_P1_12583983	Ca7	12583983	TC/T	GCCATTCCAAATGACG ACTT	GGAGCGTGTGTTTAT GTCA	59.9	204	INTERGENIC	--	--	--
Ca7_P1_12585103	Ca7	12585103	TATTTAATTTAAT/TATTTAAT	ACCCGTGCACATCAAT TAAA	TCACCATACGTTTGTG TACGG	58.9	762	INTERGENIC	--	--	--
Ca7_P1_12587024	Ca7	12587024	GTTATT/GTT	AACTTCGTGTGGAGAC TGGAA	CTGCAATTGAGATCA GCCA	59.8	561	INTERGENIC	--	--	--
Ca7_P1_12601027	Ca7	12601027	CAAAAAAA/CAAAAAAA	CTCTAGGCTTTTGGCA GGTG	TTCTAACCCAAGTTGC TCTCG	60.0	486	INTERGENIC	--	--	--
Ca7_P1_12601209	Ca7	12601209	TATG/TATGCATG	CTCTAGGCTTTTGGCA GGTG	TTCTAACCCAAGTTGC TCTCG	60.0	486	INTERGENIC	--	--	--
Ca7_P1_12601377	Ca7	12601377	AAATTTTTATT/A	CGAGAGCAACTTGGGT TAGAA	TTGTGTGTTGTGTGTG TGTGTG	59.5	577	INTERGENIC	--	--	--
Ca7_P1_12601954	Ca7	12601954	ATCTCTCTCTCTCTCTCTCTCT/ATCTCTCTCTCTCTCTCTCTCT	GAGATGGGTCGCACGT TATT	AGCATGCTTTGAAAGG GGTA	60.0	193	INTERGENIC	--	--	--
Ca7_P1_12604845	Ca7	12604845	CATATA/CATA	GCAACAAAATCACTCT GCCA	CAACACTGCCACCTCA GCTA	59.8	388	INTRON	Ca_09260	--	SBP
Ca7_P1_12608444	Ca7	12608444	GGTGTG/GGTG	ATGCATTGAAGGAAGG GAAA	TCCAAAATGTATGCCA CCAA	59.5	311	DRR	Ca_09260	--	SBP
Ca7_P1_12609027	Ca7	12609027	TTATAT/TTAT	TTGGTGGCATACTTT TGGA	ACAAGCATGATAGAGG CAAAA	59.8	780	DRR	Ca_09260	--	SBP

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	INdels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_12609672	Ca7	12609672	CTAT/CTATAATAT	TGTCAAAAGAGAAGAC ATGCAA	TGGCTAAGATGGGTTG ATGA	58.6	468	DRR	Ca_09260	--	SBP
Ca7_P1_12644605	Ca7	12644605	TTATA/TTATATA	CATTTTCTTTGGAGAA GGCG	TAGCATGCATTTGACA CGGT	59.8	634	DRR	Ca_09257	--	--
Ca7_P1_12645348	Ca7	12645348	A/AG	TGGACCAAAGCAGAAC ACAG	GGAGGCAGTCATTAGT TGGG	59.9	500	DRR	Ca_09257	--	--
Ca7_P1_12645517	Ca7	12645517	TAAATTAATAAATAAATAAATAAATAA AATTAATAAATAAATAA	TGGACCAAAGCAGAAC ACAG	GGAGGCAGTCATTAGT TGGG	59.9	500	INTERGENIC	--	--	--
Ca7_P1_12649068	Ca7	12649068	TTACTA/TTACTACACGCTACTA	TTGGCTCAAACATATT GGCA	CAAGTTGTAGAGATTG AGGTGCAT	60.1	412	DRR	Ca_09256	I	--
Ca7_P1_12650664	Ca7	12650664	CAA/CGATTATTAACAAATTAA	CTCTTCAGTTTTGGTC CCCA	CCGACACCCCTTATACC ACTCC	60.1	875	DRR	Ca_09256	I	--
Ca7_P1_12650923	Ca7	12650923	GTTTTTTTTTTTTT/GTTTTTTTTTTT	TTCTGTTTGAGGGACC AAAA	TCTCAACCTTACCGAC ACCC	58.2	730	INTERGENIC	--	--	--
Ca7_P1_12653885	Ca7	12653885	TTTAATTAAT/TTTAAT	AAGTGTGTTGAAGATG AAGCGA	ATGCACTTGCACTGCC ATAA	59.9	400	INTERGENIC	--	--	--
Ca7_P1_12656487	Ca7	12656487	CT/CTT	TCCCAACCCTTCTCTTT CCT	TGCGATACCGTGATAC CAAA	60.0	828	INTERGENIC	--	--	--
Ca7_P1_12656522	Ca7	12656522	TGG/TG	TCCCAACCCTTCTCTTT CCT	TGCGATACCGTGATAC CAAA	60.0	828	INTERGENIC	--	--	--
Ca7_P1_12661484	Ca7	12661484	TATAA/TA	TTTTGTCGGTAATGCG ATGA	TGATCACCTCCTCCTC CACT	60.1	726	INTERGENIC	--	--	--
Ca7_P1_12663192	Ca7	12663192	AGGGG/AGGGGG	AACTTTCCCATCCTC CAAC	GGAGCTAGCAGAAGC AGCAT	60.2	906	DRR	Ca_09255	T	FAR1

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_12663558	Ca7	12663558	TAAGAAG/TAAG	GAGAAAAGGGAAACG AAGG	GGAGCTAGCAGAAGC AGCAT	60.0	459	DRR	Ca_09255	T	FAR1
Ca7_P1_12670129	Ca7	12670129	GAA/GAAA	GTTTTTCATTGCGGCA AACT	AGGTGTGTTGGATCCA CGTT	60.1	336	INTERGENIC	--	--	--
Ca7_P1_12679596	Ca7	12679596	CGAGA/CGA	CAAAATTTTCAACCAAA CCCA	CATCAGCGGTCCCTTA ATTT	59.7	388	INTERGENIC	--	--	--
Ca7_P1_12689465	Ca7	12689465	AATGA/AA	GCACGTTGCAAGTCAG AAGA	GTTGTGGTTCGTCATG GTCA	60.2	496	INTRON	Ca_09253	G	--
Ca7_P1_12690138	Ca7	12690138	TTTTATTTATTTATTTA/TTTTATT TATTTATTTA	TGACCATGACGAACCA CAAC	AGAAAACGAAGCAACG AGGA	60.4	792	INTRON	Ca_09253	G	--
Ca7_P1_12691360	Ca7	12691360	CAAAATCATTTC/CAAAATCATTTTA TTAAAAAATCATTTT	GTCAAGGGCCTATGGT CAGA	TTTGGTCATGGGATGT GCTA	60.1	909	INTERGENIC	--	--	--
Ca7_P1_12695038	Ca7	12695038	TAAAAAA/TAAAAAA	TCTTCAAAACCCAACG GAAC	GCCTGTGGCCATATAT GCTT	59.9	906	DRR	Ca_09252	--	--
Ca7_P1_12695117	Ca7	12695117	TAAAAA/TAAAAA	GGAACACCACAGGAAG GAAA	GCCTGTGGCCATATAT GCTT	59.9	891	DRR	Ca_09252	--	--
Ca7_P1_12697421	Ca7	12697421	G/GT	AGCCTTGCGGTACTTT CTGA	TTTGGATGGAAGCAT GTGA	60.0	768	INTRON	Ca_09251	O	--
Ca7_P1_12712927	Ca7	12712927	AAAAGAA/AAAAGAAAGGAACAAAG AA	CAGGGGTTTTAGGATT TGGG	CTGTGTGTTGCTGGGT CCTA	60.5	610	INTERGENIC	--	--	--
Ca7_P1_12715619	Ca7	12715619	ATTTTTTTTT/ATTTTTTTTT	CGCTTTACTTTGTGAAT GGGA	GCCAACGAGAAATGTG TTGA	60.1	556	INTERGENIC	--	--	--
Ca7_P1_12724633	Ca7	12724633	AATATATATAT/AATATATATAT	GTGCATTTCCCATGT CCTT	ACGAAATACGATGAAA GCCG	59.8	571	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_12726574	Ca7	12726574	TAAAA/TAAAAA	GTGTTCTGCTGTTGT GCTT	GGTGTCTGGTGCACAA ATAACT	60.0	477	DRR	Ca_09248	--	LBD
Ca7_P1_12728036	Ca7	12728036	GA/G	GCCTATGGTCATGCTA AGCC	CCCACATATTGAAGGG GTCA	59.7	108	DRR	Ca_09248	--	LBD
Ca7_P1_12729282	Ca7	12729282	TA/T	GCGAAACAAATTGATC AACAAA	AAGTCTGCTATTGGAT TGGG	60.0	613	INTERGENIC	--	--	--
Ca7_P1_12730150	Ca7	12730150	TGAAGAG/TG	CGCAGCTGTCAATTTT TTCA	TTCGACGCAGATACTT GCAC	60.1	426	INTRON	Ca_09247	--	LBD
Ca7_P1_12731432	Ca7	12731432	ATATTATTATTATTATTATTATTATT TATTATTATTATTATTATTATTATT ATTATTATTAT/ATATTATTATTATTATT ATTATTATTATTATTATTATTATTATT TTATTATTATTATTAT	GCCAATTGTTCTCTCCA AAGA	AAGAGAAGCTTCCATT GAGCA	60.1	871	DRR	Ca_09247	--	LBD
Ca7_P1_12733308	Ca7	12733308	CATTAT/CATTATATTATTATTAT	ATAAGATTTGGGGTGG GGAG	GGTTGCGTCTAGCGAA AGTT	60.0	374	INTERGENIC	--	--	--
Ca7_P1_12733351	Ca7	12733351	ATTT/ATT	ATAAGATTTGGGGTGG GGAG	GGTTGCGTCTAGCGAA AGTT	60.0	374	INTERGENIC	--	--	--
Ca7_P1_12734640	Ca7	12734640	T/TG	TTTGAACACACACAAA CTCCA	GGTGGAGTCAAGGAA GACCA	59.1	204	INTERGENIC	--	--	--
Ca7_P1_12734829	Ca7	12734829	AGG/A	TGGTCTTCCTTGACTC CACC	CCTTTCAGACAAGATC ACCGA	60.1	669	INTERGENIC	--	--	--
Ca7_P1_12745134	Ca7	12745134	AAACTT/AAACTTGAATTATATAACTT	TTTGAACACACACAAA CTCCA	GTAGGGTTAAAGGGG ACCGA	59.1	206	INTERGENIC	--	--	--
Ca7_P1_12745303	Ca7	12745303	AAAAATAAAATAAAATAAA/AAAAATAA AATAAAATAAAATAAA	TCGGTCCCCTTTAACC CTAC	TTTGGCACACAAACAC AAAAA	60.2	135	INTERGENIC	--	--	--
Ca7_P1_12752992	Ca7	12752992	CA/C	GTGTTGCATGCTTTTG AGGA	TTTGAGGGAAGTTTTC CACG	59.8	204	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_12762980	Ca7	12762980	ATATTATT/ATATT	CGTTGTGTTTGAAT GACC	GTTCAACCATGGACCG AGTT	60.0	516	DRR	Ca_09243	H	--
Ca7_P1_12763543	Ca7	12763543	ATTTTTTT/ATTTTT	AACCTCGGTCCAATGGT GAAC	TAGGTGGGACTAATGG TGGC	59.8	372	DRR	Ca_09243	H	--
Ca7_P1_12763624	Ca7	12763624	TAAA/TAAAA	AACCTCGGTCCAATGGT GAAC	GATGCAGGCTTGATG GATTT	59.8	853	DRR	Ca_09243	H	--
Ca7_P1_12768361	Ca7	12768361	GAAAAAA/GAAAAAA	TTGGAGTTGTTCTTCG CCTT	TGAACCCGGATCCTCA ATAG	59.9	778	DRR	Ca_09242	--	LBD
Ca7_P1_12771743	Ca7	12771743	AATGTGAGTTCAATGATGTG/AATGTG AGTTCAATGATGTGAGTTCAATGATG TG	GGCCGATTTCTGAGTG ATGT	TCGCTACTATGCTCAG ACGG	60.1	302	INTRON	Ca_09242	--	LBD
Ca7_P1_1277335	Ca7	1277335	CTTTTTTTTT/CTTTTTTTTT	CACGATAGTGGGAG CAACT	TAACCGTGGGATCCAC AAAT	60.1	553	INTERGENIC	--	--	--
Ca7_P1_12773412	Ca7	12773412	GT/GTT	TTGGACTTGAGAAAGG TGGG	TTGTGTTGACTGGTTT GGGA	60.1	747	INTRON	Ca_09242	--	LBD
Ca7_P1_12776238	Ca7	12776238	CTTTTTTT/CTTTTTTT	CACCAAAATCGATGCA ATGT	GCAATTGGAGGAAAAG ATCC	59.4	899	INTERGENIC	--	--	--
Ca7_P1_12777303	Ca7	12777303	AAATA/AA	ATAAATTGAACCAAC GGCG	TACAATCGCGAAGAC AACA	60.0	525	INTERGENIC	--	--	--
Ca7_P1_12785832	Ca7	12785832	ATATTATTATTATTATTATTATTATT TA/ATATTATTATTATTATTATTATT A	GCAACAACGAGCAGAA TTGA	GGCTGAATTGCAGTTT TG GT	60.0	601	INTERGENIC	--	--	--
Ca7_P1_12787738	Ca7	12787738	TCATT/TCATTTTTTAACATT	GGTAAGCTGCCATGGA AAAA	AAATGTTGATGGTACC CCGA	60.1	658	INTERGENIC	--	--	--
Ca7_P1_12789717	Ca7	12789717	ATAA/ATAACATAATTAA	ATCACATGAGTTGCAG GCAG	TATTTGCCATGATAAC GACATT	59.9	698	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_12794152	Ca7	12794152	T/TA	GAACGACAAATGCTAT CGTTGA	TCCTTCCAAATTGCA GACC	60.1	529	INTRON	Ca_09240	Q	--
Ca7_P1_12807068	Ca7	12807068	A/ACAATCT	AAGGGTGTGGAACAAT GAGC	CCCTCGTTTGATGCAA GATT	60.0	799	DRR	Ca_09239	Q	--
Ca7_P1_12808768	Ca7	12808768	AATATATATATATATATATAT/AATA TATATATATATATATAT	AATCATGAGCCCAACG TTTC	GGCGGCATATACCGT CATAA	59.9	874	DRR	Ca_09239	Q	--
Ca7_P1_12809692	Ca7	12809692	CTTT/CTT	TTATTCTCCACACAA GCCC	TTTGATAAAGGTCTTG GCAAAAT	59.9	696	INTERGENIC	--	--	--
Ca7_P1_12810410	Ca7	12810410	A/AC	GGTAGATCGGCTCAAG AACG	AAAGTGTTTCCACAAA CGGC	59.8	391	DRR	Ca_09238	--	Dof
Ca7_P1_12810847	Ca7	12810847	CATATATATATATATATATA/CATAT ATATATATATATATATATA	GCCGTTTGTGGAACA CTTT	ATGCTGCAAGTTTCGA TTGT	60.0	509	DRR	Ca_09238	--	Dof
Ca7_P1_12811119	Ca7	12811119	CATATATA/CATA	GCCGTTTGTGGAACA CTTT	ATTTGGTTTGATTGG GGTG	60.0	950	DRR	Ca_09238	--	Dof
Ca7_P1_12812005	Ca7	12812005	AATTATTATTATTATTATA/AATTATTA TTATTATTATTATTATTATTA	CCTAATTCACCAACAC CACC	TGATGACTTCTGAGCC GTTG	60.1	364	CDS (large-effect mutations)	Ca_09238	--	Dof
Ca7_P1_12818599	Ca7	12818599	TG/T	GTTGAGAAGACCATGT GCGA	TCAGGGATATTTGCTG GACA	59.8	356	INTERGENIC	--	--	--
Ca7_P1_12824676	Ca7	12824676	TA/TAA	CCTGTGATCAAAGTTC GGGT	ATCATTGTGCGCATGG TCTA	60.0	805	INTERGENIC	--	--	--
Ca7_P1_12829481	Ca7	12829481	TAATTTCA/TAATTTCAATTTCA	AAGTTTGCCAGCTCAA GGAA	CAACCTCCACCTCTCC ACAT	60.0	529	INTRON	Ca_09237	S	--
Ca7_P1_12839832	Ca7	12839832	C/CT	TCACACAATTGTTGCG AAATC	CGTGGATCCAACCTACC ATCC	59.6	615	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_12843216	Ca7	12843216	TATTATTTA/TATTATTTAACATTATTTA	TGGAGCACACCTCAA ATTA	CAATGTTGCTTCATCA TGGC	59.1	408	INTERGENIC	--	--	--
Ca7_P1_12844900	Ca7	12844900	CTTATTTTTATTTTTATTTTTATTTTTA TTTTATTTTTATTTTTATTTTTA/CTTA TTTTATTTTTATTTTTATTTTTATTTTT ATTTTTATTTTTATTTTTATTTTTA	TGCTCTTCAAAAGTAAT TGTTCC	AGATCGACTGCTCCCA AATG	57.6	458	INTRON	Ca_09236	--	--
Ca7_P1_12846484	Ca7	12846484	AAAAAAAAATAAAAAAT/AAAAAAAAAT	TCAAAAGAGAAAAAGT GCTGACA	TTCAGCTGCAGGGTA CTCT	59.2	808	INTRON	Ca_09236	--	--
Ca7_P1_12848385	Ca7	12848385	C/CTAG	AGGTTCCCAACGGGA TATC	TGCTCGAATCTTATGT CCCC	60.0	367	DRR	Ca_09235	--	--
Ca7_P1_12850002	Ca7	12850002	AATTACAACAT/A	CGTATCTGCAGCTCAG CAAG	ACTCTGACTTGTCGG TTGG	59.9	622	INTRON	Ca_09235	--	--
Ca7_P1_12853842	Ca7	12853842	GTTT/GTTTT	CCAAACGTGGAAGTGG AACT	GCTTGGTCGACGAATC TCTC	60.0	589	INTRON	Ca_09235	--	--
Ca7_P1_12856742	Ca7	12856742	CAAA/CAA	CAATCACCAACATCAT GACAA	TGCCATAATTTCTCT TCCG	59.3	565	INTERGENIC	--	--	--
Ca7_P1_12858065	Ca7	12858065	ATT/ATTTT	TTGGTATTAGAAGTGT TCACGGT	CATCGCCACCCCTACTT CATT	57.8	696	INTERGENIC	--	--	--
Ca7_P1_12858631	Ca7	12858631	CT/CTAT	AATGAAGTAGGGTGGC GATG	TGAGAGAGAGAGAAA GTAGCACCA	60.0	487	INTERGENIC	--	--	--
Ca7_P1_12865284	Ca7	12865284	TTAA/T	TGACACTCATTGTGTC ACGG	CGGACAGCATTGTTTG TTTG	59.1	177	INTERGENIC	--	--	--
Ca7_P1_12868532	Ca7	12868532	ATT/AT	GGCCTATATGCTCCCT GTCA	CGCAATCGCAAATGAA AGTA	60.1	462	INTERGENIC	--	--	--
Ca7_P1_12875877	Ca7	12875877	GATATATATA/GATATATATATA	GGCCTCGAAGAAGCTT GATA	CTTAATTGCTGGCCCC ATAA	60.2	603	DRR	Ca_09233	--	Dof

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_12879653	Ca7	12879653	ATTTTT/ATTTTT	TGGTTGTCCAATTCC TCTC	AGGAAATCCTACTGGC CGTT	59.9	702	INTRON	Ca_09232	--	FAR1
Ca7_P1_12889278	Ca7	12889278	TGAGAGA/TGAGA	CGCTGCAAAAGTCACA CCTA	AATTGTGTGTCTGAAG CGCA	60.1	428	INTERGENIC	--	--	--
Ca7_P1_12897407	Ca7	12897407	ACCCC/ACCCCC	TGATGTTTTCCATCCA GCA	ACCTCACAATGCACT CGAA	60.0	707	DRR	Ca_09230	O	--
Ca7_P1_12904687	Ca7	12904687	TAAAAAAAA/TAAAAAAAAA	TGCCTTTTTGTGTTCC CTT	CCGCAAAAGTTGATTG GAGT	59.6	793	INTERGENIC	--	--	--
Ca7_P1_12906059	Ca7	12906059	T/TGGAATTTAC	TTTGCGGTTCTCTTC ATTCT	TGTTGTGTAGGAACAC TCAACATT	59.0	702	INTERGENIC	--	--	--
Ca7_P1_12906639	Ca7	12906639	TAAAAA/TAAAAA	TCATGAAAAATGTTGA GTGTTCC	TGAGTCATGTTCAAG GTCAT	59.0	462	INTERGENIC	--	--	--
Ca7_P1_12910220	Ca7	12910220	AATATATATATATA/AATATATATATA	CATTGCTTTCTCTATTC AAAGTTTATG	TTGTTTGACCCGTAAT GGAA	58.7	277	INTERGENIC	--	--	--
Ca7_P1_12914847	Ca7	12914847	ACT/A	TCCATTCACTGGGAGC TTTC	TGCTGGATGGAAAAAC ATCA	60.2	707	DRR	Ca_09229	H	B3
Ca7_P1_12916107	Ca7	12916107	CATA/CATATA	TGATAGCGTGGTGGAG AATG	ACGCGGAAAAACATT GAAC	59.7	285	DRR	Ca_09229	H	B3
Ca7_P1_12921443	Ca7	12921443	T/TAG	TCAGAGTTCTCTCCAC CGCT	AGGGAGGTGTTGGTG TTGAG	60.1	526	DRR	Ca_09228	--	--
Ca7_P1_12923877	Ca7	12923877	AC/A	GAAGTGTAGCCTTTCA GGCG	CCTGGACTCGACAAA GGAA	60.0	556	INTERGENIC	--	--	--
Ca7_P1_12924194	Ca7	12924194	CAAAAA/CAAAAAA	TTCTTTTGTGAGTC CAGG	ATTTATTGCGCAGTGC CTTT	60.2	311	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_12940005	Ca7	12940005	T/TA	TTCCTTCCCTCCCTCT CATT	GGAGTGGGAGCAGA AAATA	60.0	129	DRR	Ca_09227	--	--
Ca7_P1_12952651	Ca7	12952651	TATGATGAT/TATGAT	ACACTGAACCTTTTGCC CCAC	TCGAGGAACCTATTCA AGCA	60.0	851	INTERGENIC	--	--	--
Ca7_P1_12954594	Ca7	12954594	AA/AATTA	TCGTTGCAAAATCAAAAT CAAA	AGCACTTTGAGGAGG CAAAA	59.2	629	INTERGENIC	--	--	--
Ca7_P1_12955611	Ca7	12955611	GATAT/GAT	TGGTGCGTTGAAAAAT GTGT	AAGCAAGCTTCATGCC TCAT	60.0	162	INTERGENIC	--	--	--
Ca7_P1_12957341	Ca7	12957341	AGG/AG	GTAGGAAGCCGAAAAA GGAG	AACAGCCCTAAATCCA CACG	60.2	524	INTRON	Ca_09225	U	--
Ca7_P1_1295880	Ca7	1295880	TTATATATATATATATATATAT/TTAT ATATATATATATATATATATATATAT	TTGCAATTTATCGATGA GGCA	TGAATTTAATTGGGGC GGTA	59.2	538	INTERGENIC	--	--	--
Ca7_P1_12962109	Ca7	12962109	GTATATATATATATATATATATAT /GTATATATATATATATATATATAT	TTGCCCTGTGGTTATG TCAA	GAGTGAATCAGCCACC CAAT	60.0	789	INTRON	Ca_09225	U	--
Ca7_P1_12962905	Ca7	12962905	CAAAAA/CAAAAA	TGGGAGAATTCAAAG ATGC	TTTCTGGATTCTCCC TCCT	60.0	179	INTRON	Ca_09225	U	--
Ca7_P1_13032221	Ca7	13032221	TG/T	GGCAGTACAAGCATCA AGCA	AACGCTATCACACACC ACGA	60.0	480	INTERGENIC	--	--	--
Ca7_P1_13032927	Ca7	13032927	GAAAAA/GAAAA	TTGAATGCAACCTTGG TGTC	GTTTGGAGACCTGTGC CCTA	59.5	602	INTERGENIC	--	--	--
Ca7_P1_13033158	Ca7	13033158	AAAA/AAAAGAAA	TAGGGCACAGGTCTCC AAAC	GAATATGTCGAGTCGC GCTT	60.1	145	INTERGENIC	--	--	--
Ca7_P1_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/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_13040855	Ca7	13040855	ATG/ATGTG	TTGATCTCATGGTTC CTCC	TTAGGACAGGACATGG AGCC	59.9	787	INTERGENIC	--	--	--
Ca7_P1_13045646	Ca7	13045646	TTT/TTTGAAGTT	GTATTTTGTGTTGG GGGC	ATATTTGCAGCTGGGT TTGC	59.2	581	INTRON	Ca_09223	T	bHLH
Ca7_P1_13048106	Ca7	13048106	AGG/A	GGTTGGTTCTGCCTGT TCAT	AGTGGGTTGAATTGTG GCTC	60.0	533	DRR	Ca_09223	T	bHLH
Ca7_P1_13055322	Ca7	13055322	ATTTT/ATTT	AAGAATGCGCAATAAC CAGG	TTCCAATCACAAGTTC AAAATGA	60.1	383	INTERGENIC	--	--	--
Ca7_P1_13055660	Ca7	13055660	TTT/TTTATTATT	CGCCCCAACACAGTT TTAT	AGGCATAAGCAGGACA TGGT	59.9	847	INTERGENIC	--	--	--
Ca7_P1_13060580	Ca7	13060580	TCGTGACC/TCGTGACCGTGACC	CCCTTCACGTGAGGAT TGTT	CCAGTTTGGCACCTT ACAT	60.0	767	DRR	Ca_09222	--	MYB_related
Ca7_P1_13061234	Ca7	13061234	CAAAAA/CAAAA	ATGTAGGGTGGCAAAA CTGG	GACATTCGCTCATATC GGCT	59.9	560	DRR	Ca_09222	--	MYB_related
Ca7_P1_13061476	Ca7	13061476	AT/ATTAGCCT	ATTGGTGTTGTGCTGA CTCG	ACCCCTACGTCTGAGG GACT	59.8	772	DRR	Ca_09222	--	MYB_related
Ca7_P1_13062531	Ca7	13062531	G/GA	GACAGAAGCATTGGGA GGAG	ATTCTTCTCCCTGCC TTGG	59.8	528	INTERGENIC	--	--	--
Ca7_P1_13066626	Ca7	13066626	CAGTTAGTTAGTTAGTT/CAGTTAGTT AGTT	GGAAAGGTGCACACAA GTGA	GAGACCGAATCCGACT TGAA	59.7	442	INTERGENIC	--	--	--
Ca7_P1_13068517	Ca7	13068517	CAAAAA/CAAAAAA	CAGCGACCGATTAGT GACA	TTGGGCTTGCTTCAAT AACC	59.9	724	INTERGENIC	--	--	--
Ca7_P1_13068626	Ca7	13068626	GTATATAT/GTATAT	TGACACTCCACCAAGT CCAA	CCAAGGTTACTCTACC CGCA	60.1	446	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_13071654	Ca7	13071654	GAAGTAAG/GAAG	ACTCGCGATTCATCAACCTT	TTTGTGGCTAGAGGCTATGACA	59.7	445	DRR	Ca_09221	--	--
Ca7_P1_1307924	Ca7	1307924	A/AGAT	CAAAAATAAGGCATAGTGTTGGA	TAGTTTGTAAACCCCGTGCGT	58.3	260	INTERGENIC	--	--	--
Ca7_P1_13130934	Ca7	13130934	CAAAA/CAA	CGCAACATCCTCATCCCTAT	CCTTCCGACTTTGGGTACAA	59.9	307	INTERGENIC	--	--	--
Ca7_P1_13178303	Ca7	13178303	TCAT/TCATATCAAACAT	GGATCTGCTGCTGTTT CACA	AAAACTGGACCCAC CATC	60.0	338	INTRON	Ca_16019	--	--
Ca7_P1_13180557	Ca7	13180557	TCCC/TCC	AATATCTGCTGCAATG GCCT	TGCGCTCTGTTTAGG AGTT	59.7	484	DRR	Ca_16019	--	--
Ca7_P1_13182401	Ca7	13182401	AATATATATATATATATATAT/AATA TATATATATATATATATAT	TTTGGATTAAAGCTTTG TTTAGCA	GCTCAATTTGATAACT TCTTTATGAG	59.4	515	DRR	Ca_16019	--	--
Ca7_P1_13183386	Ca7	13183386	A/AC	TTGAAACAGTTGGAGACCCC	TTTTATTTTACATCA AATCAAGA	59.9	254	INTERGENIC	--	--	--
Ca7_P1_13184233	Ca7	13184233	ATTTTTTTTTTTTT/ATTTTTTTTTT	AAACAGGCATGTTATC TCCTCA	TGGGCATTGTCATTTCTACG	58.7	709	INTERGENIC	--	--	--
Ca7_P1_13184945	Ca7	13184945	CATTAAATTAAATTAATTAATTA/C ATTAAATTAAATTAAATTAA	ATGTGTTATTGCCGGT TGGT	CCTCTCAGCAATGAG CAAA	60.1	327	INTERGENIC	--	--	--
Ca7_P1_13187508	Ca7	13187508	CGAGA/CGAGAGA	TGTTTCGCAAAATTAG AGTTTCA	CGCTGAGTGCAAACAGAAAA	59.0	604	INTERGENIC	--	--	--
Ca7_P1_13187645	Ca7	13187645	ATTT/ATT	TGTTTCGCAAAATTAG AGTTTCA	CGCTGAGTGCAAACAGAAAA	59.0	604	INTERGENIC	--	--	--
Ca7_P1_13188851	Ca7	13188851	TTAAATAAA/TTAAATAAATAAA	CTGCAGCAAAAACAGG ACAA	TGCATCGTACCGTCGT GTAT	60.0	424	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_13193696	Ca7	13193696	TCTAA/T	CAATTGTTTAATTTCT TTCACCAGA	TCTTAAACCGAGACGA ACAAAA	59.8	861	INTERGENIC	--	--	--
Ca7_P1_13193883	Ca7	13193883	CG/CGG	TTCGACATACTAAATTA GCCTCACA	TCTTAAACCGAGACGA ACAAAA	59.3	412	INTERGENIC	--	--	--
Ca7_P1_13194953	Ca7	13194953	C/CT	AAACACATTCTCACCT CGGG	TAAACCCGCGTTCAAT TTTC	60.0	905	INTERGENIC	--	--	--
Ca7_P1_13196566	Ca7	13196566	GTTTTTTTTT/GTTTTTTT	ACACTGTGGATCGGTG ACAA	CCTTCCTTTTAAAT GATTGC	60.0	499	INTERGENIC	--	--	--
Ca7_P1_13196617	Ca7	13196617	AG/AGG	ACACTGTGGATCGGTG ACAA	CCTTCCTTTTAAAT GATTGC	60.0	499	INTERGENIC	--	--	--
Ca7_P1_13196673	Ca7	13196673	TTGTGTGTGTGT/TTGTGTGTGTGT GTGTGTGTGT	ACACTGTGGATCGGTG ACAA	AAATTGCAAAATCAAA CCCA	60.0	881	INTERGENIC	--	--	--
Ca7_P1_13200502	Ca7	13200502	TAAAAA/TAAAA	TTGATTGATAGGCCAG CTCC	GGACATCGTTTGAAT TTGG	60.2	608	INTERGENIC	--	--	--
Ca7_P1_13201089	Ca7	13201089	TC/T	CCAAATCCAACGAT GTCC	TCCACACAAAACAATG CACA	60.2	392	INTERGENIC	--	--	--
Ca7_P1_13201816	Ca7	13201816	GAAAAAA/GAAAAAAA	TGGCCATTTGAGATT TGTTT	GGTGGAGTAGCAAT GGAGC	59.4	528	INTERGENIC	--	--	--
Ca7_P1_13209732	Ca7	13209732	TAAAAA/TAAAAAA	CGAACCTAGCGTTGA CTTT	GATGAAATGGCGTTGG AAAT	59.4	593	INTERGENIC	--	--	--
Ca7_P1_13210690	Ca7	13210690	CTT/CTTT	CCCGCATATCAAATG TTTT	TCATGGCCACTTCATT CAAA	59.7	439	INTERGENIC	--	--	--
Ca7_P1_13212904	Ca7	13212904	GTTT/GTT	CCACCTGGGAATTATG TTGG	CCCAATCAAGCAGAT CCAT	60.0	466	DRR	Ca_16022	S	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_13224484	Ca7	13224484	CTTT/CTTTT	TGCAAGAAAGAAAAG CAAGG	CTTACCGCACTCCAT CATT	59.6	245	INTERGENIC	--	--	--
Ca7_P1_13226362	Ca7	13226362	C/CCTT	TTTTGTGATTCAATTGC ACTCTT	TCACTCCTCTTTTCGGT GAAAA	58.8	268	INTERGENIC	--	--	--
Ca7_P1_13244829	Ca7	13244829	A/AG	TTATGGGAGGCTTGT TTGC	TGTTACCGGATTCAAT TCCA	60.1	792	INTERGENIC	--	--	--
Ca7_P1_13248993	Ca7	13248993	TCCC/TCC	CTCGCGGATACGAGTT GATT	TGGATCATTTTGCTAA AAGAAGA	60.2	644	INTERGENIC	--	--	--
Ca7_P1_13254406	Ca7	13254406	CTCTTTTT/CT	TCCGCGCTAAACGAA ATCT	TGGTGACTGAAGTGGA TGGA	59.8	354	INTERGENIC	--	--	--
Ca7_P1_1326824	Ca7	1326824	T/TA	TCCAAAAATGCACTCA AATCA	ATGAGTGGGAGAACAT TGCC	59.1	715	INTERGENIC	--	--	--
Ca7_P1_13281454	Ca7	13281454	TAA/TAAA	GAGCTGGTGAGGTCTC CTTG	AAGTGGTCTCTGCTGG TGCT	60.0	256	INTERGENIC	--	--	--
Ca7_P1_13283430	Ca7	13283430	TAAAAAAA/TAAAAAAA	ACATCAGGCTGTCTGG GAAT	CCATATTCATCCATCG CCAC	59.5	747	INTERGENIC	--	--	--
Ca7_P1_13284742	Ca7	13284742	AA/AATTA	TGAAACCCATGAAGAT GGAA	ATGGATGGTCCAAAGT CCAA	58.9	386	INTERGENIC	--	--	--
Ca7_P1_13285021	Ca7	13285021	AC/A	CATGTTCTGTCCCTC TCGT	AGTTGCTTTACAAGAC CGTCG	60.1	550	INTERGENIC	--	--	--
Ca7_P1_13285824	Ca7	13285824	AAAAACAAT/AAAAACAATTCTCAAAAC AAT	AACGACGGTCTTGTA AGCAA	CACAAGACCCGAAAA GGAA	59.8	628	INTERGENIC	--	--	--
Ca7_P1_13286391	Ca7	13286391	ATT/ATTTT	TTCTTTTTCGGGTCT GTG	CTGCTTTTCCCAAAT TGAA	60.1	527	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_13296050	Ca7	13296050	GTTTT/GTTT	GGTCAACTCAAACAA CCCC	TGAGGGGTACAAA CCAAC	59.3	382	INTERGENIC	--	--	--
Ca7_P1_13299994	Ca7	13299994	GC/G	CCCTAAGATTTGAGC AGCG	GAAGGTGGGCTTGAC TATGC	60.0	213	INTERGENIC	--	--	--
Ca7_P1_13300743	Ca7	13300743	AAA/AAATTGCAATTAA	TGCAGCAACATAAGC ATGA	AGTAACCCGAACCTCGG TCCT	59.0	494	INTERGENIC	--	--	--
Ca7_P1_13302515	Ca7	13302515	ATATATGTA/ATATATGTAATATTTAT ATGTA	TCAGCACCAATTGGA ATCA	TGTAAATGTCCATCT CATGTCAA	60.0	510	INTERGENIC	--	--	--
Ca7_P1_13303122	Ca7	13303122	TAAAAA/TAAAA	TTGACATGAGATGGAC ATTTTACA	GGGGGCATATTTTCT ACCC	59.4	476	INTERGENIC	--	--	--
Ca7_P1_13306728	Ca7	13306728	AAGAGAGA/AAGAGA	TGTGTTTGGATAAGAG GGAAAA	TTTCTGGACCATGCA GTTATG	59.9	185	INTERGENIC	--	--	--
Ca7_P1_13307393	Ca7	13307393	AT/A	GTGACAAAGTCAAAAC GGGC	TTGGAACACGGTTAGA CACG	60.5	406	INTERGENIC	--	--	--
Ca7_P1_13307549	Ca7	13307549	ATATTATTATTATTATTA/ATATTATTAT TATTATTATTA	GTGACAAAGTCAAAAC GGGC	TTGGAACACGGTTAGA CACG	60.5	406	INTERGENIC	--	--	--
Ca7_P1_13308041	Ca7	13308041	ATTTTTTT/ATTTTTTTT	CGACCTCGTGGGATAT TCAT	ACCTGACTTATCCCA CCCC	59.8	461	INTERGENIC	--	--	--
Ca7_P1_13313438	Ca7	13313438	TTTATTATTATTATTATTAT/TTTATTAT TATTATTATTATTATTAT	CAGATGTAGCAGCAGA AGCG	CATTAATGCCAGGGTT CGTT	59.9	455	CDS (large-effect mutations)	Ca_16026	K	TALE
Ca7_P1_13313904	Ca7	13313904	TAAAA/TAAAAA	ACCCTGGCATTAAATGA ACCA	TCGCATTTGATCTTTT GGA	60.2	694	INTRON	Ca_16026	K	TALE
Ca7_P1_13321063	Ca7	13321063	GATATATATATATATA/GATATATAT ATATATATATA	TCAAGATGGATCGCCT TTTC	AAAGGAGGTGGTGAA GAGCA	60.2	569	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_13321942	Ca7	13321942	TTT/TTTGTT	CTTTGCTCTTCACCAC CTCC	GTTGGTCCCAAGGA CGTA	59.8	774	INTERGENIC	--	--	--
Ca7_P1_13322046	Ca7	13322046	TAAAAAAAAA/TAAAAAAAAA	TTGCAAGCCCAATAAC AAAA	GTTGGTCCCAAGGA CGTA	59.2	663	INTERGENIC	--	--	--
Ca7_P1_13329825	Ca7	13329825	AAG/A	TGATGCAGCCTCAAAA CAAG	GGAACAAGGAAAGT GCAAA	60.0	227	INTERGENIC	--	--	--
Ca7_P1_13335131	Ca7	13335131	ACAT/ACATAGTCAT	GCAATTGCTCGATCCT CTTC	GATTGCCCTCCATCT CATA	59.9	507	INTERGENIC	--	--	--
Ca7_P1_13335236	Ca7	13335236	TATAAAAA/TATAAAAAAATAAAA	GCAATCCGAAGAATGC AAAT	TGCTACATCATAAAA GTGGTGG	60.0	207	INTERGENIC	--	--	--
Ca7_P1_13343118	Ca7	13343118	TCCC/TCCCC	ACCAAGATCTGGCATT TTGC	TGTGGACAACGTGTG ACATT	60.1	179	INTERGENIC	--	--	--
Ca7_P1_13343470	Ca7	13343470	AG/A	ACCAAGATCTGGCATT TTGC	CAAGCCCCTAATTTCC TTGTC	60.1	841	INTERGENIC	--	--	--
Ca7_P1_13359868	Ca7	13359868	ATTTTTTT/ATTTTTTTTT	CATGCATGTGGCCAAT TTAG	TGTTGCTTTCTGTAGC GTGG	60.0	531	INTERGENIC	--	--	--
Ca7_P1_13363370	Ca7	13363370	CTTTAT/CTTTATATTTAT	TCAATTCAGATGGTGG GGTT	TCATCCTGCACTCAGT TTGC	60.2	947	INTERGENIC	--	--	--
Ca7_P1_13364129	Ca7	13364129	GT/GTT	GCAAACCTGAGTGCAAG ATGA	CGGAGAACCAATGCTC AAAC	60.0	814	INTRON	Ca_16027	TZ	--
Ca7_P1_13364730	Ca7	13364730	GAA/GAAA	TACAAACCTCTTTCCAC CCG	GGCCGATTTCAGACA TAGA	60.0	525	INTRON	Ca_16027	TZ	--
Ca7_P1_13371664	Ca7	13371664	GAGAAAGA/GAGA	GTGGAGGGAGGGAGA GAGAG	CCGGAAAAAGTGTAC GAAT	60.3	281	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_13381675	Ca7	13381675	GTTTTT/GTTTTTT	AAGCCATCAAGCGAAC CTTA	CTCTAGACACGCGT GAACA	59.8	310	DRR	Ca_16030	--	HD-ZIP
Ca7_P1_13388857	Ca7	13388857	ATT/AT	GGGGTTTGGAAGTTTG TTCA	GTGTCAACGAGGATC GATTT	59.8	427	INTERGENIC	--	--	--
Ca7_P1_13397777	Ca7	13397777	CTT/CTTT	GGCTTACACCAATGCT TAAATG	TTGAAAATACACAAT CCAAAA	59.9	628	INTERGENIC	--	--	--
Ca7_P1_13400396	Ca7	13400396	TA/TAA	TGCACACCTAACATTA GTCAAACA	TTGAAATCTAGCCGCC AACT	59.6	500	INTERGENIC	--	--	--
Ca7_P1_13403629	Ca7	13403629	AGG/AG	CACACAACCGGTGACA ATTT	TGCTTTTTGTTGAGTG GCTG	59.3	453	DRR	Ca_16033	--	--
Ca7_P1_13403661	Ca7	13403661	GT/GTT	TTAGGTATCGAGGTG AGCA	TGCTTTTTGTTGAGTG GCTG	59.4	155	DRR	Ca_16033	--	--
Ca7_P1_13405239	Ca7	13405239	ATATATATCT/AT	CACACGATCCACTTCA ATTTT	ATAACTTTCGGGGCT CTGT	57.6	652	DRR	Ca_16033	--	--
Ca7_P1_13406795	Ca7	13406795	ATTT/ATTTT	ATTCAACCCGCCTTTA GTCC	CCAATAGCTTCACTCC CCAT	60.3	376	INTERGENIC	--	--	--
Ca7_P1_13406957	Ca7	13406957	TT/TTCT	ATTCAACCCGCCTTTA GTCC	TTGTCAGTTTTTGCCT TTTTATG	60.3	806	INTERGENIC	--	--	--
Ca7_P1_13408717	Ca7	13408717	TAAAAAAAAA/TAAAAAAAAA	TGTTTATATTGGCTTTG TTTGGG	TCACATGCCAACACTT CGTT	60.1	528	INTERGENIC	--	--	--
Ca7_P1_13439128	Ca7	13439128	TTTAAAAAAAA/T	AATATGGCAACACATG CTCG	TTGCATTTTGGATGTT TCACA	59.6	407	INTERGENIC	--	--	--
Ca7_P1_13439187	Ca7	13439187	GGAGAG/GGAGAGAG	AATATGGCAACACATG CTCG	TTGCATTTTGGATGTT TCACA	59.6	407	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_13442638	Ca7	13442638	TAAAA/TAA	CATTGTGCGAACGTG ATAC	TCGATTATGCGTAGGG AAGG	60.0	809	INTERGENIC	--	--	--
Ca7_P1_13453764	Ca7	13453764	CATCACCTATCACCT/CATCACCT	TCACTTTGTCGCTCTC CCTT	TCGAATTTGATGGTGG ATGA	60.0	422	INTERGENIC	--	--	--
Ca7_P1_13456769	Ca7	13456769	A/AG	ACCATCGTAAGGGAGA AGCA	CCCATGAAATCACAAT AAAATCC	59.7	805	INTERGENIC	--	--	--
Ca7_P1_13456910	Ca7	13456910	GA/G	ATTGGACAACCGCGTA AAAT	CCCATGAAATCACAAT AAAATCC	59.3	630	INTERGENIC	--	--	--
Ca7_P1_13457040	Ca7	13457040	TAAA/TAA	TCAATTGTAGCGTAAT AATGGTGG	TGGTGGGCCTAAAATC CATA	60.1	755	INTERGENIC	--	--	--
Ca7_P1_13467995	Ca7	13467995	TA/TAAA	TGCACTTGGAATAAC ACCG	TTCTTATTCTCCCACC GACG	59.6	545	DRR	Ca_16035	I	--
Ca7_P1_13468208	Ca7	13468208	TAA/T	AAACAAGCGCGATGTT TTTC	TTCTTATTCTCCCACC GACG	60.3	268	DRR	Ca_16035	I	--
Ca7_P1_13468281	Ca7	13468281	TA/TAATGA	AAACAAGCGCGATGTT TTTC	TTCTTATTCTCCCACC GACG	60.3	268	DRR	Ca_16035	I	--
Ca7_P1_13469199	Ca7	13469199	CAAAAA/CAAAAAA	AACTCACGAATCGGTT TCCTT	GGATTTATTGATTTTAC ATCGTCA	60.0	134	INTERGENIC	--	--	--
Ca7_P1_13470664	Ca7	13470664	AGAGGAAGAAG/A	CGAACGCTTAAATGAT ATTTGTGA	CGTCATCATCTTCAGC ATGG	60.4	807	INTERGENIC	--	--	--
Ca7_P1_13470743	Ca7	13470743	GTATATATATA/GTATATATATATA	GAAACAACCACTTTAG GGTTTCA	ACGCACCAAAACATT GAGA	59.4	333	INTERGENIC	--	--	--
Ca7_P1_13470919	Ca7	13470919	AAAGAAGAAGAA/AAAGAAGAAGAAG AA	ATCTCCCTCAAAC TC ACGA	ACGCACCAAAACATT GAGA	59.7	198	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_13479302	Ca7	13479302	AGA/AGAGGA	AATGCACATACCAGCA TCCA	TAGGGCCAATGAAAAT GAGG	60.0	505	INTERGENIC	--	--	--
Ca7_P1_13480499	Ca7	13480499	CT/CTGT	ACATGGTCTAGAAGCG ACGG	TGGTTCAAGATGGTGG TCAA	60.3	348	DRR	Ca_16036	R	WRKY
Ca7_P1_13484570	Ca7	13484570	AAAAAATATAAAAA/AAAAAA	CTCCAAATCGACGGCT TAAA	TTAGGCGACGTCGTTT TTCT	60.2	259	INTRON	Ca_16036	R	WRKY
Ca7_P1_13490372	Ca7	13490372	CATATATATATAT/CATATATATAT	AACACACACACACACA CACGA	TGGAGAACATATCCAG CACA	59.5	552	INTERGENIC	--	--	--
Ca7_P1_13493338	Ca7	13493338	ATTTTT/ATTTTT	TAAGTGACCACCAATC GCAA	TTTAAGAAAAACACCA AAATTGTCA	60.1	544	INTERGENIC	--	--	--
Ca7_P1_13493863	Ca7	13493863	CAAAAAAAAA/CAAAAAAAAA	TGCCATTAAATTATCT TGCATCA	GAATTATCCACGGACT TGCC	60.7	432	INTERGENIC	--	--	--
Ca7_P1_13495702	Ca7	13495702	ATAA/ATAAGTAA	TGGACATTTTCGTAA AGGGA	CTCACTGAGGTTGGGT TGGT	59.4	581	INTERGENIC	--	--	--
Ca7_P1_13497952	Ca7	13497952	CTATATA/CTATATATA	TTGGCATTTTCGGGTTT TATC	GCCTACTAGACGCCAC CATC	59.9	552	INTERGENIC	--	--	--
Ca7_P1_13500441	Ca7	13500441	TAAAAAAAA/AAAAAAAAA	GGGACAAGCATTGCTC ACTT	TGTCATTTCTGGCGTA GTGTG	60.3	994	INTERGENIC	--	--	--
Ca7_P1_13504569	Ca7	13504569	CATTA/CATTATTA	GAAAAAGCGCTGTAA TGGC	CATCACTTAAACCCCT TGGC	59.9	846	INTERGENIC	--	--	--
Ca7_P1_13504989	Ca7	13504989	GTTTTT/GTTTTTT	TGTTAGTGAAGGGTGA GGTGAA	ATCACTTAAACCCCTT GGCA	58.6	166	INTERGENIC	--	--	--
Ca7_P1_13506025	Ca7	13506025	TC/T	GTTGAGCGCATAACGT GAAA	AAAGAACGCAAAATTC TATTCAA	59.9	269	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_13507086	Ca7	13507086	AGT/AGTGT	TTGGTGACCCCATAA TCGT	CCTAGCATGCTCGAT TTGA	60.1	548	INTERGENIC	--	--	--
Ca7_P1_13507550	Ca7	13507550	CAT/CATTAGTGTTATAT	CGGTCTTTTATGAACG CACA	GTTGCACTTGGTGAGT GGTG	59.7	583	INTERGENIC	--	--	--
Ca7_P1_13510748	Ca7	13510748	ATT/AT	GGTGGTTCATTTTGTC TGGG	AAATGGTCCTCGCGAT GTAA	60.2	525	INTERGENIC	--	--	--
Ca7_P1_13511105	Ca7	13511105	TT/TTAAAT	GGTGGTTCATTTTGTC TGGG	AAATGGTCCTCGCGAT GTAA	60.2	525	INTERGENIC	--	--	--
Ca7_P1_13511469	Ca7	13511469	AC/ACC	GATTACATCGCGAGGA CCAT	GCAAAATCTTGGAGA TGCG	59.9	512	INTERGENIC	--	--	--
Ca7_P1_13513360	Ca7	13513360	CTT/CTTT	GCATCGGTTTGTACC ACCT	GGCAAAGCTACAATT GGGA	59.9	633	DRR	Ca_16037	--	--
Ca7_P1_13522224	Ca7	13522224	TTATATATATATATAT/TTATATATAT ATATATATAT	AAGGGTTTGTGTTTT GCAG	ACCACCACACTCCCTC TCAC	60.0	314	INTERGENIC	--	--	--
Ca7_P1_13522722	Ca7	13522722	TTTA/T	GTGAGAGGGAGTGTG GTGGT	TGGTGCCAAATCATT CAAA	60.0	613	INTERGENIC	--	--	--
Ca7_P1_13523412	Ca7	13523412	C/CGT	TTTGCAAGCAAATATG GCAA	CAAATTGCCTCCCAAC AGAT	60.2	278	INTERGENIC	--	--	--
Ca7_P1_13524789	Ca7	13524789	TAGAA/TAGAAGAA	TTTCGGTAGCCGTTCAA TTTC	CGGAATATGTGAGGG GTGG	60.1	330	INTERGENIC	--	--	--
Ca7_P1_13526291	Ca7	13526291	TATAAATAAATAAATAAATAAATA AATAAATAAATAAATAAATAAATA ATAAATAAATAAATAAATAAATA	AAATTGGTCATCGGTG CTTC	TTCCACACCACACTTG ATCC	59.9	713	INTERGENIC	--	--	--
Ca7_P1_13526394	Ca7	13526394	CAAAA/CAAA	TGCGTATTTAATGTCG CAGA	TTCCACACCACACTTG ATCC	58.0	481	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_13526507	Ca7	13526507	T/TCAAAGTGGCAAG	TGCGTATTTAATGTCG CAGA	CAACAATCTTGGTGAA TGCG	58.0	907	INTERGENIC	--	--	--
Ca7_P1_13526649	Ca7	13526649	TAT/TATCAT	GGATCAAGTGTGGTGT GGAA	CAACAATCTTGGTGAA TGCG	59.4	446	INTERGENIC	--	--	--
Ca7_P1_13528386	Ca7	13528386	TG/T	GGTTTGGATCTCCACT GTAGG	TTCAATTTTCGTGTGG AAAGG	58.5	321	INTERGENIC	--	--	--
Ca7_P1_13530726	Ca7	13530726	GAATTTGAAATAATTTGAAATAATTTG AATTTGAAATAATTT	CAATTATTTCCGGTCG ATGC	ATGGCAACCTCTCCAT GATT	60.3	235	INTERGENIC	--	--	--
Ca7_P1_13531566	Ca7	13531566	CTTTTTTTTT/CTTTTTTTT	CCGCAATTACTTGTGT CTTT	TCCAATTCAGCCCTC ATTA	60.1	671	INTERGENIC	--	--	--
Ca7_P1_13544337	Ca7	13544337	AT/A	TTTTCCCTCTATTTCCC CCT	CGATTCCATCGTTGCT TTCT	58.9	290	INTERGENIC	--	--	--
Ca7_P1_13548201	Ca7	13548201	TGT/TGTACGT	TGCAACTTGTGCCACA TACA	CATGCTGCAGGACCTA GACA	59.7	311	DRR	Ca_16039	T	bZIP
Ca7_P1_13555516	Ca7	13555516	AATATTATATTA/AATATTATATTATTT A	TTTCTAATCAGTGCC TGGTC	TCAACGAGCATGTGGA AAAG	59.2	554	DRR	Ca_16040	--	bZIP
Ca7_P1_13576338	Ca7	13576338	TAAAAAAAA/TAAAAAAAA	TCCGGGTCAAGACTAT GCTC	AAACCGTATGGGGTG TGAA	60.2	970	INTERGENIC	--	--	--
Ca7_P1_13583489	Ca7	13583489	TATAATAATAATAATAATAATAATA ATAATAAT/TATAATAATAATAATAATA ATAATAATAATAATAATAAT	CTTTGGATTTTCGCGA TAGG	CAAAAGTGGCTTCACC TTGA	59.7	772	INTERGENIC	--	--	--
Ca7_P1_13586920	Ca7	13586920	AAGTT/A	TCACGTTTCGATAAGA TGCG	CGCAACATCAAGAAAA CGAA	59.8	676	INTERGENIC	--	--	--
Ca7_P1_13587838	Ca7	13587838	AA/AAAGA	GGAACAATCGAACACT CATTCA	TTTTGTGTATCAAGT GGCAAAA	60.0	619	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_13588215	Ca7	13588215	AG/A	CATGCAAATTCAAAGG ATTCA	CTCCACCCATTCATCG ATTT	58.6	867	INTERGENIC	--	--	--
Ca7_P1_13588796	Ca7	13588796	ATT/ATTT	AAATCGATGAATGGGT GGAG	AGAAACGTGCGGTGT CTCTT	59.8	561	INTERGENIC	--	--	--
Ca7_P1_13599607	Ca7	13599607	TCAATTAATA/T	TGTGGTGTATGGAGGT TTTCC	ATGTGGTGCTGCGAAT AACA	59.7	127	INTERGENIC	--	--	--
Ca7_P1_13606839	Ca7	13606839	AAAAAATAAAAAATAAAAA/AAA AAATAAAAAATAAAAA	GTTGCAGCAGTAACAG TCGC	TCCGATTGGAAAGCTC ACTC	59.7	330	INTRON	Ca_16044	R	C2H2
Ca7_P1_13609807	Ca7	13609807	A/ATT	AACGTGGCAAACCTT ACTG	CGTCGAAGTTTCTGA CCTC	60.0	346	INTERGENIC	--	--	--
Ca7_P1_13610890	Ca7	13610890	T/TA	CAGTGCTGACTATTAA GGATGTGTG	TGAATGCGTGTTTAAG CTCC	60.1	851	INTERGENIC	--	--	--
Ca7_P1_13613743	Ca7	13613743	TTAT/TTATAT	AAATGCGAGCTAGGTT TGACA	CGCACGAAGGTTGACT ATGA	59.9	394	INTERGENIC	--	--	--
Ca7_P1_13614914	Ca7	13614914	ATTTTT/ATTTT	TGAGCTTACACCCACA TTGC	CCTCGTTTGTTTGGT TTGG	59.7	749	INTERGENIC	--	--	--
Ca7_P1_13618706	Ca7	13618706	CT/CTCTCATTAGTTT	ACCCGACCGAGAAAGA GAAT	TGCACTGGTCGATGGT TATG	60.1	767	INTERGENIC	--	--	--
Ca7_P1_13620133	Ca7	13620133	TAAAA/TAAA	AGATGTGGTCGGCTAT GACC	GACCAATCACCACAAC CCTC	60.0	807	INTERGENIC	--	--	--
Ca7_P1_13622541	Ca7	13622541	GCCCC/GCCC	TTTCTTCATCCGCGTTA TCC	CCGGGATGTTTCTCTT GGTA	60.0	661	INTERGENIC	--	--	--
Ca7_P1_13623004	Ca7	13623004	T/TG	GAGGAGGTGAGGACC AAATG	TCCAATGAGAAGGTTT AGGGAA	59.5	584	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_13625636	Ca7	13625636	CAAA/CAA	GGGCAAGTATTGGTGT TGCT	GGGGTTTTCGTCACCA TATTT	60.0	473	DRR	Ca_16045	R	--
Ca7_P1_13625674	Ca7	13625674	TAA/TA	GGGCAAGTATTGGTGT TGCT	GGGGTTTTCGTCACCA TATTT	60.0	473	DRR	Ca_16045	R	--
Ca7_P1_13627409	Ca7	13627409	ACC/ACCC	CCGATCATGATGGATG TGTT	TTTTGGTGGGCATTGT CTAT	59.2	398	DRR	Ca_16045	R	--
Ca7_P1_13647805	Ca7	13647805	TAAAAAA/TAAAAA	TCGTCACGCGATTAGA ACTG	TGTGAGCAAAATGAAA AATTGG	60.0	313	INTERGENIC	--	--	--
Ca7_P1_13649521	Ca7	13649521	TAAAAA/TAAAA	ATCAAGCTCATACGGT TGGG	TGTCATTAGGACAAGA TTATTCCA	60.0	504	INTERGENIC	--	--	--
Ca7_P1_13654188	Ca7	13654188	CATCAATCA/CATCAATCAATCA	AAAGGAGCTGGGTGAT GATG	GTCAATGCTTCGCACA AAAA	60.1	659	DRR	Ca_16047	DR	--
Ca7_P1_13655144	Ca7	13655144	TAAAAAA/TAAAAA	CGAGACATTGAGGTAA CACGG	TTGGCATCGTTGTGTT GATT	60.6	597	DRR	Ca_16047	DR	--
Ca7_P1_13656688	Ca7	13656688	GTAATACT/GTAATACTAATACT	GGAAGAGTGGCAGA GACAG	ATGATCCATCAGCGTC ATCA	60.0	688	INTERGENIC	--	--	--
Ca7_P1_13657640	Ca7	13657640	GAA/GAAAA	CATTGGTCCAGGAGG AAGA	GTAGTGCTTGCCAATG CAAA	60.0	489	INTRON	Ca_16048	T	bHLH
Ca7_P1_13660070	Ca7	13660070	AATAT/AAT	CCGGTCCCCTGAATAT TTCT	CGAGCCTGCTCAATAC ACAA	60.1	382	INTRON	Ca_16048	T	bHLH
Ca7_P1_13662052	Ca7	13662052	TAA/TTCTCAA	GGCTTCAACACCACCA TCTT	TTGGAGGATGATTTTC GGAC	60.0	232	DRR	Ca_16048	T	bHLH
Ca7_P1_13666277	Ca7	13666277	TTCTC/TTCTCTC	ATATTGAGACCGCAA ATCG	AGCTTTGGTACGAGCC TGAA	60.1	153	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_13674802	Ca7	13674802	TA/TAA	ATTGGGAAGTGTAGGA GGGG	AGCATAGGCTGGAAG AGCAA	60.2	956	INTRON	Ca_16049	--	--
Ca7_P1_13676108	Ca7	13676108	ATTTT/ATTT	AACTTTCAGGAAGCAG CCAA	TTTGCCCGTACATT GTGA	60.0	651	INTRON	Ca_16049	--	--
Ca7_P1_13679788	Ca7	13679788	TTT/TTCTT	TGTGCTGGTGTAGAC TCCG	CACCATAGCATGGCAT TCAG	59.9	664	INTERGENIC	--	--	--
Ca7_P1_13680160	Ca7	13680160	AGGGGG/AGGGG	TAGGCGAATGAGCTTG CTTT	TTGGCACTCCATCCAC ATTA	60.1	838	INTERGENIC	--	--	--
Ca7_P1_13681731	Ca7	13681731	GTTT/GTT	GACCGCAAGATTGTG GAAT	CGAGACCCCTCTCCAA TACA	59.9	773	INTERGENIC	--	--	--
Ca7_P1_13684186	Ca7	13684186	CA/CAA	TAAGCATTTCCATTGT GGCA	CCCTCAAGTCTATGTA GACCCC	60.1	347	INTERGENIC	--	--	--
Ca7_P1_13684363	Ca7	13684363	AAGA/AA	TAAGCATTTCCATTGT GGCA	TGAGTTTGTGTTTCT TCAAATTCT	60.1	485	INTERGENIC	--	--	--
Ca7_P1_13684569	Ca7	13684569	TA/T	AGGTTGGCAAACCTGA GGAT	CGAGGTGCCATAACAA ATGA	58.6	776	INTERGENIC	--	--	--
Ca7_P1_13686933	Ca7	13686933	ATTATTATTATTATTATT/ATT ATTATTATTATTATTATTATT	CGAAGTTCGAACCTTG AAGC	TTAATCTGCGGGATT TTTG	60.0	363	INTERGENIC	--	--	--
Ca7_P1_13690598	Ca7	13690598	CT/CTGTATCGAGTT	GGCGGAGAGATGAGTT TTCA	TGTGTATCGTTGTCCC TTCG	60.3	890	INTERGENIC	--	--	--
Ca7_P1_13698072	Ca7	13698072	AAGA/AA	ACCGAGTGTGAACTC AAGG	CCAAATGACGACTTCC CACT	60.3	436	INTERGENIC	--	--	--
Ca7_P1_13709116	Ca7	13709116	TTT/TTTGTT	ACTCCCCCTGTTCTC CACT	ATGCCAAACATGCCAC TACA	60.0	523	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_13717024	Ca7	13717024	CTTTTTTTTT/CTTTTTTTT	GCTAGTGCCACAATGA CACG	CACCTTGCCATCTCCAA GGAT	60.3	702	INTRON	Ca_16050	QI	bHLH
Ca7_P1_13717734	Ca7	13717734	TTTAAAAA/T	ATCCTTGGAGATGGCA AGTG	CCTTTTGGATTGTGTT TAACCC	60.1	640	INTRON	Ca_16050	QI	bHLH
Ca7_P1_13718956	Ca7	13718956	TTATATATATAT/TTATATATAT	GCCGCTTAAAATTAGA CCCC	ATTGAACTGGATGACA GGGC	59.9	581	DRR	Ca_16050	QI	bHLH
Ca7_P1_13719913	Ca7	13719913	TTTT/TTTTCTTT	GCCTCCATGTATCTTT GGTTG	CTCCTCCGAATGGCAT AAAA	59.4	234	DRR	Ca_16050	QI	bHLH
Ca7_P1_13722848	Ca7	13722848	CTATA/CTA	TGCATCAGCACACAAA CAAA	TGGGTTAGATTCATT GCCC	59.9	546	INTERGENIC	--	--	--
Ca7_P1_13723014	Ca7	13723014	CTTTT/CTTT	TGCATCAGCACACAAA CAAA	TGGGTTAGATTCATT GCCC	59.9	546	INTERGENIC	--	--	--
Ca7_P1_13729968	Ca7	13729968	GT/G	CACCGCATTTCGTATTA GCCT	GCATTTCACCCAGATT TCCT	60.1	445	INTRON	Ca_16051	C	--
Ca7_P1_13733991	Ca7	13733991	TAAAAA/TAAAAAA	TGATGGATTGTAGAG GGCA	TGAGATACCATGCACG TTCG	59.1	823	DRR	Ca_16051	C	--
Ca7_P1_13734273	Ca7	13734273	AG/AGG	TTGACCAAAACACGTC TCTCA	ACATTGCGATGTGATG TGGT	59.3	397	INTERGENIC	--	--	--
Ca7_P1_13738361	Ca7	13738361	AC/A	TTGGCGCATTATGAGT TTGA	GATCCAGGTGGAACG AGAAA	60.2	450	INTERGENIC	--	--	--
Ca7_P1_13738674	Ca7	13738674	CTTTTTTTTT/CTTTTTTTTTTTT	ACTTCCACCATAGCTC CACG	CGCAAATGTAGTTCCC AACC	60.1	607	INTERGENIC	--	--	--
Ca7_P1_13761234	Ca7	13761234	TAAA/TAA	TCGCAATTGACTTTGCG TTAG	TGATGCATTTGCATGC TTTT	60.0	595	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_13762390	Ca7	13762390	AA/AAGA	GCAAAATTGATGGCAA ATCC	GGGTCAATTGGTCCAT CATC	60.3	581	INTERGENIC	--	--	--
Ca7_P1_13762655	Ca7	13762655	ATTGTT/ATT	GCAAAATTGATGGCAA ATCC	GGGTCAATTGGTCCAT CATC	60.3	581	INTERGENIC	--	--	--
Ca7_P1_13765445	Ca7	13765445	TTT/TTTTTATT	GTTGAAAGAGGCAGTC AGGC	GCAACTTGCAATTAGC CCAT	60.0	580	INTERGENIC	--	--	--
Ca7_P1_13778185	Ca7	13778185	GA/GAA	GCACCTCGTCTTAGAC TTTTCG	TCACATCAGTGAACC TCGT	58.3	868	INTERGENIC	--	--	--
Ca7_P1_13800047	Ca7	13800047	TTATATATATATATATATATATATATATATATATA/TTATATATATATATATATATATATATATA	ATGGTGGAGGTGGAT GGTAG	TTGACTCAATTTATTC GTTATGCAA	59.7	649	INTERGENIC	--	--	--
Ca7_P1_1386165	Ca7	1386165	AATATATATATATATATATATATATATATATATA/AATATATATATATATATATATATATATATATATATA	CAAAATCTTGCTGGCT CACA	CCAGTCGACTCCATTC GTTT	60.0	865	INTERGENIC	--	--	--
Ca7_P1_13866056	Ca7	13866056	ATTTTTTTTTT/ATTTTTTTTT	TTGCAGACTGGGACTT CCTT	ATTGTGTGGGAGCCTC GTAT	59.8	513	INTERGENIC	--	--	--
Ca7_P1_13909902	Ca7	13909902	AATATATATATATATATA/AATATATATATATATATATATA	TCGTCATTTGAAACAG CGAC	GAAAAC TTCGGCAATG TGGT	59.8	611	INTERGENIC	--	--	--
Ca7_P1_14014550	Ca7	14014550	AATATATATATATATATATATATATA/TAATATATATATATATATA	AAGGAAGCGGTAGCA GGTAA	GGAGCGAACACATGC AGTAA	59.0	438	INTERGENIC	--	--	--
Ca7_P1_14026857	Ca7	14026857	GAAAAA/GAAAA	TACA AATTGGATGCGG TTGA	TCTTCCACCCAGTTTT CACCC	59.9	233	INTERGENIC	--	--	--
Ca7_P1_14057693	Ca7	14057693	G/GGAT	TGTTGCTTCCATACAG GCAG	TTCTCACAGAAACGCA GTGG	59.9	681	DRR	Ca_16074	--	--
Ca7_P1_14071479	Ca7	14071479	TTATTATTA/TTAATATTATTA	CAATGCGTTTTCCCAA CTTT	CCGTTTTAGCGAACGA CGTA	60.0	384	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_14071498	Ca7	14071498	T/TATTATTATTATTA	CAATGCGTTTTCCAA CTTT	CCGTTTTAGCGAACGA CGTA	60.0	384	INTERGENIC	--	--	--
Ca7_P1_14075293	Ca7	14075293	CATATATATATATAT/CATATATATA TATAT	TTTGTTTAGCCACAAC TTTGA	CGTGCTCGGGATTAT TTGT	57.6	862	INTERGENIC	--	--	--
Ca7_P1_14123267	Ca7	14123267	TTTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTAT TATTATTATTAT/TTTATTATTATTATTA TTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTATT	GATCGAGTGTCACTTT GGCA	GGATCAAAAATGAAAA TTGGAAA	59.8	523	INTERGENIC	--	--	--
Ca7_P1_14142863	Ca7	14142863	CTTTTCTTT/CTTTTCTTTT	GTTCTTCAACGCCAA CAAT	CGAGGATGCGACCTT GTACT	60.0	576	INTERGENIC	--	--	--
Ca7_P1_14143156	Ca7	14143156	AAAAAAAAATAAAAA/AAAAAAAAATA AAAAAAAAATAAAAA	CCTCAAGCTGTACAA GGGC	TTGACCAAAATGCGAC ACTC	59.9	507	INTERGENIC	--	--	--
Ca7_P1_14157143	Ca7	14157143	T/TTCC	TGTTTAGATCAACAAT CCCCA	CAAAGGCAGCTGTCAA CAAA	59.3	522	INTERGENIC	--	--	--
Ca7_P1_1418564	Ca7	1418564	G/G	AGCATGAATGTTGTG GCAA	CCGGTGAACAAAAACG AACT	60.1	449	INTERGENIC	--	--	--
Ca7_P1_14208119	Ca7	14208119	GTATATATATATATATATATATATAT ATATATATATATATATATAT/GTATATA TATATATATATATATATATATATAT	CATTACATCACGCAT CTCA	TAGAGTGGTGCGATCA CGAG	59.2	421	INTERGENIC	--	--	--
Ca7_P1_14226740	Ca7	14226740	CAAAAAAAAA/CAAAAAAAAA	CGTCATTGCAAAAAGA GACG	CATATTGGACTCCCGT TGCT	59.5	220	INTERGENIC	--	--	--
Ca7_P1_1423751	Ca7	1423751	GTAATTAATTA/GTAATTAATTAATTA A	CGAGCTTTAAGCCACC TTTG	GGATTCGACCTTGTG CTTA	60.0	706	INTRON	Ca_03325	--	--
Ca7_P1_14241868	Ca7	14241868	TTATATATATATATATATATATATAT ATATATAT/TTATATATATATATATAT ATATATATATATATATAT	AGACCAACTTGCCCTTG TTGC	TCACTAAATGAGCGTT TGTTGG	60.3	669	INTERGENIC	--	--	--
Ca7_P1_1424328	Ca7	1424328	GAAAAAAAA/GAAAAAAAA	TTCCAGCTCCAATTTTC ACC	ACAGAGAGAGGCTGG ATGGA	60.1	598	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/P1)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_14274248	Ca7	14274248	TTTTATTTATTTATTTATTTATTT ATTTATTTATTT/TTTTATTTATTTA TTTATTTATTTATTTATTTATTTA TTTATT	GTCGTGGCCTTCGTCA TAAT	TCACAACTCTTTGTT GGGC	60.0	451	INTERGENIC	--	--	--
Ca7_P1_14278883	Ca7	14278883	TGCCTCAGCCTCAGCCTCAGCCTCA/ TGCCTCAGCCTCAGCCTCAGCCTCA GCCTCA	GGACGATGATAGGGA GACGA	AAGGAAAAATCAAAGC CGGT	60.0	324	INTERGENIC	--	--	--
Ca7_P1_14288197	Ca7	14288197	ATTTTTTTTT/ATTTTTTTTT	TGCGTGAGCGATCAAG TAAC	TGTATGTTGGGTCTCT GGTCA	60.0	300	INTERGENIC	--	--	--
Ca7_P1_14317932	Ca7	14317932	A/AT	CGAAAAGCGACAAGA AAGG	GCTTCGGAGTAGTAC TGCC	60.0	938	INTERGENIC	--	--	--
Ca7_P1_14352764	Ca7	14352764	CAATAAATAAATAAATAAATAAA TAAATAAATAAATAA/CAATAAATAA TAAATAAATAAATAAATAAATAAA	GCCTCTTCCTCTTTT GCCT	TTTATTCATGCCCGA AGAC	60.0	165	INTERGENIC	--	--	--
Ca7_P1_14379603	Ca7	14379603	ACC/AC	TTCCCCATTCTTAACG CTCA	GGTAAGGGCTCCTTCC AAAC	60.6	452	INTERGENIC	--	--	--
Ca7_P1_14411410	Ca7	14411410	AATTATTATTATTATTATTATTATT AT/AATTATTATTATTATTATTAT	TCGTTCTTCAGGAAG TCGT	TGGGGTCATTAGGTG GACA	59.8	733	INTERGENIC	--	--	--
Ca7_P1_14452319	Ca7	14452319	ACNNNNNNNNNC/AC	TTGAAGCTGCAACAAG AGGA	GGGGAACCTGTAGTG GACAA	59.7	305	CDS (FRAME SHIFT)	Ca_09993	C	bHLH
Ca7_P1_14452687	Ca7	14452687	TAAA/TAAAA	TTGTCCACTACAGGT CCCC	AGCTAGGTGGAATG CCCT	59.8	374	INTRON	Ca_09993	C	bHLH
Ca7_P1_14464738	Ca7	14464738	AATATATATATATATATATATATA TATATATATAAATATATATATATAT ATATATATATATATATATATA	TGAATGGTAAGGGT GAGAA	TTAGCCCTTTTGATCC TGTC	59.4	736	INTERGENIC	--	--	--
Ca7_P1_14512639	Ca7	14512639	TAAAAAAA/TAAAAAA	TTGGGTTTGAGGAAAG TTGC	ATTTATTCCGTGGCT GTCG	60.1	534	INTERGENIC	--	--	--
Ca7_P1_14691767	Ca7	14691767	ATCTTCTTCTTCTC/ATCTTCTC	GCATTCACCTTGGCA TGTG	AAGGTGTTGGAACCAA GTTGA	60.3	715	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_14741334	Ca7	14741334	AATATATATATATATA/AATATATAT ATATATATATA	CCCAAAATTAAAGGCA CCCT	AGGCAATGGCAGAA GTGTT	60.2	788	INTERGENIC	--	--	--
Ca7_P1_14746888	Ca7	14746888	AATATATATATATATATATATA/A ATATATATATATATATATATA	ATGGACGATGGATCCA AAAA	ATCACCGAAAATACAT CGGC	60.1	223	INTERGENIC	--	--	--
Ca7_P1_14780927	Ca7	14780927	ATTTT/ATTTT	AAATGAAATTTCCGGG AAGG	AGGGATGGAAAACACA CGAC	60.1	473	DRR	Ca_09968	O	bHLH
Ca7_P1_14803293	Ca7	14803293	CTATTATTATTATTATTATTATTAT TATTATTATTAT/CTATTATTATTAT TATTATTATTATTATTATTATTATT ATTATTAT	CGACAGTTGATTGCGT ATGG	ACGTAGGAGCAAGATC GCAT	60.1	196	INTERGENIC	--	--	--
Ca7_P1_14831868	Ca7	14831868	AATATATATATATATATATATATA TATATA/AATATATATATATATATAT ATATATATATATATATATATA	GGCCTATGGCCTGACC TACT	TGCAACAACCTTCCCA TAAA	60.5	796	INTERGENIC	--	--	--
Ca7_P1_14896597	Ca7	14896597	CTTTTTTTT/CTTTTTTTTT	TCTTTTGAGGGGTAA CGGA	AAGCATCCGCTTTT ACCA	59.5	351	DRR	Ca_09961	P	--
Ca7_P1_14912277	Ca7	14912277	C/CCCCATT	GGA CTGGATCCGACTT TGAA	TCCCCTTCGTTGTTT TCAG	60.1	624	INTERGENIC	--	--	--
Ca7_P1_14931172	Ca7	14931172	ATTTTTTTTT/ATTTTTTTTT	TGGGCAATGTTAATG TGGA	TCAAGGAGCCACAATG TCAC	59.8	318	INTRON	Ca_09959	G	--
Ca7_P1_14948950	Ca7	14948950	ATAGTTAGTTAGTTAGTTAGTT/ATAG TTAGTTAGTTAGTTAGTTAGTT	AAAAAGCCTTACAGCC CCAT	GTCCAAGTTTGACAGC CACA	60.0	685	INTRON	Ca_09958	--	bZIP
Ca7_P1_14992578	Ca7	14992578	TTATATATATATATATATATAT/TTAT ATATATATATATATAT	GACTTGCAACAACGAAG CAAA	GCCCTATTTAATGCAG GCAA	60.0	345	INTRON	Ca_09954	A	--
Ca7_P1_15094001	Ca7	15094001	AATATATATATATATAT/AATATATA TATATATAT	GGGACTGGGGTCATT AGGT	AGCGACATCCAACGTC GTAT	60.1	675	INTERGENIC	--	--	--
Ca7_P1_15118536	Ca7	15118536	CTT/CTTTT	AGGATGAGCAGTGGG AGAAA	GTTTGAGTGTGCGCGT TGTA	59.8	662	INTRON	Ca_09943	--	M-type

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_15131960	Ca7	15131960	TTATATATATATATATATAT/TTATAT ATATATATATATAT	ACCCAAATCCAAATG AGCA	GTTCCAAATGACGACT TCCC	60.3	520	INTERGENIC	--	--	--
Ca7_P1_15202855	Ca7	15202855	ATTTTT/ATTTTTTT	TCGTGATTCCCTAGTC CACC	CAATCTCGCGCTCAAA TGTA	59.9	692	INTERGENIC	--	--	--
Ca7_P1_15217322	Ca7	15217322	AATATATATATATATAT/AAATATA TATATATATATAT	ACCAATGTCCTTGCA TGAT	TCGCAATTACTCTTGC GATG	60.2	381	INTERGENIC	--	--	--
Ca7_P1_15268881	Ca7	15268881	AAATAATAATAATAATAATAATAAT AATAATAATAATAATAATAATA/AA ATAATAATAATAATAATAATAATAA TAATAATAATAATAATAATAATA	CAAATCAGCAAACACT TTACCC	TAGTCCTGAAGCCTT GGTT	58.7	549	INTERGENIC	--	--	--
Ca7_P1_15278671	Ca7	15278671	GAAAAAAAAA/GAAAAAAAAA	CATTCAAGTTGGGGC AGTT	TGGATTGCGTAGATCG AACA	60.0	617	INTERGENIC	--	--	--
Ca7_P1_15319759	Ca7	15319759	GTTTTTTTTT/GTTTTTTTTT	GTGGCGACTCCATTGA ATTT	GGTTGACGACTAAGG GTGGA	59.9	588	INTERGENIC	--	--	--
Ca7_P1_15392479	Ca7	15392479	AAATAATAATAATAATAATAATAAT AATAATAATAAT/AAATAATAATAAA TAATAATAATAATAATAATAATAAT AAT	CTCGTGCTCAAAATC CAAGG	TCACGTGAGGCAATAT CAAG	59.7	911	INTERGENIC	--	--	--
Ca7_P1_15394134	Ca7	15394134	ATATTATTATTATTATTATTATTAT TATTATTA/ATATTATTATTATTATT ATTATTATTATTATTATTA	GAGGGTTTGCAGCTCT TGTC	TTGCACTCCACTGTTT TTCG	60.0	341	INTERGENIC	--	--	--
Ca7_P1_15460422	Ca7	15460422	TTATATATATATATATATATAT/TTAT ATATATATATATATATATAT	TCGGTTCGATCTATTC TCACC	TGGAAGAAACACTTCA ATGAAATAA	59.1	409	DRR	Ca_09916	I	G2-like
Ca7_P1_15467222	Ca7	15467222	TTTATTATTATTATTATTATTATTA TTATTATTATTATTAT/TTATTATTATT ATTATTATTATTATTATTATTATTA TTATTATTAT	TGGGAAACGGTGCTAA ACTT	TCCATTACGGCAAAAT TCAA	59.6	716	INTERGENIC	--	--	--
Ca7_P1_15496266	Ca7	15496266	CATAATAATAATAATAATAATAATA ATAATAATAATAATAAT/CATAATAATA ATAATAATAATAATAATAATAATAA TAATAATAAT	TGAGTTCAAAATATATC ATCTCTCACA	AAATCCGTTTGGATT GCAG	58.4	881	INTERGENIC	--	--	--
Ca7_P1_15507805	Ca7	15507805	TTAATAATAATAATAATAATAATAA TAATAATAATAATAATAATGATAAT AATAGTAATAATAATA/TTAATAAT AATAATAATAATAATAATAATAATA ATAATAATGATAATAATAGTAATAATA ATAATA	CAAGCAACCTGTTCCA AGTG	AACTCTGGTTGTTAC CGGC	59.3	883	INTERGENIC	--	--	--

[illegible]

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_15688440	Ca7	15688440	AATATATATATATATATATATATATA T/AATATATATATATATATATATATAT ATATATAT	TCATGGAGAACATTCT TCGTTTT	TTCCGCTCTTGATGCA ATGT	60.0	865	INTERGENIC	--	--	--
Ca7_P1_15691388	Ca7	15691388	TAAAAAAAAAAAAA/TAAAAAAAAAAA	TTGCTCCTACGTATCT CCCAG	TGAACGTGCCTAGTTG TTGG	59.3	649	INTERGENIC	--	--	--
Ca7_P1_15781721	Ca7	15781721	ATTTTTTTTT/ATTTTTTTTT	CAAATCGAATCGAACT GCAC	GGAGTATTTGCGGTGT TGTTT	59.3	283	DRR	Ca_09894	--	--
Ca7_P1_15841363	Ca7	15841363	GC/GTGATC	CTTTCGGAAGTTCAGG CAAC	GGTGCTGTCTCGGAT GAAAT	59.9	415	INTERGENIC	--	--	--
Ca7_P1_15902473	Ca7	15902473	TTATATATATATATATAT/TTATATATAT ATATATATAT	TTGATAGGTGTTTGGA GCC	GGACAACAAGCGAG CCTAA	59.9	593	INTERGENIC	--	--	--
Ca7_P1_15945483	Ca7	15945483	AAGAGAGAGAGAGAGAGAGAGAGAGAG AGAGAG/AAGAGAGAGAGAGAGAGAGAG AGAGAG	GCGTTTTCCAGAACTG CTTC	AAATTTGAACAAACCA CCGC	60.0	394	INTERGENIC	--	--	--
Ca7_P1_16001405	Ca7	16001405	AATTATTATTATTATTATTATTAT/A ATTATTATTATTATTATTATTATTA T	AAAACACACGTGCAA ACGA	GGGTACCACAGCACA GTTTT	60.2	679	INTERGENIC	--	--	--
Ca7_P1_16122158	Ca7	16122158	AAATAATAATAATAATAATAATA/A AATAATAATAATAATAATAATA	TCATTAGAAATTCGTT TGGTCA	GGGTGAAATTGGTTTA CAACG	58.7	620	INTERGENIC	--	--	--
Ca7_P1_16127650	Ca7	16127650	AATGATTCT/AATGATTCTCCCATGAT TCT	TCACCGAAATCAAGCA TTCA	TATGGATTCCGGGTTG TTGT	60.2	706	INTERGENIC	--	--	--
Ca7_P1_16191256	Ca7	16191256	CATATATATATATATATATATATATA TATATATATATA/CATATATATATATAT ATATATATATATATATATATATATAT A	TTTTCTTCTCCACCG CATA	AAAAACGTTCTGCTTT TGTTGTC	60.6	456	INTERGENIC	--	--	--
Ca7_P1_16240640	Ca7	16240640	TCAACAACAA/TCAACAACAACAA	AACCCAAAGTTAGGGA TCCAA	CAC TTCAGTAGAGGA CGCA	59.7	306	INTERGENIC	--	--	--
Ca7_P1_16257571	Ca7	16257571	TTATATATATATATATATATATATATAT ATATAT/TTATATATATATATATATATAT ATATATATATATAT	TGTTGGTGGTAGTGAT CGGA	CACACCCTTTATTTAT GAAGTTGC	60.0	935	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_16259771	Ca7	16259771	AAT/AATATTAT	GGAAAGCAACTGTTGG GGTA	AAGAAGACTTTGTTTT TGCAAGG	60.0	391	INTERGENIC	--	--	--
Ca7_P1_16270734	Ca7	16270734	AATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATAAA TAATAATAATAATAATAATAATAAT AATAATAATAATAATAATAATAATAA	AAACGGCCCTAAGTGT GTGT	TCAGCTGAAGGAAGCA CAGA	59.5	441	DRR	Ca_09859	--	G2-like
Ca7_P1_16289584	Ca7	16289584	TGAGAGAGAGAGAGAGAGAG/TGA GAGAGAGAGAGAGAGAG	TCCCCACATTACGGA TCAT	GTTGGGCTTGACGTT AAAA	60.0	453	INTRON	Ca_09857	I	--
Ca7_P1_16349610	Ca7	16349610	CTTTTTTTTT/CTTTTTTTTT	GCAGTGCTGAATTTG GTGA	TTGGTTTCATGACTTG CATCT	59.8	740	INTERGENIC	--	--	--
Ca7_P1_16354763	Ca7	16354763	ATTTTTTTTT/ATTTTTTTTT	TATACCGGTTTCCAT CCCA	TCAAACATACCAAT TCAAATCAA	60.0	902	INTERGENIC	--	--	--
Ca7_P1_16367661	Ca7	16367661	AT/AAATTATT	AATGCATTGTTCCCT ATCG	AACGACCCCACTTGAC ACTC	59.8	805	INTERGENIC	--	--	--
Ca7_P1_16367682	Ca7	16367682	TTAT/TTATAT	AATGCATTGTTCCCT ATCG	AACGACCCCACTTGAC ACTC	59.8	805	INTERGENIC	--	--	--
Ca7_P1_16405742	Ca7	16405742	ATTTTTTTTT/ATTTTTTTTT	TTGACTGCAATGCTTC GTTG	TGTAACGCCGGATTA AAAGATG	60.0	661	INTERGENIC	--	--	--
Ca7_P1_16414718	Ca7	16414718	TGTCATAAAAT/TGTCATAAAATATT ATAGTCAATAAAAT	GTGGTTCTTTTGTTC CGTT	GATAGCTGACGTTTGC GACA	60.0	607	INTRON	Ca_09848	--	--
Ca7_P1_16416487	Ca7	16416487	TACTGCGACTGCGAC/TACTGCGAC	TCTCTGCAACAAATTCA CAACA	GGCAAGGCAAGTCTCT CAAC	59.4	299	INTRON	Ca_09848	--	--
Ca7_P1_16429487	Ca7	16429487	TAAAAAAAA/AAAAAAAAA	TCAACGAAAATGGTGC AAAA	CCATTGTCGACCCCA TCAT	60.1	705	INTERGENIC	--	--	--
Ca7_P1_16453107	Ca7	16453107	CTATATATATATATATATATATAT /CTATATATATATATATATATATA TATATATAT	TTGGGTTCTGTTT CAAT	GCCGCATTCAAATC ACTT	60.2	259	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_1649022	Ca7	1649022	ATTTTT/ATTTT	CCTTAGTGATTGGAG GGCA	CGAGAAGGTCGTGAG GTAGC	60.1	564	INTERGENIC	--	--	--
Ca7_P1_16499894	Ca7	16499894	AACACACA/AACA	CGCGAGTAAACCGGT AAAA	CGGTGAATCCTTTACG GAGA	60.1	576	DRR	Ca_09845	R	--
Ca7_P1_16548666	Ca7	16548666	TG/T	TCCCTTCTACTTGGTG GTGG	GTGATTCATGCTCCAA GGCT	60.0	624	DRR	Ca_20555	R	--
Ca7_P1_16560646	Ca7	16560646	TAAAAAAAAAAAA/TAAAAAAAAA	ATTTTCGCATGAAGG AGTG	CGCAAAGGAGAAACG AGAAT	60.1	724	INTERGENIC	--	--	--
Ca7_P1_16610320	Ca7	16610320	TAAAAAA/TAAAAAA	CCACATCTCGTCTCCC TCAT	TTGCAGGTCATGTGGC TAAC	60.1	247	INTERGENIC	--	--	--
Ca7_P1_16639075	Ca7	16639075	ATTTATTTTATT/ATTTATTTTATTTAT T	TGCAATGTATGCTTA TTGCTT	CAAATGGGGGTATTT GGTG	59.8	869	INTERGENIC	--	--	--
Ca7_P1_16658501	Ca7	16658501	TAAAAAAAAAAAA/TAAAAAAAAA	ATGGTCATCATGAATC CGGT	CTCATCGAATTGTCTT GCCA	60.0	169	INTERGENIC	--	--	--
Ca7_P1_16712776	Ca7	16712776	CATATATATATATATATATATATATATA TA/CATATATATATATATATATATATAT ATATATATATATATA	TGGTTGGGTTGCCATA TTTT	GTCCAATGGGAGAGA GTGGA	60.1	624	DRR	Ca_20572	M	--
Ca7_P1_1686051	Ca7	1686051	ATTTTT/ATTTTTTT	TCAAACTTCACATTTG TGCG	CCTTTTATTTTGTGG GGGA	59.8	697	INTERGENIC	--	--	--
Ca7_P1_16941588	Ca7	16941588	TAAA/TAAAA	TGCCGTAGTATTCACC ACCA	TGCCATGAAATCTGTC CATA	60.0	852	INTERGENIC	--	--	--
Ca7_P1_17073394	Ca7	17073394	AATATATATATATATATATA/AATAT ATATATATATATATATATATATATA	TCCTTAGCCAAGAGC CAAA	GTGTGGGAACCTTGTT GCTT	60.0	726	INTERGENIC	--	--	--
Ca7_P1_17097230	Ca7	17097230	CTATATATATATATATATATATATATAT ATATATA/CTATATATATATATATATAT ATATATATATA	TCTACTCCCTCCCT CCAT	GAGCTGCCCTCAGAAA ACAC	59.9	726	INTRON	Ca_15872	E	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_17133790	Ca7	17133790	ATTTTTTT/ATTTTTT	GACACTACCGGCATC AAGT	CCAACCCAAATAATG AAAATCA	60.0	530	INTERGENIC	--	--	--
Ca7_P1_17139093	Ca7	17139093	GTATATATATATATATA/GTATATAT ATATATATATATA	AAAAAGCGCTGTTGTG TCCT	CCAAGTGAACAGTACG TGCC	59.9	517	INTERGENIC	--	--	--
Ca7_P1_17139267	Ca7	17139267	GATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATT/GATTATT ATTATTATTATTATTATTATTATTA TTATTATT	AAAAAGCGCTGTTGTG TCCT	CCAAGTGAACAGTACG TGCC	59.9	517	INTERGENIC	--	--	--
Ca7_P1_17172621	Ca7	17172621	AATCATAT/AATCATATCATAT	GGCTAAACCTTGCTTT TGCC	AGACTCTGCTTGACCG GAAA	58.8	541	INTERGENIC	--	--	--
Ca7_P1_17235839	Ca7	17235839	CTTTTTTTTT/CTTTTTTTTT	AACTGTCCCAACCACA TGAAG	TCACAAAGCCTAGGAA ATGATGT	59.9	610	INTERGENIC	--	--	--
Ca7_P1_17357820	Ca7	17357820	TTTTATTATTATTATTATTATTAT/TT TTATTATTATTATTATTAT	TGGATCTTATGTCAA CGCCT	TGAAATGCAAATAGAG CCCC	59.6	698	INTERGENIC	--	--	--
Ca7_P1_17374590	Ca7	17374590	CTTTTTTTTT/CTTTTTTTTT	GCATCTGTAAACAAG ACCCG	ACATCGATAAGAGGCA GCGT	59.6	525	INTERGENIC	--	--	--
Ca7_P1_17379346	Ca7	17379346	ATTTTTTTTTTTTTTTTT/ATTTTTTT TTTT	TTTACCCACCTCGT TTCA	TCGTCATCTACAGTAA AGAAATTGA	59.0	592	INTERGENIC	--	--	--
Ca7_P1_174353	Ca7	174353	TAAAAAAAAA/TAAAAAAAAA	ATTGCGCTTGATAGAC CGAC	CTTTATTCGGTTTGGC CTGA	60.2	333	INTERGENIC	--	--	--
Ca7_P1_1746463	Ca7	1746463	ATTTTTTTTT/ATTTTTTTTT	TCCTTCACGATATCCA AGGAC	GGGCAGGTTAAAGCC ACATA	59.0	463	INTERGENIC	--	--	--
Ca7_P1_17551081	Ca7	17551081	CATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTIA/ CATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTA TTATTATTATTA	CCTTCTTGTAGGCCC CATA	TCACCCCTACCTTCAA CAACAA	59.0	419	DRR	Ca_15852	S	--
Ca7_P1_17636431	Ca7	17636431	TAAAAAAAAA/TAAAAAAAAA	AATCATGCACACAAC ACTTTT	ATAGGCTCGTCGCCAA ATTA	57.2	433	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_1776003	Ca7	1776003	AAC TT/AAC TTACTT	ATGTCTAGCATGGTT CGCC	TGTTCCATTATTGA TTGTGC	60.1	646	INTERGENIC	--	--	--
Ca7_P1_17841305	Ca7	17841305	TG/T	TTTATGTCCATGTGCG TGCT	CCACGGTTAAATTGA TGTTGA	60.1	346	INTERGENIC	--	--	--
Ca7_P1_17869127	Ca7	17869127	AC/A	AGAGTTGACAATGCAA TGCG	CTGCATGTAGTTGCGC GT	59.9	476	DRR	Ca_15833	--	B3
Ca7_P1_17869711	Ca7	17869711	TTGT/TT	TGAAATTGGGGAATTA TTTTGC	GGAAGCGAGACAGTTT CAGG	60.0	550	DRR	Ca_15833	--	B3
Ca7_P1_17922655	Ca7	17922655	TGGGGGG/TGGGGG	AAGTCGAGTGCTTGAG CCAT	TCTTTGCGTGCGTGCT ATAC	60.0	606	DRR	Ca_15831	--	bHLH
Ca7_P1_17922910	Ca7	17922910	TTAATAATAATAATAATAATAATA TAATAAT/TTAATAATAATAATAATAAT AATAATAATAATAATAATAAT	ACCGACTCAATTGTT ACCC	TCTTTGCGTGCGTGCT ATAC	59.8	573	DRR	Ca_15831	--	bHLH
Ca7_P1_17973410	Ca7	17973410	TTATATATATATATATATATATATAT TTATATATATATATATATATATAT	TGGAATGGCTCGGAG ATTA	TCAACTGGACTCAAA CCCA	60.5	883	INTERGENIC	--	--	--
Ca7_P1_18007668	Ca7	18007668	CTTATTATTATTATTATTAT/CTTATTAT TATTATTAT	CTCGTGTTTCTCGGTG GTTT	AAGTCCATTGAAGTG CGCC	60.1	264	INTERGENIC	--	--	--
Ca7_P1_18007707	Ca7	18007707	GTTCTTCTTCTTCTTCT/GTTCTTCTTC TTCT	CTCGTGTTTCTCGGTG GTTT	AAGTCCATTGAAGTG CGCC	60.1	264	INTERGENIC	--	--	--
Ca7_P1_180428	Ca7	180428	T/TGAGGCAA	TCAACAGCAGCTTTGC ATTC	TTTCGCAGCTGGTATG TGAG	60.1	280	INTERGENIC	--	--	--
Ca7_P1_18055246	Ca7	18055246	CAAAAAAAAA/CAAAAAAAAAAAAA	TTGGGGTCAACTGAAA GTCC	TCTATACCCGGTTGA GTGC	59.9	707	INTERGENIC	--	--	--
Ca7_P1_1807047	Ca7	1807047	CAAAAAAAAA/CAAAAAAAAAAAAA	TGTTGTACACCAACT CTTGC	GCTTGGTCCCATTTGA GAGA	59.8	846	DRR	Ca_03288	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_1807643	Ca7	1807643	ATTATTTTTTTTTTTTTTTTTTTT /ATTATTTTTTTTTTTTTTTT	TCTCTCAATGGGACC AAGC	TCATGTTGCCGTACT CCAG	60.2	566	DRR	Ca_03288	--	--
Ca7_P1_18121209	Ca7	18121209	TAAAA/TAAAAA	TGAAAAGCAATCCCA ATGT	AATGGGCATTCTGTA TCGT	58.1	429	INTERGENIC	--	--	--
Ca7_P1_18153348	Ca7	18153348	CATATATATATATATATATAT/CA TATATATATATATATATATATAT	GATCGAAAGCGGGTTG TTTA	TATTTTCAAATGGTC CCGC	60.1	442	INTRON	Ca_22140	--	--
Ca7_P1_18162627	Ca7	18162627	AATTATTATTATTATTATTATTATT ATTATTATTATTATTATT/AAATTATT ATTATTATTATTATTATTATTATTA TTATTATTATTATTATT	AAGAGGCGGGAAATA CTGG	GTGGGGCTAATCCAAA CAAA	60.4	629	INTERGENIC	--	--	--
Ca7_P1_18198915	Ca7	18198915	A/ATT	TCAAGACGGGATTCTGA AGTAA	ACACTTCACTCAAT GGGC	59.7	649	DRR	Ca_22138	--	--
Ca7_P1_18234685	Ca7	18234685	ATTTTT/ATTTTT	CCAAAATTTCACTCTCT CACCC	TCAACTTCTGTTGCC ATGA	60.0	500	INTERGENIC	--	--	--
Ca7_P1_18333235	Ca7	18333235	A/ATTAT	GCAAGTGTGTTGTGG CACT	TTCAAGCACATAATGC AAGTCC	59.8	113	INTERGENIC	--	--	--
Ca7_P1_18347733	Ca7	18347733	TTCTCTCTCTCTCTCTCTCTCTC TCTCTCT/TTCTCTCTCTCTCTCTC TCTCTCTCTCTCT	CTCAACGACAACCTGC CAAA	TTTGATACCAATTGGA GGTGC	59.9	452	INTERGENIC	--	--	--
Ca7_P1_18356812	Ca7	18356812	TAAAAAAAAAAAAA/TAAAAAAAAA	TTCTCGATGTTGATT GACA	AATGCAATCAGACGCA AACA	60.0	497	INTERGENIC	--	--	--
Ca7_P1_18417161	Ca7	18417161	A/AG	TGGTGAAACTGCACCT CTGC	TCGGGGTGTTACACTT CACA	60.0	593	DRR	Ca_22130	--	--
Ca7_P1_18587623	Ca7	18587623	AAAGGCGGAAGGCGG/AAAGGCGG	CGATGATGACTGATTG GGGT	TGTTGTGTTTGGAGG CGTT	60.7	374	INTERGENIC	--	--	--
Ca7_P1_18587996	Ca7	18587996	CTTTTTTTT/CTTTTTTTT	GAGTGTACAAAGCGG AAGG	GGGTGTTACAAGGAGT CTTGG	59.7	865	INTERGENIC	--	--	--

[illegible]

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca7_P1_18918765	Ca7	18918765	TAA/TAAA	TGTTTGTGCAATTGAAT TATAGTTATG	CCCACATCAGCCAAAA AGAT	58.6	971	INTERGENIC	--	--	--
Ca7_P1_18928675	Ca7	18928675	TAAAAAAAAA/TAAAAAAAAA	AGCTCACAGAAAAACA CGGG	TGTCCCGTGCGATTTT TAAT	60.3	392	INTERGENIC	--	--	--
Ca7_P1_18945632	Ca7	18945632	GATATATATATATATATATATATA TATATAT/GATATATATATATATATA TATATATATATAT	TGTTCCACGAGTTTTT GTGAA	GGAAATTCGTCGACCT CAAA	59.2	697	DRR	Ca_12313	C	--
Ca7_P1_18965627	Ca7	18965627	GAAAAAAAAA/GAAAAAAAAA	TCGTGAAGACTCCCAT GTTG	CCGGTCCAAATTTCAA ATACA	59.7	776	INTERGENIC	--	--	--
Ca7_P1_19005671	Ca7	19005671	G/GTTGTGTTGT	CCATCCTCAAGCAAAA GGAA	TTTGAAAAGATGGAGG GACG	60.2	285	DRR	Ca_12315	--	--
Ca7_P1_19006852	Ca7	19006852	AATTATTATTATTATTATTATTATT/ AATTATTATTATTATTATTATTATT ATT	CGTGAGATTTTGAATC CGTG	GACCATTGAGTTCGCA TCAT	59.1	636	DRR	Ca_12315	--	--
Ca7_P1_19068713	Ca7	19068713	GAT/G	GTTCGACCTGTAGGTT GGGA	ACTCAGCAGCACGGAT CTCT	60.0	328	INTERGENIC	--	--	--
Ca7_P1_19077612	Ca7	19077612	C/CTTTCCTAATGTCTTAGT	ACTCGAGCCTTGAAG ATCA	GTTGGGAGACTTGTG CCCTA	60.0	861	INTERGENIC	--	--	--
Ca7_P1_19081902	Ca7	19081902	AATTTCATATTTCC/AATTTCC	CCCTCATTTGTGGCAA ACTT	ATGGTTGATCCTTTAT GGCG	60.0	438	INTERGENIC	--	--	--
Ca7_P1_19136562	Ca7	19136562	GAAAAAAAAA/GAAAAAAAAA	ATCTTTCCATCGCAAT CCAC	TGGCAGCACAAAGACA GAAC	59.9	517	INTERGENIC	--	--	--
Ca7_P1_1914860	Ca7	1914860	CTTTTTTT/CTTTTTTTTT	TTTTCATCAAACCCAAA GGC	TACTTTGGGGTAGCC AGTG	59.9	747	INTERGENIC	--	--	--
Ca7_P1_19175066	Ca7	19175066	ACC/ACCC	ATCAGCATGGTTAGCC CAAG	TGC GTTTGTGTCATTG GATT	60.1	571	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_1919879	Ca7	1919879	TTATATATATATATATAT/TTATATATATATATATATATAT	TGAATTTTGGGTCAA CCAT	ACACAGCCCCAAAAGT TGTC	60.0	435	DRR	Ca_03281	--	--
Ca7_P1_19246531	Ca7	19246531	CTTTACTATTTACTATTTACTATTTACT ATT/CTTTACTATTTACTATTTACTATT TACTATTTACTATT	AATTGCACTTAAAGGT GCGG	TGATCATTGGGAGACT GAAAGTT	60.1	567	INTERGENIC	--	--	--
Ca7_P1_19247496	Ca7	19247496	CAATAATAATAATAATAATAATAAT AATAATAATAATAATAATAATAATA ATA/CAATAATAATAATAATAATAA TAATAATAATAATAATAATAATAAT AATAATAATAATAATA	ACCGCGCAAATTAGAT TTCA	GGATCAATTTTGGTT GTCCA	60.6	394	INTERGENIC	--	--	--
Ca7_P1_19263882	Ca7	19263882	TTT/TTTATT	CCTTCTATCCAGCCAT CCAA	TTCCCCCTCCTTTTATT TAATTG	60.0	713	INTERGENIC	--	--	--
Ca7_P1_19273596	Ca7	19273596	TCATA/T	GGTGCTACAGTGTCGA AGCA	TAGCATGCCAATTTCT CAGC	60.1	583	INTERGENIC	--	--	--
Ca7_P1_19290384	Ca7	19290384	AAAA/AAAAATAAAA	GAAGCATTTATTTGCA GACGC	CTAGGCAACTGAACAT GGCA	59.9	247	INTERGENIC	--	--	--
Ca7_P1_19290788	Ca7	19290788	TTATATATATATATATA/TTATATATATA TATATATA	CTGCCATGTTCACTTG CCTA	TCAACTGGTGTGACG AGGA	59.9	475	INTERGENIC	--	--	--
Ca7_P1_19310476	Ca7	19310476	AATATATATATATATATATATATATA T/AATATATATATATATATATATATAT ATATAT	TGGTACACACAAAAAT ACCTGTG	CGTCTTTGTCTTTCTT CCATCA	57.6	813	INTERGENIC	--	--	--
Ca7_P1_19320452	Ca7	19320452	TAAAAA/TAAAAAA	AGAGAAGGGGTAAC GGGA	GGTTTGTGAGAGAGG TTGCC	60.1	454	INTERGENIC	--	--	--
Ca7_P1_19359942	Ca7	19359942	TA/TATGCCATTGA	ACGAGTGCGGGTATCA ATGT	GAGAAATGGAGGCAAT GGAA	60.4	456	INTERGENIC	--	--	--
Ca7_P1_19393876	Ca7	19393876	CAAAAAAAAAAAAA/CAAAAAAAAAAAAA	TGGCGAAAGCCATCTT AACT	TTAGTGGCGCATTTTA TCCC	59.8	385	DRR	Ca_12340	--	bHLH
Ca7_P1_19411816	Ca7	19411816	ACGACGCTCGACGCTC/ACGACGCTC	GGAACCATGATTTTCA CTCCA	CCGCAACTACCGATTC CTTA	59.8	697	DRR	Ca_12342	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_19438815	Ca7	19438815	T/TAGCAATTCCTTACC	GAAGCCGTAACAAAA TTCCA	TACAACCGTTTAGAA CCGC	59.1	212	INTERGENIC	--	--	--
Ca7_P1_19562455	Ca7	19562455	TAAAAAAAA/TAAAAAAAAA	CCTTTCGACTTGGTTT GGAT	TTATTCGACTCCACAC GCAC	59.0	432	INTERGENIC	--	--	--
Ca7_P1_1958048	Ca7	1958048	AATATATATATATATATATA/AATAT ATATATATATATATA	GACITCAAACCTTTACT TTTAACCCAA	AGAACCACAACCGAAA CCTG	59.5	579	INTERGENIC	--	--	--
Ca7_P1_19589201	Ca7	19589201	TTATATATATATATATATATAT/TTAT ATATATATATATATAT	GGTCGTCCAATAGTA CCCG	AGGAAGCCCAAGTTCC AAAT	59.3	828	INTERGENIC	--	--	--
Ca7_P1_19614333	Ca7	19614333	TTATATATATATATATA/TTATATATATA TATATATA	TCTGCTAAAGAGCTGG AGGG	CCAATTTGATACGCAC CCTT	59.7	176	INTERGENIC	--	--	--
Ca7_P1_19644529	Ca7	19644529	AATATATATATATATATAT/AATATATA TATATATATATAT	ATGTTTTGGATTTTGG CTCG	AGGAAGAGTGGAGTT GCGAA	59.9	521	INTERGENIC	--	--	--
Ca7_P1_19654428	Ca7	19654428	ACCCCCC/ACCCCCC	AAGTTGCACCCACCTT TTTG	TCACGAAATTGGTCCC CTTA	60.0	695	INTERGENIC	--	--	--
Ca7_P1_19680182	Ca7	19680182	GATATATATATATATA/GATATATATAT ATA	TCTGCAGTGCAACAAC CTTC	TTTCATGCACCACGAA AGAA	60.0	676	INTERGENIC	--	--	--
Ca7_P1_19680909	Ca7	19680909	TC/T	TCACGTGTCAAACCTT CATGT	AGGAGAACAGCACCTC CTGA	59.0	842	INTERGENIC	--	--	--
Ca7_P1_19690948	Ca7	19690948	AATATATATATATATATATAT/AATA TATATATATATATATATATAT	GCCCATATTTTGGCCA CTTT	TTTGGTTGGAGCATT AAGAGA	58.9	766	INTERGENIC	--	--	--
Ca7_P1_19731743	Ca7	19731743	ATTTTTTT/ATTTTTTTTTTT	TCAAAACCTCCAAACG AACC	TTTGCATAGGAGCAAA GCCT	59.9	628	INTERGENIC	--	--	--
Ca7_P1_19786385	Ca7	19786385	TATAAATA/TATA	AAATTAAGTTTCAAAC CACGG	TCAGCTCCACTCACAC CATC	57.3	679	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Anneling temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_19786465	Ca7	19786465	TACA/TA	AAATTAAGTTTCAAAC CACGG	TCAGCTCCACTCACAC CATC	57.3	679	INTERGENIC	--	--	--
Ca7_P1_19805269	Ca7	19805269	AATATATATATATATATATATATATA TATATATATATA/AATATATATATATAT ATATATATATATATATATATATATA A	GTTTTCCTCTCTCTTT GCAC	CAAAAAGACGGAACG AACA	59.9	784	INTERGENIC	--	--	--
Ca7_P1_19829237	Ca7	19829237	TTATATATATATATA/TTATATATATATA TATATATATATATA	TAGCAAGCGCTGTAA AGGG	GGATGAAACAAATTG CCGA	60.5	699	INTERGENIC	--	--	--
Ca7_P1_19831369	Ca7	19831369	ACTCTCTCTCTCTCTCTCTCTCTCTCT CTCTCTC/ACTCTCTCTCTCTCTCTCT CTCTCTCTCTCTCTCTCTCTCTC	AACCCATTCCCTCCTT TCAC	TCCTCATCATCAGGTC CTCC	60.2	351	INTERGENIC	--	--	--
Ca7_P1_19857139	Ca7	19857139	AAATAATAATAATAATAATAATAAT AATAATAA/AAATAATAATAATAAT AATAATAATAATAATAATAA	CCATATGTCATAGTGC GGTCA	AGAGGCAACAAGAAC CGAA	59.4	314	INTERGENIC	--	--	--
Ca7_P1_19860378	Ca7	19860378	GT/G	CCTCAATATGTTGGGA CATGC	TGATTCCTAGGGAGG GTGTC	60.2	464	INTERGENIC	--	--	--
Ca7_P1_19965866	Ca7	19965866	A/AC	CTCACGGTTGTGAGGA CTGA	TTTGCTTTGATCTAGG CGGT	59.9	566	INTERGENIC	--	--	--
Ca7_P1_19968336	Ca7	19968336	TG/TGCGTAGGG	TCAAATTTGGAGTTGC GGAG	CCCAATACCCTAAACC CTAACC	60.0	405	INTERGENIC	--	--	--
Ca7_P1_19977838	Ca7	19977838	TG/TGG	ACCCAATTACTGGAGA TGCG	AGGAAGAGTGGAGTT GCGAA	60.0	693	INTERGENIC	--	--	--
Ca7_P1_19992957	Ca7	19992957	GGGCCCAAAAATAACAATCGGCCCAA A/GGGCCCAAA	TTAGGGTTGACAGTG GGTC	GGCCCAATAACTGTTC CAAA	59.8	185	INTERGENIC	--	--	--
Ca7_P1_20032669	Ca7	20032669	TAAAAAA/TAAAAATAAAATAAAAAA A	AGTGCCCATCCAACT GAAC	TGAAGGAATGCAAGGA AACC	60.0	568	INTERGENIC	--	--	--
Ca7_P1_20036621	Ca7	20036621	T/TC	TTTGAAAGAGGGCAT TTTG	TTGTGTCTTCCCTTC CATC	60.0	337	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_20060914	Ca7	20060914	AATATATATATATATATAT/AATATA TATATATATATATATAT	ATATTGGCTCGGAGGC TTTT	GTTGGTTCCTAGCAC CGTA	60.1	640	INTERGENIC	--	--	--
Ca7_P1_20079503	Ca7	20079503	TTAAAGCCA/TTAAAGCCATAAGCCA	GGGGAGGAATTTGTTG GAAT	GGTCATTGATGGGAGA CATGA	60.0	674	INTERGENIC	--	--	--
Ca7_P1_201308	Ca7	201308	GAAAAAAAAA/GAAAAAAAAA	ATGGGGGACTACTTTC ACGA	AGTCGGATGCAGGAC AAAAC	59.4	729	INTERGENIC	--	--	--
Ca7_P1_20179558	Ca7	20179558	GTATTACATTATTA/GTATTA	AAGCACTTTTGGTCCT TCTTTT	GTGGGTTGCGCTAATC CTAA	59.7	695	INTERGENIC	--	--	--
Ca7_P1_20217805	Ca7	20217805	TAT/TATATATTAAT	GCTTTGTGGAGGAAT GGAA	CGATGAGATCGACCC GTACT	60.1	558	INTERGENIC	--	--	--
Ca7_P1_20237932	Ca7	20237932	TAAAAAAAAA/TAAAAAAAAA	GCATATTGGAGATGTG TTTTGC	CACAACCGCCACTGTC TCTA	59.5	539	INTERGENIC	--	--	--
Ca7_P1_20238379	Ca7	20238379	AATATATATATATATATATATATA TATATAT/AATATATATATATATATAT ATATATATAT	TAGAGACAGTGGCGGT TGTG	TCGATTTCCCAATCGA TTTTA	59.9	852	INTERGENIC	--	--	--
Ca7_P1_20252580	Ca7	20252580	GTAGAATA/GTAGAATAGAATA	ACCTGTCAGCTAAGAG CCCA	CACATGTGTGAACCTC CTGG	60.0	641	DRR	Ca_12383	--	--
Ca7_P1_20298184	Ca7	20298184	ANNNNNNNNN/ANNNNNNNN	CTCGAGGGGCGTAAAT CATA	AATGAGCTCCAACGGT CATC	60.1	559	INTERGENIC	--	--	--
Ca7_P1_20323683	Ca7	20323683	CTATATATATATATATATATATAT ATAT/CTATATATATATATATATATA TATATATATATATAT	TAATTGAGGCCCAAA ACAG	GGGTGATTGATTGGG AATGA	59.9	726	INTERGENIC	--	--	--
Ca7_P1_20327182	Ca7	20327182	GATATATATATATATATATATATA TATATA/GATATATATATATATATAT ATATATATATA	ACCATTCCACTTTTGG CTTG	GCCATGAGGACCATG CTTAT	60.0	555	INTERGENIC	--	--	--
Ca7_P1_20332113	Ca7	20332113	ATTCTTCTTCTTCTTCTT/ATTCTT CTTCTTCTTCTTCTTCTTCTT	TGCAGATTTTCCCGA TTAG	ATCACATTTACGAGGC ACCC	60.0	355	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_20343080	Ca7	20343080	TATAATAATAATAATAATAATAATA ATAATAATAATAATAAT/TATAATA ATAATAATAATAATAATAATAATAA TAATAAT	CTTCCTGAAACTCCAC GAGC	CAGATGATCCTGCAGT GTGG	60.0	907	DRR	Ca_12389	R	MYB_related
Ca7_P1_20359301	Ca7	20359301	AGG/AG	AACCAGAGGTCACACC AAGG	CTCCTGCATAATCGCT GTCA	60.0	916	INTERGENIC	--	--	--
Ca7_P1_20411940	Ca7	20411940	CTTTTT/CTTTT	GATCTTATGTGGGTG TTGGAA	CCCATTGATGCTCC TGCT	58.8	696	INTERGENIC	--	--	--
Ca7_P1_20432444	Ca7	20432444	CTCATCATCATCATCATCATCATC ATCATCAT/CTCATCATCATCATCATC ATCATCATCATCATCATCAT	ACGTCCCTCCTTGTC TTTT	GCGTGAAGTGAAGTTG CGTA	60.0	395	INTERGENIC	--	--	--
Ca7_P1_20435365	Ca7	20435365	CTGT/C	AAAAGCAAACATTATG GGCG	CAGACGCATCAACTGG AAAA	60.0	183	INTERGENIC	--	--	--
Ca7_P1_20449946	Ca7	20449946	T/TA	CTTTCAGGTGCGTTT GTTA	TCAGACACGTCGAC AATTC	59.9	799	INTERGENIC	--	--	--
Ca7_P1_20450673	Ca7	20450673	GTCT/GTCTTCT	TTGATCATGTCGAAA CCATT	AAGCGGGGACACATG TTATT	60.2	459	INTERGENIC	--	--	--
Ca7_P1_20451371	Ca7	20451371	TAAAAAAAA/TAAAAAAAAA	TTGGTGACCCAAAAG TAAA	TATTGCAGGGGAAACA GAGG	59.1	552	INTERGENIC	--	--	--
Ca7_P1_20456133	Ca7	20456133	AG/A	TGTGGACGAGAAGACT GACG	CCATAGCAAAGAGGGT GGAA	60.0	718	INTRON	Ca_12396	T	S1Fa-like
Ca7_P1_2047396	Ca7	2047396	TTATATATATATATATATATATAT/TT ATATATATATATATATATATATATAT	ATGGGACTAGGCAACA CGTC	TTTCAACCGTAAATCA TACTTGG	60.0	630	DRR	Ca_03268	GC	HSF
Ca7_P1_20477133	Ca7	20477133	AC/A	AGGAAGGCGAGGATT GAGAT	ATGGGGAGAAACA GCAAC	60.0	597	INTRON	Ca_12398	AR	--
Ca7_P1_20479011	Ca7	20479011	ATGT/AT	TGGCTCTCAAAAGAC AAAGA	TTGGGTCAATAGGGTT TAGGG	60.0	695	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_20480020	Ca7	20480020	AATTATAAAATTATTATAAAATTATTAT AAAATTATT/AATTATAAAATTATTATA AAATTATTATAAAATTATTATAAAATTA TT	TTAAACAGACCCCG AATG	TCATTACTACCATAA GCGGAA	59.8	577	INTERGENIC	--	--	--
Ca7_P1_20484517	Ca7	20484517	TAAAAAAAAA/TAAAAAAAAA	TTCCAACGCTGCTCA AATG	ATGCAAGGGCATGAAT TTTT	59.8	813	INTERGENIC	--	--	--
Ca7_P1_20484730	Ca7	20484730	AATATATATATATATA/AATATATAT ATATA	CCAAATGCATTGATCC GATA	ATGCAAGGGCATGAAT TTTT	59.3	620	INTERGENIC	--	--	--
Ca7_P1_20485643	Ca7	20485643	ATTTTTTTTT/ATTTTTTTTT	GGCTAAATTACATTTGT GGTCCC	TTGTTGATTTGTGTC GTAGAGCA	60.8	621	INTERGENIC	--	--	--
Ca7_P1_20488727	Ca7	20488727	TC/T	CAACATGGTGTCTT GTGC	ATTGCCCCATGTTTCA AGAG	60.0	731	CDS (FRAME SHIFT)	Ca_12399	T	M-type
Ca7_P1_20494326	Ca7	20494326	CA/CATCGA	AGACGTGTCGATCGAG CTTT	AGCTGAATGCAACCC TTGA	60.0	497	DRR	Ca_12400	--	AP2
Ca7_P1_20495725	Ca7	20495725	CACAACAACAAC/CACAACAAC	TCCCATTAATTTGTAG CGTGTT	GTATGATTGAATGCG GCTT	59.8	843	DRR	Ca_12400	--	AP2
Ca7_P1_20497715	Ca7	20497715	CAAAAAAAAA/CAAAAAAAAA	TGTTTCACACCAACCA CGTT	CGTAGCAGCTATAAAG GGCG	59.9	606	INTRON	Ca_12400	--	AP2
Ca7_P1_20498062	Ca7	20498062	CCTCTCT/CCTCT	CGCCCTTTATAGCTGC TACG	CTGCGTTTGACCACAT CATC	60.0	523	INTRON	Ca_12400	--	AP2
Ca7_P1_20500623	Ca7	20500623	ATTTTTTTTT/ATTTTTTTTT	GTTGACGAAATGCACA CACC	TTCCACAGACCCAAA AGTC	60.0	648	INTERGENIC	--	--	--
Ca7_P1_20501449	Ca7	20501449	AA/AAATA	TAATGCACCTCCGTG TCAA	GACTCCTTCGGTATCC TTGG	60.1	245	INTERGENIC	--	--	--
Ca7_P1_20501733	Ca7	20501733	TGTATGTAGTA	TAATGCACCTCCGTG TCAA	TTATAGGAAAAAGAAC GAAGGAAA	60.1	636	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_20502385	Ca7	20502385	TAAA/TAAAA	TTCCGATTTACTTCCTC TAAAATGA	GCTTCCTCCTATTCAT GCGT	59.6	456	INTERGENIC	--	--	--
Ca7_P1_20502470	Ca7	20502470	CAAAAA/CAAAAAA	TTCCGATTTACTTCCTC TAAAATGA	GCTTCCTCCTATTCAT GCGT	59.6	456	INTERGENIC	--	--	--
Ca7_P1_20503526	Ca7	20503526	T/TCAC	TTGAAGTTTTTTGGGA ATATGG	ATGAAGGAGTGAGC GAGAA	60.0	141	INTERGENIC	--	--	--
Ca7_P1_20503738	Ca7	20503738	GTTTTTTT/GTTTTTT	TTCTCGCTCCACTCCT TCAT	CGAAACTAAAAGAGGG AGGCT	60.0	571	INTERGENIC	--	--	--
Ca7_P1_20503865	Ca7	20503865	A/AT	TTCTCGCTCCACTCCT TCAT	CGAAACTAAAAGAGGG AGGCT	60.0	571	INTERGENIC	--	--	--
Ca7_P1_20505258	Ca7	20505258	TAGAGAGAGA/TAGAGAGA	CGACAACATCCAAC ATGG	TTTTTCAGAATTTTCCA TGCC	59.8	438	INTERGENIC	--	--	--
Ca7_P1_20505830	Ca7	20505830	TAAAAAAA/TAAAAAAA	GGCATGGAAAATTCTG AAAAA	AAGAAAGCGACAAGA GAATTG	59.0	732	INTERGENIC	--	--	--
Ca7_P1_20505889	Ca7	20505889	ATA/ATAGAAATTA	GGCATGGAAAATTCTG AAAAA	TTCATTTCTCGATTGA GGGC	59.0	803	INTERGENIC	--	--	--
Ca7_P1_20505916	Ca7	20505916	GGA/G	GGCATGGAAAATTCTG AAAAA	TTCATTTCTCGATTGA GGGC	59.0	803	INTERGENIC	--	--	--
Ca7_P1_20508181	Ca7	20508181	TTATT/TTATTATATT	TCAAAGCAGTCGTTT TTGG	AAGTTGTCCCTCCAG CTTT	59.0	558	INTERGENIC	--	--	--
Ca7_P1_20509106	Ca7	20509106	ATACTAA/ATAA	TTTCCGAGCAACAAA ACCT	TCGCAATTGGTGATGA GTTT	59.7	516	INTERGENIC	--	--	--
Ca7_P1_20510048	Ca7	20510048	CTT/CTTCTGATTT	GAACAATGCAAGAGCC ACAA	AATGCACTGGCTTCTC GTTT	59.8	575	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_20510109	Ca7	20510109	ATTTT/ATTT	GAACAATGCAAGAGCC ACAA	AATGCACTGGCTTCTC GTTT	59.8	575	INTERGENIC	--	--	--
Ca7_P1_20510166	Ca7	20510166	C/CT	GAACAATGCAAGAGCC ACAA	AATGCACTGGCTTCTC GTTT	59.8	575	INTERGENIC	--	--	--
Ca7_P1_20510218	Ca7	20510218	GTAAT/GTAATAAT	TTGAACAATGCAAGAG CCAC	CTGCTCATGTTTCCCG TTTT	59.8	933	INTERGENIC	--	--	--
Ca7_P1_20510427	Ca7	20510427	TTT/TTTATTAGTGATTAAATT	TGCATTGCTCCCTAGA CACA	GGCACTGCTTTATGCA CTCA	60.4	503	INTERGENIC	--	--	--
Ca7_P1_20516894	Ca7	20516894	TAAAAAAAA/TAAAAAAAA	CCCACTGACAGGTTTC AGGT	GCCTTGCGTTTCAAT TCAC	60.0	486	INTERGENIC	--	--	--
Ca7_P1_20517142	Ca7	20517142	ATTTTTTT/ATTTTTTTT	CCCACTGACAGGTTTC AGGT	ACGGTTTGTTGGGTCA GTTC	60.0	579	INTERGENIC	--	--	--
Ca7_P1_20517567	Ca7	20517567	GAAAAAAAA/GAAAAAAAA	GAACTGACCCAACAA CCGT	ACCACCTCGAAATGGA CATC	59.9	277	INTERGENIC	--	--	--
Ca7_P1_20518259	Ca7	20518259	CTATTATTATTATTATTATTAT/CT ATTATTATTATTATTATTAT	TGCAAAGCAGCTCTTG TACG	CAGTTTACCCACCTAG CCCA	60.3	588	INTERGENIC	--	--	--
Ca7_P1_20518314	Ca7	20518314	TTATATATATATA/TTATATATATATA TATA	TGCAAAGCAGCTCTTG TACG	CAGTTTACCCACCTAG CCCA	60.3	588	INTERGENIC	--	--	--
Ca7_P1_20530900	Ca7	20530900	AACG/AACGACG	GCAAACTCCTAGTTGC TGAGG	CGAGTGTCACATAGAT GGCAA	59.1	890	INTERGENIC	--	--	--
Ca7_P1_20532551	Ca7	20532551	TAAAAAA/TAAAAA	GGTGATGATGCACAAG ATGG	TGTGTTTTTGCTTCGG TTCA	59.9	607	INTRON	Ca_12402	--	--
Ca7_P1_20538907	Ca7	20538907	TAACCAA/TAA	GGCCATTGGATCTAGC AAAA	GCCATTCATCAAGGAA GGAA	60.0	635	DRR	Ca_12404	F	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_20539011	Ca7	20539011	CAA/CA	GGCCATTGGATCTAGC AAAA	GCCATTCATCAAGGAA GGAA	60.0	635	DRR	Ca_12404	F	--
Ca7_P1_20539386	Ca7	20539386	CAAAAAAAAA/CAAAAAAAAA	TTCCTTCCTTGATGAAT GGC	GTAAGTCACCGACAAG GGGA	60.0	335	DRR	Ca_12403	--	C2H2
Ca7_P1_20554410	Ca7	20554410	AA/AACCTA	CATCTGACCTGGACTT CGGT	TTTTCTGAAGGGTTGT TGCC	60.1	682	INTRON	Ca_12405	K	--
Ca7_P1_20554820	Ca7	20554820	AGGGGG/AGGGGGG	GGCAACAACCCCTTCAG AAAA	GCAGCAGGAGCAGAG TAAAG	60.1	261	INTRON	Ca_12405	K	--
Ca7_P1_20556895	Ca7	20556895	TCACAC/TCAC	TACTTTGCCGCCTCTG CTAT	CAAACGCGCAGATCAG TAAA	60.0	589	DRR	Ca_12405	K	--
Ca7_P1_20560193	Ca7	20560193	CAAAAAAAAA/CAAAAAAAAA	TGCATTGAAATTTGCA GGA	TCAACCCCAATACACC CCTA	60.2	602	DRR	Ca_12406	--	M-type
Ca7_P1_20566181	Ca7	20566181	CATATATA/CATATA	ATTGTTCCAGCTTTGC CAGT	CATTCAAATGTTTGCA ACAACC	59.7	188	INTERGENIC	--	--	--
Ca7_P1_20566222	Ca7	20566222	T/TC	ATTGTTCCAGCTTTGC CAGT	CATTCAAATGTTTGCA ACAACC	59.7	188	INTERGENIC	--	--	--
Ca7_P1_20570412	Ca7	20570412	AG/A	TTTCGTCTTCCCTTTG GATG	TTGCGCATGACGATAT CAAT	60.0	757	DRR	Ca_12407	--	--
Ca7_P1_20571253	Ca7	20571253	A/AG	TCCCAATAATGAGG GCAA	ACAGACGGCGAAAATT GTTT	60.3	381	DRR	Ca_12407	--	--
Ca7_P1_20573093	Ca7	20573093	GCAAGACAA/GCAAGACAAGACAA	AATGCAAGCAACCAAA AACC	ATAGACCTGGCTGCAA GGAA	60.0	617	INTRON	Ca_12407	--	--
Ca7_P1_20575234	Ca7	20575234	TTTTTTTCTTTTT/TTTTTTCTTTTTT TTTTT	TATTATGCACCGTCAC GCAT	ACCGAGACAAGAGTGA TGCC	60.0	855	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_20576956	Ca7	20576956	GTTTTTTTTT/GTTTTTTTTT	AGCGTCTACATCAACG GCTT	CGTGTGCATTAAACGG ACCT	59.9	415	INTERGENIC	--	--	--
Ca7_P1_20578627	Ca7	20578627	CTTTTATTTTTATTTTTATTTTTAT/CT TTTTATTTTTATTTTTAT	TTGCTGAAATCGACTT GGTG	CGTTGGGTTTTGCTC AAGT	59.8	645	DRR	Ca_12408	R	HD-ZIP
Ca7_P1_20594895	Ca7	20594895	GTTTTTT/GTTTTTTT	TGGGCCTACAGACCCA CTAA	TTACAGCTTAAAGTTGT GGACGA	60.5	623	INTERGENIC	--	--	--
Ca7_P1_20596404	Ca7	20596404	CATATATAT/CATATATATAT	CCTTTCACCTTCTTCAC CCA	GGTGAAATAAACACC CCCTT	60.1	480	INTERGENIC	--	--	--
Ca7_P1_20600329	Ca7	20600329	GAAAAAAAA/GAAAAAAAA	TGGTGCAAGTAAGA ATGGAA	GTCCCCATAAACATT CACG	59.7	579	DRR	Ca_12410	--	bHLH
Ca7_P1_20600846	Ca7	20600846	T/TC	CGTGAATGTTTATGGG GGAC	TTTTTCAGCAATTGGC AACA	60.1	544	DRR	Ca_12410	--	bHLH
Ca7_P1_20601008	Ca7	20601008	TT/TTGCTGT	ATTTTCCGTTTCATTCC ACA	AAGCTCAGGTTCTGTC AAAA	60.2	797	DRR	Ca_12410	--	bHLH
Ca7_P1_20601074	Ca7	20601074	C/CG	ATTTTCCGTTTCATTCC ACA	AAGCTCAGGTTCTGTC AAAA	60.2	797	DRR	Ca_12410	--	bHLH
Ca7_P1_20604250	Ca7	20604250	CTAATATAATAATA/CTAATATAATA TAATATAATA	ACCATTTCCTTCG ATTT	TGCTTTGTTCAATTGC TTGC	59.6	589	DRR	Ca_12412	YU	--
Ca7_P1_20609902	Ca7	20609902	AAACATCGAC/A	AAACCTGACCATGAAG TCGG	ACAGGCCTAGATGGA GCAGA	60.0	248	CDS (large-effect mutations)	Ca_12413	--	--
Ca7_P1_20612347	Ca7	20612347	CGCT/C	TTTTCCTGGCTAATGG CATC	TCTCGCCTCTCACAAG GTTT	60.0	656	INTRON	Ca_12414	--	MIKC
Ca7_P1_20616907	Ca7	20616907	ATTTTTTT/ATTTTTTTT	GCCACTCGATGTTAG TGGT	TGGTAAATAGTCCCTC TACACCG	60.0	544	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_20617780	Ca7	20617780	C/CAAT	GGCGAGGGATGGAATT TTAG	GAATTGGGACTTCTGC CGTA	60.8	777	INTERGENIC	--	--	--
Ca7_P1_20617963	Ca7	20617963	ATTTTTTT/ATTTTTT	TCAATTTGAATGTCAAA CACACA	GAATTGGGACTTCTGC CGTA	59.0	393	INTERGENIC	--	--	--
Ca7_P1_20619304	Ca7	20619304	TAAAAAAAA/TAAAAAAAA	TGATTCTAGCGGAAGC AAAGA	TGAGAGAACTCTAAA GTCAGAAGGA	60.1	723	INTERGENIC	--	--	--
Ca7_P1_20623367	Ca7	20623367	ATGTCTAAGGTGTC/ATGTC	CTTTGAAAATGGCCAC ATGA	ATTTAGATGACCGTCG CACC	59.5	486	INTERGENIC	--	--	--
Ca7_P1_20623409	Ca7	20623409	TAACAA/TAA	AGGTGTCGAAGGATCA CCAC	CTCGAGGAGACGAGA AATGC	60.0	212	INTERGENIC	--	--	--
Ca7_P1_20630438	Ca7	20630438	TAAAA/TAA	ATCAGGCTGGTTGAT TTGG	TAACAAGTGGCACA ACGA	59.9	650	INTERGENIC	--	--	--
Ca7_P1_20646757	Ca7	20646757	GTTTTTTT/GTTTTTT	TCGGTCATTCTCTCC ATCA	TCTCCCCGATTGTC TTTT	59.2	741	INTRON	Ca_12416	K	MIKC
Ca7_P1_20934834	Ca7	20934834	TAAAAAAAA/TAAAAA	CCAAATTGGGTCAATA ACGC	GTGACCGGACCTATT GCAT	60.2	951	INTERGENIC	--	--	--
Ca7_P1_20945653	Ca7	20945653	GAAAAAAAA/GAAAAAAAAA	TGACTCGCATCTTGAA GTCG	TCCCCCTTGTCTCT TGTG	60.1	669	DRR	Ca_14487	--	--
Ca7_P1_20969765	Ca7	20969765	CTT/CT	TGAGTAATTGCCGCTC AGTG	TTGTCCACCATATCG ACCTC	60.0	103	INTERGENIC	--	--	--
Ca7_P1_20993752	Ca7	20993752	CAAAAAAAAA/CAAAAAAAAAA	AAACAGCTTGACAACC CCAG	CGGTCCAACACTATGT TCCC	60.1	739	INTERGENIC	--	--	--
Ca7_P1_21099731	Ca7	21099731	T/TGCGCAA	GAGAAATCAAAATTGC CCCA	AGTGCCTCCTGTTCT GAGA	59.9	500	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_21115383	Ca7	21115383	TAAAAAAAAA/TAAAAAAAAA	CATCACTGAGGTTTG GCTG	CATCCATCACCTGTCA ATGC	59.3	386	INTERGENIC	--	--	--
Ca7_P1_21130339	Ca7	21130339	AAGAGAGAGAGAGAGAGAGAGAG A/AAGAGAGAGAGAGAGAGAGAGA	CACCGATGGGCTGATA TTTT	TCTCCCCCTTTTGAT GATG	59.8	430	INTERGENIC	--	--	--
Ca7_P1_21171384	Ca7	21171384	ATTTTTTT/ATTTTTTTTT	GTTGCGCGTTTATGT CGTT	TGTGGCTGTAAACCTG CAAA	60.0	581	INTERGENIC	--	--	--
Ca7_P1_21182517	Ca7	21182517	GTTTTTTTTTTT/GTTTTTTTTTTTT	AACCGAGACCTAGCA GTTG	AGAAGCTTGAGTAACA TTGCCA	59.4	628	INTERGENIC	--	--	--
Ca7_P1_21184582	Ca7	21184582	TTATATATATATATATATA/TTATATATA TATATATATATA	GGTGGGAACCTGCTGG TAAAA	AACTGCATCCTGTGCT CCTT	60.0	592	INTERGENIC	--	--	--
Ca7_P1_21213067	Ca7	21213067	TAAAAA/TAAAA	AGGCATAAGCAAGGCA GAGA	GGCTGTGAAAAACCA AACG	60.1	366	INTERGENIC	--	--	--
Ca7_P1_21264483	Ca7	21264483	A/ATTCAT	AATGTGCCACAAACAA AACG	AGTTGGCTTTGTACC CCCT	59.5	572	INTERGENIC	--	--	--
Ca7_P1_21264825	Ca7	21264825	TTATATATATATATATATATATA/TTA TATATATATATATATATATATATATA TATA	GTCATTTGGAATGGCG ACTT	TTGTCCCAATGTTACA GCCA	59.9	489	INTERGENIC	--	--	--
Ca7_P1_2133669	Ca7	2133669	CTTTTTTT/CTTTTTTTTT	CCTTTCTTCCAATTTTC TCTCC	AAAAGACCGAGCATAA AGCG	58.4	231	INTERGENIC	--	--	--
Ca7_P1_21359433	Ca7	21359433	TTATATATATATATATATATATATA/T ATATATATATATATATA	GGCAATTGTGTGAGCA AGAA	CGGAACGTAACACTGA GTCG	59.8	793	INTERGENIC	--	--	--
Ca7_P1_21392331	Ca7	21392331	AATATATATATATATATATATATA TATATATAT	CCATGTCAATCTTACG GGCT	GGCAAGGTACAATGGT CCAA	60.0	608	INTERGENIC	--	--	--
Ca7_P1_21461251	Ca7	21461251	AATATATATATATATATATATATATA TATATA/AATATATATATATATATATAT ATATATATATATATATATA	ACGAAGCCACCAATGA AAAC	CAAGTGGTGATGTCG ATTG	60.0	809	DRR	Ca_14505	E	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_21598915	Ca7	21598915	TTATATATATATATAT/TTATATAT ATATAT	TTTCATGGTTCGATC ACAT	AACCCCATGTGTGAAA TGCT	59.9	242	INTERGENIC	--	--	--
Ca7_P1_21670841	Ca7	21670841	A/AAGAT	TGACAAATCTTTGCAA CCCA	ATTGCTCATTTTCATGC CCTC	60.1	217	INTERGENIC	--	--	--
Ca7_P1_21675094	Ca7	21675094	AAA/AAACAA	TTCCCTCTTGATCAC AACC	CAACCTCTTCACGCAT CAAA	59.9	644	INTERGENIC	--	--	--
Ca7_P1_21675444	Ca7	21675444	AAAATAA/AAA	TTTGATGCGTGAAGAG GTTG	TGGACTGTGACTGCAC CATT	59.8	510	INTERGENIC	--	--	--
Ca7_P1_21678336	Ca7	21678336	CATATATATATATATATA/CATATAT ATATATATATATATATA	TCTCTTTATCATTGCGT TTGC	ATAACCGTGCCAATAG GTGG	58.1	489	INTERGENIC	--	--	--
Ca7_P1_2168224	Ca7	2168224	CATA/CATATA	TTCTGAGATTGGCAA AGGG	CGCGATCGTTCACTGA TATG	60.2	820	INTRON	Ca_03253	P	--
Ca7_P1_21685577	Ca7	21685577	TT/TTAT	TTTATAAATTGGCCCC ATCG	TAGGGGGACCAAGAA ACTGG	59.6	501	INTERGENIC	--	--	--
Ca7_P1_21688548	Ca7	21688548	TTTATTATTATTATTATTATTATTA TTATTATTATTATTATTATT/TTTATTAT TATTATTATTATTATTATTATTATT ATT	GCAATCCAATGCGT GTAA	TGAACTTTTAAGACCC CACTAACC	59.7	189	INTERGENIC	--	--	--
Ca7_P1_2169830	Ca7	2169830	AAT/A	CAGGGCCTTACTGCTA CAGG	CAACGGAAACATCGT TCAA	59.9	397	CDS (FRAME SHIFT)	Ca_03253	P	--
Ca7_P1_2169903	Ca7	2169903	T/TA	CAGGGCCTTACTGCTA CAGG	CAACGGAAACATCGT TCAA	59.9	397	INTRON	Ca_03253	P	--
Ca7_P1_21728387	Ca7	21728387	CAAAA/CAAA	ATCTCTGCGCAATATC GCTT	AGCCGACTTTTCCTAC CACA	60.0	674	INTERGENIC	--	--	--
Ca7_P1_21729097	Ca7	21729097	TAAAAA/TAAAA	TGCTCAAAAGGGAAG AAAA	GCCACGTGGTTGAAA GAAGT	59.8	240	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_21729303	Ca7	21729303	T/TC	TTGCTCAAAAGGGAA GAAA	TTGTTATTTCTTTATG CCGTTG	59.8	426	INTERGENIC	--	--	--
Ca7_P1_21743270	Ca7	21743270	CAA/CA	TTGCCCTCTAAATTCT TGG	TCCCTCGTATTAGCC CTCA	59.2	686	DRR	Ca_14521	--	--
Ca7_P1_21743627	Ca7	21743627	ATTTTTTT/ATTTTTTTT	TGAGGGCTAAATACGA GGGA	GGGATTGAGCGCCTAT ACAA	59.7	461	DRR	Ca_14521	--	--
Ca7_P1_21743947	Ca7	21743947	AA/AAATA	CCTGGTGTGCATTGAA AAGA	AATTGCGGTTTTGGTT CAAG	59.7	410	DRR	Ca_14521	--	--
Ca7_P1_21745626	Ca7	21745626	TTTTATATTTAT/TTTTAT	ATAGGGCCCATTTTAC AGCG	CCAGTTGCCCTGTCCA TACT	61.2	455	INTRON	Ca_14522	O	MYB
Ca7_P1_21772693	Ca7	21772693	AATATATATATATATATATA/AAT ATATATATATATATATATATA	CAACATGTCCTCATG TCCA	TGATGGCTTGTGTCAT TGGT	57.9	720	INTERGENIC	--	--	--
Ca7_P1_21801971	Ca7	21801971	GTTTTATTTATTTATTTTATTTATT TTATTTATTTTATTTA/GTTTTATTTT ATTTTATTTATTTTATTTTATTTATT TTA	GCTTCATTTGGAGCTT TTGC	TTGGGGATTCCATT GAGA	60.0	675	INTERGENIC	--	--	--
Ca7_P1_21838175	Ca7	21838175	TAAT/TAATAAAT	CCCTGCCTCAATTGTT TTGT	AGCATATATTGTTCCC GCGT	60.0	300	INTERGENIC	--	--	--
Ca7_P1_21905075	Ca7	21905075	TTTATTAATGTATTACTATTATTAATGT ATTACTATTATTAATGTATTA/TTTATT AATGTATTACTATTATTAATGTATTA	TTCAAAACAATCTCACC ACACC	TCTCCATGGGAGAACG ACTT	59.9	468	INTERGENIC	--	--	--
Ca7_P1_21924455	Ca7	21924455	CATAT/CAT	AGCTGAAAAAGCCCTC ACAA	AACCTGATGCCGAGTA GCGT	60.0	423	DRR	Ca_14533	--	--
Ca7_P1_21951688	Ca7	21951688	TTTAGGGATTAGGG/TTTAGGGATTA GGGATTAGGG	AACGGAGTGGCAGTTA ATGG	ACCCTAACCCAAACCC AAAC	60.0	529	INTERGENIC	--	--	--
Ca7_P1_22014557	Ca7	22014557	GTGT/GTGTGT	AACCTGCAGCAAAGAA CCGT	CACTACCCGTACTTC GCAT	59.9	419	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_22015792	Ca7	22015792	C/CGGCT	ACCTCCGTCATCTTT TCG	TTCCCCGAACACAGAA ACTC	59.9	646	INTERGENIC	--	--	--
Ca7_P1_22028394	Ca7	22028394	G/GA	TCATCAAATCCGTAAC GCAA	TCCATGTTTTGCTCTA TTGGC	60.1	271	DRR	Ca_14536	R	MYB
Ca7_P1_22036269	Ca7	22036269	GCTC/G	GCTCAGCCTTGAAATC GAAC	TTTCATCATCTCTTCAA ACAAAA	60.0	627	INTERGENIC	--	--	--
Ca7_P1_22036958	Ca7	22036958	GAAAAAAAA/GAAAAAAAAA	TGAAACATCAAATTGG GAAAAA	TTGATGGCAATGCTAT TGGA	59.3	504	INTERGENIC	--	--	--
Ca7_P1_22038011	Ca7	22038011	C/CT	CTCCAAATTCAGCC AAAA	ACACGGACGGGTCTT GTATC	60.0	822	INTERGENIC	--	--	--
Ca7_P1_22039243	Ca7	22039243	ACC/AC	CGTTATTGCAACCACA ACCA	CAATTCAACTCCGACG TGTG	60.4	622	INTERGENIC	--	--	--
Ca7_P1_22043317	Ca7	22043317	T/TG	TGGTTCAAATGCTGTA ATCTTCTC	ATTGCTCAATACACG GGTC	59.7	884	INTERGENIC	--	--	--
Ca7_P1_22045478	Ca7	22045478	ATTTTTTT/ATTTTTTT	TGTGGTGTCCCAAAA GACA	CAAAGCGAAGTGCAAA ATGA	60.0	246	INTERGENIC	--	--	--
Ca7_P1_22046891	Ca7	22046891	CATAATAATAATAATAATAATA ATAATAATAATAAT/CATAATAATA ATAATAATAATAATAATAATAATA TAATAATAAT	ATAATTGCCTTTGCG GTTG	TTCTGTGAGCAAGGCT GATG	60.0	319	INTERGENIC	--	--	--
Ca7_P1_22046957	Ca7	22046957	CTATATATATATATATATATAT/C TATATATATATATATATATAT	ATAATTGCCTTTGCG GTTG	TTCTGTGAGCAAGGCT GATG	60.0	319	INTERGENIC	--	--	--
Ca7_P1_22046996	Ca7	22046996	TGCGCGC/TGC	ATAATTGCCTTTGCG GTTG	ACCTGGTCGTAGATGC CACT	60.0	414	INTERGENIC	--	--	--
Ca7_P1_22049141	Ca7	22049141	TTATATATATATAT/TTATATATAT ATATATATAT	ATTTTGGAAATCCCG CTCT	TTGGTTGAGGCTAAAA TGGTG	59.9	521	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_22101651	Ca7	22101651	CTTTATT/CT	AACCCAAGTTCCAAT GACG	GAAGCCCAAGTTCCAA ATGA	59.8	672	INTERGENIC	--	--	--
Ca7_P1_22146568	Ca7	22146568	ATT/ATTT	CATGACAACAAACGTT TCCG	ATGTGGGCCAATATCC TTCA	60.0	301	INTERGENIC	--	--	--
Ca7_P1_22315085	Ca7	22315085	ATTTTTTTTT/ATTTTTTTTT	TTTAAGCCCATTTTCCA CCA	AGGTGCAAGTGTGTC CTCC	60.3	836	INTERGENIC	--	--	--
Ca7_P1_2231648	Ca7	2231648	CATATATATATATATA/CATATATAT ATATATA	TCGAGGATTCCACCTT TGAG	TAGGCAACAACGTCCT TACC	60.2	945	INTERGENIC	--	--	--
Ca7_P1_22327481	Ca7	22327481	TC/T	GATTCATCGCAGCTCA AACA	GATCAAAACCGGGGAA AAAT	60.0	638	DRR	Ca_14548	--	--
Ca7_P1_22328804	Ca7	22328804	TAAAAA/TAAAA	TCGACAGTTTGGTCT CTCG	AATCTTGCCAAATTCA ACGG	59.0	800	INTERGENIC	--	--	--
Ca7_P1_22336659	Ca7	22336659	CGTGT/CGT	CCTGGAAAATTCGTG ATGG	TTAGTTGCAGCGCTCT TCG	60.3	592	INTRON	Ca_14549	K	--
Ca7_P1_22357796	Ca7	22357796	CAAAAA/CAAAAAA	ACTTCTACCTCATGCC CCCT	CTCTAGAGGATTCATC GCGG	60.0	551	INTERGENIC	--	--	--
Ca7_P1_22366339	Ca7	22366339	AATATATATATATATATATAT/AA TATATATATATATATAT	GCTTTGCCCTCTCTTC AACA	TGTGCACACAAACATT GACA	60.5	761	INTERGENIC	--	--	--
Ca7_P1_22380060	Ca7	22380060	CATATATATATATATATATATA/CAT ATATATATATATATATA	GCGAATTGCGATTAAT GTGA	GCCACTTGTTGTTGT TGATG	59.7	510	INTERGENIC	--	--	--
Ca7_P1_22424546	Ca7	22424546	CAAAAAAAAA/CAAAAAAAAAA	AGACTCATACCCACA ACGG	ACAACAGTCCCCTGCA TTTC	59.8	569	INTRON	Ca_14555	--	NAC
Ca7_P1_22427905	Ca7	22427905	ATATTATTATTATTATTATCATTAT TATTATTATTATTATTATTATTATT ATTATTATTAT/ATATTATTATTATT ATTATTATTATCATTATTATTATTAT TTATTATTATTATTATTATTATTAT TAT	TAATTCGATGGTGCCG AGTT	AGCTCAATAGGAGGTC GCTG	60.5	519	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_22440146	Ca7	22440146	TAATATA/TAATATAAAATATA	GAAGTTGTAATCGGAG GCCA	GGCAGAGATGGAGT GATGT	60.1	542	INTERGENIC	--	--	--
Ca7_P1_22519524	Ca7	22519524	TTAATAATAATAATAATAATAATAA TAATAA/TTAATAATAATAATAATAA ATAATAATAA	ATGATCTTCTTCTCG GCCT	CCGTTTCTTCTCTCC CTCT	60.2	257	INTERGENIC	--	--	--
Ca7_P1_22523183	Ca7	22523183	GGCG/GG	ACCTTGTGGATGGCAG TTTC	TGGCATTGATGATGGC TTTA	60.0	328	INTERGENIC	--	--	--
Ca7_P1_22587400	Ca7	22587400	TTATATATATATATATATATATATAT AT/TTATATATATATATATATATATAT ATATATAT	AAGGAACAAAACGTCA TTTTCAA	AGTCAGACGCTACTCG GCAT	59.9	519	INTERGENIC	--	--	--
Ca7_P1_22658192	Ca7	22658192	GTATATATATATATATATATATAT/G TATATATATATATATATATATAT	TACACCTGAGTCCGCT ACCC	TCCCAAGTTTCAAATG CTGA	60.1	494	INTERGENIC	--	--	--
Ca7_P1_22678046	Ca7	22678046	AG/AGG	ACCAGTCAACAAATGC CCTC	CCACCAACTTTAGCTC CGAA	60.0	314	INTERGENIC	--	--	--
Ca7_P1_22695184	Ca7	22695184	AATATATATATA/AATATATATATATA	GGAAGCCTATGATCGC AGAG	AAGTGTGCGGGTGA TATTC	59.9	404	INTERGENIC	--	--	--
Ca7_P1_22745128	Ca7	22745128	G/GGTAGTTAGTGAT	GGAGTTGGTCGCTACA CCAT	CGAGGCATTCTTCAC AAAT	60.0	634	INTRON	Ca_19530	R	--
Ca7_P1_22886024	Ca7	22886024	G/GCTAC	GCCCTTCTATGCTTGT CAGC	TTGGGAAGGTATGAAG GCAG	60.0	728	CDS (FRAME SHIFT)	Ca_19525	S	ARF
Ca7_P1_22890324	Ca7	22890324	A/AT	GTATCACACCCCTGCA ACCT	TGTGGTGTGGGTACT TCAGG	59.9	705	DRR	Ca_19524	S	--
Ca7_P1_22893426	Ca7	22893426	AAAAATAATAATAATAATAATAA ATAATAAAA/AAAAATAATAATAATAA AATAAA	GAAGCATCTGAAGGTG AGGC	AGAGTGTGAGCGCAG CAGTA	60.0	502	INTRON	Ca_19524	S	--
Ca7_P1_22950306	Ca7	22950306	TTATATATATATATATATAT/TTATAT ATATATATATATAT	ACCCAAGAGAGGTGC GACTA	AATGGCGACTTACCAA AGGA	59.9	832	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_22969908	Ca7	22969908	CTT/CTTT	AATGTGCTGATCTGTG AGCG	CCTTGGAGTATTCTCG GCAG	60.0	894	INTERGENIC	--	--	--
Ca7_P1_22979898	Ca7	22979898	GTTTTTTTTT/GTTTTTTTTT	GAGGTGCAATTTGTTT CCAA	GTTGTCGGGGATTGTC ATCT	59.9	510	INTERGENIC	--	--	--
Ca7_P1_2300656	Ca7	2300656	TTATATATATATATATATATATAT A/TTATATATATATATATATA	TTGAACAAGCAAAATTT ATCCAAA	GGTGCTAAGAGGGTTT GTGG	59.9	440	INTERGENIC	--	--	--
Ca7_P1_23037717	Ca7	23037717	TAAAA/TAAAAA	TTGAGTTTCAAACTG CCAAG	CCTCCTCGGTCTCTTC TCCT	58.1	769	INTERGENIC	--	--	--
Ca7_P1_23038315	Ca7	23038315	TCCCCC/TCCCCCCCC	CTAATTTAGAGGGGGA GCGG	TGATGTTGTTGCCTCT CTGC	60.0	825	INTERGENIC	--	--	--
Ca7_P1_23051280	Ca7	23051280	T/TATA	AAGTTAGCACCGACCC AAGA	GGACCAGCTTGACAT TGTA	59.7	683	INTERGENIC	--	--	--
Ca7_P1_2327043	Ca7	2327043	CACACCCAGACACCCAG/CACACC CCAG	CTAACCAGGCAACAG AGAA	TGTGTGGTGATGTGC GATG	60.2	486	INTERGENIC	--	--	--
Ca7_P1_23420508	Ca7	23420508	AATATATAT/AATATATATATAT	TGACATGGCTTGTTC TTCA	ACCTTGCTCCCTTACC CACT	60.2	599	INTERGENIC	--	--	--
Ca7_P1_2342212	Ca7	2342212	ATTTTTTTTT/ATTTTTTTTTT	GCGTCATCAATGTTGC AGAT	AAAAGAGTCCCCCAT TCAC	59.7	586	INTERGENIC	--	--	--
Ca7_P1_23466444	Ca7	23466444	GAA/GAAAA	TGCTGACTGTAGCCTT GTGC	CTGTCCAAATATCAGC CCGT	60.2	586	INTERGENIC	--	--	--
Ca7_P1_23564944	Ca7	23564944	TTAAATAAATAAATAAATAAATAA ATAAATAA/TTAAATAAATAAATAA AAATAAATAAATAA	TTGGACCACAAGGAGT GTCA	CCGAAATCAATTTTGA ACCG	60.1	795	INTERGENIC	--	--	--
Ca7_P1_23595743	Ca7	23595743	GTTTTTTTTT/GTTTTTTTTT	GCGATTTGAGATCGGA GAGA	TGCCATTTTGTGAG GTGA	60.4	718	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_23629157	Ca7	23629157	ATTT/ATT	TGAGGACTGGACGTAG CCTT	AAATAGGGAGGTCG GCTGT	59.9	350	INTERGENIC	--	--	--
Ca7_P1_23631733	Ca7	23631733	AG/A	TCACATTGACCTCTTT GGTCC	AAATTTATTCTCGCCC CCAC	60.0	414	INTERGENIC	--	--	--
Ca7_P1_23644052	Ca7	23644052	AAAGAAGAAGAAGAAGAAGAAGA AGAAGAAGAA/AAAGAAGAAGAAGAA GAAGAAGAAGAAGAAGAA	CCAGGATAAAACAGCC CAGA	GCCATCCACAAGGTCA AAGT	60.1	550	INTERGENIC	--	--	--
Ca7_P1_23667025	Ca7	23667025	AAATAATAATAATAATA/AAATAAT AATAATAATAATAATA	ACACTGATTCCCAA ACGC	TTTCCTCCCTTCTCAT TGC	60.0	728	DRR	Ca_26877	G	FAR1
Ca7_P1_23688628	Ca7	23688628	TTAATAATAATAATAATAATAATA/ TTAATAATAATAATAATAATAATAA TAATAATA	CCACAAGACAATCGA GCAA	CGTGCAATCTGCTTGG AGTA	59.8	308	INTERGENIC	--	--	--
Ca7_P1_23719188	Ca7	23719188	AATATATATATATATATATAT/AA TATATATATATATATATATATAT	CCATATGAGTCGTTGT CCTTGA	CCACATTTTACATCAA CACCA	60.0	531	INTERGENIC	--	--	--
Ca7_P1_23766427	Ca7	23766427	TAAAA/TAAAAA	GGGAATCGGGTTAAAG AAGG	TTTTGGTTTTCTGTTT CTGG	59.8	373	INTERGENIC	--	--	--
Ca7_P1_23780060	Ca7	23780060	TTATATATATATATAT/TTATATATAT AT	CGCTCGTCTATGCGAT TGTA	TAAATCTCGCTCGC AACT	60.0	946	INTERGENIC	--	--	--
Ca7_P1_23797195	Ca7	23797195	AATATATATATATATATATATATA TA/AATATATATATATATATATATAT ATATATA	AAGAAATCGCGAGTCA CAGG	TTAATAGAACGCGCCA AAGG	60.4	652	INTERGENIC	--	--	--
Ca7_P1_2380600	Ca7	2380600	ATTTAATTTGTTTAA/ATTTAATTTGTT TAATTTGTTTAA	CCACCATTTTGTATGA CGTG	TGGAAAAACCAAAAT ATTACATTG	59.8	593	INTERGENIC	--	--	--
Ca7_P1_23835513	Ca7	23835513	T/TG	ACCGTAATCGAACGTG AAGG	ACGATCCACACCAAAA CACA	60.0	332	INTERGENIC	--	--	--
Ca7_P1_23850887	Ca7	23850887	GGA/GGAGA	TAACGTTCCACGGCT TAAC	ATTAAATTTCTACGCA GCGG	60.0	195	DRR	Ca_26881	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_23907440	Ca7	23907440	AATATATATAT/AATATATATATAT	TTGGAGAATTCAAAAAT AAGGCA	CGTGACAAAGCACGAA AGAA	60.0	513	INTERGENIC	--	--	--
Ca7_P1_23984802	Ca7	23984802	AGTTGTTG/AGTTG	AAGCTGGCATGATGAG GACT	GGGGAATTGAGCCTAA AAGC	59.8	359	INTERGENIC	--	--	--
Ca7_P1_24027767	Ca7	24027767	GATAATAATAATAATAATAATAA/G ATAATAATAATAATAATAATAATAA	ACAATGGATGCTCAG ACAC	GTTTCCCATCTCCCT TTGT	59.6	633	INTERGENIC	--	--	--
Ca7_P1_24037473	Ca7	24037473	TA/TAA	ATGTTGAAGTCGGGAA AACG	TCTTCTTGCGCCGAC TCTT	60.0	741	INTERGENIC	--	--	--
Ca7_P1_24096310	Ca7	24096310	TCCCC/TCCCCC	CTTGCCACCCTAATG CTCA	ACAACCGATTCAAGC CATC	59.9	818	DRR	Ca_19914	--	--
Ca7_P1_24211988	Ca7	24211988	CATTATTATTATTATTATTATT/CA TTATTATTATTATTATTATTATT	ACTGGGGATGCAATT TCTG	AATGGGTCAAAGAGG AGGAA	59.9	650	INTERGENIC	--	--	--
Ca7_P1_24212616	Ca7	24212616	ATTTTT/ATTTTT	AATCCTCCTCTTTGA CCCA	AATGTTTCAAATCAAC GGTGC	59.9	733	INTERGENIC	--	--	--
Ca7_P1_24260186	Ca7	24260186	ATTTTT/ATTTTT	TCAGCTTTTGGCTGA TGTG	TTTCTTTCAATTTATGT CAACCCA	60.0	667	INTERGENIC	--	--	--
Ca7_P1_24260251	Ca7	24260251	CTTTTT/CTTTTT	AGAATGAGGTGACATT CGGG	TCTCCTTCAATCCTCC TCTCA	59.9	978	INTERGENIC	--	--	--
Ca7_P1_24275611	Ca7	24275611	TTGTGTGTGTGTGTGTG/TTGTGTGT GTGTGTG	GATTGCTCGTCCTCAA CACA	AAACCGATTCTCAAG GCAA	59.8	583	INTERGENIC	--	--	--
Ca7_P1_24321799	Ca7	24321799	CAATTGTTGTTAATTGTTTAATTGT TG/CAATTGTTGTTAATTGTTG	CGCTCATGCAAGGATA CTCA	AACGCGTCGCTCTATG ATCT	60.0	322	INTERGENIC	--	--	--
Ca7_P1_2432614	Ca7	2432614	TTATATATATATATATATAT/TTATAT ATATATATATATATATAT	CAAAATGGATTGGTGAG ACGA	GGCATGAGTGAGTATG GCCT	59.5	640	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_24347972	Ca7	24347972	TAAAA/TAAAAA	CTCTCATCTGAGGGCA AAGC	CGATTGAATTAAGCCC AGGA	60.1	356	INTERGENIC	--	--	--
Ca7_P1_24348355	Ca7	24348355	TAA/TAAA	TCCTGGGCTTAATTCA ATCG	CGTTCCTGAGGGAATT GTGT	60.0	378	INTERGENIC	--	--	--
Ca7_P1_24348515	Ca7	24348515	CAA/CAAA	TCCTGGGCTTAATTCA ATCG	CGTTCCTGAGGGAATT GTGT	60.0	378	INTERGENIC	--	--	--
Ca7_P1_24354887	Ca7	24354887	AATATATATAT/AATATATATAT	CAATCCCACAGGTAC GCTT	GGAAGACCCCTTGCAAA ATCA	60.0	283	INTERGENIC	--	--	--
Ca7_P1_2440452	Ca7	2440452	AAATAATAATAATAATAATAAT AATAA/AAATAATAATAATAAT AATAATAA	GCGGAACCTCCACCTA TTTT	CATCAAAGTTAACGCA GTTTCG	60.3	214	INTERGENIC	--	--	--
Ca7_P1_24421160	Ca7	24421160	AATATATATATATATATATA/AATAT ATATATATATATA	AGGAAGCCCAAGTTCC AAAT	ACAGCCAACAACCACA TCAA	59.9	469	INTERGENIC	--	--	--
Ca7_P1_24436102	Ca7	24436102	GTTATTATTATTATTATTATTATTA TTATTATTATTATTAT/GTTATTATTAT ATTATTATTATTATTATTATTATTA T	TGCGACGCTTGATCGT TAAT	AGTTTCGAAGCAATCC GAGA	61.7	465	INTERGENIC	--	--	--
Ca7_P1_24450388	Ca7	24450388	TTATATATATATATATAT/TTATATAT ATATATATATAT	TTGTTAGTTTGACGAG GGCA	TGGGTGCTATTTGCAA TCAA	59.3	380	INTERGENIC	--	--	--
Ca7_P1_24485265	Ca7	24485265	C/CAACTTT	GTCACACCTAGGAGC TTTC	CGGACCAAAAATTAA GCGA	60.1	986	INTERGENIC	--	--	--
Ca7_P1_24489115	Ca7	24489115	ATTTTTTTTT/ATTTTTTTTT	CGGAACAGAGAATTCG GAAG	TTGGGGGATAAATGCA ACAT	59.8	303	INTERGENIC	--	--	--
Ca7_P1_24495058	Ca7	24495058	TTTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTAT T/TTTATTATTATTATTATTATTAT ATTATTATTATTATTATTATT	TCCGTCGTAGCTTTTT GACA	TCTGAATCCGACATAG TGCG	59.5	625	INTERGENIC	--	--	--
Ca7_P1_24559812	Ca7	24559812	TATAAATATAATAATATAA/TATAAT ATAATAAATAATAAATAA	ATTCCGGTAAATCTC CGCT	TATTTGGATTTTGGC TCGG	59.9	688	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_24660866	Ca7	24660866	CTTTT/CT	ACGTTCTCCATTTTCGT TGC	AATCCGCTCCTTAGGG AAAA	60.1	838	INTERGENIC	--	--	--
Ca7_P1_24813398	Ca7	24813398	GAAAAAAAAA/GAAAAAAAAA	AAGGCTGAAACGACCA AAGA	AAAGCGGATGACCTTG AATG	59.9	543	DRR	Ca_19892	--	--
Ca7_P1_24876128	Ca7	24876128	TAAA/TA	GCTTTAGAGGCAACAA CCGA	CTCCAAGAACCAACTC CTGC	60.4	686	INTERGENIC	--	--	--
Ca7_P1_25013965	Ca7	25013965	TGAG/TGAGGAAAGAG	TGGGTCCATGTTCCAT TTTT	CCTTGACTCAGCAACA CGAA	60.0	641	CDS (FRAME SHIFT)	Ca_23594	--	--
Ca7_P1_25030498	Ca7	25030498	CTTTT/CTTTTT	ATGCAACGTGCATTGT GATT	GCCTCCAACGTGCAAT CCAT	60.0	508	INTRON	Ca_23595	--	--
Ca7_P1_25111194	Ca7	25111194	AATATATATATATATA/AATATATATAT ATATATA	GGGATTGAGAGGAGA GGGTC	ATTTAAATGTCGTGAC CGGC	60.0	489	INTERGENIC	--	--	--
Ca7_P1_2511452	Ca7	2511452	TTATATATATATATATATATATATAT AT/TTATATATATATATATATATATAT ATATATATATAT	GTCGCTCTTCCACAT CCTC	TTCTGTITTGATTTTT AGGGA	59.8	596	INTERGENIC	--	--	--
Ca7_P1_25164086	Ca7	25164086	CATATATATATATATATATATATATA TA/CATATATATATATATATATATATAT ATATATA	AAAATGGATTTTAGCC GAGTGA	TTTCCAATTGCGTTTT TCA	60.0	391	INTERGENIC	--	--	--
Ca7_P1_25170286	Ca7	25170286	TAAAAA/TAAAAA	GTTTGTGGGAGCAGAG CTTC	CCCTTCAACGCATCC TTTA	60.0	629	INTERGENIC	--	--	--
Ca7_P1_25219421	Ca7	25219421	CAAA/CAA	TGGGATATGGAAGGGT TGAG	CAGATTCCTACGGGAA ACGA	59.7	202	INTERGENIC	--	--	--
Ca7_P1_25240070	Ca7	25240070	CTATATATATATATATAT/CTATATA TATATAT	GTTGTAGCCGGTCCAA GGTA	GTTTAAGCCCCTTTGA GCCT	60.0	406	INTERGENIC	--	--	--
Ca7_P1_2525335	Ca7	2525335	CAATACAATTGATTAATA/CAATACAAT TGATTAATACAATTGATTAATA	TGGTGAAAAATAGCA TTTGG	CCTCTCCCGAATGACT CAAG	59.8	868	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_25295206	Ca7	25295206	AAATTAACAATTAACA/AAATTAACA	TCCTGGTTCTCATCTG AGGG	ACATGCTGTTTTGCT GCTG	60.2	277	INTERGENIC	--	--	--
Ca7_P1_25297798	Ca7	25297798	CTATATATATATATATATA/CTATAT ATATATATATATATATA	CTGATAAAATCTCCGC TCGC	GGAAGTGATGGGTGA AATGG	59.9	492	INTERGENIC	--	--	--
Ca7_P1_25324770	Ca7	25324770	GTTTTTTTTTTT/GTTTTTTTTTTT	TCGTGCCATCATGGTT TTTA	TATGAACCACCACCCC ATCT	59.9	603	INTERGENIC	--	--	--
Ca7_P1_25342809	Ca7	25342809	TAAAAAAA/TAAAAAAA	CATTCAACAGCCACAT GACC	CGGTACCGCATTCTGA GTATT	60.0	642	INTERGENIC	--	--	--
Ca7_P1_2538922	Ca7	2538922	TAAGTAAAGT/TAAGT	CGCATATCCGCTCTTG TGTA	TTCTTGCTGAAGCCAT GTTG	59.9	378	INTRON	Ca_03225	--	--
Ca7_P1_25422700	Ca7	25422700	AC/A	TCCCATCAGCAACCT AAAC	GAGGCAACCCACAGG TAGAG	59.9	663	INTERGENIC	--	--	--
Ca7_P1_25435845	Ca7	25435845	CATAAATAAATAAATAAATAAAT AAATA/CATAAATAAATAAATAAA TAAATA	CAAGGTCTTCCCTTG TGAA	CTCAAAATCCCGAGC AGAG	60.1	397	INTERGENIC	--	--	--
Ca7_P1_25468194	Ca7	25468194	GTAAATTAGTCTT/GTAAATTAGTC TTATAAATTAGTCTT	AATGATCAACGTCGC AAAA	TGCCGAACCTTACTGA GCCT	59.2	374	INTERGENIC	--	--	--
Ca7_P1_25510914	Ca7	25510914	AATATATATATATATATATAT/AATA TATATATATATATATATATAT	CTTGGAAGTGGAGAG CAAG	GCTCTCTCAAGGTTTG CACC	60.0	462	INTERGENIC	--	--	--
Ca7_P1_25556203	Ca7	25556203	TAAA/TAA	TGCATCAAACTCCA TCCA	ATTGAATGGAAGATGG TGCG	60.0	236	INTERGENIC	--	--	--
Ca7_P1_25613830	Ca7	25613830	TAAAAAAA/TAAAAAAA	TCGATGGCTACCTCAA ATCC	GGTGGTCTCTGCTCT TACG	60.0	512	INTERGENIC	--	--	--
Ca7_P1_25626892	Ca7	25626892	CGG/CGGG	TTGGCCAAGTCCTGT TTAC	CCCGTGATAGGCAGTA CGTT	60.0	420	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_25689656	Ca7	25689656	ATTTTTTTTTTTT/ATTTTTTTTTTT	CGGAGAAATTCATCAT CCCA	TTGCCTCGATATGGGA CTTC	60.8	410	INTERGENIC	--	--	--
Ca7_P1_25743228	Ca7	25743228	ATGAATGCCTG/A	AAACAAGGCATGCTAG GTGG	TTAGCAGCCTCGGTTA AGGA	60.1	824	INTERGENIC	--	--	--
Ca7_P1_25834002	Ca7	25834002	GTTTTTTT/GTTTTTTTTT	TGCTCTTAGTGGTGAC CGTG	CATCGTCATCGTTGCA ATTG	59.9	461	INTERGENIC	--	--	--
Ca7_P1_25964254	Ca7	25964254	ATTTTTTT/ATTTTTTTT	GACCTAGTCCGCTGCT CAAC	CGTGAAGATGATGGCA TTTG	60.0	413	INTERGENIC	--	--	--
Ca7_P1_25989333	Ca7	25989333	AATATATATATATATATATATA/A ATATATATATATATATATATATAT ATA	AACAAGTTCCAAATGG CGAC	AAACCTTTGAGAAATC GGCA	60.0	346	INTERGENIC	--	--	--
Ca7_P1_26023393	Ca7	26023393	CAGCGCTTTTGGAGCGCTT/CAGCG CTTT	TTGACAAGCGCTGTTG TAGG	CCTGAGGCAACGTATC CAAT	60.1	493	INTERGENIC	--	--	--
Ca7_P1_26035041	Ca7	26035041	TAAAAAAAA/TAAAAAAAAA	TAAAGAGATTGCGAGC GGTT	CATGTTTTCGAAGCTC ACCA	60.0	407	INTERGENIC	--	--	--
Ca7_P1_26056806	Ca7	26056806	CTTTTT/CTTTTTTTTT	GTTGCCACTTGGCGTA AAAT	GGCCGATTTACTGCTC ACAT	60.0	393	INTERGENIC	--	--	--
Ca7_P1_26094175	Ca7	26094175	AAA/AAATAA	AACTTGATGCCGAGTA GCGT	AATCCGTCACAAAGGC AGAC	59.9	592	INTERGENIC	--	--	--
Ca7_P1_26119986	Ca7	26119986	CATAAATAAATAAATAA/CATAAA TAAATAAATAAATAA	GACTTAAGTGCCCGTA CCCA	GGTAGGGTAAAAACCC GCAT	60.0	629	INTERGENIC	--	--	--
Ca7_P1_26160184	Ca7	26160184	AG/A	GTGGCTACCTTCTTGG GTGA	TTTCATCGCCGAAACC TATC	60.1	141	INTERGENIC	--	--	--
Ca7_P1_26160377	Ca7	26160377	GTAT/GTATAT	CCGATTGGATTGTCAG GACT	TCCAGAAAAATCGTTT GAGG	59.9	184	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_26179604	Ca7	26179604	AT/ATT	TCAGGGATGAGTTTCA CTTCG	TTGGGAAGTTGGGAG ACTTG	60.2	625	INTERGENIC	--	--	--
Ca7_P1_26221720	Ca7	26221720	AATATATATATATATATAT/AAATATA TATATATATAT	CTTGGGAATTGGAGAG CAAG	GGGTTTCTTTCCTTGA AGCC	59.8	671	INTERGENIC	--	--	--
Ca7_P1_26228410	Ca7	26228410	GAAAAAAAAA/GAAAAAAAAAAAAA	ATGGTGCAAAATGGTG ACAA	GAAAGTCGGTGCATG GAAGT	59.8	304	INTERGENIC	--	--	--
Ca7_P1_26230064	Ca7	26230064	CAAAAAAAAAAAAA/CAAAAAAAAAAAAA AAAAA	GGGCTTCAATAGTGTG CCAA	CCTGAACCGAACAACA CATC	59.9	499	INTERGENIC	--	--	--
Ca7_P1_26233274	Ca7	26233274	TAAAAAA/TAAAAAA	TACGCCATCCAAAAAT GTGA	CCCTCATCCGAAAAGA TGAA	59.9	945	INTERGENIC	--	--	--
Ca7_P1_26235537	Ca7	26235537	TTATATATATATA/TTATATATATATATA TA	TGCGACCTCAGTTTCT CAAA	GGGGTCATAGCATCC CCTAT	59.6	157	INTERGENIC	--	--	--
Ca7_P1_26240583	Ca7	26240583	G/GTAACATATT	GTTTCCACATCCAGA GGAA	GAGATCAACGTGAATT GGTCA	59.9	330	INTRON	Ca_23643	--	HD-ZIP
Ca7_P1_26258817	Ca7	26258817	ATTT/ATTTT	TGGTAACAACCGCAAT TTGA	AGTTAACTGGGGATGA TGCG	60.0	476	INTERGENIC	--	--	--
Ca7_P1_26326487	Ca7	26326487	GTATATATATATATATATATATATA/ GTATATATATATATATATATATA	GGTGGTAGCTGGTAG GGTGA	TGACAACTACGAGGTT GCTTG	60.0	657	INTERGENIC	--	--	--
Ca7_P1_26331505	Ca7	26331505	AATATATATAT/AAATATATATATATA TATATAT	TCTTTAGTAGCCCGCC AAGA	CGTTTTGGGTCGTTGT TACC	60.0	534	INTERGENIC	--	--	--
Ca7_P1_2639799	Ca7	2639799	CTCATCATCATCATCATC/CTCAT CATCATCATCATCATCATC	TTCAAGACAAGAGGG GGTG	CAATGCAGCAATGAGA GCAT	60.1	382	CDS (large-effect mutations)	Ca_03214	O	--
Ca7_P1_2646640	Ca7	2646640	ATATTATTATTATTATTATTAT/ATA TTATTATTATTATTATTATTAT	GGATGGAGAGCAATCC TCAA	CAAAAGCCAAGCACAT CAAA	60.2	683	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_26567174	Ca7	26567174	TAAAAAAAA/TAAAAAAAAA	TATGCATTGCGAAACA CGAT	TTCATTTTCTTCGTG GTCA	60.1	430	INTERGENIC	--	--	--
Ca7_P1_26643712	Ca7	26643712	TTATATATATATATAT/TTATATATAT ATATATATAT	ATACACCTGAGTCCGC AACC	TCCACCAGAGAAACAC CTCC	60.0	881	INTERGENIC	--	--	--
Ca7_P1_26662956	Ca7	26662956	CAA/CA	TCCAAGCTTCCTTCAA TGGT	CTCAAAAGCGCTCCAA TTTC	59.7	542	INTERGENIC	--	--	--
Ca7_P1_26694675	Ca7	26694675	ACC/ACCCCCC	CTCGGCCATCCGAGAT ATAA	GCTCACTAACTCTGCC TGGG	60.0	881	CDS (FRAME SHIFT)	Ca_16250	--	--
Ca7_P1_26696024	Ca7	26696024	C/CAGATAAGGGGA	CGTACACATTCGACG ATTG	CCGGCTTAGCTACGAT CTTG	60.0	635	INTERGENIC	--	--	--
Ca7_P1_26697328	Ca7	26697328	G/GCTAT	AAAGAAAGCAAAGCGG ATCA	GCAGAACGACTGACTC CTCC	60.0	148	INTERGENIC	--	--	--
Ca7_P1_26698340	Ca7	26698340	TGG/TGGG	TGGGTCCTCTTGACT ATGC	GATCCTAGCTTCCTC CACC	60.1	715	INTERGENIC	--	--	--
Ca7_P1_26699922	Ca7	26699922	A/AACTAG	AAACTCCAGCCCGGTA AACT	AACCCATTGAGGTGA CTGC	60.0	465	DRR	Ca_16249	--	--
Ca7_P1_26700838	Ca7	26700838	A/ATT	ACTATCCGTTCTGTGG TGCC	CAGTGGCTTGGTTAAG GGAA	60.0	835	DRR	Ca_16249	--	--
Ca7_P1_26701106	Ca7	26701106	A/ACTAGGAATTACTCCC	CAATAGGGCGAGTCGA ATGT	AAGTCCAGTAGCCGAA AGCA	60.1	838	DRR	Ca_16249	--	--
Ca7_P1_26701534	Ca7	26701534	C/CG	AAGCTTCATCCTGGTC ATGG	AAGTCCAGTAGCCGAA AGCA	60.1	381	DRR	Ca_16249	--	--
Ca7_P1_26703046	Ca7	26703046	A/AACCAGAGC	CGACTCCAACCTACGT CCAT	TTGGAGAGCGCAGTA CAATG	60.0	483	INTERGENIC	--	--	--

[illegible]

[illegible]

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_28056896	Ca7	28056896	TAAAAAAA/TAAAAAA	TCCAAAAAGATATGCG CGAC	GTATTAGCTGGTGCG TGGT	59.9	406	INTERGENIC	--	--	--
Ca7_P1_28185236	Ca7	28185236	TTA/TTATATA	TGTTGCCCTCTTGAGT TTCA	TGGAGTGCAATTGTTT CCAA	59.4	560	INTRON	Ca_26608	--	Trihelix
Ca7_P1_28190197	Ca7	28190197	AGTTTATTTGG/AGTTTATTTGGTTAT TTGG	TTGGTTTATTTGGGTT GGGA	ACCAGGAAAAGAAGAA GGGC	60.0	519	INTERGENIC	--	--	--
Ca7_P1_28335175	Ca7	28335175	AAAATATA/AA	GGTACTGTTCACTGCG CAAA	TCAACCAAAATCCCC AATA	59.9	236	INTRON	Ca_18921	--	--
Ca7_P1_28351627	Ca7	28351627	T/TTA	TGTTGGGTGAGTTTTT CACA	GTGAAACCATCGTTCA CACG	60.0	472	INTERGENIC	--	--	--
Ca7_P1_28355456	Ca7	28355456	AATATATATATATATATA/AATATAT ATATATATATA	GCCAACTCATCAATC GTGA	ATGGAACAATCGGACA CCAT	59.7	521	INTERGENIC	--	--	--
Ca7_P1_28373395	Ca7	28373395	TTTCTTCTTCTTCTTCTTCTTC/TT TCTTCTTCTTCTTCTTCTC	CGAAAGCACTTCTTGC ACAC	GTAACGACGGCGATG AATTT	59.6	485	INTERGENIC	--	--	--
Ca7_P1_28381412	Ca7	28381412	GATATATATATATAT/GATATATATATA TATAT	AATGTGCAGGGTGTA AACA	CCTCAGTTGGATCGAC TGGT	60.0	384	INTRON	Ca_18923	R	--
Ca7_P1_28385540	Ca7	28385540	CTTATTATTATTATTATTATTATTA TT/CTTATTATTATTATTATTATTAT T	CAGCGTGGGCATACCT ACTT	ACTGCATGTCCGTTAC CTCC	60.2	436	INTERGENIC	--	--	--
Ca7_P1_28400317	Ca7	28400317	AATATATATAT/AATATATATATAT	CTGACCAAAATCCAA AAGACA	TCGGTTTTGAAACCAA AATG	59.1	637	INTERGENIC	--	--	--
Ca7_P1_28454557	Ca7	28454557	GTT/GTTACTT	TGTCCGTCAATCCACT TTTT	CCCAAACCATTCCATT TTTG	58.0	411	INTERGENIC	--	--	--
Ca7_P1_28454949	Ca7	28454949	CTCTTCTTCTTCTTCTTCTTCTTC TTC/CTCTTCTTCTTCTTCTTCTTC TTCTTCTTCTTC	CAAAAATGGAATGGTT TGGG	TGGAAGAAGGTTTGA TCCG	60.0	688	CDS (large-effect mutations)	Ca_18933	S	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_28459987	Ca7	28459987	TAAAAAAAA/TAAAAAA	ATCAACCCCAGTGAC AATC	TTGCATTGTCAGTTG CCAT	59.6	451	INTERGENIC	--	--	--
Ca7_P1_28462671	Ca7	28462671	ATATTATTATTATTATTATTAT TATTATTATTATT/ATATTATTATTATTA TTATTATTATTATTATTATTATT	GGCGTTGGTTTCACTC AAAT	GTTGCATGAAGGCAAA GGAT	60.0	600	INTERGENIC	--	--	--
Ca7_P1_28495159	Ca7	28495159	GAAAAAAAA/GAAAAAA	GGCGACACGAGTTCTA AAGC	AGTCCTGACGGACGA CCTAA	60.0	567	INTERGENIC	--	--	--
Ca7_P1_28525345	Ca7	28525345	GTTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATT/GT TATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTATT	TCCACATAGTCCACAT CGTGA	TTTTTCGTTTGAGTTT GACATACAA	60.0	717	INTERGENIC	--	--	--
Ca7_P1_28557235	Ca7	28557235	TACTTA/T	TGCGATGGAAATGGTA TTGA	CACAACCCGAGAGAA CGAA	59.9	233	INTRON	Ca_18943	L	C3H
Ca7_P1_28561460	Ca7	28561460	CCAC/CCACAC	CACTGCTTTAGCAACC ACCA	TTCTAGAAGCGCGTT GTTT	59.9	678	DRR	Ca_18943	L	C3H
Ca7_P1_28562888	Ca7	28562888	AAGT/AAGTACAAGTACTAGT	AAGCAACACAGCACAA CCAA	TTGAGCACCACATTCA GAGC	60.3	658	INTERGENIC	--	--	--
Ca7_P1_28570369	Ca7	28570369	GTTTTTTTTTTTT/GTTTTTTTTTTTT	TTGGTTAAATGGTGG AGCC	TTTGGCATTGGTGAGT TTTG	59.8	536	INTERGENIC	--	--	--
Ca7_P1_28587444	Ca7	28587444	ATTTT/ATTTT	TCGTGTATGTGCGCAT GAGT	TTTTCTGAATGGGGAG TTGC	61.3	626	INTERGENIC	--	--	--
Ca7_P1_28617039	Ca7	28617039	AATATATATATATATATAT/AAATA TATATATATATAT	CATCCATTCACTACTG CAAAC	CAAAATGGTTCCAACC GAAC	58.2	872	INTERGENIC	--	--	--
Ca7_P1_28627288	Ca7	28627288	ATATTATTATTATTATTATTATTAT TATTATTATTATT/ATATTATTATTATTA TTATTATTATTATTATTATTATTAT T	TTTTTCATTAGTTTCT GATTTAATGG	GAGGCTACTAGCCTAG GGGG	58.3	875	INTERGENIC	--	--	--
Ca7_P1_28632510	Ca7	28632510	CTCTCTT/CT	AACCACAAACATCGCC TCTC	TGAGCTTGAAGATTTC GCAG	60.1	387	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_28650968	Ca7	28650968	TTATATATATATAT/TTATATATAT ATATAT	TGGATTAACCATTCG AACC	CAATCAAATGCATCA TCGC	59.6	400	INTERGENIC	--	--	--
Ca7_P1_28659705	Ca7	28659705	ATTTTTTTTT/ATTTTTTTTT	TGCATGTGAGCAGTGT CGTA	AAGTGAATTATTCTG GGGG	60.1	928	INTERGENIC	--	--	--
Ca7_P1_28702659	Ca7	28702659	ATCCTCC/ATCC	TCCATTAACCTCTTG AGGAAA	TCAGGATGAAGAAGG GGAGA	59.9	531	INTERGENIC	--	--	--
Ca7_P1_28706973	Ca7	28706973	T/TTAAGGTAC	TCACCATCTTACACT CTTGTC	TTGGTTTTGATGGTG GGAT	59.6	503	INTERGENIC	--	--	--
Ca7_P1_28707261	Ca7	28707261	ATTT/AT	TGATGGTGGATATGCG AAAA	TTGGTTTTGATGGTG GGAT	59.9	314	INTERGENIC	--	--	--
Ca7_P1_28707412	Ca7	28707412	GAAATAACAATAAAACAATAACAAT AAAA/GAAATAACAATAAAACAATAA CAATAAAACAATAACAATAAAAA	ATCCCACCATCAAAAA CCAA	GATATGTTCCGAGTGC CGTT	60.0	491	INTERGENIC	--	--	--
Ca7_P1_28881820	Ca7	28881820	CAAAA/CAAAAA	TGGATTTCGAAGCACA CTTG	AAAGAGTCTGCCCTGG GAAT	59.8	646	INTERGENIC	--	--	--
Ca7_P1_28913477	Ca7	28913477	ATTTTT/ATTTTTTT	AGTTGCTCTTAAGCCC CCTC	TGCCAGATTGCTTTTC TCCT	59.8	799	DRR	Ca_11811	QR	B3
Ca7_P1_28914738	Ca7	28914738	TAAAAA/TAAAAAA	TGAACCCAAAACACAA ACACA	AACATTTCTGTCCTTT TCGT	59.9	827	DRR	Ca_11811	QR	B3
Ca7_P1_28915149	Ca7	28915149	ATTT/ATT	ACGAAAAGGCACGAAA TGTT	TGTAGGGGTTTCATGT GGGT	59.6	317	DRR	Ca_11810	O	TCP
Ca7_P1_28918862	Ca7	28918862	TAAAA/TAAAAA	TGCCGTCAAATTGTA GCAG	TCCCATCCATTTTCAT TTGT	59.9	505	INTERGENIC	--	--	--
Ca7_P1_28918944	Ca7	28918944	GTGCT/GT	TGCCGTCAAATTGTA GCAG	TCCCATCCATTTTCAT TTGT	59.9	505	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_28919455	Ca7	28919455	GTATATATAT/GTATAT	AAATGAAATGGATGGG GACA	TCTTGGGTTAGCACGT TTCC	60.0	562	INTERGENIC	--	--	--
Ca7_P1_28925485	Ca7	28925485	AAGTAGTAG/AAGTAG	TCATCAAAAGACCGAA AGCA	ACCACCACTTAGAGAG GCCA	59.4	410	INTERGENIC	--	--	--
Ca7_P1_28925757	Ca7	28925757	GT/G	TCATCAAAAGACCGAA AGCA	ACCACCACTTAGAGAG GCCA	59.4	410	INTERGENIC	--	--	--
Ca7_P1_28926013	Ca7	28926013	TACAAAAACAAA/TACAAA	TGGCCTCTCTAAGTGG TGGT	CGAAGAATGGATTGAA GGGA	59.7	697	INTERGENIC	--	--	--
Ca7_P1_28933198	Ca7	28933198	CAAAAAA/CAAAAAAA	TTGGAATAACCAACG GCTC	TGTTCTGTGGTACCCT TTTC	59.9	846	INTRON	Ca_11808	--	--
Ca7_P1_28934315	Ca7	28934315	ATGT/AT	AACGTCGTTAAAAATT GAAAAATG	CACTCAAGCACACAAG ATGGA	57.4	635	INTERGENIC	--	--	--
Ca7_P1_28935886	Ca7	28935886	GTTATATCA/G	TGGAACCACTCCCTTA GACG	TCCATCATGGCAAGTT TTTCT	60.1	797	INTERGENIC	--	--	--
Ca7_P1_28936338	Ca7	28936338	TAAAAAA/TAA	TTCGGAATTCACCCGA TAAA	TAAAAGAGGGTGCAAG GTCC	58.1	866	INTERGENIC	--	--	--
Ca7_P1_28937372	Ca7	28937372	ATT/ATTTT	AACCTCATGTTCCCT TTCC	TGGGTCATGGCCATCT ATTT	60.2	702	INTERGENIC	--	--	--
Ca7_P1_28941166	Ca7	28941166	TAT/TATATACAAT	TCAACCACATGTGAAG ATGGA	TTGGCTCCCTACATT TTCTTC	60.0	752	INTERGENIC	--	--	--
Ca7_P1_28942484	Ca7	28942484	AATTA/AA	AGCTTGTAAGGTTTG GTGG	CAAGACCCGGTGAAT GAAGT	60.1	559	INTERGENIC	--	--	--
Ca7_P1_28944928	Ca7	28944928	T/TTAAAAATAA	TCATTAAAGCAAAGCC GTACAA	ATTATTTAATGCCCA CGCA	59.8	800	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_28948178	Ca7	28948178	CA/CAA	TTTGAATGATTTCCAT GTTGA	GGGTTCCCGTGCTTAA AGTT	58.0	499	INTERGENIC	--	--	--
Ca7_P1_28948282	Ca7	28948282	CAA/CA	CGAAAGCCAGTGGTTT GATT	ATTGCAAAATGGTGCAT GTGT	60.1	588	INTERGENIC	--	--	--
Ca7_P1_28948597	Ca7	28948597	TTATATATATAT/TTATATATAT	CGAAAGCCAGTGGTTT GATT	GCACATCACATGAACC GAAG	60.1	850	INTERGENIC	--	--	--
Ca7_P1_28949507	Ca7	28949507	TTATA/TTATATA	CCACCATTGGCATTCT TTCT	GCTGCTCAAATTCGAC AACA	59.9	599	INTERGENIC	--	--	--
Ca7_P1_28949788	Ca7	28949788	CACATA/CACATACTATGAAACATA	TCGTACGAAATGCAGA TTGG	GCTGCTCAAATTCGAC AACA	59.7	179	INTERGENIC	--	--	--
Ca7_P1_28950447	Ca7	28950447	TAG/TAGAG	TCTACGAATGACAAA GACCAA	TGAAAGGGCATGAGAA AAGG	57.4	617	INTERGENIC	--	--	--
Ca7_P1_28950702	Ca7	28950702	CTTTTTTT/CTTTTTTTTT	ATGTGCTGGGATACTG GTGG	TGAAAGGGCATGAGAA AAGG	60.8	188	INTERGENIC	--	--	--
Ca7_P1_28950829	Ca7	28950829	CTTTT/CTTTTT	ATGTGCTGGGATACTG GTGG	AGGTGGGAAGAGTT GGAGT	60.8	577	INTERGENIC	--	--	--
Ca7_P1_28951263	Ca7	28951263	ACCCC/ACC	ACTCCAACCTCTTCCC ACCT	TTTGGCAACACAAAGC AAAG	60.0	108	INTERGENIC	--	--	--
Ca7_P1_28959437	Ca7	28959437	A/AC	GGAGTAAGCTAACCCG GAGA	TGTTCCCCAACATT CATT	58.4	156	DRR	Ca_11807	--	--
Ca7_P1_28963500	Ca7	28963500	GTA/GTATA	ATAAGCTCGAGGCACA TGCT	TGGTGTTTGTCCAAC TTGC	60.0	680	INTERGENIC	--	--	--
Ca7_P1_28965770	Ca7	28965770	A/ATT	GCCTCATTTGTGTGGT TGTG	GGCATTGTCATCAAAA TAATTG	60.0	906	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_28966007	Ca7	28966007	CTTTTTTTTT/CTTTTTTTTT	TGGCTCTATTGTTAATT GTTGGA	TTCCCTGCCAAATAA GTTGA	58.7	924	INTERGENIC	--	--	--
Ca7_P1_28968258	Ca7	28968258	CAA/CA	CAACCACTTTAAATGA CCACAAA	TCAAATTTGCACCATC AAGC	59.0	565	INTERGENIC	--	--	--
Ca7_P1_28969545	Ca7	28969545	TAAAAA/TAAAAA	TTATCCAGTTGCAAAA CCCC	TGTGGGAGTTTTGTT GTTGTT	59.8	912	DRR	Ca_11806	C	--
Ca7_P1_28979318	Ca7	28979318	TA/TATATTCAACA	TTCTGGCCCGTTAGCA TTAC	CTCAGCCTTCCACCA AATA	60.1	453	DRR	Ca_11805	C	--
Ca7_P1_28979986	Ca7	28979986	GAAAAAA/GAAAAAA	TATTTGGTGGGAAGGC TGAG	CGTCTGATGCTTTCGT TTGA	60.1	515	DRR	Ca_11805	C	--
Ca7_P1_28990101	Ca7	28990101	GTAAATAAATAAATAAATAA/GT AAATAAATAAATAAATAA	TCCTCCAATTCGATT CAAC	TGACAAACACCTGTGA GGCT	59.9	655	INTRON	Ca_11805	C	--
Ca7_P1_28990697	Ca7	28990697	TAAAAA/TAAAAA	CAAGCCTCGAGCCAAG TAGA	TACTGCAACGCCTCAA ACAG	60.7	340	INTRON	Ca_11805	C	--
Ca7_P1_28999036	Ca7	28999036	CAAAAAAA/CAAAAAAA	CGTGGACAAAGATCGT GATG	ATTCCCCGTGGTCTTG AATA	60.1	447	INTERGENIC	--	--	--
Ca7_P1_29001021	Ca7	29001021	TTAGT/TT	TTCCCTTTCGAATACAA AATTAGTG	GACGATGGAATGCAA GTCAA	59.8	369	INTERGENIC	--	--	--
Ca7_P1_29001169	Ca7	29001169	TTATATATAT/TTAT	TTGACTTGCATTCCAT CGTC	ATGCTTCCTCCCGAAA ATCT	59.7	569	INTERGENIC	--	--	--
Ca7_P1_29001394	Ca7	29001394	TA/TATAAATATATTTATGA	TTGACTTGCATTCCAT CGTC	ATGCTTCCTCCCGAAA ATCT	59.7	569	INTERGENIC	--	--	--
Ca7_P1_29001560	Ca7	29001560	ATTTTT/ATTTT	ACTTGCATTCCATCGT CCAT	ATGCTTCCTCCCGAAA ATCT	60.3	566	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_29003900	Ca7	29003900	ATTT/ATTTTT	TCTTCGAGATGACGAC GATG	TCACAATCCCTGCAAT TCAA	59.9	820	INTRON	Ca_11804	UR	HB-other
Ca7_P1_29004077	Ca7	29004077	ATGA/ATGACACTGA	CGTCGGTGGTCAGGTA AAAT	TCACAATCCCTGCAAT TCAA	59.9	681	INTRON	Ca_11804	UR	HB-other
Ca7_P1_29005930	Ca7	29005930	ATTTTT/ATTTT	TTTCTCATCCTCCTG GTTG	TGAAAGAGCATCAAC ACCA	60.0	478	INTRON	Ca_11804	UR	HB-other
Ca7_P1_29006131	Ca7	29006131	AATATA/AATA	TTTCTCATCCTCCTG GTTG	TGAGGGATCAACTTCC CTTG	60.0	752	INTRON	Ca_11804	UR	HB-other
Ca7_P1_29009005	Ca7	29009005	ATTTTT/ATTTTT	GCTGTGGTTTATTGCC AGGT	GTTTAGCCTGTGCACC AACA	60.0	731	INTRON	Ca_11804	UR	HB-other
Ca7_P1_29009463	Ca7	29009463	TG/T	TGTTGGTGCACAGGCT AAAC	GGTTCGTGTTGCTGCT GATA	59.8	303	DRR	Ca_11804	UR	HB-other
Ca7_P1_29010477	Ca7	29010477	CAAAAA/CAAAAA	TTTTCATCGGGTCACA GTCA	TGGATATGACCCGTGC TTTT	60.1	738	DRR	Ca_11804	UR	HB-other
Ca7_P1_29010618	Ca7	29010618	ACTTTATATGAAGTCCAGGCTTTATAT /ACTTTATAT	TTTTCATCGGGTCACA GTCA	TGGATATGACCCGTGC TTTT	60.1	738	DRR	Ca_11804	UR	HB-other
Ca7_P1_29010877	Ca7	29010877	CATTACTGAAATTACTGAA/CATTACT GAA	CAAAATGTGAGGCAAA AGCA	GGCATCGATTCTTTTT GACG	59.8	975	DRR	Ca_11804	UR	HB-other
Ca7_P1_29012088	Ca7	29012088	TAA/TAAA	TTTGCCCTCAAGATT GTTT	ATTGGTGGCTCATGAC CTGT	60.1	102	INTRON	Ca_11803	F	--
Ca7_P1_29012275	Ca7	29012275	TAAAAAAAAAAAAAAAA/AAAAAAAAA AAA	TTTGCCCTCAAGATT GTTT	TGATGCCAAGGAAAA GTTT	60.1	735	INTRON	Ca_11803	F	--
Ca7_P1_29014754	Ca7	29014754	GTTTTTTTTT/GTTTTTTTTTTT	TGTCATAAGCCAATGG GACA	GAAGGGAGTGTATG CCAAA	59.9	273	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_29014917	Ca7	29014917	TCCC/T	TTTGGCATACACTCCC CTTC	GGGAGCTGATGAGTG TGGTT	59.9	225	INTERGENIC	--	--	--
Ca7_P1_29015639	Ca7	29015639	C/CA	AAAAGGTCGTCAAGTG TTGGA	TAGGAGGGATGGTAG GGAGG	59.6	550	INTERGENIC	--	--	--
Ca7_P1_29016933	Ca7	29016933	T/TCITTAATCA	TTGGACAACGTTTGCA CATT	CCTTCTGGACAAGCTG ATGA	60.0	720	INTERGENIC	--	--	--
Ca7_P1_29020483	Ca7	29020483	TATAAA/TATAAATAAA	TGGTATAAGCATTTCGG TAGACG	CAACGCTAAGTTTGTA AGCAACA	59.2	982	INTERGENIC	--	--	--
Ca7_P1_29020673	Ca7	29020673	ATATAT/ATATATGTATAT	CAAAGAGTTTATGTG ATTCATGTTT	TTTAAAGGTTCCAGTT GCGG	57.9	933	INTERGENIC	--	--	--
Ca7_P1_29020810	Ca7	29020810	CTATAT/CTAT	TGTTGAATAAGACTTC GATTTTAGTTT	TTTAAAGGTTCCAGTT GCGG	58.1	561	INTERGENIC	--	--	--
Ca7_P1_29021071	Ca7	29021071	TTA/TTATA	TTAGCCAAAATTGTGG TCCC	TCATGACGTAGTCATC GCGT	59.8	209	INTERGENIC	--	--	--
Ca7_P1_29021112	Ca7	29021112	TAAAAAAAAAAAAA/TAAAAAAA	GTCCGCAACTGGAACC TTTA	TCATGACGTAGTCATC GCGT	60.1	148	INTERGENIC	--	--	--
Ca7_P1_29021165	Ca7	29021165	TGG/TGGG	GTCCGCAACTGGAACC TTTA	TCATGACGTAGTCATC GCGT	60.1	148	INTERGENIC	--	--	--
Ca7_P1_29021183	Ca7	29021183	TTATATATATA/TTATATATA	GTCCGCAACTGGAACC TTTA	TCATGACGTAGTCATC GCGT	60.1	148	INTERGENIC	--	--	--
Ca7_P1_29022359	Ca7	29022359	TTATTAAT/TTATTAATTAATATTA AT	CCAATTATCAATTTTAA TTCCGGT	TCACCCGAAACATCTC CTTC	59.4	499	INTERGENIC	--	--	--
Ca7_P1_29022459	Ca7	29022459	TAAAAAAA/TAAAAAAA	TTAGAACAATGCGACG TGAA	TCACCCGAAACATCTC CTTC	57.9	261	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_29022601	Ca7	29022601	AGG/AG	TTAGAACAATGCGACG TGAA	TCACCCGAACATCTC CTTC	57.9	261	INTERGENIC	--	--	--
Ca7_P1_29023514	Ca7	29023514	AAGA/AA	GGACCACGTGTGTATT TAGCC	TCACCAGCAATGATCT GAGC	59.4	482	INTERGENIC	--	--	--
Ca7_P1_29030314	Ca7	29030314	TC/T	CTGTCTTGGCACACCT CAAA	ACCCAGTAACAATGG CAAA	59.9	192	DRR	Ca_11801	--	--
Ca7_P1_29037959	Ca7	29037959	ATTTT/ATTTTTT	GGATGTATCACAGCTG CCAA	TTTATTTGAGCACATTA AGATTTCG	59.7	528	DRR	Ca_11800	--	--
Ca7_P1_29044491	Ca7	29044491	ATTTTTTTTTT/ATTTTTTTTT	TCCTCACGAGATGATT CGTTT	TTTGTGATTTTGTGT GATGTTG	59.7	264	INTERGENIC	--	--	--
Ca7_P1_29061552	Ca7	29061552	AAAACAAA/AAAA	CGCTTCTCAGCAATTT TGATT	TGCTGTCGGCATGTAC AGAT	59.5	185	INTERGENIC	--	--	--
Ca7_P1_29065846	Ca7	29065846	TTTTTCTA/T	TCATCAATGCTCCCAT GAAA	CTTTTATCACGTCTC GCCC	60.0	908	INTERGENIC	--	--	--
Ca7_P1_29067406	Ca7	29067406	ATTAAATTTA/ATTAAATTTAAATT TA	AGCTTTTGGCTGACAT TGTG	AAAATACTGCGTGGCC TTTG	58.9	522	INTERGENIC	--	--	--
Ca7_P1_29069731	Ca7	29069731	AG/A	AGTCTTTCCCTTCCCT CCAA	CATACACCACCAAATC CACG	60.0	369	DRR	Ca_11799	--	--
Ca7_P1_29069848	Ca7	29069848	AGG/AG	AGTCTTTCCCTTCCCT CCAA	CAACATGGCTTCCAAC CTCT	60.0	875	DRR	Ca_11799	--	--
Ca7_P1_29069920	Ca7	29069920	ATAT/A	AGTCTTTCCCTTCCCT CCAA	CAACATGGCTTCCAAC CTCT	60.0	875	DRR	Ca_11799	--	--
Ca7_P1_29070532	Ca7	29070532	TATTAGATACCAT/TAT	TCATTACCTCCTTGG CAAC	AAACACCGCAAGGATT GTTT	59.9	265	INTRON	Ca_11799	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_29076973	Ca7	29076973	G/GT	ATACGCCAAAGCAAAA ATGG	TCGCACAAGTGTAAA TTCTCAA	60.0	719	INTERGENIC	--	--	--
Ca7_P1_29080761	Ca7	29080761	GAAATAAAAT/GAAATAAAATAAAAT	TCTGTTGGGAAAACT TCGG	TGTCATTTTGCCGTTT CAGT	60.1	523	INTERGENIC	--	--	--
Ca7_P1_29085797	Ca7	29085797	TAAAAA/TAAAAAAA	CCAAATTATCCTCTCTT TTTCCC	GAATTGGACCGAATGC AAGT	59.4	656	INTERGENIC	--	--	--
Ca7_P1_29090138	Ca7	29090138	GTATA/GTA	TGTCCTGTTTGTGAAA CTTGC	ATCAAGTCAAACTCAC CACAAA	58.8	745	INTERGENIC	--	--	--
Ca7_P1_29090772	Ca7	29090772	ATTT/ATT	ATTTGTGGTGAGTTTG ACTTGA	ACAGTCGACAATGCCA ATGA	57.2	481	INTERGENIC	--	--	--
Ca7_P1_29091066	Ca7	29091066	GGTG/GGTGTG	CTCATTGGCATTGTCG ACTG	ATCCATACCGCACCCAC AAAT	60.3	315	INTERGENIC	--	--	--
Ca7_P1_29093057	Ca7	29093057	GCACAC/GCAC	AACATTTTCCTTTGCTT CCG	ATGTTTGAAAGTGGA AGGG	59.2	610	INTERGENIC	--	--	--
Ca7_P1_29095425	Ca7	29095425	CAAAA/CAAAAA	CGATTCCACCTCAC ACAC	TTGCGGACAAATAGAT TCAATG	60.0	727	INTERGENIC	--	--	--
Ca7_P1_29095709	Ca7	29095709	GTATATATATATA/GTATATATATAT A	CATTGAATCTATTGTG CGCAA	CTTTGGTAGGACAGCA AAAGC	60.0	390	INTERGENIC	--	--	--
Ca7_P1_29095794	Ca7	29095794	ATTTTTTTTT/ATTTTTTTT	CATTGAATCTATTGTG CGCAA	CTTTGGTAGGACAGCA AAAGC	60.0	390	INTERGENIC	--	--	--
Ca7_P1_29099184	Ca7	29099184	AT/ATGAAAGATTTTTT	GGTACCTTCATGAATA ATGCCA	TGCATGGTGATCTGGT TCAT	58.8	777	INTERGENIC	--	--	--
Ca7_P1_29103847	Ca7	29103847	TGT/TGTATCGGT	ACATTGACACGTCAAC ACCG	GTGGAGGCCTGAAAT CAAAA	60.5	255	INTRON	Ca_11798	Q	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_29104256	Ca7	29104256	AC/ACTC	TTTGTATTTAGGCCT CCAC	TCGTATTGATGCAGCT CCTG	60.1	573	INTRON	Ca_11798	Q	--
Ca7_P1_29106669	Ca7	29106669	TAA/TA	TAGATGAAGCAACGGC CTCT	CAAAATTGGAGCCCAT GTCT	60.0	773	DRR	Ca_11797	A	--
Ca7_P1_29107500	Ca7	29107500	CAAA/CA	TCTTGCCTCATTTTGC CTT	GCAATTCAGTGTTCTT GCGA	59.8	520	DRR	Ca_11798	Q	--
Ca7_P1_29118994	Ca7	29118994	CATTTAATTTAATTTAATTT/CATTTAA TTTAATTTAATTTAATTT	TTTAACCTCTCCGCGG ATTC	CTCCCAACGCTCTCG TAAG	59.3	490	INTRON	Ca_11796	FE	--
Ca7_P1_29121824	Ca7	29121824	GATAAATAAATAATAA/GATAAATAAA TAAATAATAA	TTAGTGCCACAAATG CGAG	TTGCCACGTCAATGAA AGAG	59.9	492	INTRON	Ca_11795	S	--
Ca7_P1_29127121	Ca7	29127121	GTTTT/GTTTTT	TGGAGTGCATGGTTGT GATT	CGGAAGTTCCTTGAC TGAG	60.0	760	INTRON	Ca_11794	R	--
Ca7_P1_29127420	Ca7	29127420	CT/CTTT	GCAGTGCCAGACCCT CATT	CACAACCACAAAGATG GCAC	60.1	460	INTRON	Ca_11794	R	--
Ca7_P1_29128437	Ca7	29128437	TC/T	TCTATAATCCCGTGT GCG	ACCTGCAATTTGGAT GAGC	58.7	599	DRR	Ca_11794	R	--
Ca7_P1_29131215	Ca7	29131215	A/AGC	CCACCAACAGGATATC CACC	AACCTACCATGCTTCC AACG	60.1	757	INTRON	Ca_11793	--	--
Ca7_P1_29132565	Ca7	29132565	CTTTTTTTTTTT/CTTTTTTTTTT	ACAGGGCAAGCATTTA TCCA	TTCTTTATTTCCAGCA CGGC	60.5	383	DRR	Ca_11793	--	--
Ca7_P1_29133168	Ca7	29133168	CAAA/CAAAAAA	AGAGCAGCTTTTCCC CATT	GAAGAAAAGTATTGCA CGTTTGAA	60.2	720	DRR	Ca_11793	--	--
Ca7_P1_29135010	Ca7	29135010	TAAAAAATAA/TAAAAAATAA	AATGAAATTGTGTGGC ATAACA	TTGTGAAATCGTCA AGTG	58.0	279	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_29135633	Ca7	29135633	ATTAATTTTAATTTAATT/ATTAATTT AATTTTAATTTAATT	CGACGATTTCGACAAT CAA	AAATGCAACCCAAT CACC	59.7	955	INTERGENIC	--	--	--
Ca7_P1_29158383	Ca7	29158383	ATTTTTTTTT/ATTTTTTTTTTT	GTGCCATGCTTGGACC TAAT	ACAAAAATTGGGTCT CGGC	60.0	460	INTRON	Ca_11791	--	--
Ca7_P1_29159923	Ca7	29159923	ATACTCTATTACTCTAT/ATACTCTAT	TTCTCAACTTCACCAC GCTG	AGAATTGGAGCCTCGA GTGA	60.0	700	INTRON	Ca_11791	--	--
Ca7_P1_29164762	Ca7	29164762	CAAT/CAATAAAAT	ATGGTCATGTCAAATG GACG	GGAAAAAGTGGATTGG GGTT	59.2	610	INTERGENIC	--	--	--
Ca7_P1_29172192	Ca7	29172192	GAAAAA/GAAAAA	CACCACCACTACCCCA TTTC	TGCTTGTTCTCACTT GTGC	60.1	628	INTERGENIC	--	--	--
Ca7_P1_29177568	Ca7	29177568	CAAAA/CAAA	GCTTATTCCTGGTCCC CATT	TGATACAAAGCAACCC AGCA	60.2	381	INTRON	Ca_11788	--	--
Ca7_P1_29179462	Ca7	29179462	CTTT/CTT	CTGAAGGTGTCCTGG TGTT	GCGGCTACCAAACTG ACTC	60.0	489	DRR	Ca_11788	--	--
Ca7_P1_29180575	Ca7	29180575	TAA/TA	TCGTCTTGGTGTCCG TTTT	TTCGATTTTGATTTCG AGGG	60.5	598	DRR	Ca_11788	--	--
Ca7_P1_29180606	Ca7	29180606	TTTTCTTTCTTTCTTTCTTT/TTTT CTTTCTTTCTTTCTT	TCGTCTTGGTGTCCG TTTT	TTCGATTTTGATTTCG AGGG	60.5	598	DRR	Ca_11788	--	--
Ca7_P1_29191236	Ca7	29191236	GAAA/GAA	TACCGGAAAACCTCAC GGAC	GAACCAATGAGCATGA GCAA	60.0	611	DRR	Ca_11786	J	--
Ca7_P1_29196375	Ca7	29196375	CTT/CTTT	CTTCTCGGAACTGAC AGGG	CCACATGAGCGTGAAC AATC	59.8	359	DRR	Ca_11785	--	--
Ca7_P1_29196780	Ca7	29196780	TC/T	GATTGTTACGCTCAT GTGG	GTGTCATGCACACC TTGT	60.1	672	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_29199550	Ca7	29199550	TTGGTG/TTG	TCTTGCAATTTGTTGAG CCTG	GTATGCAGGACGATTG GGTT	60.0	538	INTERGENIC	--	--	--
Ca7_P1_29208189	Ca7	29208189	CTTT/CTT	AAACTTTCACGACCCT CCCT	CACCGGGTTACAAATT CTGC	60.0	307	INTERGENIC	--	--	--
Ca7_P1_29216795	Ca7	29216795	AGAGTG/AGAGTGAGTG	TGTTTATGTCTATTTTG CCCGA	GTCGCATGCTCAAGAA CAAA	59.5	715	DRR	Ca_11784	--	--
Ca7_P1_29217186	Ca7	29217186	CTTT/CTT	ATCCTCTCCACCATAT CCCC	TTGACAAGACACCTC TGCG	60.0	183	DRR	Ca_11784	--	--
Ca7_P1_29219777	Ca7	29219777	CT/CTCACGAT	TGAAGTTGTAGGGCTT GCCT	TGCTTAGAGCCTTTTG GCAT	59.9	588	CDS (large-effect mutations)	Ca_11784	--	--
Ca7_P1_29220934	Ca7	29220934	CTTCACTAAGTAGT/CT	ATACGACCAGTCCCG TTGC	TTGTTCTTGAAATCGG GAGG	60.0	645	INTRON	Ca_11784	--	--
Ca7_P1_29221676	Ca7	29221676	AAATAATAATAATAATAATAATA/A AATAATAATAATAATAATAATAATA	TATCGCCAATCTCCCA TCTC	ATTACCAACGCAGCAG GTTT	60.0	229	DRR	Ca_11783	C	--
Ca7_P1_29221906	Ca7	29221906	CTTTTT/CTT	TATCGCCAATCTCCCA TCTC	CTCGATGACAGTGGCA AAAA	60.0	429	DRR	Ca_11783	C	--
Ca7_P1_29222127	Ca7	29222127	AAG/A	GAACCTGCTGCGTTGG TAAT	AAGCCCCCTCCACTTT ACTC	60.1	697	DRR	Ca_11783	C	--
Ca7_P1_29223048	Ca7	29223048	AAAGT/AAAGTAAGT	GAGAGAGAAGCCCCTC AAAAA	CTTGCCACCTCACATT CTCA	59.9	414	DRR	Ca_11783	C	--
Ca7_P1_29223450	Ca7	29223450	CA/CAA	AGGCCTCAAGAAGGTT GTGA	ATTTTCATGGGGTGGAA AACA	59.8	414	DRR	Ca_11783	C	--
Ca7_P1_29226750	Ca7	29226750	CAAAAAAAAA/CAAAAAAAAAA	TTCCATCTGGAAGGCA TCTC	TCCTGTTTGAGGGGGT GTAA	60.2	577	INTRON	Ca_11783	C	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_29226958	Ca7	29226958	AATTGATA/AATTGATATTGATA	TTCCATCTGGAAGCA TCTC	TCCTGTTTGAGGGGT GTAA	60.2	577	INTRON	Ca_11783	C	--
Ca7_P1_29227721	Ca7	29227721	ACTCT/ACTCTCT	GGCTGTAACTTAGAT GCCCCA	AAAAATTGAAGGCTGA GAGAGA	59.2	525	INTERGENIC	--	--	--
Ca7_P1_29235238	Ca7	29235238	A/AC	GGCGAGTGAACAAACA CAAA	AGTGCTTGTGTTGCT CGTG	59.7	680	DRR	Ca_11780	R	--
Ca7_P1_29240073	Ca7	29240073	CAAA/CAAAAAA	GCAGAGGTCCGAGAG AAATG	GCATCCACTACCGCTG AAAT	60.0	583	INTERGENIC	--	--	--
Ca7_P1_29243925	Ca7	29243925	GTATATATATATATA/GTATATATATAT ATATA	TTCGACAATGTGTTT TCCA	CCCCAATCTGTAAGTC AATGC	59.9	842	INTERGENIC	--	--	--
Ca7_P1_29244180	Ca7	29244180	AATC/AATCCATTGACACAAATCCATC	TGCGCAATCAATGTTT TTGT	CCCCAATCTGTAAGTC AATGC	60.1	596	INTERGENIC	--	--	--
Ca7_P1_29245136	Ca7	29245136	ATTTTTTTTT/ATTTTTTTTTTT	CTTCTTGAAAGGCAAG GGTG	CATGCTGGAATTGCT GAAA	59.8	884	INTERGENIC	--	--	--
Ca7_P1_29247990	Ca7	29247990	GTTT/GTTTACTTACAACTTTTT	ATTTGTGCGCTTTTCAT GTG	CCAAATCTCGCTTTTG TGGT	59.7	600	INTERGENIC	--	--	--
Ca7_P1_29253954	Ca7	29253954	CTTTT/CTTTTT	CGAGAAGACGACGCAC AATA	CCACCTTTGCCTTTCA AAAA	60.0	807	INTERGENIC	--	--	--
Ca7_P1_29254042	Ca7	29254042	CGT/CGTTGT	CGAGAAGACGACGCAC AATA	CCACCTTTGCCTTTCA AAAA	60.0	807	INTERGENIC	--	--	--
Ca7_P1_29256441	Ca7	29256441	AAA/AAATAATAA	TGTTTTCGGACAAAATT AGGTG	ACCCGCACCCCTTTACT TTTT	59.0	306	INTERGENIC	--	--	--
Ca7_P1_29258067	Ca7	29258067	AATAT/AAT	CTCAGGGAGGGTATTC CACA	GTTGGGACATGCAATT AACG	59.9	356	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_29259931	Ca7	29259931	GTAAT/GT	TTTGACAAGGGAATA CATTGCT	CAAACGCTGCTGACAC ATCT	59.9	481	INTERGENIC	--	--	--
Ca7_P1_2926004	Ca7	2926004	GTTTTTTTTT/GTTTTTTTTT	CCTATAGGCCACGTT TTCA	ATGGGGTTTAAGAGAA GGGG	60.0	305	INTERGENIC	--	--	--
Ca7_P1_29260204	Ca7	29260204	AATTATTATTATTATTAT/AATTATTATT ATTAT	GTTCTCTGGGGAAGTG ACCA	GTTCTTCGGTTCATC CTCA	60.1	570	INTERGENIC	--	--	--
Ca7_P1_29260274	Ca7	29260274	TAAAAA/TAAAA	GTTCTCTGGGGAAGTG ACCA	GTTCTTCGGTTCATC CTCA	60.1	570	INTERGENIC	--	--	--
Ca7_P1_29264126	Ca7	29264126	AATATATATA/AATATA	TGGGAATGTAAAAGTT GCCC	ACCGGGAGCATCAACA AATA	59.8	684	INTRON	Ca_11779	--	C2H2
Ca7_P1_29265546	Ca7	29265546	T/TA	ATTGTACCTTCGCGAA CACC	TAGCAATGTCACGAAA TGCC	60.0	707	INTRON	Ca_11779	--	C2H2
Ca7_P1_29269071	Ca7	29269071	GAIAIAIAIAIAIAIAIAIAIAIAIAIAIAIA A	AGCCCCGAAACCTGTGA GTTA	GATCCGCAATCATGGA GTTT	59.7	264	INTERGENIC	--	--	--
Ca7_P1_29280548	Ca7	29280548	ATATTATTATTATTATTATTATTATTATTAT TATT/ATATTATTATTATTATTATTATTATTA TTATT	TTGTTTGAAAAACCAAT ATGACA	TTGCAACTACCAAAAT AAACAATTTT	57.2	875	INTERGENIC	--	--	--
Ca7_P1_29292555	Ca7	29292555	GCCC/G	TTTGCAGAAAATGTGT TGGA	CATTGTCTGCCATCA TTTC	60.1	952	DRR	Ca_11778	--	C2H2
Ca7_P1_29292808	Ca7	29292808	CGTAATTT/C	CGATGGACCTTAACGG TATGT	TGTTTGCACCGTTGTT GTTT	58.8	585	DRR	Ca_11778	--	C2H2
Ca7_P1_29295447	Ca7	29295447	T/TTC	ATCCCATGCTTAACAC GACC	CGTCCAATCTATGTTG ACACC	59.8	382	INTERGENIC	--	--	--
Ca7_P1_29296655	Ca7	29296655	AATTATTATTATTAT/AATTATTATTATT ATTATTAT	TGCATGCTTCTAAGG GTATTTTC	AGGGAGCTGGTAGGG GATTA	59.9	837	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_29300637	Ca7	29300637	AATTAT/AATTATTAT	TGCAGTTAAAGATGCA ACGG	GCACCGACAGTCTTTC CAAT	59.9	313	INTRON	Ca_11777	--	C2H2
Ca7_P1_29308157	Ca7	29308157	TAAAAA/TAAAAAA	GAGACGTATTTCTGGAG ACGC	GTTGTGGGATGAACTG ACCC	59.8	935	INTERGENIC	--	--	--
Ca7_P1_29311915	Ca7	29311915	T/TA	TCATCGAAAACTTCAAA AATATGA	GATGCAGGTCATGAAA CCAA	59.2	494	INTERGENIC	--	--	--
Ca7_P1_29317955	Ca7	29317955	T/TTTCACTAA	TCCTCAAGCACCAATC AACA	ACAACTTCCTTCCCAC ATGC	60.2	702	INTERGENIC	--	--	--
Ca7_P1_29322502	Ca7	29322502	TATTTTGAT/TATTTTGATTTTGAT	AAACGCTCTTAAAAACA TTCTTCC	CTCGTACAATGGCCCA GATT	59.3	852	INTERGENIC	--	--	--
Ca7_P1_29324303	Ca7	29324303	TG/T	ACATATTTCTTGATGC GCC	TGGCAGATCTGACGAT TCAC	59.9	461	INTERGENIC	--	--	--
Ca7_P1_29324634	Ca7	29324634	TTT/TTTATT	TGGCAATGCCTACAA TTCA	TTTTTCCCATATTTT CGTTG	60.1	865	INTERGENIC	--	--	--
Ca7_P1_29326662	Ca7	29326662	CAAAAA/CAAA	AAGTCAACGGAATCTC ATCCA	GCAAAGCGATTAATGA CAGG	59.5	978	INTERGENIC	--	--	--
Ca7_P1_29334299	Ca7	29334299	ACATCATCA/ACATCATCATCATCA	AATCCCCACCTGGATA CCTC	GCTCGCTACGTACGAC AACA	60.0	609	INTERGENIC	--	--	--
Ca7_P1_29344358	Ca7	29344358	TTA/TTAGAGTATTTATA	TTATCATCATGTAAACCA TGTGTCTT	CACGCTCCCACTAATC TTACA	57.5	227	INTERGENIC	--	--	--
Ca7_P1_29345801	Ca7	29345801	A/ATATATC	TGGATGACAAGTGTTC TGGC	AAAAATGCATCTTCCC TTTTGA	59.5	946	INTERGENIC	--	--	--
Ca7_P1_29346372	Ca7	29346372	G/GC	CAAAAGGGAAGATGCA ATTTTT	TTTGCGGGATGAATTC TTTT	59.5	206	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_29347288	Ca7	29347288	CAAT/CAATTAAT	TTCAAATCCACGATTA GGGTG	CATCAGCTATGCCATC TCCA	59.8	829	INTERGENIC	--	--	--
Ca7_P1_29355247	Ca7	29355247	TAAA/TAAAAAAA	CAAAATGCAAGAATGTG ACATGA	GTAGGTCACAATGGGA GCGT	59.6	436	INTERGENIC	--	--	--
Ca7_P1_29357883	Ca7	29357883	TTTATT/TTT	ATGAATGATTGCGTCC ATGA	GGGACCACCGGTGTT ATTTA	59.9	517	INTERGENIC	--	--	--
Ca7_P1_29388652	Ca7	29388652	GTTTTT/GTTTT	AATAATTCTTCGGCAT GCAA	ACATCAGTCAAGCGCA CAAA	58.3	832	INTERGENIC	--	--	--
Ca7_P1_29391278	Ca7	29391278	ATATTATTATTATTATTATTATTAT TATT/ATATTATTATTATTATTATTA TTATTATTATTATTATTATT	TTGAATCGTGAGGGTG TTGA	AGTCACGACGAATGTC CTCA	60.1	601	INTERGENIC	--	--	--
Ca7_P1_29391786	Ca7	29391786	CACAAA/CA	TCAATTGAGGACATTC GTCG	GAGGGAAGATTCTCCA ACACA	59.6	421	INTERGENIC	--	--	--
Ca7_P1_29392132	Ca7	29392132	TAAAAAAA/TAAAAAAA	TCAATTGAGGACATTC GTCG	CGATTCGTATAATTC ACCCA	59.6	542	INTERGENIC	--	--	--
Ca7_P1_29398186	Ca7	29398186	ACT/ACTTCT	AACAACAAGCCTATCC GGTG	ACAATCATTTTGGCGT TGGT	60.0	238	INTERGENIC	--	--	--
Ca7_P1_29406257	Ca7	29406257	TATCAT/TAT	GGTTGTGTAGTTTTTC CCCAAA	CATCAGCTATGCCATC TCCA	60.1	819	INTERGENIC	--	--	--
Ca7_P1_29406668	Ca7	29406668	ATT/AT	AATTTGGTGCTCGTGG AGAT	ATCCAGCTGCTTTAC ATGC	59.6	247	INTERGENIC	--	--	--
Ca7_P1_29408521	Ca7	29408521	AATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTAT T/AATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTAT	TACTTGGTGGCAATGT CCAA	TGCATGCATGGAAAA TAACA	60.0	792	INTERGENIC	--	--	--
Ca7_P1_2940930	Ca7	2940930	AAATAATAATAATAATAATAATAAT AATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATAA TAATAATAATA	TCTTCAGACCAAAAAAT GGGC	TGCAAGTTTTCTGTC CAAA	60.1	581	DRR	Ca_03181	--	FAR1

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_29410137	Ca7	29410137	GTCT/GT	TTGTAGGGCGGATCTG GTTA	GGGCATTCTACATGC AGAT	60.5	541	INTERGENIC	--	--	--
Ca7_P1_29411556	Ca7	29411556	CTTAATT/CTT	GCCAGTGCATCGATAA GTGA	GCGAGCCCCATATGAT TTAG	59.8	316	INTERGENIC	--	--	--
Ca7_P1_29416457	Ca7	29416457	ACC/AC	AAAATCATTACTCACCA TAAGTGGAA	TGCTCTCTCTTCAA CAACT	59.3	436	INTERGENIC	--	--	--
Ca7_P1_29416537	Ca7	29416537	ATATAAATTATAAATTATAAATTAT/AT ATAAATTATAAATTATAAATTATAAATT AT	AAAATCATTACTCACCA TAAGTGGAA	TGCTCTCTCTTCAA CAACT	59.3	436	INTERGENIC	--	--	--
Ca7_P1_29418151	Ca7	29418151	GT/G	CATGTACACGTCACAT CGGA	TTGTAGGCTGGACATC ATGC	59.0	329	INTERGENIC	--	--	--
Ca7_P1_29419496	Ca7	29419496	CAAAA/CAA	TCCACAGCTTGTTAGG GCTT	TTGACGCCACTAAATT TCATC	59.9	371	INTERGENIC	--	--	--
Ca7_P1_29419985	Ca7	29419985	CT/CTT	AGAGCTCCGTCTATT TCCAA	TGTACACACGCACTTC CACA	58.1	728	INTERGENIC	--	--	--
Ca7_P1_29420026	Ca7	29420026	TGAG/TGAGAG	AGAGCTCCGTCTATT TCCAA	TGTACACACGCACTTC CACA	58.1	728	INTERGENIC	--	--	--
Ca7_P1_29428637	Ca7	29428637	ATT/AT	AATTGTACCGCCTATC GCAG	TACGTAATGCGTGTT GGGA	60.1	405	INTERGENIC	--	--	--
Ca7_P1_29441952	Ca7	29441952	GAA/GAAA	AATTTTGGATCGGTGG TTCA	GGCTTGTGAGGCCCTA CCTA	60.2	968	INTERGENIC	--	--	--
Ca7_P1_29445368	Ca7	29445368	AAAATTTAAATTTTAAATTTAAATT/AA AATTTAAATT	GCAGGGTGGATCAGG TTATG	ACAATTGTGAGGGT CCAC	60.3	478	DRR	Ca_11775	R	--
Ca7_P1_29446111	Ca7	29446111	CATT/CATTGATT	GTCTCCGCTCAATCAG AAGG	TCAATCCCAACATTATT TCGTG	60.0	763	DRR	Ca_11775	R	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_29446201	Ca7	29446201	ATTTTTTTTT/ATTTTTTTTTT	CGTTGCGCATGTGTA TTTG	TCATCCCAACATTAT TCGTG	61.1	639	DRR	Ca_11775	R	--
Ca7_P1_29446442	Ca7	29446442	ATTTTT/ATTTTT	CAAAACACGAAATA GTTGGG	GGATGAAGCATAA GGAGC	60.5	100	DRR	Ca_11775	R	--
Ca7_P1_29447392	Ca7	29447392	CTGT/CT	ATTGATTCGCCTCC TTGT	TGCTCTTTGAGGCT GACA	59.4	283	CDS (FRAME SHIFT)	Ca_11775	R	--
Ca7_P1_29452822	Ca7	29452822	G/GA	TGAGATGGGTGAGT GTCAA	AGGCATACTCATCC ACCG	60.1	837	INTRON	Ca_11774	--	--
Ca7_P1_29455909	Ca7	29455909	ATTTTT/ATTTTT	GCGCTATAGTTGTG CAAT	GCACAAAAACCCAC CTCT	60.1	304	DRR	Ca_11773	S	--
Ca7_P1_29456972	Ca7	29456972	ATTT/ATTTT	TTTCGGTTTTCAC GTC	TACCCCATGAGGA TTCG	59.9	606	DRR	Ca_11773	S	--
Ca7_P1_29458658	Ca7	29458658	GCA/GCAATCA	CACTGTGGTATGAC GAAG	GCCCTTTGATCATG ACTT	59.0	460	INTRON	Ca_11773	S	--
Ca7_P1_29460571	Ca7	29460571	GAAAAAAAA/GAAAAAAAA	GTGCTAAGCCTGAA CCCA	GATGAATTTGGGTT CCCT	60.2	660	INTERGENIC	--	--	--
Ca7_P1_29464224	Ca7	29464224	TAAAAATAAAAAATA AATAAAAAATAAAA	GCTAACCCTTTGCC ACAT	TGGGTGGACAACGA TTTT	60.0	143	DRR	Ca_11772	--	ERF
Ca7_P1_29464300	Ca7	29464300	ATTTTTTTTT/ATTTTTTTTTT	GCTAACCCTTTGCC ACAT	TGGGTGGACAACGA TTTT	60.0	143	DRR	Ca_11772	--	ERF
Ca7_P1_29465694	Ca7	29465694	GCTC/GCTCTC	AATCATTTTCACCC TGC	GGGATATGGTCTCG GTCA	59.8	807	DRR	Ca_11772	--	ERF
Ca7_P1_29476526	Ca7	29476526	CTTTTTTT/CTTTTTT	TTTTTATCAGCATC GAGCA	TGGGAAGCCAATACA ATCA	57.7	859	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_29476568	Ca7	29476568	GTATATATATATATATAT/GTATATA TATATAT	TGAAATTGTGTTTCA ATTGTTTG	TGATCCCTAAAATCA CAGCG	60.2	338	INTERGENIC	--	--	--
Ca7_P1_29486075	Ca7	29486075	AATATATATATATATATATATATATA TATATATAT/AATATATATATATATAT ATATATATATATATATATATATAT	GCGACATGTTTCAGGT TTTT	TTGAATTGAATGCGGG TTTT	60.0	302	DRR	Ca_11768	--	STAT
Ca7_P1_29486615	Ca7	29486615	TTATAT/TTAT	TTTTCGAGTTTCGAAT GGGT	GATGCGGCTGAGTTTA GGAG	59.5	445	DRR	Ca_11768	--	STAT
Ca7_P1_29489393	Ca7	29489393	C/CT	TCGACCGGTACTION CAAA	AAATGATAAGCCTCGT TGCG	59.1	280	INTERGENIC	--	--	--
Ca7_P1_29489604	Ca7	29489604	TA/T	GAATGGTTCAATAATG GCCG	TTACGCAAGTAAGTT AAACGC	60.2	716	INTERGENIC	--	--	--
Ca7_P1_29490907	Ca7	29490907	GAAAAAA/GAAAAA	TTCTCGCACACATTGA AAGG	GATGTATTTCCGGCAT CCAC	59.8	809	INTERGENIC	--	--	--
Ca7_P1_29493786	Ca7	29493786	C/CTTTAA	TTAACTCCATCCGAA GTGAA	AAATGGCCAACTCAAG AAAAA	57.4	491	INTERGENIC	--	--	--
Ca7_P1_29495736	Ca7	29495736	CTATA/CTA	TTTACGAGGACAACC CAAA	GGCTTGCAATTGAAAG AAAAA	60.3	435	INTERGENIC	--	--	--
Ca7_P1_29496210	Ca7	29496210	TG/T	TTTTTCTTTCAAATGCA AGCC	TGTGCTTCTGAGCTTC ATGG	59.4	300	INTERGENIC	--	--	--
Ca7_P1_29496441	Ca7	29496441	G/GAGTT	CCATGAAGCTCAGAAG CACA	TGATGATGCAAGAGA AGGG	60.1	564	INTERGENIC	--	--	--
Ca7_P1_29501182	Ca7	29501182	ATTT/ATTTT	CGGCTATCCTTTCATA ATTG	AATCCCCAAAAACAAA TCCC	58.7	262	INTERGENIC	--	--	--
Ca7_P1_29504977	Ca7	29504977	ATT/AT	GCGTTTTTATGGTTGC TGGT	AGCCTATGGTAGCGTG ATGC	60.0	696	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_29511189	Ca7	29511189	TTCT/TT	TGGCATGCTGAAAAAT CTTG	GAAACGGGAAAAACAA TTCG	59.8	590	INTERGENIC	--	--	--
Ca7_P1_29525851	Ca7	29525851	CTT/CTTAATT	ACAACCAATCTGGCGT AAGG	TTGCCACGACATTGA AAAA	60.0	683	INTERGENIC	--	--	--
Ca7_P1_29532781	Ca7	29532781	ATG/ATGCTG	CGACAATGAAACCACA ATGC	TAAAGCATCCCGATC TTGG	60.0	468	INTERGENIC	--	--	--
Ca7_P1_29535944	Ca7	29535944	CTT/CT	AGGTTGATCTGGACTG GTGG	TGGTTCACCCAATTCA GGTT	60.0	109	INTERGENIC	--	--	--
Ca7_P1_29537259	Ca7	29537259	T/TG	TTTGCACCACACCTTG GTTA	GAACAAAAAGGAAAGG GGAAA	60.0	528	INTERGENIC	--	--	--
Ca7_P1_29539194	Ca7	29539194	CTTTTTTTTT/CTTTTTTTTTT	TTTTGTGTTGGTTGCC TCTG	GCAATGCCATGGAGG TAAGT	59.7	811	INTERGENIC	--	--	--
Ca7_P1_29541178	Ca7	29541178	A/AG	AAGTGAACAAGCAAAA AGCCA	TCAGAATGCTGCCAAA AATG	59.9	282	INTERGENIC	--	--	--
Ca7_P1_29544225	Ca7	29544225	T/TTTATGCATACCAAAA	TACCCAATCCCCATCA AAAG	GATGCTGCAACTCCCA AAAT	59.6	264	INTERGENIC	--	--	--
Ca7_P1_29550695	Ca7	29550695	AT/A	AAGCATCCAATTTCG TCTG	AGAACTTGAGGCGAC CAGAA	60.1	466	DRR	Ca_11767	--	SBP
Ca7_P1_29552593	Ca7	29552593	TATTAATTA/TATTA	TTTGCACCACACCTTG GTTA	GCTTTTGAAGGGGATT ATGTAGG	60.0	586	INTERGENIC	--	--	--
Ca7_P1_29556187	Ca7	29556187	T/TA	GCATGGGCCATATTCT CAAT	CCCTTTTCAAGAACCT GCAC	59.8	601	INTERGENIC	--	--	--
Ca7_P1_29571633	Ca7	29571633	TTT/TTTCTT	ACGCGGGCCATAATCT AGT	CGGGCCAACATAGTA GGAGA	59.6	319	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_29572407	Ca7	29572407	GT/GTTT	CGTCCAAGACCATTCA ACCT	CGCTCCATTGCTTTT TTAC	60.0	324	INTERGENIC	--	--	--
Ca7_P1_29580185	Ca7	29580185	TAAAAA/TAAAAAA	GTTCACACGCTAGGC CAAA	TCATGTGCGTTTGACT GATG	59.6	537	INTERGENIC	--	--	--
Ca7_P1_29582004	Ca7	29582004	AA/AATAATA	GCAATGTGATTTTCATT CGTGA	AGCCCAATCTTTTGGT TTCA	59.5	297	INTERGENIC	--	--	--
Ca7_P1_29582152	Ca7	29582152	GAGTCTCATTG/G	TGAAACCAAGATTG GGCT	CCAAATTAATGGTCAC ACACAA	59.5	337	INTERGENIC	--	--	--
Ca7_P1_29582896	Ca7	29582896	ATTTTTTT/ATTTTTTTTT	ATGGCTAAATAACACC CGCA	TAACCAAGGTGTGGTG CAAA	60.3	377	INTERGENIC	--	--	--
Ca7_P1_29584247	Ca7	29584247	T/TA	GGTATGAAGGTGCAAT GGCT	TGAGTCGAATGTGTT CCGA	60.0	411	INTERGENIC	--	--	--
Ca7_P1_29584512	Ca7	29584512	ATTTTT/ATTTTTTTTT	GGTATGAAGGTGCAAT GGCT	TGAAGCTCAATTCAT TGGAGA	60.0	771	INTERGENIC	--	--	--
Ca7_P1_29584732	Ca7	29584732	CAAAAAA/CAAAAAAA	TCGGAAACACATTGCA CTCA	TTTGCGCACAAATCA ATGG	60.2	648	INTERGENIC	--	--	--
Ca7_P1_29587396	Ca7	29587396	CAAAAAAAAA/CAAAAAAAAA	CCGACATCAAGTTAGT ATGTAATGC	TGGTGATGGAGACAAC ATGG	59.1	737	INTERGENIC	--	--	--
Ca7_P1_29593997	Ca7	29593997	T/TTA	TGCCAATATGAAGGTG CAAA	AAATGGCGAATATAC CCAAAA	60.1	386	INTERGENIC	--	--	--
Ca7_P1_29595027	Ca7	29595027	AAAGAAGAAGAAGAAGAAGAA/A AAGAAGAAGAAGAAGAA	TCCAAGTGGTGAAAA GTGTG	CAACCTTGGCAAAGG AGAA	59.5	254	INTERGENIC	--	--	--
Ca7_P1_29599245	Ca7	29599245	ATATT/ATATTATT	TTTTTGTCTCGCACTT CTCAA	GGCTGGAAGGACAAC ATAGG	60.0	902	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_29599973	Ca7	29599973	TAAAAAAAAA/TAAAAAA	CCTATGTTGCTCTCC AGCC	GGCTGCATCTCAGTT TGTC	59.6	428	INTERGENIC	--	--	--
Ca7_P1_29603429	Ca7	29603429	GAGAAGAAGAAGA/GAGAAGA AAGAAGAAGA	GCCGCGTACTTACAA TCAT	TGGCACAGGTTGTATT GTGG	60.0	638	INTERGENIC	--	--	--
Ca7_P1_29609973	Ca7	29609973	TAAAAAAAAA/TAAAAAA	AATCACATTCAACTGC CGTG	TGAGTTAAGCCCGCT AGAA	59.6	702	DRR	Ca_11764	--	--
Ca7_P1_29610103	Ca7	29610103	ATTTTT/ATTTTTTT	AACAGAAAGAAGCCG TTTG	TGAGTTAAGCCCGCT AGAA	59.4	134	DRR	Ca_11764	--	--
Ca7_P1_29615212	Ca7	29615212	ATTTT/ATTTT	TGCCAATTCACAATG AAAA	AGTGAAACCAACGCCA AAAC	59.9	474	INTERGENIC	--	--	--
Ca7_P1_29615433	Ca7	29615433	AA/AATCGATCTAACTCGA	TGCCAATTCACAATG AAAA	AGTGAAACCAACGCCA AAAC	59.9	474	INTERGENIC	--	--	--
Ca7_P1_29615700	Ca7	29615700	TA/TAA	GGCGTTGGTTCACTC AAAT	ATGAAGCTTACGGCCA TCAC	60.0	277	INTERGENIC	--	--	--
Ca7_P1_29616903	Ca7	29616903	ATTTTTTTT/ATTTTTTTT	GGGGTGTTACACTGA GGCA	TCGGAGAAAAATAGGA GCAAA	61.0	551	INTERGENIC	--	--	--
Ca7_P1_29617184	Ca7	29617184	TTTTTTATTTTTATTT/TTTTTTATT TTTTATTTTTATTT	TTTGCTCCTATTTTCT CCGA	GTAAGTCATGCCATAG GCCC	59.0	378	INTERGENIC	--	--	--
Ca7_P1_29631484	Ca7	29631484	GTTTT/GTTTTT	CACATTTCCGCATTTT CCAA	TCAACGAATGTTGGTC CACT	60.0	702	INTERGENIC	--	--	--
Ca7_P1_29636982	Ca7	29636982	CT/CTCTTTAT	TCCCCAGCAAAATCTT ATCG	GGAATAGCATCGCCAC AAAT	60.0	627	INTRON	Ca_11761	--	NAC
Ca7_P1_29645650	Ca7	29645650	ATA/ATATAAATCTTA	GCCTCATCTACGATTA CGTCG	CTTGCAAGCATTGG ATCA	59.7	693	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_29645891	Ca7	29645891	CAA/CAAA	GAAAGCGAGAAAGAGG GAAAA	CTTGCAAAGCATTGG ATCA	60.0	483	INTERGENIC	--	--	--
Ca7_P1_29648197	Ca7	29648197	TAAA/TAA	AAAAATTATCTCCTCTC AAATTCACCTG	TTTGGTTTTTGGGGTG TGTT	59.5	616	INTERGENIC	--	--	--
Ca7_P1_29648377	Ca7	29648377	ATATTAT/ATATTATTAT	AAAAATTATCTCCTCTC AAATTCACCTG	TTTGGTTTTTGGGGTG TGTT	59.5	616	INTERGENIC	--	--	--
Ca7_P1_29665137	Ca7	29665137	CAAAAAAAAAAAAA/CAAAAAAAAAAA	TCTTCTTTGCCTTTTGT GCC	CGCATCGTCTCTTCT TGAT	60.4	832	INTRON	Ca_11758	--	NF-YC
Ca7_P1_29672845	Ca7	29672845	AA/AATA	TTTCTCAATTACGGGA GCATC	TCATCAAATTCGTAAC GCAAA	59.2	834	DRR	Ca_11757	P	MIKC
Ca7_P1_29673545	Ca7	29673545	TTA/TTAAATA	AAAGGACCAAGTCGGA AAAA	GGCAATAAGGGCAA GAAGA	58.7	341	DRR	Ca_11757	P	MIKC
Ca7_P1_29687344	Ca7	29687344	TA/T	CCATGTTTGGTTGCCT TTTT	TAAGGCTGGTTGGAGA TGCT	59.8	671	INTRON	Ca_11755	--	--
Ca7_P1_29699883	Ca7	29699883	ATTTTTTTTTTTTTTT/ATTTTTTTTTT	TCGCACCTCAATTAGT CCCT	AGAAAAGGAGCAAAGT GCCA	59.7	366	DRR	Ca_11753	--	--
Ca7_P1_29736728	Ca7	29736728	ATTT/ATT	ATGCGGCCAATTGTT AAAG	TGAATCATCGAATCCA AATCA	60.1	209	INTERGENIC	--	--	--
Ca7_P1_29740854	Ca7	29740854	ATT/ATTCTT	TGAGCACTATTGTGTC CATTTG	CCAACCACATAAAACA TGTACGA	58.7	224	INTERGENIC	--	--	--
Ca7_P1_29741127	Ca7	29741127	TA/T	TGAGCACTATTGTGTC CATTTG	TGAAAGACGTAGATCT TACCCAGA	58.7	338	INTERGENIC	--	--	--
Ca7_P1_2974132	Ca7	2974132	CTATA/CTA	ATTACCTCCCCTCTCC TCCA	AAACAGTGAACGGAAC CAGG	59.9	465	DRR	Ca_03176	R	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_29744187	Ca7	29744187	ATTTTTTT/ATTTTTTTT	GTCCGGATTGATCCAT TTTG	CATTCCGGTATACCCC ACTTA	60.1	387	INTERGENIC	--	--	--
Ca7_P1_29745307	Ca7	29745307	AATTAAATATTAA/AATTAAATATTAA TATTAA	CGTGGGAGTAAACATT GTGC	TGGCAAAGATACTCTT GTAAACAAAT	59.1	409	INTERGENIC	--	--	--
Ca7_P1_29745710	Ca7	29745710	A/AG	TTTGTTTACAAGAGTAT CTTTGCCA	TTACACCCCAAGCA ACAA	59.3	632	INTERGENIC	--	--	--
Ca7_P1_29750587	Ca7	29750587	TAA/TAAA	CGTCACGAAACAGACG AAGA	TTGGAGTGTAGATTGC TGCG	60.0	233	INTERGENIC	--	--	--
Ca7_P1_29752029	Ca7	29752029	TAGAG/TAGAGAG	TGTTGGACGTGAAGGT GTGT	TACAAGGGAGGGTGA GATGG	60.0	297	INTRON	Ca_11749	U	--
Ca7_P1_29754078	Ca7	29754078	A/AT	CAGTCGCTGAGCTTG TCCA	TAAGTACAACAAGGCC CCCA	60.2	514	INTRON	Ca_11749	U	--
Ca7_P1_29755369	Ca7	29755369	CA/C	TTTCAGCCTCCTCTTT TCA	CGACTTGTGCGCCAAT GTAT	59.9	660	INTRON	Ca_11749	U	--
Ca7_P1_29755398	Ca7	29755398	CATT/C	TTTCAGCCTCCTCTTT TCA	CGACTTGTGCGCCAAT GTAT	59.9	660	INTRON	Ca_11749	U	--
Ca7_P1_29755622	Ca7	29755622	GAAAAGAGAAAAGAGAAAAGA/GA AAAGAGAAAAGA	TGGATTATTGACCCGA TTGC	TCCAGAAACTTTGGTT TGGG	60.7	760	INTRON	Ca_11749	U	--
Ca7_P1_29758415	Ca7	29758415	TA/T	ATAGTGGCATGGGGTT TCAG	TAGGCAGTCTCATCTG GGCT	59.8	671	INTRON	Ca_11749	U	--
Ca7_P1_29759971	Ca7	29759971	C/CA	CCACCATGTGCAACTA CGAC	TCGTAGCAACTGAGCG AATG	60.0	549	INTRON	Ca_11749	U	--
Ca7_P1_29768598	Ca7	29768598	CCAA/CCAACAA	TCATTGTTGAGAGCC ATCG	GAAGCCTGAGCCTAA GCAAA	59.8	468	DRR	Ca_11748	--	ERF

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca7_P1_29768927	Ca7	29768927	CTATATA/CTATA	ACCAAAGACATACCGC AAGC	TTGCTGGATTGCCAAT ATGA	60.1	634	DRR	Ca_11747	OE	WRKY
Ca7_P1_29769397	Ca7	29769397	GTT/GT	GCCATAGCCTCACTTC AAGC	ATGGACAATTCATTGC GACA	60.0	461	DRR	Ca_11748	--	ERF
Ca7_P1_29770911	Ca7	29770911	ACCC/ACCCC	GCAACAGAGCCGTCCT AAAG	GGGGGAGACAGAGAA ACCTC	60.0	732	INTRON	Ca_11747	OE	WRKY
Ca7_P1_29773203	Ca7	29773203	TAAAAAAAAA/TAAAAA	GCGTGTGTATCAGACG CAGT	TTGTGTTTTGGGGTA GGAA	59.9	870	INTRON	Ca_11747	OE	WRKY
Ca7_P1_29773783	Ca7	29773783	CGTGCATGTGCAT/CGTGCAT	TTGCGACCTAAGCACA CAAG	CCTGAGCATCTTGGTG ACAA	60.1	604	INTRON	Ca_11747	OE	WRKY
Ca7_P1_29776063	Ca7	29776063	TAAAAAAA/TAAAAAAA	TGGTTACACTTCGTGG CAAA	CATGGGCACTACATCG TCAC	60.1	679	INTERGENIC	--	--	--
Ca7_P1_29776418	Ca7	29776418	GATTAATTTT/GATTAATTTTAAATT AATTTT	CGGAATAAATATTTGT CTCGTCA	CATGGGCACTACATCG TCAC	58.2	339	INTERGENIC	--	--	--
Ca7_P1_29778722	Ca7	29778722	CAAAA/CAAA	GCCAACTAACTTTGT GGAGG	AAAAAGTGGTGTGGCA AAAA	58.8	644	INTERGENIC	--	--	--
Ca7_P1_29785311	Ca7	29785311	CTTGACTTTT/CTTGACTTTTGACTTTT	TTTCCCCATGCAGAGT TAGG	TCAAACCAAGATCAC CAGC	60.1	727	INTERGENIC	--	--	--
Ca7_P1_29786617	Ca7	29786617	TAAAAAAA/TAAAAAAA	ATTAAATCCGGGGCG TTAC	CCATTTTCTCTCCGAA CATGA	60.0	354	INTERGENIC	--	--	--
Ca7_P1_29787071	Ca7	29787071	G/GT	CGGGGCGTTACACTTA TCTC	CATGTCTATAACACGC TGCC	59.6	803	INTERGENIC	--	--	--
Ca7_P1_29787355	Ca7	29787355	TGGCAG/TGGCAGGCAG	CGTGTCTCGCTAGGG GATAG	TGCAACAATTCTTTCA CCACA	59.9	269	INTERGENIC	--	--	--

[illegible]

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_29833163	Ca7	29833163	TAGGA/TAGGAGGA	TTGCTGCCTCATCGTA GAGA	GCCTAAGCTTTGCCTT GCTG	59.7	202	INTERGENIC	--	--	--
Ca7_P1_29833457	Ca7	29833457	CGTGT/CGT	CAGCAAGGC AAAAGTT AGGC	TCAATGGTGCATGGTT GAAT	60.0	503	INTERGENIC	--	--	--
Ca7_P1_29841333	Ca7	29841333	CAAAAAAAAA/CAAAAAAAAA	GCCTTCCACCATTCAG TTGT	ATTTCAATGAATTCGG CTGC	60.0	907	DRR	Ca_11739	--	--
Ca7_P1_29843656	Ca7	29843656	AT/ATCTT	GAGTGTTCGACCTTT TGCC	GTTGGCTATGTGCAG GGAT	59.7	575	INTRON	Ca_11739	--	--
Ca7_P1_29844766	Ca7	29844766	TA/T	CATTGCCCTTCATGGA AACT	CTGTGCATAATGGAAC CGTG	59.9	750	INTRON	Ca_11739	--	--
Ca7_P1_29850000	Ca7	29850000	ACAAA/ACAAAGCAAA	GATTCCTCAGCTGCAT CCTC	GGAGATTTCAAGGCTA AGGG	59.9	826	INTRON	Ca_11739	--	--
Ca7_P1_29852577	Ca7	29852577	TTG/T	ACACGGCTTTGGATGA ACTC	TTGCATACGCCATCGT AAAA	60.1	704	INTERGENIC	--	--	--
Ca7_P1_29852720	Ca7	29852720	ATTTTT/ATTTTT	AATCCCTGTATTGAT GCGG	TTGCATACGCCATCGT AAAA	59.8	317	INTERGENIC	--	--	--
Ca7_P1_29852813	Ca7	29852813	TTA/T	AATCCCTGTATTGAT GCGG	TTGCATACGCCATCGT AAAA	59.8	317	INTERGENIC	--	--	--
Ca7_P1_29853160	Ca7	29853160	AAATAATAATAATAATAATA/AAA TAATAATAATAATAATAATAA	TTACGATGGCGTATGC AAGA	TCTTCATTTGGGTTTT GGG	60.2	491	INTERGENIC	--	--	--
Ca7_P1_29855845	Ca7	29855845	TTATA/TTA	AACCTGTTGGGTGTCC AAGG	CATGCCACTAACATGT TCCAA	59.9	542	DRR	Ca_11738	T	--
Ca7_P1_29855974	Ca7	29855974	ATTTTT/ATTTTT	AACCTGTTGGGTGTCC AAGG	TTATCGGAAGGTGCCA AGAG	59.9	582	DRR	Ca_11738	T	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_29856321	Ca7	29856321	ATGT/ATGTGT	AATCACTCCGGTTGAT CATT	TCACAAACGACCGTTG AAAA	58.4	355	DRR	Ca_11738	T	--
Ca7_P1_29856343	Ca7	29856343	TT/TTATAGT	CTTTGGAACATGTTAG TGGCA	TTACAAACGACCGTT GAAA	58.7	249	DRR	Ca_11738	T	--
Ca7_P1_29856807	Ca7	29856807	GATG/GATGCTATG	TTTCAACGGTCGTTTG TGAA	GATTGGGTATTTTGT TATGGCA	60.1	551	DRR	Ca_11738	T	--
Ca7_P1_29857095	Ca7	29857095	CAA/CA	TCGTGTGCTGGTTGGT TAAG	GCAAAGAGTGGTGG GGTTA	59.8	751	DRR	Ca_11738	T	--
Ca7_P1_29863873	Ca7	29863873	GAAA/GAAA	CCTTTTGTGTCCATG CTTGT	TATGGGATCTGGGAA AGCC	60.0	625	INTERGENIC	--	--	--
Ca7_P1_29863936	Ca7	29863936	TAAAAAA/TAAAAA	CCTTTTGTGTCCATG CTTGT	TATGGGATCTGGGAA AGCC	60.0	625	INTERGENIC	--	--	--
Ca7_P1_29864064	Ca7	29864064	T/TAGTTAAAGA	TCCTCAAAATGATCCA ACTGTG	TATGGGATCTGGGAA AGCC	60.0	415	INTERGENIC	--	--	--
Ca7_P1_29865664	Ca7	29865664	CATATA/CATA	ATTTTTCATCATGCTTT TGTC	TGCAGTCTGTTTGA TTGC	57.3	629	INTERGENIC	--	--	--
Ca7_P1_29865931	Ca7	29865931	GCAAA/GCAACAAA	GCAATCCAAACAGAAC TGCAT	AGAGGAAAGTGGTGG GCATA	60.1	206	INTERGENIC	--	--	--
Ca7_P1_29866869	Ca7	29866869	TAAAAAAA/TAAAAA	AGGTGAACTTCCGAA ATGC	AAATAGGGCCTCACC TGCT	59.2	548	DRR	Ca_11737	R	--
Ca7_P1_29867122	Ca7	29867122	A/AAAC	AAGCAGGTGAGGCCCT ATTT	CGGCTAGGAAGCAAT CAAAA	60.1	498	DRR	Ca_11737	R	--
Ca7_P1_29867344	Ca7	29867344	TAAAAAAA/TAAAAA	AGCAGGTGAGGCCCTA TTTT	AATTATGGGCCAAAA TCCC	60.1	812	DRR	Ca_11737	R	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_29867836	Ca7	29867836	CAAAA/CA	TTTGTATTGCTTCCTAG CCG	TGAGTTTTCGCGCTAG CTTT	60.3	568	DRR	Ca_11737	R	--
Ca7_P1_29867881	Ca7	29867881	AAGA/AAGAGA	TTTGTATTGCTTCCTAG CCG	TGAGTTTTCGCGCTAG CTTT	60.3	568	DRR	Ca_11737	R	--
Ca7_P1_29868683	Ca7	29868683	CAAAAA/CAAAA	GCTCCGTCCCAGACTT GTAT	CCTCCTCCGATTGAAA TTGA	59.2	631	DRR	Ca_11737	R	--
Ca7_P1_29884896	Ca7	29884896	GTAATAATAATAATAATAATAATA ATAAT/GTAATAATAATAATAATAA T	GCACAGAGCACGATTC GTAA	CAAACTCGTTACCCC CTGA	60.0	503	INTERGENIC	--	--	--
Ca7_P1_29895521	Ca7	29895521	CTATATATATATATAT/CTATATATATA T	TATTGGGCTTAGGTGA TGCC	TAGCTTTTGGGCATGG ATTG	59.9	441	DRR	Ca_11734	--	--
Ca7_P1_29897171	Ca7	29897171	TCCG/T	CACAGTATTCGTTGGT TGCG	AACCTGGTGACAATGT GCAA	60.2	579	CDS (large-effect mutations)	Ca_11734	--	--
Ca7_P1_29900700	Ca7	29900700	AT/ATT	CACCTCCGAACCAAA ACAT	AACCCCAAGGATCCGT TTAC	59.8	946	INTERGENIC	--	--	--
Ca7_P1_29901518	Ca7	29901518	TA/TAA	GTAACGGATCCTTGG GGTT	GGAATGGAACGCAAC CAGA	60.1	829	INTERGENIC	--	--	--
Ca7_P1_29919934	Ca7	29919934	CA/CAA	TCAGCTAAAAAGGAGA ACCGA	GTTGCGGGACCTCAC ACTAT	59.1	154	INTERGENIC	--	--	--
Ca7_P1_29947623	Ca7	29947623	CG/C	CGTCATCACCCCTTTAT CGGT	TCATGATGTGTACGGG ATGG	59.8	297	INTERGENIC	--	--	--
Ca7_P1_29947831	Ca7	29947831	A/AG	CGTCATCACCCCTTTAT CGGT	GCCAAATACGATCAAC AATCG	59.8	600	INTERGENIC	--	--	--
Ca7_P1_29947915	Ca7	29947915	AAA/AAATAA	CGTCATCACCCCTTTAT CGGT	GCCAAATACGATCAAC AATCG	59.8	600	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_29948061	Ca7	29948061	TAATA/TAATAAATA	TGAATCAATTGCGTT GAGC	CCACCAACATCGACTA CAGC	59.8	559	INTERGENIC	--	--	--
Ca7_P1_29960189	Ca7	29960189	ACT/ACTCT	TCATGCACGTATTAGG CAGC	CCCCATCTTCAACCTG TGTT	59.9	646	INTERGENIC	--	--	--
Ca7_P1_29968042	Ca7	29968042	GTTTT/GT	TGCATATCAAGTGCC CTGC	GTCTGACTGCGTACGT GGAA	59.7	833	DRR	Ca_11731	--	--
Ca7_P1_29969276	Ca7	29969276	ATTTT/ATTTTT	ATAGGCACAACAATT GCCC	AGTCACGTTTCATCGAG AGACAA	60.0	681	DRR	Ca_11731	--	--
Ca7_P1_29969403	Ca7	29969403	CAT/C	CGTCGTAGAGCCATTG ATGA	TGGCTATGAAACCCGG ATAC	59.8	729	DRR	Ca_11731	--	--
Ca7_P1_29969461	Ca7	29969461	TG/T	CGTCGTAGAGCCATTG ATGA	GGGAGGATGGACAAT GCTTA	59.8	871	DRR	Ca_11731	--	--
Ca7_P1_29970908	Ca7	29970908	ACT/ACTCT	ACATTCATTGCCGTG CTTT	GATGGGAAATTTGGG GAGTT	60.5	818	INTRON	Ca_11731	--	--
Ca7_P1_29972956	Ca7	29972956	TAAAAA/TAAAAAA	ATGGATCCCAGTATCC CACA	TAACAAGCTTGAATG CACG	60.0	269	INTERGENIC	--	--	--
Ca7_P1_29976341	Ca7	29976341	CAA/CA	CCCCAATTGTCATGT TTCC	TGGCTCAACTGCACA AAAC	60.0	288	DRR	Ca_11730	KR	--
Ca7_P1_29979176	Ca7	29979176	A/AGAGTT	ATTACGCAACGAGGGA CAAC	TATGCACATGCTTCA CCGT	60.0	445	INTERGENIC	--	--	--
Ca7_P1_29979310	Ca7	29979310	GTG/GTGATGCCCCATG	ATTACGCAACGAGGGA CAAC	TGAATTTTAAACATCCAA CCGTG	60.0	475	INTERGENIC	--	--	--
Ca7_P1_29979856	Ca7	29979856	TTT/TTTTATT	CAAATGAAAAGAAGAG ACATTCCA	TTGAGAACCAACAAC TTTCCTT	59.6	888	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_29980723	Ca7	29980723	CAAAAA/CAAAA	CACATTTTGTGTCCAAT CTGTTG	ATCCTGTCCATCAAC GAGC	60.3	756	INTERGENIC	--	--	--
Ca7_P1_29980870	Ca7	29980870	T/TC	CAACCGCAATCTTAAC AAAAA	ATCCTGTCCATCAAC GAGC	57.9	402	INTERGENIC	--	--	--
Ca7_P1_29981725	Ca7	29981725	TC/TTATTATTATTATTAC	TCCCTTCATCCCTCTC TATCAA	TTGGTGTGAAAAATT GGGT	60.0	649	INTERGENIC	--	--	--
Ca7_P1_29982388	Ca7	29982388	ATTT/ATT	TCTCCACCCAATTTTC GAC	GTGCGAATTCAGGTT GATT	59.9	397	DRR	Ca_11729	--	--
Ca7_P1_29983649	Ca7	29983649	TAAAAAAA/TAAAAAAA	TCAATGGAGCTCAATC TTCAAA	TTGGATTGGGTCGATT TTGT	59.8	619	DRR	Ca_11729	--	--
Ca7_P1_29986114	Ca7	29986114	A/AT	ATCATTGTTTTGTGAG GGGC	ATCCAATCCAAATGC CAAA	59.8	930	INTERGENIC	--	--	--
Ca7_P1_29986240	Ca7	29986240	A/AT	AAATGAACGGCACCA CATT	CCAATTCCAAATGCCA AATC	60.2	536	INTERGENIC	--	--	--
Ca7_P1_29987440	Ca7	29987440	AAATAATAATAATAATAATAATA/A AATAATAATAATAATAATAATAATA ATAATAATA	GAACATGGTTGATTGG ATTGC	CTCCTCGTTGTGTTGG ATCA	60.2	751	INTERGENIC	--	--	--
Ca7_P1_29988518	Ca7	29988518	CATTATTA/CATTATTATTA	ACAAAACACAACCGCA TTGA	TGCCAACTGGATCCT CTCT	60.0	579	INTERGENIC	--	--	--
Ca7_P1_29994518	Ca7	29994518	AATATATATATAT/AATATATAT	TGATGAATGTTAGTCA TTTTTGTC	TTCTGCATACAATTGC GGAG	58.6	486	INTERGENIC	--	--	--
Ca7_P1_29994584	Ca7	29994584	TTATA/TTA	CTCCGCAATTGTATGC AGAA	CGTCGGTGCTGTAATG TGTC	59.8	315	INTERGENIC	--	--	--
Ca7_P1_29995299	Ca7	29995299	TTATATA/TTATATATA	GGAGCTGGATTTTGAT TGGA	TGCAGTGGCTCTCTAA ACCC	60.0	634	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_29996519	Ca7	29996519	GCTACTATTCAC/GC	TGGAGATATATGGTCT CTCACGG	TTTAGGAAATTTTCG GCCA	60.3	351	INTERGENIC	--	--	--
Ca7_P1_29997098	Ca7	29997098	ATTTT/ATTT	TGGCCGAAAAATTTCC TAAA	ATCTCATGGGCAACAA CACA	59.5	773	INTERGENIC	--	--	--
Ca7_P1_29998388	Ca7	29998388	GAT/GATCCAT	TTCAAATCTGAAATAAG ACATCCAA	TGAATTTGATCGTAA GAGGGAA	59.1	571	INTERGENIC	--	--	--
Ca7_P1_30000119	Ca7	30000119	TG/T	GATGAAGAATGCCCTG CAAT	TAGTCGTTGCCAAA TCAC	60.0	645	INTERGENIC	--	--	--
Ca7_P1_30000488	Ca7	30000488	AGTTTCCAAATTATGTTCCAAA/AGT TTCCAAA	GTGATTTTGCAACGC ACTA	AGGAAGGATTTCTAAG GGCG	59.7	373	INTERGENIC	--	--	--
Ca7_P1_30002486	Ca7	30002486	ATTTT/ATTTTTT	CACAACCACCACATC TCTG	CTGGTTAGGCAACCG GTAA	60.0	858	INTERGENIC	--	--	--
Ca7_P1_30002970	Ca7	30002970	ATTTTTTT/ATTTTTT	CGAAATTACCGTTTG CCTA	CGTTGTCGGTTTCA TAGA	60.0	495	INTERGENIC	--	--	--
Ca7_P1_30003925	Ca7	30003925	TA/TAA	TGGTGTTTATCAACCG TCCA	TGGTGACCTTTTGAT GTCT	59.8	814	INTERGENIC	--	--	--
Ca7_P1_30004918	Ca7	30004918	CG/C	GTCACCTCCAAAGTG GGGT	TAATTGCACTTGTGG CGAG	59.9	136	INTERGENIC	--	--	--
Ca7_P1_30007344	Ca7	30007344	AAACAAC/AAACAACAAC	CCTTTTCTTGAACATCC CTCC	TTGATCCGTTGACTTT TCCC	59.9	385	INTERGENIC	--	--	--
Ca7_P1_30007406	Ca7	30007406	GAAAAA/GAAAA	CCTTTTCTTGAACATCC CTCC	TTGATCCGTTGACTTT TCCC	59.9	385	INTERGENIC	--	--	--
Ca7_P1_30009218	Ca7	30009218	ATTATTAT/ATTATTATTAT	AATTGTGTTGTGGTT CGGT	GATGGTGCTGGGGAA TCTAA	60.1	881	INTRON	Ca_11728	--	bHLH

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_30009540	Ca7	30009540	T/TTTG	ACGGAGGGAGAAAATC AGTG	GATGGTGCTGGGGA TCTAA	59.1	580	INTRON	Ca_11728	--	bHLH
Ca7_P1_30010026	Ca7	30010026	CTTTTT/CTTTTTTTT	AATGAAGCTGCCTCAC AGGT	CGTTGAACTTGGGGA GTGT	59.9	547	INTRON	Ca_11728	--	bHLH
Ca7_P1_30011509	Ca7	30011509	TAAAAAA/TAAAAAAA	TGGCTAATTCATCTAT GGTCAA	CCACTGCCAACCTGGT ATTG	58.8	738	DRR	Ca_11728	--	bHLH
Ca7_P1_30015362	Ca7	30015362	CTTTTT/CTTTTTTTT	CCAAATTAGAAAAGC TTTGAACG	CCCCAAGCAAAAGAAA CAAA	60.5	562	INTERGENIC	--	--	--
Ca7_P1_30016779	Ca7	30016779	ATTTTCATTT/ATTTTCATTTTTCATTT	ATCAACCGTTCACTT CGAG	TGCTTGAGCCTAAACC AATAA	60.1	739	INTERGENIC	--	--	--
Ca7_P1_30017288	Ca7	30017288	GTTTTTTT/GTTTTTTT	GGAGAATTTGTTC ATGTTG	TCAGAATGAAGCGACG TGAC	58.5	351	INTERGENIC	--	--	--
Ca7_P1_30017787	Ca7	30017787	TT/TTCT	GTCACGTCGCTTCATT CTGA	TGAATTTATTGGCGTG GTGA	60.0	528	INTERGENIC	--	--	--
Ca7_P1_30017856	Ca7	30017856	AATAT/AATATAT	GTCACGTCGCTTCATT CTGA	TGAATTTATTGGCGTG GTGA	60.0	528	INTERGENIC	--	--	--
Ca7_P1_30018388	Ca7	30018388	T/TTTTATGTTAC	AAAGGCACATTTTAG GGGG	CAGAAATTTGTTGTT GGCG	60.2	374	INTERGENIC	--	--	--
Ca7_P1_3001900	Ca7	3001900	GTTTTTTT/GTTTTTTT	TTTTGTGTTGCACAGA AGGTG	TGATGGGTCAAAAGC ATGA	59.8	807	INTERGENIC	--	--	--
Ca7_P1_30020788	Ca7	30020788	T/TA	ATGGCATTGCAAGCT CTTC	TTTTGCTTTGTGAACA CCACA	60.4	504	INTERGENIC	--	--	--
Ca7_P1_30021337	Ca7	30021337	CAAAAA/CAAAAAAAA	TGTGGTGTTCACAAAG CAAAA	TTGGAGTTGGAGGGA GTTTG	60.2	774	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_30021954	Ca7	30021954	CAAAAAAAAAACCAAAAAAAAA/CAAA AAAAA	CAAACTCCCTCCAAC CCAA	ATCAAAAACACCTGA TCGC	60.1	808	INTERGENIC	--	--	--
Ca7_P1_30026336	Ca7	30026336	AATGATG/AATG	GAGCTGAGGAAGGGTT GATG	TCTTTGCCCACTAAC CTGG	59.8	507	INTRON	Ca_11727	--	--
Ca7_P1_30028225	Ca7	30028225	GTCCCTC/GTCCCTCCCTC	CAAACTGCTCTCTCC ATGT	ACTTCTCCACCAACA TCGC	60.1	548	DRR	Ca_11727	--	--
Ca7_P1_30034081	Ca7	30034081	CCTTCT/CCT	CATTAGCAAAGGAGT GCCC	CTCACAGTTGAGTTG CACG	59.7	116	DRR	Ca_11725	--	--
Ca7_P1_30041676	Ca7	30041676	CA/C	ATCGTGAAGAAGAGG GATG	AATCGGACAAGGGACA CAAA	60.2	428	INTERGENIC	--	--	--
Ca7_P1_30041692	Ca7	30041692	T/TA	ATCGTGAAGAAGAGG GATG	AATCGGACAAGGGACA CAAA	60.2	428	INTERGENIC	--	--	--
Ca7_P1_30042164	Ca7	30042164	TAAAAAA/TAAAAAA	TTTGTGTCCCTGTCC GATT	ACCCGCATGTA CTGTG ATGA	60.4	905	INTERGENIC	--	--	--
Ca7_P1_30042490	Ca7	30042490	TTATATATA/TTATATATATA	TGCGAAGTAGTTTGA ATGTGG	ACGGATGAACTGCC GTAAC	60.2	617	INTERGENIC	--	--	--
Ca7_P1_30046722	Ca7	30046722	TCCCC/TCCCC	CAACACAGGTTCCATT GACG	AAAGATCACACCTCC GTCG	60.0	438	INTERGENIC	--	--	--
Ca7_P1_30048460	Ca7	30048460	GAAAAAAAAAAAAA/GAAAAAAAA AAA	TGTGTGTGTGTGTA TGGA	AAGAGCGGGGACGTA TTTTT	59.5	585	DRR	Ca_11723	O	GeBP
Ca7_P1_30053126	Ca7	30053126	TAA/TA	AAAGAGAGAACGGACA TAATCCA	TCGCATATTTTCTTT CAGTCC	59.1	550	INTERGENIC	--	--	--
Ca7_P1_30053648	Ca7	30053648	CAAGT/C	GGACTGAAAGAAAA TATGCGA	GTGCTCTCTTTGCCG ATTG	59.6	774	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_30071946	Ca7	30071946	TGGGAATAA/T	AAATTCATTGCAACCA CCC	TCAGGTTTTTGCCTTT GTGA	59.7	538	INTERGENIC	--	--	--
Ca7_P1_30072048	Ca7	30072048	ACAAAG/A	GCCATGGGAATAAAGA GTGC	TAATGGCCAAACGTTT CAGG	59.5	139	INTERGENIC	--	--	--
Ca7_P1_30072638	Ca7	30072638	GATAATTACAAA/GATAATTACAAATAA TTACAAA	TGAGATTGGAACATA CGGTGA	AAAGGATCAAATCGGA GAAAA	59.6	349	INTERGENIC	--	--	--
Ca7_P1_30073842	Ca7	30073842	AGTGT/AGTGTGT	CGGACAACGAGTGTTA TTAGC	GCCAATGGGTGCTGAT TATT	58.8	944	DRR	Ca_11719	--	NAC
Ca7_P1_30073902	Ca7	30073902	CA/C	TTGATCAAAACAATAC GTGTGC	GCCAATGGGTGCTGAT TATT	58.6	544	DRR	Ca_11719	--	NAC
Ca7_P1_30073920	Ca7	30073920	CAA/CA	TTGATCAAAACAATAC GTGTGC	GCCAATGGGTGCTGAT TATT	58.6	544	DRR	Ca_11719	--	NAC
Ca7_P1_30077279	Ca7	30077279	TAAAAAAA/TAAAAAAA	AACTCAAGAGCACCCA AGGA	AGCTTGATTCTGGAG CAGA	59.8	249	INTRON	Ca_11719	--	NAC
Ca7_P1_30079045	Ca7	30079045	CAAA/CAA	ATGCCAAAACGTAGCA AAGC	CTCCTATCCTGCTATC CGCA	60.3	802	INTERGENIC	--	--	--
Ca7_P1_30082196	Ca7	30082196	GAAAAAAA/GAAAAAAA	GATTGGTAAATGTGGT CGGG	GCACGCTGTTTATGGT TGTG	60.1	712	INTERGENIC	--	--	--
Ca7_P1_30082764	Ca7	30082764	AAATAA/AAA	GCATAAATCGTGCTCG ACAA	CCATCTTCTTCCCGTT TCAA	59.8	520	INTERGENIC	--	--	--
Ca7_P1_30091306	Ca7	30091306	ATTTT/ATTT	ACATTCCACGGTCTAG CTGC	GATGAATTCAGGCC TCAC	60.3	888	INTERGENIC	--	--	--
Ca7_P1_30099390	Ca7	30099390	TA/TAA	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/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_30099905	Ca7	30099905	CAATAATAATA/CAATAATAATAAATAATA	GCAAAACCTATCCTGTCCA	TGTGTTGTGCTAGGATGGATG	59.9	631	INTERGENIC	--	--	--
Ca7_P1_30099981	Ca7	30099981	GTTTTT/GTTTT	GCAAAACCTATCCTGTCCA	GACAATTTCCATCAACGGC	59.9	693	INTERGENIC	--	--	--
Ca7_P1_30100196	Ca7	30100196	ATTATTTTATTTTATTTTATTT/ATTATTATTTTATTT	GCAAAACCTATCCTGTCCA	CTCTGTTGCCACTGCACTTA	59.9	795	INTERGENIC	--	--	--
Ca7_P1_30102997	Ca7	30102997	ATTTTTTTTT/ATTTTTTTTT	TAAACTGGGGCAATCACACA	TGATTATGCAGCAACCAAAA	60.0	585	DRR	Ca_11717	--	bZIP
Ca7_P1_30105683	Ca7	30105683	CTTTTT/CTTTTT	CCTCATCTTTAAAGGGGGTT	AGAAAGAGAGCGAAGAGGG	59.7	872	INTERGENIC	--	--	--
Ca7_P1_30107818	Ca7	30107818	TA/TAACCAGTTTATAA	GAAGGCTGCAACTCTGTGAC	AACGTGAAACCCACCAAAAC	60.0	764	INTRON	Ca_11716	T	WRKY
Ca7_P1_30112923	Ca7	30112923	ATTTTTTT/ATTTTTTTTT	TCCTGCAGATGTGGTCAAA	AAATCCGAGCAAAGAGCA	60.2	182	INTRON	Ca_11716	T	WRKY
Ca7_P1_30115161	Ca7	30115161	ATAGGT/ATAGGTAGGT	CGCATGGATGTCAACTTTTG	GCCAACCCGTGCTTTTAAT	60.1	493	DRR	Ca_11716	T	WRKY
Ca7_P1_30120049	Ca7	30120049	CTTTTTTTTT/CTTTTTTTTT	TCAAGTGGGGTTCCTATTGC	TTATTTCTGGTGGCTTTGGC	59.9	240	INTRON	Ca_11715	U	--
Ca7_P1_30129218	Ca7	30129218	C/CATT	ACAACGAGTGCCGGTTATTC	ATCGCAAAATCAAAGCATC	60.0	360	INTRON	Ca_11715	U	--
Ca7_P1_30129775	Ca7	30129775	AATGAT/AATGATGATGAT	CCACGTGAGTTACCATGCTG	AATGCATTCAATTTCGAACCC	60.2	203	INTRON	Ca_11715	U	--
Ca7_P1_30130842	Ca7	30130842	A/AG	TGACAATTTTATCATTTGTCACG	GGGTGTCTTCAAAAGTGGC	59.9	949	INTRON	Ca_11715	U	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_30131573	Ca7	30131573	ATTTTT/ATTT	TGTTTTCGGCTAACAC ATCG	TGCAATGTCCAAC CTTGT	59.7	372	INTRON	Ca_11715	U	--
Ca7_P1_30137991	Ca7	30137991	AAAAGC/AAAAGCTCTTAATTAAGC	TGGCTATTTTTGTGT GCCA	TTCCCTCTGCCAACAA TTTC	60.1	424	DRR	Ca_11715	U	--
Ca7_P1_30138201	Ca7	30138201	CAT/CATAT	GAAATTGTTGGCAGAG GGAA	CATGGAAATGCAGGG GTTAG	60.1	550	DRR	Ca_11715	U	--
Ca7_P1_30140331	Ca7	30140331	TAAA/TAA	CTTTGGCCAGAAGGGA CATA	TTTATGCTGGTGGGAT GGAT	60.1	522	INTRON	Ca_11714	H	--
Ca7_P1_30146324	Ca7	30146324	GTTTTTTTTT/GTTTTTTTT	TGATTTTGAATGCCCT CCTC	AAAGGGCAATTGGAG CACTA	60.0	416	INTERGENIC	--	--	--
Ca7_P1_30149583	Ca7	30149583	ACTCAATCTCA/ACTCA	AGGATTGAATTGACG GTGC	TGAGCATGTTGTGGTT GGTT	59.9	227	INTERGENIC	--	--	--
Ca7_P1_30149685	Ca7	30149685	GTTCTTTCTTTCTTTCTTTCTTC/GTT CTTTCTTTCTTTCTTC	AACCAACCACAACATG CTCA	CCAGGATTGAATAGCC TCCA	60.0	261	INTERGENIC	--	--	--
Ca7_P1_30151296	Ca7	30151296	GTATATATATATAT/GTATATATATATA TATAT	ACAGAGAAGCAGGCCA AGAA	TGCCAATGAATTGCAA GGTA	60.1	552	DRR	Ca_11713	--	--
Ca7_P1_30154601	Ca7	30154601	ATCTTCTTC/ATCTTC	TGGGTTGTTAACATAA TTTTGAATG	CTTAACCCACCAACCA CCAG	59.1	293	INTERGENIC	--	--	--
Ca7_P1_30156816	Ca7	30156816	CAAAAA/CAAAAAA	GGTGCTTAACGTCAG TGAATG	TGGGCGTTACAAGAAT GTGA	59.7	398	INTERGENIC	--	--	--
Ca7_P1_30157601	Ca7	30157601	AAAA/AAAAGAAA	TCACATTCTTGTACG CCCA	TTTCTTCCCATTCATCT CGG	60.1	499	INTERGENIC	--	--	--
Ca7_P1_30157722	Ca7	30157722	CG/C	CCGAGATGAATGGGAA GAAA	AACACCTAGGAGGAGA AGAAAACA	60.0	354	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_30157868	Ca7	30157868	GA/GAA	CCGAGATGAATGGGAA GAAA	GCTCCTGTTCATAGA GTGCAT	60.0	716	INTERGENIC	--	--	--
Ca7_P1_30159383	Ca7	30159383	CATATAT/CATAT	ACAAGCGAGTTCACCT CACG	TTCCCGCAGATATGTT AGGC	59.1	610	INTERGENIC	--	--	--
Ca7_P1_30160638	Ca7	30160638	AA/AATA	ATGAGGGGCAACATGG TAAA	TTCTGCGATTCACGTC TTTG	60.2	500	INTRON	Ca_11712	Q	B3
Ca7_P1_30161331	Ca7	30161331	GTTTTTTT/GTTTTTTT	TTTCTCAATTGTGCG GCTC	GACAAAGAGAAATGTG GACCAA	60.2	187	INTRON	Ca_11712	Q	B3
Ca7_P1_30161681	Ca7	30161681	TAA/TAAAA	TTTCTCAATTGTGCG GCTC	TGCAATTGTAGAATCT CTCAAACA	60.2	723	INTRON	Ca_11712	Q	B3
Ca7_P1_30161768	Ca7	30161768	ATTTTTTTT/ATTTTTTT	TTTCTCAATTGTGCG GCTC	TGCAATTGTAGAATCT CTCAAACA	60.2	723	INTRON	Ca_11712	Q	B3
Ca7_P1_30166196	Ca7	30166196	CAA/CTTAAA	TGAGCCCATAAATGTGC AGAA	CTTTTGAAAGGGCAT CAGC	60.2	520	DRR	Ca_11711	Q	B3
Ca7_P1_30166759	Ca7	30166759	TTATAT/TTATATAT	CACCGGCCAATAATAA TGCT	TCTTCGGCCATGGCTA TTTA	59.8	513	DRR	Ca_11711	Q	B3
Ca7_P1_30167243	Ca7	30167243	AAA/AAATAA	CCATGGCCGAAGAAAA ATAG	TATTGATCCACCCATC AGCA	59.5	679	DRR	Ca_11711	Q	B3
Ca7_P1_30169438	Ca7	30169438	ATTTTTTTTT/ATTTTTTTTT	AGCCATGAAGCTCCCT CATA	GATTGGTTCTGCCCG TAAA	59.8	222	INTRON	Ca_11710	U	--
Ca7_P1_30172150	Ca7	30172150	CTTTTTTTTT/CTTTTTTTTTTT	CCATCAATAAATTGAAC GGCA	GAGCAAGAAATGTCCC CAAA	60.7	836	INTERGENIC	--	--	--
Ca7_P1_30173467	Ca7	30173467	ATTTTTTTTT/ATTTTTTTTTTT	TGGTCAATTCACCTGC AAAA	TTCTTGTGAACCAAT TCGC	60.1	542	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_30188247	Ca7	30188247	ATTTTTTT/ATTTTTT	GCCACGTATCAATGAC ACATCT	GCTGTATTTTTACGCG TTTGC	59.9	564	INTERGENIC	--	--	--
Ca7_P1_30189251	Ca7	30189251	TAAAAAAAA/TAAAAAA	CGAGCTCTGCCAAAAG AAAA	TGCACACCAATATTAC ACCACA	60.6	378	INTERGENIC	--	--	--
Ca7_P1_30189274	Ca7	30189274	ATATT/AT	CGAGCTCTGCCAAAAG AAAA	TGTAGCAGAAGCGAAA GAAAAA	60.6	579	INTERGENIC	--	--	--
Ca7_P1_30189490	Ca7	30189490	TG/T	TTTTCTTTTCGCTTCTG CTACA	ACCAATATTGTGTTTAT CCCTCTT	59.3	429	INTERGENIC	--	--	--
Ca7_P1_30189598	Ca7	30189598	CTTTTTTTTT/CTTTTTTTTTT	TTTTCTTTTCGCTTCTG CTACA	AAACCACATTGACTCT AAAACCG	59.3	604	INTERGENIC	--	--	--
Ca7_P1_30189902	Ca7	30189902	TATAATTAATAA/TATAATTAATA ATTAAATAA	TTTTCTTTTCGCTTCTG CTACA	GCAAGCACTAACCCCA AAAA	59.3	891	INTERGENIC	--	--	--
Ca7_P1_30190946	Ca7	30190946	ATTTTTTTTT/ATTTTTT	CTCAATCTCGTGGTTG GACA	GCCAACAAGCATTTTC CCTA	59.7	560	INTRON	Ca_11709	U	--
Ca7_P1_30191337	Ca7	30191337	CTTTTTTTTTTT/CTTTTTTTTTT	TGCATTTATTCTCTTGT CCTTCC	GCCAACAAGCATTTTC CCTA	59.6	508	INTRON	Ca_11709	U	--
Ca7_P1_30192100	Ca7	30192100	A/ATT	CATCGTTGGTTGTTTG GTTG	TGCAAAAATGACTCGG ACAA	59.9	279	INTRON	Ca_11709	U	--
Ca7_P1_30192122	Ca7	30192122	TTTATTAT/TTTATTATTAT	CATCGTTGGTTGTTTG GTTG	TGCAAAAATGACTCGG ACAA	59.9	279	INTRON	Ca_11709	U	--
Ca7_P1_30192552	Ca7	30192552	T/TCA	CCTTCAGCAATTTTGG CAGT	TCCCATGGTTCAAAG TTGT	60.2	594	INTRON	Ca_11709	U	--
Ca7_P1_30192636	Ca7	30192636	ATAAGCATT/AT	CCTTCAGCAATTTTGG CAGT	TCCCATGGTTCAAAG TTGT	60.2	594	INTRON	Ca_11709	U	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_30192681	Ca7	30192681	TAAAA/TAAA	TGTCCGAGTCATTTT GCAT	TCCCCATGGTTCAAAG TTGT	59.1	541	INTRON	Ca_11709	U	--
Ca7_P1_30198133	Ca7	30198133	TATAA/TA	CCATGAGACGGAAAGG GATA	TCCAAAAGTGGAGTTT TTATGG	59.9	692	DRR	Ca_11708	--	LBD
Ca7_P1_30205005	Ca7	30205005	AGG/AG	AAAGAGGGGGTTGAG GCTTA	TTGTGTTTGGTTCAAA GGAGG	60.1	721	DRR	Ca_11707	--	ERF
Ca7_P1_30207448	Ca7	30207448	CAA/CAAA	ACAGCCACCTTTGCAA GTCT	TTTCAATCCACATCGT CCAA	59.9	479	INTERGENIC	--	--	--
Ca7_P1_30208302	Ca7	30208302	CGA/C	TTGGACGATGTGGATT GAAA	CCATCTCAGCATGTGT TTGG	59.9	642	INTRON	Ca_11706	--	--
Ca7_P1_30208770	Ca7	30208770	ATTT/ATT	CCAAACACATGCTGAG ATGG	CTTCCTTGCACGACC GTAT	60.1	707	INTRON	Ca_11706	--	--
Ca7_P1_30221695	Ca7	30221695	T/TGAA	CTTGTTGATGCAATGT TGGC	TTTGCCACACAAAA CAAA	60.1	538	INTERGENIC	--	--	--
Ca7_P1_30225476	Ca7	30225476	ATTTTTTT/ATTTTTT	CAGGGTGAGGTGTGT GATTG	ACAGGCTGACAGCGT AAAGA	60.0	550	INTERGENIC	--	--	--
Ca7_P1_30226620	Ca7	30226620	ACTTGCTTG/ACTTG	TGGTGGCATCTGACTA GCTG	TTTGCCACACAAAA CAAA	60.0	525	INTERGENIC	--	--	--
Ca7_P1_30226762	Ca7	30226762	T/TTC	TGGTGGCATCTGACTA GCTG	TTTGCCACACAAAA CAAA	60.0	525	INTERGENIC	--	--	--
Ca7_P1_30227045	Ca7	30227045	TTGT/TT	TTTGGGGTCCTACTTG CTTG	GTAATTCCAACGGGG GAAG	60.1	637	INTERGENIC	--	--	--
Ca7_P1_30227106	Ca7	30227106	AT/AGATGT	TTTGGGGTCCTACTTG CTTG	GTAATTCCAACGGGG GAAG	60.1	637	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_30228676	Ca7	30228676	TTTTAA/TTTAACTTTAA	AGACATGTCGCATCAT GGAA	TGCTTTGAACTTTGGA AACG	60.1	408	INTERGENIC	--	--	--
Ca7_P1_30228795	Ca7	30228795	TAGAGAGAGA/TAGAGAGAGAGA	AGACATGTCGCATCAT GGAA	ATCACGTCGTGGATCA CCTA	60.1	915	INTERGENIC	--	--	--
Ca7_P1_30229078	Ca7	30229078	CATAAATA/CA	CGTTTCCAAAGTTCAA AGCA	ATTCGTTGTCCAAGT GCAA	58.9	772	INTERGENIC	--	--	--
Ca7_P1_30230058	Ca7	30230058	GAAAAAA/GAAAAAAA	ACAATTGCTCATGCGG TACA	GGTGATTACGACACAT TGGC	60.1	540	INTERGENIC	--	--	--
Ca7_P1_30231846	Ca7	30231846	ATTTTTTT/ATTTTTTT	CCCCATCCCTCTTCTC TTTC	GACATGAGTGATCTTG TGCTCC	60.0	667	DRR	Ca_11704	GC	HSF
Ca7_P1_30232337	Ca7	30232337	ATTTTTT/ATTTTTTT	GGAGCACAAAGTCACT CATGTC	TTCGGGAGTCGACTAT ACGC	59.7	245	DRR	Ca_11704	GC	HSF
Ca7_P1_30232491	Ca7	30232491	CA/C	GCGTATAGTCGACTCC CGAA	GGCAATTGGTCACACA AAAA	60.2	489	DRR	Ca_11704	GC	HSF
Ca7_P1_30232699	Ca7	30232699	ATGTG/ATG	GCGTATAGTCGACTCC CGAA	GGCAATTGGTCACACA AAAA	60.2	489	DRR	Ca_11704	GC	HSF
Ca7_P1_30235069	Ca7	30235069	TTTCTTCTTCTTCTTCT/TTTCTTCTTC TTCT	TGCGTGTTGAGTTGT AAGG	AACGTGCCAAAAACCA CTTC	59.9	606	INTERGENIC	--	--	--
Ca7_P1_30237247	Ca7	30237247	ATTTTTTTTT/ATTTTTTTT	GAAACACTTTTGCGTC CGTT	CATCTTTCAGAATCCC CGAA	59.2	519	DRR	Ca_11703	--	--
Ca7_P1_30240193	Ca7	30240193	TGGG/TGG	TAAATGCGGCAATGTC AAAA	TCCATTTCTGAGTAA AACATCA	60.1	219	INTERGENIC	--	--	--
Ca7_P1_30240282	Ca7	30240282	ACGT/ACGTGATCGT	TAAATGCGGCAATGTC AAAA	TCCATTTCTGAGTAA AACATCA	60.1	219	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_30240908	Ca7	30240908	ATTTTTTT/ATTTTTT	CAAGCTTGAATCCTTT CAGG	ATCCTTGCGAACATAG GTGG	59.0	613	INTERGENIC	--	--	--
Ca7_P1_30245671	Ca7	30245671	ATTTTTT/ATTTTT	ACCCAAAAATCCCTT TGTC	GGTGACAAGCCCCAAA AGTA	60.0	691	DRR	Ca_11702	--	--
Ca7_P1_30253638	Ca7	30253638	A/AT	AGAAAGGAAAGCATGC GAGA	TGCAATGATTACATCC CCCT	60.1	417	INTERGENIC	--	--	--
Ca7_P1_30257414	Ca7	30257414	T/TGG	ATGCATGCAATCGGCT AATA	CGTGATGAGAGTTTAA TGTGGC	59.2	910	DRR	Ca_11701	--	--
Ca7_P1_30261806	Ca7	30261806	TAA/TA	GGCTTTCGCTGAGGAA AATA	TTGGGCTAACTCATGG TTCC	60.2	341	INTERGENIC	--	--	--
Ca7_P1_30267420	Ca7	30267420	TTTTCTTT/TTTTCTTCTTT	GGATGGTGATCAAATA GGGC	ACCGCATTAGCAATTA TGCC	59.2	488	INTERGENIC	--	--	--
Ca7_P1_30267722	Ca7	30267722	AC/A	GGATGGTGATCAAATA GGGC	ACCGCATTAGCAATTA TGCC	59.2	488	INTERGENIC	--	--	--
Ca7_P1_30269288	Ca7	30269288	AAAT/A	ATTTAATTCGGCTTTGC GTG	AAAACGGGTGGCACA TAGA	60.1	620	INTERGENIC	--	--	--
Ca7_P1_30276321	Ca7	30276321	AATA/AATATA	TGCGATTTGTTGAAGT GTGC	TCTCAATTGCTTCTTG ATGGG	60.9	902	INTERGENIC	--	--	--
Ca7_P1_30276513	Ca7	30276513	AAAT/AAATAAT	TTTCCATCATCAATTCC TTTTG	GAGGTATGGTGCAAC CTGCT	58.9	686	INTERGENIC	--	--	--
Ca7_P1_30276608	Ca7	30276608	TCACA/TCA	TGACAACCTGGTAAAT GGGTG	GAGGTATGGTGCAAC CTGCT	59.8	331	INTERGENIC	--	--	--
Ca7_P1_30278558	Ca7	30278558	ATT/ATTT	CCCGTGGTTATTGCAT TTTC	AATACAGATTGGGC GTTG	60.2	529	DRR	Ca_11700	C	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_30279217	Ca7	30279217	T/TCTAGGCC	CAACGCCCAAATCTGG TATT	TGCTAATCAGCATTTT CCCC	59.8	517	INTRON	Ca_11700	C	--
Ca7_P1_30279446	Ca7	30279446	TTTGTAGAC/T	CAACGCCCAAATCTGG TATT	TGCTAATCAGCATTTT CCCC	59.8	517	INTRON	Ca_11700	C	--
Ca7_P1_30280166	Ca7	30280166	GAAA/GAAAA	GATGTCCTCTCCATGC CATT	ATGTGAAGCATAGGCT TGGG	59.9	300	INTERGENIC	--	--	--
Ca7_P1_30280995	Ca7	30280995	TAATAAA/TAATAATAAA	AATCGCAATTGTGCGT AATG	CGGATTTTATCATCGG TCGT	59.6	114	INTERGENIC	--	--	--
Ca7_P1_30286207	Ca7	30286207	CG/CGATCAG	TGCATCTGCCTAATGC AAAG	ATCTTGCCAAAACAAG CAGC	60.0	479	INTERGENIC	--	--	--
Ca7_P1_30287989	Ca7	30287989	TTATATATATATATATATATAT/TTA TATATATATATATA	TTAATTTTGCATCCCC TCG	GCTCATTGGTTCGAAG TTCA	59.9	118	INTERGENIC	--	--	--
Ca7_P1_30293853	Ca7	30293853	TAGAAAAAGAAA/TAGAAAAAGAAAA GAAA	CTCAAGATCTCGTGGT GCAA	ATAAGCTTGCTTGTCT CGCC	60.0	644	DRR	Ca_11698	QI	bHLH
Ca7_P1_30294894	Ca7	30294894	A/AT	GTCGTGGTCTACTCC GAAA	AAAGTCGCATCCTCTC AAAAA	60.1	320	INTRON	Ca_11698	QI	bHLH
Ca7_P1_30298307	Ca7	30298307	GATATATATA/GATATATA	GCTTGGTGTCCCAAC AAGT	TGGGACCAAAACAGAA GAGAA	60.0	583	INTRON	Ca_11698	QI	bHLH
Ca7_P1_30298620	Ca7	30298620	CTATATATATATA/CTATATATATA	GCTTGGTGTCCCAAC AAGT	CTTTCATGCATGCCGA TTTA	60.0	923	INTRON	Ca_11698	QI	bHLH
Ca7_P1_30299799	Ca7	30299799	TA/TAA	CGACGGTTTCACATGG AGTA	TGAGATCGACTACCGT TTCG	59.6	102	INTERGENIC	--	--	--
Ca7_P1_30301266	Ca7	30301266	TGA/T	CCTAAACCAATGTAC CTTCAA	TTTGAAGTATTATCG GGCCA	59.0	516	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_30303300	Ca7	30303300	AACACACACACA/AACACACACA	GAACCGATGGTTACAC TCCAA	CGTCATCGGATTGAAG GAAT	59.8	666	INTERGENIC	--	--	--
Ca7_P1_30303734	Ca7	30303734	GTT/GTTAATT	TGACGGTCAAGGTAA CGTG	GGGGGCCTAACAAAC TCAAT	59.6	188	INTERGENIC	--	--	--
Ca7_P1_30306601	Ca7	30306601	GATATA/GATA	TCCTGCTCCGAAAGGA ATAA	GGAAAGTGATGGTTTG GACG	59.8	288	INTRON	Ca_11697	QI	B3
Ca7_P1_30306922	Ca7	30306922	AT/ATT	TCCTGCTCCGAAAGGA ATAA	TCATAAAGCACGACC CTCC	59.8	784	INTRON	Ca_11697	QI	B3
Ca7_P1_30308260	Ca7	30308260	GAAAAAAAA/GAAAAAAAA	ACCCATGTCGTCATCC ATTT	ATCATGGCTCCTATGG TTGG	60.1	602	INTRON	Ca_11697	QI	B3
Ca7_P1_30309875	Ca7	30309875	GTTACTTACTT/GTTACTT	CAAAAAGACAAGGGAG AAATGA	TGGGATGGCCTATTAT TGGA	59.6	125	CDS (FRAME SHIFT)	Ca_11697	QI	B3
Ca7_P1_30310573	Ca7	30310573	GAA/GAAA	TTACTTCCCACAAAT CCG	TTGAAGATAATCGGA AGGG	59.8	865	INTERGENIC	--	--	--
Ca7_P1_30312721	Ca7	30312721	AA/AAATA	TTGTTTAAACCCCTCTGA TTTTCG	GGTGACATTGGTTTAG GTGTGA	59.5	340	INTERGENIC	--	--	--
Ca7_P1_30314371	Ca7	30314371	GTCTGA/GTCTGAGACTCTGA	CCGCCTCTTATTGAAG ATCG	TTGGTTTGAAATTTT GGGG	59.8	354	INTERGENIC	--	--	--
Ca7_P1_30317073	Ca7	30317073	CAAAAA/CAAAA	ACCAAACATCAAAAGC CCAG	TGACCACATTTTCGTG CAAT	60.0	557	DRR	Ca_11696	QI	B3
Ca7_P1_30317892	Ca7	30317892	T/TTG	CATTGCACGAAATGT GGTC	TTGCCTTTTCAATTTT CGG	60.0	633	INTRON	Ca_11696	QI	B3
Ca7_P1_30320502	Ca7	30320502	GAAACAAAATTAAACAAAAT/GAAAC AAAAT	AAAAGATCAAAATCGC CGAA	GGCATGTACTCCATTC CCAT	59.7	631	INTRON	Ca_11696	QI	B3

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_30326797	Ca7	30326797	CTTTT/CTTTT	AATGCAATATTGGCAC ATCG	AGGACAAGACCAACCT CCCT	59.4	249	INTERGENIC	--	--	--
Ca7_P1_3033651	Ca7	3033651	TAAAAAAAA/TAAAAAAAA	TCCGAATACCATTGTT CAAAA	ACGGGAATCAAGAAGA GGGT	58.0	760	INTERGENIC	--	--	--
Ca7_P1_30337789	Ca7	30337789	TTATATATAT/TTATATAT	TTCTCTCACAATGTTCTT TTGG	TGGCATATGCGACAAA GACA	60.0	778	INTERGENIC	--	--	--
Ca7_P1_30341482	Ca7	30341482	TG/T	ACCTTGAATCCACAC GAGG	GGGTATTTCAACCCGA ACAA	60.0	521	INTERGENIC	--	--	--
Ca7_P1_30342277	Ca7	30342277	TA/T	ATACCAATGGGGGAAA GGAG	TCAAGCCAATGTTTCC ATCA	60.0	699	INTERGENIC	--	--	--
Ca7_P1_30344654	Ca7	30344654	GAAAAAAAAAAAAA/GAAAAAAAAA	GGAAGAGGGAGCTTAA TGTTTTG	TTCCAATTTTGGAGTG TGGA	60.5	585	INTERGENIC	--	--	--
Ca7_P1_30345500	Ca7	30345500	TTATATATATATATATAT/TTATATAT ATATATATAT	ATGACAACGCAATTG CATA	TTTGAATTTTCCGTC CCAC	60.1	303	INTERGENIC	--	--	--
Ca7_P1_30359172	Ca7	30359172	CT/CTTT	CGGATAAGCACGCTCT TAGG	GAGATTGAAGGGTTT GCCA	60.0	349	DRR	Ca_11693	O	C2H2
Ca7_P1_30365181	Ca7	30365181	CAAAA/CAA	TTTTCTTCTGCGATT GCTT	CGGTCACATTGGAACA CAAG	60.1	610	INTRON	Ca_11693	O	C2H2
Ca7_P1_30365537	Ca7	30365537	GAAAAA/GAAAAA	CTTGTGTTCCAATGTG ACCG	GCAATACCAGCTTAGA GGAAGC	60.0	299	INTRON	Ca_11693	O	C2H2
Ca7_P1_30366631	Ca7	30366631	CTCTTCT/CTCTTCTCT	TCACTTTTGAACAGC CATTT	AAAACTCTGTGCGAT TCCA	59.6	867	INTERGENIC	--	--	--
Ca7_P1_30367429	Ca7	30367429	GTTTTTTTTTTT/GTTTTTTTTT	AGCATTTGTTTGGTTC TGCC	TTTTGATCCCTTCACC CTAAA	60.1	666	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_30394299	Ca7	30394299	A/AAG	TGCCCAAAAATTCAAA GTCC	TGGATTTGCATCGAAG ATGA	59.9	579	INTRON	Ca_11690	--	MYB_related
Ca7_P1_30394719	Ca7	30394719	TATA/T	TCATCTTCGATGCAAA TCCA	TGTCGTCGGATTTAAA TGTTTTT	60.2	375	INTRON	Ca_11690	--	MYB_related
Ca7_P1_30394911	Ca7	30394911	TAAAAAA/TAAAAA	TCATCTTCGATGCAAA TCCA	TTTTCTCACCATCAA GCTGTC	60.2	783	INTRON	Ca_11690	--	MYB_related
Ca7_P1_30395077	Ca7	30395077	AAGAGTTTA/AA	AAAGTGCTCGCATCT ATGTA	TTTTCTCACCATCAA GCTGTC	57.6	540	INTRON	Ca_11690	--	MYB_related
Ca7_P1_30395813	Ca7	30395813	CTATATATATAT/CTATATATATAT	TCGATTCTCTCCCATG AAATC	AGGGAACGAAATTCTG CTCA	59.1	556	INTRON	Ca_11690	--	MYB_related
Ca7_P1_30397276	Ca7	30397276	CATATATATATATAT/CATATATATATA TATATATATATAT	TCCGAACCCCTCTTT TATT	TGGACGAAGGTTTCCG TTAG	59.8	317	INTERGENIC	--	--	--
Ca7_P1_30415401	Ca7	30415401	ATG/A	GGAGTCATTCTCTCC ATGAA	GTCTCGTCCCTCATG TTGT	59.1	683	INTERGENIC	--	--	--
Ca7_P1_30420041	Ca7	30420041	AATGTATCTA/AA	ATGCAGGATTAGGCA GTTG	CCGATTCTATCATCG CAAT	60.1	667	INTERGENIC	--	--	--
Ca7_P1_30424159	Ca7	30424159	A/AT	TCATCTTCGATGCAAA TCCA	AGGAGTTCGCATCCA ATAAC	60.2	407	DRR	Ca_11688	--	MYB_related
Ca7_P1_30424740	Ca7	30424740	TAA/TAATAATAATAAAAA	GTTATTGGATGCGACC TCCT	GTGGAATGGTGAAGAT TGGG	59.0	848	DRR	Ca_11688	--	MYB_related
Ca7_P1_30629758	Ca7	30629758	ATT/ATTT	AACAACCCAACCCCA CTGT	AGAGATGTTCTGTTGGT CTGC	60.2	836	INTERGENIC	--	--	--
Ca7_P1_30634315	Ca7	30634315	TTATATATATATATATATATAT/TTAT ATATATATATATATATATATATATAT AT	AACCATGTTGTCTCA ACACC	ATTTGTGAGGGCTCAA ATCG	59.7	470	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_30662891	Ca7	30662891	TAAAAAAA/TAAAAAA	TTGGGGTAGTAAACC TCAAGAGT	GGTCTGGGTGTCAAAC CTGT	59.5	275	INTERGENIC	--	--	--
Ca7_P1_30668720	Ca7	30668720	ATTTTAATTATAATAATTTTAATTATA AT/ATTTTAATTATAATAATTTTAATTA TAATAATTTTAATTATAAT	TTGACACCAACGGAAC GTAA	CAAGGTAGCATCCCC ACTA	60.0	905	INTERGENIC	--	--	--
Ca7_P1_30679013	Ca7	30679013	TTAATAATA/TTAATA	AGAGGGGCCAAGAAG ATCAG	CAACAATTACGACCAA CATGG	60.7	158	INTERGENIC	--	--	--
Ca7_P1_30680905	Ca7	30680905	ATT/AT	GTTGGAGCATTGTGAG GGTT	CACCATTAGTCGAAAG AGCCA	60.0	772	INTERGENIC	--	--	--
Ca7_P1_30688664	Ca7	30688664	C/CAT	TTTGCGACCAAACTCA CAAC	CCCCACTCGTTAAAGT CCAA	59.7	506	INTERGENIC	--	--	--
Ca7_P1_30690429	Ca7	30690429	A/ATAT	TGCATGCGTAGCAAAA CATT	TTTGCCGAATCAATGT GAGA	60.3	142	INTERGENIC	--	--	--
Ca7_P1_30692480	Ca7	30692480	TGAAA/TGAAAGAAA	CAATGGAATGGTTAA TGAACAAA	TCACCGGTTTCAAATC ATCA	60.0	463	DRR	Ca_23327	--	ERF
Ca7_P1_30705736	Ca7	30705736	CTTTAATAGTTTAAT/CTTTAAT	CGAAGAATAAGCTGCA AGGC	TCCAAATCATCCTTAC AACACA	60.1	623	INTERGENIC	--	--	--
Ca7_P1_30707845	Ca7	30707845	G/GC	CGCAATAAGCCTAGA ATGG	CTGCACCATTTTGATT GTGG	59.7	347	INTERGENIC	--	--	--
Ca7_P1_30709199	Ca7	30709199	T/TA	GCTGCAATTTCTGAAG CCAT	TTTGGAGGCTCAATTT TGCT	60.2	724	INTERGENIC	--	--	--
Ca7_P1_30728551	Ca7	30728551	TAATAAAATAAAATAAATAA/TAATA AATAAAATAAATAAATAA	CCCATACCCATTACTC ACGC	GCATGCACAACTCAAG GAGA	60.2	927	INTERGENIC	--	--	--
Ca7_P1_30739057	Ca7	30739057	AAAT/AAATTAAT	GGCAAAATCCGTTTGT AAGG	CCACAAGTTGGCAAA TTCA	59.5	395	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_30740230	Ca7	30740230	TAAAAAA/TAAAAAAA	TTCTGCCAAAATAAGC ATCG	ATCCATCCGTTCAAAG CAAC	58.9	685	INTERGENIC	--	--	--
Ca7_P1_30741706	Ca7	30741706	CTATATA/CTATA	ATCTTGCAGGTTTTGT CGCT	TGCATATTCTGATTGT GCCACT	59.9	943	INTERGENIC	--	--	--
Ca7_P1_30742245	Ca7	30742245	GATAAATAAT/GATAAAT	TGCATTATGTAACGT GGCAAA	CGATTAACTCAAGCC CAAA	59.1	348	INTERGENIC	--	--	--
Ca7_P1_30744719	Ca7	30744719	GAAAAATTAATAA/GAAAAATTAATAA AATTAATAA	ACTCCATGAATCACGA AGGC	CCCACACTCATATTCC CACTC	60.1	668	INTERGENIC	--	--	--
Ca7_P1_30746774	Ca7	30746774	TAAAAA/TAAAA	GTTTTGCACCCAATCA AACA	ATCGTGTTCTAGGG GAGTT	59.4	588	INTERGENIC	--	--	--
Ca7_P1_30747015	Ca7	30747015	TAAAA/TAAAA	TCAACAAAGCTGCAAC ACAA	TCGTGTTCTAGGGG AGTTA	59.0	493	INTERGENIC	--	--	--
Ca7_P1_30749516	Ca7	30749516	ACTC/ACTCCTC	TGCAATTTTCGGTT AAGG	CCTCAAATTAGGGAT TTGCC	59.9	598	INTERGENIC	--	--	--
Ca7_P1_30750522	Ca7	30750522	A/AT	AACCCCAAGATCCCAA TTTC	TAAATGCCCGACTGA AAAG	60.0	107	INTERGENIC	--	--	--
Ca7_P1_30754226	Ca7	30754226	ATTTTTTTTT/ATTTTTTTT	GACGCAATTGTAGCCA CTGA	TTTGCAAATTTGGATG TGGA	59.9	522	INTERGENIC	--	--	--
Ca7_P1_30758400	Ca7	30758400	CTAA/CTAAAAATAA	AGAGACGCATGCAAAA GGAT	ATGCATTGTCCCGTTG AGTT	59.8	796	INTERGENIC	--	--	--
Ca7_P1_30760339	Ca7	30760339	AA/AACA	TCAGCCAGAATCCAT TTCC	CGCGTATGAGTTGTTG TCGT	60.0	399	INTERGENIC	--	--	--
Ca7_P1_30763146	Ca7	30763146	C/CAG	CTTAGCCAGAGATTGA GCCG	CCATTGCCAAAGGACA GATT	60.1	237	INTRON	Ca_23324	--	HD-ZIP

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_3076524	Ca7	3076524	ATTTT/ATTT	GAAATGGATTGTGGA GGGA	CCTCTTAGGTGTGCCT CTGC	59.7	742	INTERGENIC	--	--	--
Ca7_P1_30768192	Ca7	30768192	TC/T	TGTGATGCTTCATTGC TCAAC	GGATCAATGGTTGAGA TCGG	59.9	176	DRR	Ca_23324	--	HD-ZIP
Ca7_P1_30770470	Ca7	30770470	GAA/GAAA	GAAGGAGTTGGGCCGA CATA	CCATGGCTGATAATGG TGTG	59.9	488	INTERGENIC	--	--	--
Ca7_P1_30771999	Ca7	30771999	ACCC/ACC	GAGGCGGTGAAAGAA GAGTG	CATGGTGTGCAACTAG GTCG	60.0	898	DRR	Ca_23323	--	--
Ca7_P1_30772034	Ca7	30772034	GATATATA/GATA	GAGGCGGTGAAAGAA GAGTG	CATGGTGTGCAACTAG GTCG	60.0	898	DRR	Ca_23323	--	--
Ca7_P1_30772311	Ca7	30772311	GTATA/GTATATATA	CCCTTTTACTTCACCAA GGC	CATGGTGTGCAACTAG GTCG	58.7	347	DRR	Ca_23323	--	--
Ca7_P1_30778138	Ca7	30778138	CTTTT/CTTTTT	CAACATCAATTCACATC TCTTCG	CAACCAAGTCTTACGA TGCAAA	59.6	178	INTERGENIC	--	--	--
Ca7_P1_30778209	Ca7	30778209	CTATAAATAGAAT/CTATAAATAGAATT ATAAATAGAAT	CAACATCAATTCACATC TCTTCG	CAACCAAGTCTTACGA TGCAAA	59.6	178	INTERGENIC	--	--	--
Ca7_P1_30779336	Ca7	30779336	TCCC/TCCCC	CTTTTCAGAACTGTGG TTTGGA	ACATGCCATTACCTC ATCA	59.3	509	INTERGENIC	--	--	--
Ca7_P1_30789360	Ca7	30789360	A/AAGAC	TTTTCACCCCCTCTCT CTGA	TCCAAGATTGCGACGG TATT	59.8	406	DRR	Ca_23322	--	--
Ca7_P1_30791008	Ca7	30791008	TTGTAAACCATGAATCTTATGTAA/TT GTAAA	GGAAGAAGGATAGGGT TAATGG	CAACAAATGTGGTTTG TCACG	58.0	537	INTERGENIC	--	--	--
Ca7_P1_30795636	Ca7	30795636	A/AAAC	AAAGCTGAGAAGCAAT CCAAA	CATGGCGTCTCACCTA CCTT	59.1	354	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_30804917	Ca7	30804917	TTCTCTCTCT/TTCTCTCT	TCCCAACACTCGTCT TTCT	TCGCAAGATCTTTCAT GGTG	60.0	261	INTERGENIC	--	--	--
Ca7_P1_30805456	Ca7	30805456	AAATAATAATAATA/AAATAATAAT AATAATAATA	TTACCGAATCGTGAAC CTCC	CCTACACAATTTTGGGA CGGAA	59.9	612	INTRON	Ca_23321	O	--
Ca7_P1_30805803	Ca7	30805803	AAGAAATAGAAATAGAAATAGAAA/AA GAAATAGAAATAGAAA	CCTCGCTTTGCTACTC TGGT	CTGCGGCAGACTGTAA ACAA	59.6	771	INTRON	Ca_23321	O	--
Ca7_P1_30806501	Ca7	30806501	TG/T	GCTCGTCATGGGGAGT AAAA	GAAATACCCCGCCAGT GTTA	60.1	673	INTRON	Ca_23321	O	--
Ca7_P1_30807395	Ca7	30807395	T/TA	TAACACTGGCGGGGTA TTTC	CTCGTCAAGACGGACA TGAA	59.8	720	INTRON	Ca_23321	O	--
Ca7_P1_30808723	Ca7	30808723	CG/CTTATG	AACCACTTGCTTCCCA AAAA	CAAGCTACCTGGACCC TCTG	59.6	456	INTRON	Ca_23321	O	--
Ca7_P1_30808822	Ca7	30808822	CAAA/CA	AACCACTTGCTTCCCA AAAA	CAAGCTACCTGGACCC TCTG	59.6	456	INTRON	Ca_23321	O	--
Ca7_P1_30814277	Ca7	30814277	TT/TTTGATTGTAAAAT	GACGCAATTTGCATGA TACG	TGCAACAACCTTTTCG ATGC	60.1	355	INTRON	Ca_23321	O	--
Ca7_P1_30814290	Ca7	30814290	GAAAAAA/GAAAAAA	GACGCAATTTGCATGA TACG	TGCAACAACCTTTTCG ATGC	60.1	355	INTRON	Ca_23321	O	--
Ca7_P1_30814492	Ca7	30814492	CA/CATTTCATGA	GACGCAATTTGCATGA TACG	CCGACACTTGGGAGAT GACT	60.1	659	INTRON	Ca_23321	O	--
Ca7_P1_30823069	Ca7	30823069	T/TAAC	CGACTTTGCCCTTTGG ATAA	TCATGACACCTTTACC GAACA	60.1	491	INTRON	Ca_23321	O	--
Ca7_P1_30824053	Ca7	30824053	TA/TACGAGTAGGGAAA	GGGAAAAGGAGTCACC ACAA	GCTCGCGAATCTTCTC TTGA	59.9	601	INTRON	Ca_23321	O	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_30824955	Ca7	30824955	TTTGGGT/TT	CCAAAATTTAAGCGCC AAAC	TGACTCGGATTCTTT CCAGA	59.6	577	INTRON	Ca_23321	O	--
Ca7_P1_30825880	Ca7	30825880	CTT/CT	TGATTTGGTTTGAGTA TTGGACA	ACCATTGGCAAAGCTT CTTG	59.4	499	INTRON	Ca_23321	O	--
Ca7_P1_30838333	Ca7	30838333	TTT/TTTTATT	AACCACGTTTCTCTTC CCCT	CCACACGTATCATGCT CCAC	60.0	262	INTERGENIC	--	--	--
Ca7_P1_30838394	Ca7	30838394	TC/T	AACCACGTTTCTCTTC CCCT	CCACACGTATCATGCT CCAC	60.0	262	INTERGENIC	--	--	--
Ca7_P1_30839285	Ca7	30839285	CGGTTG/CG	GCGGAAGCGTTCATAA AGAG	CTCTCGGGAAGATTG ACAA	60.0	557	DRR	Ca_23320	--	--
Ca7_P1_30840351	Ca7	30840351	TAAAAAAAA/TAAAAAAAAA	TTCAGACGCTAACAAT TATATGCAA	CAAATTTGGGTCACCA ATCA	60.1	554	DRR	Ca_23320	--	--
Ca7_P1_30843121	Ca7	30843121	TAAAAAAAA/TAAAAA	TTGAAAAATTCATCAA ATCCC	TTGTCTGCCGCCTTA TTCC	60.0	455	INTERGENIC	--	--	--
Ca7_P1_30847043	Ca7	30847043	ATTATTTATTTATTT/ATTATTTAT TTATTTATTTATTT	GCAAAATGGGTATGGG TACG	CCCTATTACCTCTGG ATACCT	60.1	611	INTERGENIC	--	--	--
Ca7_P1_30856324	Ca7	30856324	TTATATATATATATATATATATAT AT/TTATATATATATATATATATAT	GTGCAGTTGCAGGAGT TGAA	TAAAGCCCTCCCTCC ACTT	60.0	487	INTRON	Ca_23319	T	HB-other
Ca7_P1_30858655	Ca7	30858655	TCATAAACATA/T	TTGGGTGCAAAATTGA AAAA	CGTTGTTCCAACATAC AGGTTA	59.0	860	DRR	Ca_23319	T	HB-other
Ca7_P1_30869621	Ca7	30869621	CA/CAA	CAAACCGATGTGTCAT TCCA	CCAATTCTACCGGAT TTGT	60.4	492	INTERGENIC	--	--	--
Ca7_P1_30870269	Ca7	30870269	GTTGAATACACTTGAATACACTTGAAT ACACTTGAA/GTTGAATACACTTGAAT ACACTTGAA	TTAAGATTTGGTTGGG CTGC	GAACCAGACCCAGCA GTTGT	60.1	307	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_30874290	Ca7	30874290	TAA/TAAA	TTGTCTCAACAATCTC CCCC	ACCACCTCACTGCCCT ACAC	59.9	734	DRR	Ca_23317	--	--
Ca7_P1_30895999	Ca7	30895999	CTTTTT/CTTTTTTT	TTTTGCACTTTATCCC CCT	TTTCGCAATTTTGATC CTCC	58.6	624	INTERGENIC	--	--	--
Ca7_P1_30908847	Ca7	30908847	CGG/CGGG	AACATCAAACAAAGCC AGGG	TTCAAGAAATCCACTT CCCG	60.0	304	INTERGENIC	--	--	--
Ca7_P1_30915082	Ca7	30915082	TTT/TTTAACAGAAGCTT	TCCGTGCTAATAGATT CCAACA	GCGTCCTCCATAAGG ATCA	59.6	337	INTERGENIC	--	--	--
Ca7_P1_30915295	Ca7	30915295	AACGAGA/AA	GATCCTTATGGAAGGA CGCA	CATGCTTTTCACCCTA TGCTC	60.0	190	INTERGENIC	--	--	--
Ca7_P1_30919347	Ca7	30919347	ACTC/ACTCTC	ACCCTCACTCATCGTC AACC	AAATGTCGGTCTTTTC ACGG	60.0	314	INTERGENIC	--	--	--
Ca7_P1_30919448	Ca7	30919448	GCTCTCTCTCT/GCTCTCT	ACCCTCACTCATCGTC AACC	AAATGTCGGTCTTTTC ACGG	60.0	314	INTERGENIC	--	--	--
Ca7_P1_30921302	Ca7	30921302	TC/T	GGGATTTCGAAACACC ACAC	CATTGGCGCTCCCATA TACT	60.2	565	INTERGENIC	--	--	--
Ca7_P1_30921433	Ca7	30921433	TAAAAAAAAA/TAAAAAAAAA	GGGATTTCGAAACACC ACAC	CATTGGCGCTCCCATA TACT	60.2	565	INTERGENIC	--	--	--
Ca7_P1_30930614	Ca7	30930614	TCC/TC	CCACTCAAGGCCAGTG ATTT	ATGAGCAGCACCAACA TCAA	60.1	222	DRR	Ca_23314	--	--
Ca7_P1_30947992	Ca7	30947992	CAAAAAAAAAA/CAAAAAAAAAA A	TTTCTGCAACAACCTTC GTCG	TCTCGTGGTAATTGGC AACA	60.0	525	INTERGENIC	--	--	--
Ca7_P1_30967683	Ca7	30967683	ATTTT/ATTTTT	CCCCATGATCTCCCT TTTT	GCAACAAACCTATGTC AGGT	60.1	355	DRR	Ca_23312	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_30968806	Ca7	30968806	TTGTGAGGTG/TTG	TTGGAACAACCACAA CGAA	ATGGGTACCGTCAAA AACC	60.0	601	INTERGENIC	--	--	--
Ca7_P1_31047113	Ca7	31047113	TTTA/T	TGCGGAAAAGAGTCAA GTCA	AGCGAGCTCCCTTTCC TTAC	59.6	458	INTERGENIC	--	--	--
Ca7_P1_31048829	Ca7	31048829	A/AAAT	TATCGGCTTTGCTTCT CGTT	GATGCCCTTTGGCCTA TACA	60.0	784	INTERGENIC	--	--	--
Ca7_P1_31082343	Ca7	31082343	ACCC/ACCCC	CGACGCTTGATCGTTA ATTG	TTGGAGTGAAAATGGG AAGG	59.3	639	INTERGENIC	--	--	--
Ca7_P1_31087270	Ca7	31087270	TAAAAAA/TAAAAAAA	ACAGGGAGCTCCATT CCTT	TGCAATGCAATGTCCA TTTT	60.1	190	INTERGENIC	--	--	--
Ca7_P1_31093121	Ca7	31093121	AGGG/AGG	ACAGTCTGGATAGGCT TGTG	CCGTCGTGTCCAAAA TAAG	60.1	167	INTERGENIC	--	--	--
Ca7_P1_31112471	Ca7	31112471	TGG/TG	GCAAAGGCACTCATTC CATT	GCAAAACACGAGAAG GAGG	60.1	493	INTERGENIC	--	--	--
Ca7_P1_31116991	Ca7	31116991	TTATAT/TTAT	TTTTTATAACATGCG CAACA	GCAATGCATGTGATTC AAGG	59.2	395	INTERGENIC	--	--	--
Ca7_P1_31121783	Ca7	31121783	ATTTTTTTTTTT/ATTTTTTTTTT	GGGTCGTATCTCGCT TGAA	TGCCCCATAGATGACA ACAA	59.9	726	INTRON	Ca_10144	R	--
Ca7_P1_31133335	Ca7	31133335	GTTTT/GTTTTT	TTCTCAATCATTACTCC GACCA	TCACCGATCACTTACG TTGC	59.6	562	INTERGENIC	--	--	--
Ca7_P1_31146442	Ca7	31146442	TTATATATAT/TTATAT	TAGGGATTGAGCTGGC TCTG	TAGAAGACCTTGACCG TGCC	60.5	765	INTERGENIC	--	--	--
Ca7_P1_31147016	Ca7	31147016	ATGAGCT/AT	GGCACGGTCAAGGTC TCTA	TTATGCTCGTGGTCGT TTGA	60.3	753	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_31148166	Ca7	31148166	GAAA/GAA	TCATCATCCCAGCTCC TCTC	TTTGTACCTGCACCA ACCA	60.2	732	INTERGENIC	--	--	--
Ca7_P1_31148713	Ca7	31148713	TTTTAT/TTTTATTAT	TGGTTGGTGCAGGTAA CAAA	CTTTCCAATATATCCG GGTCA	60.0	149	INTERGENIC	--	--	--
Ca7_P1_31150411	Ca7	31150411	AA/AAAGTA	GGAACGGCTTCTAGAA TTAGCA	CACGCATGATGGTAGC CTTA	59.9	146	INTERGENIC	--	--	--
Ca7_P1_31152594	Ca7	31152594	CA/CAAA	TGAACACTTAGACCGT GTTTGG	CAGCGTAATGCCGAC CTATT	60.1	540	INTERGENIC	--	--	--
Ca7_P1_31154886	Ca7	31154886	ATTTTTTT/ATTTTTTTT	CTGCATAATGACGAT GACG	TGTAACCTTCTGACTTT GTCCTTTTG	60.2	627	INTERGENIC	--	--	--
Ca7_P1_31155379	Ca7	31155379	TAA/TAAC TCA	CAAAAGGACAAAGTCA AGAAGTTACA	CCTTACACAATTGCAA GGTTGA	60.1	299	INTERGENIC	--	--	--
Ca7_P1_31156096	Ca7	31156096	TATAGATAGATA/TATAGATAGATA TA	TGCATTCAACACAAGC AACA	TGAAGGGGAAGATTG GTTTG	59.9	359	INTERGENIC	--	--	--
Ca7_P1_31156271	Ca7	31156271	CCTTC/CCTTCTTC	TGCATTCAACACAAGC AACA	GTTTCTCAATTGCAGC CCAT	59.9	740	INTERGENIC	--	--	--
Ca7_P1_31162794	Ca7	31162794	TTTAATTAATAAA/TTTAATTAATAAAT AATTAATAAA	ACTGGTGGAGCTCTCA TGCT	CCAATTCGTTGCATC TTCT	60.0	913	INTRON	Ca_10142	Q	E2F/DP
Ca7_P1_31165634	Ca7	31165634	ACTCTTCAACATTAGTGCT/ACT	GCAAAGTTGCTCCTAC TGGC	TTCCAGCAGCCCTTTC TCTA	60.0	642	INTRON	Ca_10142	Q	E2F/DP
Ca7_P1_31167619	Ca7	31167619	A/AT	AGCACCAACTTGTTCC AAGC	TTTTGTTCTCCCTCAC TCCG	60.3	678	DRR	Ca_10142	Q	E2F/DP
Ca7_P1_31167770	Ca7	31167770	TATAGA/TA	TCGAGATGTCATCGCA AATAA	TTTTGTTCTCCCTCAC TCCG	59.3	316	DRR	Ca_10142	Q	E2F/DP

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_31169965	Ca7	31169965	ATTTTGAATCTTTTGAATCTTTT/AT TTTGAATCTTTT	AACAGCCGCAACACTC TCTC	TGATCCTCACTGGCCC TATC	60.6	499	INTRON	Ca_10141	C	--
Ca7_P1_31175781	Ca7	31175781	ATT/ATTT	TTGCACCATAAAAGTG CAGC	CTCACCCCAACATAGC ATTT	59.9	592	DRR	Ca_10141	C	--
Ca7_P1_31176060	Ca7	31176060	A/AAAGG	TCCTACAAGAAAGCAT GCCA	CTCACCCCAACATAGC ATTT	59.4	567	DRR	Ca_10141	C	--
Ca7_P1_31181804	Ca7	31181804	T/TCAAAAA	TCACACACAAAATTGAA GATGGA	CCATTGCTTGATTGA TTTG	60.4	600	INTERGENIC	--	--	--
Ca7_P1_31182525	Ca7	31182525	TAAGAAAAGAAA/TAAGAAA	ATTTGCAACTAGCCCC ACAC	TGGTTTTACATTGGA CTGACG	60.0	534	INTRON	Ca_10140	T	--
Ca7_P1_31185789	Ca7	31185789	ATTTTTTT/ATTTTTTT	GGATTCAAATCTTGGT GATGAA	TTCCGGGTCTCTCAAA AGTG	58.9	702	DRR	Ca_10140	T	--
Ca7_P1_31188755	Ca7	31188755	TAAAAA/TAAAA	TTAACCAATGACACTG GAAGG	CCCTCAAATCATCTTC AAATCA	57.6	848	INTERGENIC	--	--	--
Ca7_P1_31188947	Ca7	31188947	ATTTTT/ATTTT	TTGCACGTTGAATTAA AAACTCTT	TCACGCTTCTTTCGT TCCT	59.3	501	INTERGENIC	--	--	--
Ca7_P1_31194863	Ca7	31194863	ATTT/ATTTT	TTGTGGGAGAGGGAG ATGAC	CACACAAAATTGCAAC CACA	60.0	634	DRR	Ca_10139	K	NAC
Ca7_P1_31194970	Ca7	31194970	ATTTCTTTT/ATTT	TTGTGGGAGAGGGAG ATGAC	CACACAAAATTGCAAC CACA	60.0	634	DRR	Ca_10139	K	NAC
Ca7_P1_31195222	Ca7	31195222	TG/T	TGTGGTTGCAATTTTG TGTG	TTTTGAATCTCAATTCT CGCAA	59.0	452	DRR	Ca_10139	K	NAC
Ca7_P1_31196099	Ca7	31196099	TAAAAAAA/TAAAAAAA	CAACCAAGATTTTGAT GAGTCG	CACGAGGTAGTTTTG TCTTTC	59.6	622	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_31196149	Ca7	31196149	ATTTT/ATTT	CAACCAAGATTTTGAT GAGTCG	CACGAGGGTAGTTTG TCTTTC	59.6	622	DRR	Ca_10138	--	--
Ca7_P1_31199747	Ca7	31199747	TGG/TG	TCAAGCGATTTCACGA CAAG	TGGTCGTGTTGCGTTT AAGA	60.0	406	DRR	Ca_10137	--	bHLH
Ca7_P1_31199858	Ca7	31199858	TTTCTTCTTC/TTTCTTC	TCAAGCGATTTCACGA CAAG	TGGTCGTGTTGCGTTT AAGA	60.0	406	CDS (large-effect mutations)	Ca_10138	--	--
Ca7_P1_31200725	Ca7	31200725	TAAA/TAA	TCCAATAATTACCGCA ATGG	AAATCCCGGTCCTTTA ACGC	58.4	649	DRR	Ca_10137	--	bHLH
Ca7_P1_31201080	Ca7	31201080	C/CGGA	TGATCCACCATGTCCA TCAT	TACGACCCGACATGAA ACAA	59.6	346	DRR	Ca_10137	--	bHLH
Ca7_P1_31202147	Ca7	31202147	TA/TAA	CATGCTCATGGAATCA GGTG	ATTTGGCGTTGTCCTT TTTG	60.1	370	INTRON	Ca_10137	--	bHLH
Ca7_P1_31204267	Ca7	31204267	TAAATTAAACAAAT/TAAAT	TCCTAAGCCACCAATG ATCC	CTGGTGATCCTTTTCC TCCA	59.9	267	INTRON	Ca_10137	--	bHLH
Ca7_P1_31205971	Ca7	31205971	CAAAAAAAAAAAAA/CAAAAAAAAAA	ACCTGGCAACACATCA AACA	TGCAAGTCGCTTTTCTC CTTT	60.0	785	INTERGENIC	--	--	--
Ca7_P1_31209982	Ca7	31209982	TAAAAAAA/TAAAAAAA	AGCATGTGTACGACCC ATCA	TTGGTGCGTTGTTTCGT TTTA	60.0	704	DRR	Ca_10136	--	ARF
Ca7_P1_31210639	Ca7	31210639	TC/T	TAAAACGAACAACGCA CCAA	TGGATATGGGCTGAGA AAGG	60.1	602	DRR	Ca_10136	--	ARF
Ca7_P1_31210939	Ca7	31210939	CTC/CTCAATC	CCTTTCTCAGCCCATA TCCA	TCAACAATGCAAACGA AGGA	60.0	306	DRR	Ca_10136	--	ARF
Ca7_P1_31213637	Ca7	31213637	TAAAAAAA/TAAAAAAA	GTTTGCATGCACCACA ATTG	AAAGAAGCCACGAAAA GGGT	60.0	356	INTRON	Ca_10136	--	ARF

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_31214739	Ca7	31214739	CTTTTTTTTT/CTTTTTTTTT	ATCAATTGCATGTGG CTCT	ACCAACTTAAGCGCA CAAC	60.5	697	DRR	Ca_10135	G	--
Ca7_P1_31215378	Ca7	31215378	GAAAAAAAA/GAAAAAAAAA	GTTGTGCCGCTTAAGT TGGT	ATGGGACCACTTGGTG GTAA	60.2	854	DRR	Ca_10135	G	--
Ca7_P1_31215551	Ca7	31215551	AT/ATT	GCACTGGATTGGAA TTGG	ATGGGACCACTTGGTG GTAA	60.3	496	DRR	Ca_10135	G	--
Ca7_P1_31225536	Ca7	31225536	GTAT/GTATAT	TCGCGGTTTACATAGG AAGG	GATTCACTGCTGGGCA TTTT	60.1	366	INTRON	Ca_10134	A	--
Ca7_P1_31231997	Ca7	31231997	CATATATATATATATATAT/CATATA TATAT	TCGTTGAAACCATACG ACCA	TCCTTGTAATTTGATT ACCCCA	60.0	909	INTERGENIC	--	--	--
Ca7_P1_31232233	Ca7	31232233	ATTTTT/ATTTTTTT	TGTTTGCTGAAGATAA AAAGGGA	TAAAAGACCGCATTGG GAAA	60.1	854	INTERGENIC	--	--	--
Ca7_P1_31232741	Ca7	31232741	ATTTT/ATTTTT	GCAAAATAGCTCTTGC GGTC	CTCTTCTCGTTGAA CGCC	60.0	565	INTERGENIC	--	--	--
Ca7_P1_31250902	Ca7	31250902	CTTTT/CTTT	TTATTGGGCTTCAAAG TGGG	TGTTCCCCAAAAACAG ATCA	59.9	666	INTERGENIC	--	--	--
Ca7_P1_31250960	Ca7	31250960	AATTT/A	TTATTGGGCTTCAAAG TGGG	TGTTCCCCAAAAACAG ATCA	59.9	666	INTERGENIC	--	--	--
Ca7_P1_31252978	Ca7	31252978	GTTATTTATTTATTTA/GTTATTTATTT ATTTATTTA	TCCATTGACTGCTCC TTTT	TTGCAACACTTTCTGG AGCA	59.7	567	INTERGENIC	--	--	--
Ca7_P1_31255066	Ca7	31255066	TTTCTTCTTCTTCTT/TTTCTTCTT	TAATTTTCAGGCACGG AAGG	GGTACCCTTTTGCTGT GGAA	60.1	437	INTRON	Ca_10132	--	--
Ca7_P1_31255147	Ca7	31255147	AC/ACTCATC	TAATTTTCAGGCACGG AAGG	GGTACCCTTTTGCTGT GGAA	60.1	437	INTRON	Ca_10132	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_31257051	Ca7	31257051	TAAAA/TAAAAA	ACAATGAGGCTGAGGG AGAG	GCCTTCACAAAGTAGC TGGC	59.4	178	DRR	Ca_10132	--	--
Ca7_P1_31258101	Ca7	31258101	TAAAAA/TAAAAA	TGGGTGCATGCAAATT TAAC	TGAATTAGTGAACCGC AACC	59.4	480	INTERGENIC	--	--	--
Ca7_P1_31265917	Ca7	31265917	TAAAAAAAA/TAAAAAAAAA	CGATTAGGATGCAAC TTTCAA	TTTCAACAAGAGGAT GGGC	59.3	829	INTERGENIC	--	--	--
Ca7_P1_31266776	Ca7	31266776	GA/GAA	GCCCATCTCTTGTTG AAAA	ATGATTGTTGGCAGTG CAGA	60.1	769	INTERGENIC	--	--	--
Ca7_P1_31277211	Ca7	31277211	TAAAAAA/TAAAAAA	GGTGCATTTGAGTTTG CTGA	CCACAAGTTTCTGGGG AAAA	59.8	336	INTERGENIC	--	--	--
Ca7_P1_31277548	Ca7	31277548	TGGGG/TGGGGG	TTCCCCAGAACTTGT GGTT	TCTAAGGGCAACCAAC TCAA	59.4	800	INTERGENIC	--	--	--
Ca7_P1_31284334	Ca7	31284334	TTATAT/TTAT	AAAAATTGAACCATCG ACGC	CAACATTGGCCAGAG GACTT	59.9	347	DRR	Ca_10131	--	MYB
Ca7_P1_31285310	Ca7	31285310	TGCCAGC/TGCCAGCCAGC	GCCACACATCATATTC ATTCCA	GCTGGATACCACACTT GGGA	60.6	492	INTRON	Ca_10131	--	MYB
Ca7_P1_31285645	Ca7	31285645	AATGATAA/AATGATAATGAGATATGA TAA	GCCACACATCATATTC ATTCCA	CAGCACCAGCACTACC AGAA	60.6	617	INTRON	Ca_10131	--	MYB
Ca7_P1_31286229	Ca7	31286229	T/TGTAC	ATGTCCCTTTCATTTTC CCC	TGCTAAACATGGATT GGGT	60.0	685	INTRON	Ca_10131	--	MYB
Ca7_P1_31287461	Ca7	31287461	ATTTTTTTTT/ATTTTTTTTTTTT	ACCTGGCCCAGATTTTC ATTT	TCAGACATCTTTGACC ACGC	60.7	935	INTERGENIC	--	--	--
Ca7_P1_31289693	Ca7	31289693	C/CTT	TGACTTTTGCTGGGGA TTTT	CCAACCAAGCTTCCCA AGTA	59.5	427	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_31290350	Ca7	31290350	T/TCA	TACTTGGGAAGCTTGG TTGG	TGAGCCCATTACATTC CAGA	60.1	742	INTERGENIC	--	--	--
Ca7_P1_31293878	Ca7	31293878	GTTTT/GTTT	TTTGACCGATTGGCTA TCCT	TGGATTGGATTGGTTT TCGT	59.5	522	DRR	Ca_10130	O	--
Ca7_P1_31294686	Ca7	31294686	AA/AAACA	ACGAAAACCAATCCAA TCCA	TGAATCTGTGAACCGC ATGT	60.2	753	DRR	Ca_10130	O	--
Ca7_P1_31295016	Ca7	31295016	TG/T	TTTGACCATTTGCTTT GAA	TGAATCTGTGAACCGC ATGT	60.2	101	DRR	Ca_10130	O	--
Ca7_P1_31295291	Ca7	31295291	CACACATGACACATG/CACACATG	ACATGCGTTTACAGA TTCA	CCTCACCTTTGACTAT GGCA	60.1	696	INTRON	Ca_10130	O	--
Ca7_P1_31295923	Ca7	31295923	AGTGT/AGTGTGT	TCCACAGGCTTCTGA AAAT	TTGCTCAAACCTCGAGT CCCT	59.7	400	INTRON	Ca_10130	O	--
Ca7_P1_31296453	Ca7	31296453	CAAAAA/CAAAA	ACTCGAGTTTGAGCAA GGGA	TATTCGGGATTTACGC AAGC	60.0	463	INTRON	Ca_10130	O	--
Ca7_P1_31296799	Ca7	31296799	CAAA/C	GCTTGCGTAAATCCCG AATA	GAGGAGGTGGGTCAT TCTCA	60.1	325	INTRON	Ca_10130	O	--
Ca7_P1_31300454	Ca7	31300454	TTAAA/TTAAATAAA	CAGGCCATAAACTCGA TGGT	CAACATTTAATGGATG GGGG	60.0	592	DRR	Ca_10129	--	C2H2
Ca7_P1_31301805	Ca7	31301805	ATAGCT/ATAGCTAGCT	AGCTCCAAGCAACTGG AAAA	ATTTGGCTTGAAGAA CGAC	60.0	546	INTRON	Ca_10129	--	C2H2
Ca7_P1_31302590	Ca7	31302590	CAATGTCAGA/CAATGTCAGAGTAGAA AAATGTCAGA	CATGTTCTTGGAGACG CAGA	GCTGTTTCAAATGCCA GTGA	60.0	691	INTRON	Ca_10129	--	C2H2
Ca7_P1_31307532	Ca7	31307532	GTTTT/GTTTTTT	ATCATACGACCACCAC CGAT	GGTTCAAAACGGCATA AACA	60.1	792	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_31313382	Ca7	31313382	GTTT/GTT	ATTTCTTTGAAGCAC ACGG	ACCCTCTGTAGCACCC ACAC	60.1	799	INTRON	Ca_10128	--	--
Ca7_P1_31319116	Ca7	31319116	CAAAA/CAAAAAA	CAGATGCAGCAGAAGC AAAG	CCAACGATTGAGATT GGCT	59.9	587	INTRON	Ca_10127	--	FAR1
Ca7_P1_31322339	Ca7	31322339	TAAAAAAA/TAAAAA	TGGTAGCAACACTAGT GCAACA	TGCAATGGAGTGCATT TTGT	59.5	501	INTERGENIC	--	--	--
Ca7_P1_31323155	Ca7	31323155	GAATAAAATATTTAATAAAATATTTAAT AAAAATA/GAATAAAATATTTAATAAAAT A	CTGGCTATGGTGTTC CTTT	TTGTCTTGACGACCCT CACA	60.1	617	INTERGENIC	--	--	--
Ca7_P1_31330956	Ca7	31330956	AT/ATT	TTGTTCTCCTTTGCCA CCTT	TGTGATGATGTCATGG GGAC	59.7	156	INTRON	Ca_10126	R	--
Ca7_P1_31332521	Ca7	31332521	GTAAT/GT	CACTCCTTCTCGCCTT TCAC	TATTTTATCAATCCGG CCCA	60.0	526	INTRON	Ca_10126	R	--
Ca7_P1_31333959	Ca7	31333959	GAAAAA/GAAAAA	CCATTGATACGGAAA AGGA	TTTAAATGGGGTTGGT TGGA	59.9	555	INTERGENIC	--	--	--
Ca7_P1_31335294	Ca7	31335294	CAAG/CAAGGAAG	TTTCTTCCGTTTCCAA TGC	ACAGCCTGTGCACTGT TTTG	60.1	605	INTERGENIC	--	--	--
Ca7_P1_31337543	Ca7	31337543	CTTTTTTT/CTTTTTTTTT	TAACAAACATGCCCA CTGA	TTTCCTTGTGAGTACC ACTTGC	60.0	290	INTERGENIC	--	--	--
Ca7_P1_31352192	Ca7	31352192	CAAAA/CAA	GCGAGCAAATCTGAA CCAT	TGTTAGGGTCAGTTCT GCCA	60.2	245	DRR	Ca_10122	U	--
Ca7_P1_31357954	Ca7	31357954	CCTACTA/CCTA	TTAAAGGACTGCCGGA GAAA	ATGGAATCTGATGGAA AGCG	59.8	183	INTERGENIC	--	--	--
Ca7_P1_31361341	Ca7	31361341	ATTTTT/ATTTTTTT	TTAACGAGGGGAAAAC ATTGA	TGAAGGTGTACGTTAG CAATCA	59.4	263	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_31361859	Ca7	31361859	TA/TAGTTCAA	TGGTTATAATCAAAATC GGTGG	TCTTCCTTAATTCGCG TCGT	58.7	426	INTERGENIC	--	--	--
Ca7_P1_31367770	Ca7	31367770	TTCT/TT	GGAATCAGACTCCTTT TGTTACATT	AGTGGGTGTGAAAAAG CCAGA	59.7	771	INTERGENIC	--	--	--
Ca7_P1_31374467	Ca7	31374467	CAAAA/CAAAAGAAAA	TTTGGACTCGCTCTAC ATGG	GCTGATGACCCAAAAC CATT	58.9	524	INTERGENIC	--	--	--
Ca7_P1_31376420	Ca7	31376420	CT/CTT	CGCCATTGAAAAATAA CTCG	GGCATGTGGTATGTCC ATCA	58.3	539	INTERGENIC	--	--	--
Ca7_P1_31378000	Ca7	31378000	AAAAATTAAATTAATAAT/AAA AATTAAATTAATAAT	AGCTTAGGGCTACCTG CACA	TACGGAACACATCATG GGAA	60.0	529	INTERGENIC	--	--	--
Ca7_P1_31378351	Ca7	31378351	T/TA	ACCTGCACACCACACA CACT	TTGACGCCTGTAAATC AATTTTT	60.1	852	INTERGENIC	--	--	--
Ca7_P1_31384635	Ca7	31384635	TAA/TAAA	GATTGGTGAAAAATGG GGTG	TGGCAATATCAATCCA CCTAGT	60.0	629	INTERGENIC	--	--	--
Ca7_P1_31390346	Ca7	31390346	TTAATCGCACAT/TT	CCCTCGTTTTTCAACA CACC	CAAACGACGATGAACG AATG	60.4	684	INTERGENIC	--	--	--
Ca7_P1_31390484	Ca7	31390484	TTCACCATCACCATC/TTCACCATCAC CATCACCATC	CGCACATTCAATCACA CACA	CAAACGACGATGAACG AATG	60.2	183	INTERGENIC	--	--	--
Ca7_P1_31393273	Ca7	31393273	TAAAAAAAAAAAAA/TAAAAAAAAA	CATGGTGAGGGTGATT TGTG	TTTGAGTTGCAATTTG ATGACA	59.8	717	INTERGENIC	--	--	--
Ca7_P1_31445548	Ca7	31445548	AATATATATATATATATATA/AATAT ATATATATATATATATA	TTTGGTAGGATGTCTT TTTGCAT	TGTCGCGTCATTTAAA ATTACT	59.9	552	INTERGENIC	--	--	--
Ca7_P1_31454131	Ca7	31454131	AGTTGTT/AGTT	CTGGCAGATGATGAAG ACGA	AAAATTTTCTGCTGCTC GATG	59.9	767	DRR	Ca_10112	E	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_31507309	Ca7	31507309	GATATATATATATATATATATAT/GATA TATATATATATATATAT	TAACTTGCAAGAGGAG CCGT	TGTGTCCTACCTGCGT CAAG	60.0	454	INTRON	Ca_10108	O	--
Ca7_P1_31531634	Ca7	31531634	TAAAAAA/TAAAAAAA	CCAAGTGCCTGAGTA TGAA	TTAGGAATGCAAATTT GGGC	60.0	401	INTERGENIC	--	--	--
Ca7_P1_31587381	Ca7	31587381	TTAAAAA/TTAAAAATAATTGTTTTA TAAAAA	GGCTTCACATGGTTGC ACTA	AAACGACAACTTTCCA GCCTT	59.7	633	INTRON	Ca_10103	R	TALE
Ca7_P1_3165517	Ca7	3165517	CATATATATATATATATATATATATA TATAT/CATATATATATATATATATATA T	AACTGAGGGAACGTTG AATTG	TGTGTGGGACCTGTTG TTGT	59.1	215	INTERGENIC	--	--	--
Ca7_P1_31675639	Ca7	31675639	CAT/CATAT	TTCTCCAATCAAAATCA GCA	TGGAATGGAGTGGAA CATGA	59.2	451	DRR	Ca_10097	R	--
Ca7_P1_31684598	Ca7	31684598	GAAAAAAAA/GAAAAAAAAA	GGTGTTCCTTTCTTCC TTGG	CCATTTAGACTTCGGA TGGG	59.7	815	INTERGENIC	--	--	--
Ca7_P1_31745904	Ca7	31745904	TCCCC/TCCC	TGCATGGAATGGTGAG TGAT	ATTGATGGGTTTACTT GGCG	59.9	219	INTERGENIC	--	--	--
Ca7_P1_31761883	Ca7	31761883	AAATAATAATAATAATAATAATAAT AATAATAATAA/AAATAATAATAATAAT AATAATAATAATAATAATAA	TTGAAGAAAACAATTGT GGTGTA	TCGAATGTCCCCAACT CATT	59.5	600	DRR	Ca_10089	R	--
Ca7_P1_31794551	Ca7	31794551	CAAAAAAAAAAAAA/CAAAAAAAAAA	GACCGTCCTTCAAAGC CATA	ACCACATGATGCTCTC CACA	60.1	463	DRR	Ca_10085	H	--
Ca7_P1_31808923	Ca7	31808923	TTCTCTCTCTCTCTCT/TTCTCTCTCT CTCTCTCT	AACTGTACCCGAGTGA TGCC	GATACAAGGGTTTCT GCCA	60.0	304	INTRON	Ca_10083	R	G2-like
Ca7_P1_3185191	Ca7	3185191	AATATATATATATATATATATATATA TATATATAT/AAATATATATATATATAT ATATATATATATATATATAT	TTGGATCGAATCTCAC CTTTTT	AAGTACCCGTGGCATC ACAT	59.9	676	INTERGENIC	--	--	--
Ca7_P1_31862312	Ca7	31862312	ATATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTATT ATTA/ATATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTA	CAAATACAATAACACCT GTCTCCG	ACTTTTCCACCCAAC TTCA	59.8	498	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_31895626	Ca7	31895626	AAAGAAGAAGAAGAA/AAAGAAG AAGAAGAAGAAGAA	TGAGTTTGTGGTGGAA CCAA	TGCAACGTCAGTGT AGCC	60.0	816	INTERGENIC	--	--	--
Ca7_P1_32016787	Ca7	32016787	AT/ATTATTATTGT	TGTCAAAAACAAACGT CCCA	GATACATCACGTTTGT GGCG	60.0	581	INTERGENIC	--	--	--
Ca7_P1_32017640	Ca7	32017640	TG/T	AGTCAGACGCTACTCG GCAT	GCGTTCCTTTGTGGCT TAAA	60.0	166	INTERGENIC	--	--	--
Ca7_P1_32102752	Ca7	32102752	GTTTT/GTTT	GGAAAGCTTCGAATGT CAGG	GAAATGTATTGTGCAC CCCC	59.8	284	INTERGENIC	--	--	--
Ca7_P1_32114393	Ca7	32114393	A/AAC	ATATTCAAGGCAAAGG TGCG	CGAGACTACTCGTGG GCTTC	60.1	505	INTERGENIC	--	--	--
Ca7_P1_32130725	Ca7	32130725	GATATATATATATAT/GATATATATATA TATAT	TGCTACATTGGTCCTT GGAA	AAAGCCCCGGTGGTAT AATC	59.1	661	INTRON	Ca_10057	--	NF-YA
Ca7_P1_32185198	Ca7	32185198	GTTTTTTTTTTT/GTTTTTTTTTTT	AATACCGAAATATGCG GTCC	TCTAATCATCACCGAT GCGA	58.8	600	INTERGENIC	--	--	--
Ca7_P1_3234931	Ca7	3234931	GAAA/GAAAA	CCTCAACAAACACGTC TTCC	AGGTGGCTTAAGCTG GTGAA	58.2	692	INTERGENIC	--	--	--
Ca7_P1_32395782	Ca7	32395782	CAAAAAAAAA/CAAAAAAAAAAA	CGATTTTGAATCCAAC AATAACA	TTTATTATTAGCGTAAA CTTTTCCAA	58.9	328	INTERGENIC	--	--	--
Ca7_P1_32410444	Ca7	32410444	ATTTTTT/ATTTTTT	GGCTTTGGTATTCAGG AGCA	GTCCTTTGTGACCCGA TGTT	60.2	616	INTRON	Ca_10037	J	--
Ca7_P1_3243289	Ca7	3243289	AGTTATTTTGATTTTGTATTTTGATT TTGT/AGTTATTTTGATTTTGT	TGAGTTGGATATCGT TTTTACAC	CATTTTGTCTAGCCA CGCA	57.4	350	INTERGENIC	--	--	--
Ca7_P1_32478186	Ca7	32478186	TATATA/TATATAATATA	CCCCGTAAACAATTT GGTG	TAGCAGGCTTGAACAT GCAC	60.1	368	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_32479028	Ca7	32479028	AATATATATATATATATATAT/AA TATATATATATATATATATATAT	AGGGAGTTTAGTGGT GGCT	CGGATGCATGAAAGT AAAA	60.0	636	INTERGENIC	--	--	--
Ca7_P1_32538351	Ca7	32538351	TTAATAATAATAATAATAATAATA TAA/TTAATAATAATAATAATAATA ATAA	CAAAGTGAGAAGTGAG CATGAGA	CCTGAAGGGGCAAGT GTATT	59.7	567	INTERGENIC	--	--	--
Ca7_P1_3259173	Ca7	3259173	TCCC/TCCCC	TAGAAAGGAATTGGCG GTGA	TCATTTTCATTTAGAAG CATGAGC	60.6	767	INTERGENIC	--	--	--
Ca7_P1_32601479	Ca7	32601479	A/AGGAATGCT	CAGCAACAGCGCAAAG ATTA	GGATGACAAAGAAAG CCAA	60.2	543	INTRON	Ca_10025	TU	--
Ca7_P1_32601813	Ca7	32601813	T/TG	CAGCAACAGCGCAAAG ATTA	GCAAGTGATTGCAAAG CAAA	60.2	652	INTRON	Ca_10025	TU	--
Ca7_P1_32614218	Ca7	32614218	AAAAAATTATAAA/AAAA	AAATAAAATCTTTCGCC CCC	GGAGGGATTGCAGTG ACAGT	59.3	525	INTERGENIC	--	--	--
Ca7_P1_32614250	Ca7	32614250	ATT/AT	AAATAAAATCTTTCGCC CCC	GGAGGGATTGCAGTG ACAGT	59.3	525	INTERGENIC	--	--	--
Ca7_P1_32649545	Ca7	32649545	T/TC	TTGCAGGATGCACAGA AAAG	AGGTGCATCCCCTGTA ACTG	60.0	415	INTERGENIC	--	--	--
Ca7_P1_32650059	Ca7	32650059	TAATAATGTAAAAA/T	ATGGGACTGTGGGAGA GAGA	GAAAAAGGCTTCAAAC ATCAAA	59.6	398	INTERGENIC	--	--	--
Ca7_P1_32653182	Ca7	32653182	G/GA	TTTTCAAATTTCCGGT TGC	CCAATTCCTGTGGA TGCT	59.9	582	INTERGENIC	--	--	--
Ca7_P1_32654894	Ca7	32654894	AAATAATAATAATAAT/AAATAA ATAATAATAATAATAAT	AACGAAGTGAGACGTG AGCA	TGATGGCTATGGTGA ACAA	59.6	618	INTERGENIC	--	--	--
Ca7_P1_32655163	Ca7	32655163	TTAATA/TTA	AACGAAGTGAGACGTG AGCA	TGATGGCTATGGTGA ACAA	59.6	618	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_32655249	Ca7	32655249	TATTAATTAA/TATTAA	TGTTGTTCCAAATTTA CCTGAA	TACAGACCGGGCTCAA AATC	58.6	935	INTERGENIC	--	--	--
Ca7_P1_32732068	Ca7	32732068	TTTATTATTATTATTATTATTATTA TTATTATTATTATTATTAT/TTTATTATT ATTATTATTATTATTATTATTATTA TTATTATTATTAT	GTGTCCGAACAAATGA CGTG	GAAGCGACCACCTGAA GAAC	60.0	494	INTERGENIC	--	--	--
Ca7_P1_32838526	Ca7	32838526	TCTC/TCTCCTC	AGGAGTGATGACAGGT GGGA	TCTCCACATCTACCCC TTGG	60.5	485	INTERGENIC	--	--	--
Ca7_P1_3288787	Ca7	3288787	AATATATATATAT/AAATATATATATA TATAT	CGTGGCCACCTTAAAG TCAT	AATGATGCATGTTGTT GGTG	60.0	639	INTERGENIC	--	--	--
Ca7_P1_3292429	Ca7	3292429	ATTTTTT/ATTTTTTT	AAGATAGGCACCAATC CAAAA	CAGAGAACAACGAGG ATCGC	58.6	908	INTERGENIC	--	--	--
Ca7_P1_32969816	Ca7	32969816	GAGATGTAGA/GAGATGTAGATGTAG A	TTCCAATAATAAACCG GTGG	TGTGACCGTGGGTAG AACAA	58.7	428	INTERGENIC	--	--	--
Ca7_P1_33046454	Ca7	33046454	C/CT	TCACCGTCCACACGTT TTTA	GCAAATTCATAATGT TGCGTC	60.0	299	INTERGENIC	--	--	--
Ca7_P1_33055618	Ca7	33055618	CTGTG/CTG	TCCTCAAGGTGAATCT GACAAA	TTATCATGCGCTGAAA AACG	59.7	345	INTERGENIC	--	--	--
Ca7_P1_33059037	Ca7	33059037	TAGAGA/TAGA	AGTGGAGGTGGAGCT GAGAA	CCCGGTAATTAATAGA TCCGC	60.0	346	DRR	Ca_09996	--	--
Ca7_P1_33061427	Ca7	33061427	CTTAATTAATTAA/CTTAATTAA	TAATAAGGACACCTTG CGGC	TCACACCGTTGGACAG TCAT	60.1	654	INTERGENIC	--	--	--
Ca7_P1_33061943	Ca7	33061943	TA/T	CGATCAATGACTGTCC AACG	TCCCTTTAGAAATTGAC GCTTTT	60.1	252	INTERGENIC	--	--	--
Ca7_P1_33062398	Ca7	33062398	T/TTA	CACAACACCGGTTTAT GTTTTG	TGATATTTGCAGGGAG GATTTT	60.2	943	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_33063485	Ca7	33063485	TA/TAA	CATGTGCGATGAACAT GAAA	AAAAATTGCGGCCAAT TAAA	59.1	542	INTERGENIC	--	--	--
Ca7_P1_33063525	Ca7	33063525	CAAAA/CAAAAA	CATGTGCGATGAACAT GAAA	AAAAATTGCGGCCAAT TAAA	59.1	542	INTERGENIC	--	--	--
Ca7_P1_33064704	Ca7	33064704	AT/ATATT	AATGGCGTGGGACTAT GAAC	ATGCATGTTAGTGGGG GAAA	59.8	392	INTERGENIC	--	--	--
Ca7_P1_33066475	Ca7	33066475	TCTCTTTT/TCTCTTTTTTATTATTGCT CTTTT	GGAAGGCAACTCAAAA TTGG	TCCCCACAATACAATT CCTCA	59.5	664	INTERGENIC	--	--	--
Ca7_P1_33067106	Ca7	33067106	GAAAAAAAA/GAAAAAAAAA	TTTCAGCGACGAAGAA CTTG	TGGATAAATTTTGCC ATTG	59.2	467	INTERGENIC	--	--	--
Ca7_P1_33068212	Ca7	33068212	ATTT/ATT	CTTCTTCGTCATCCATT GGC	AAGCCTATCACTCATC CAATCAA	60.6	624	INTERGENIC	--	--	--
Ca7_P1_33068248	Ca7	33068248	CTTTTT/CTTTTT	CTTCTTCGTCATCCATT GGC	AAGCCTATCACTCATC CAATCAA	60.6	624	INTERGENIC	--	--	--
Ca7_P1_33069018	Ca7	33069018	GT/G	TGACATGCATGATTCA ACTGG	TTTGAATTGGTCCCTG ATTTT	60.5	617	INTERGENIC	--	--	--
Ca7_P1_33069173	Ca7	33069173	ATTTT/ATTTT	TGACATGCATGATTCA ACTGG	TTTGAATTGGTCCCTG ATTTT	60.5	617	INTERGENIC	--	--	--
Ca7_P1_33072359	Ca7	33072359	GTTTTGTGATTTTAATTTT/GT	GCCATGTCAACCGAAG AGAT	TTATGTTGCAACTGTT CCATGT	60.1	813	INTERGENIC	--	--	--
Ca7_P1_33102819	Ca7	33102819	ATT/AT	AACAGTCCCGCATTGG ATAG	CAGCACTGTCCAAATT GTGC	60.0	447	INTERGENIC	--	--	--
Ca7_P1_33107664	Ca7	33107664	CAAAAA/CAAAAA	GAACACGTCAAAAAGT TGCG	ACCTTGGGGGAAGGT TTTTA	59.4	480	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_33119988	Ca7	33119988	AA/AAATCTA	CCGTCACATTCTCT GTGC	ACCAGCATCTGCTTAT TGGG	60.1	982	DRR	Ca_16142	--	--
Ca7_P1_33120499	Ca7	33120499	GTT/GTTT	CTTGTTTTCTGTGCG ACCA	TGCATAGGCTGTGTAT GGGA	59.9	617	DRR	Ca_16143	--	G2-like
Ca7_P1_33127326	Ca7	33127326	TG/TGG	TGGGCCGGTTTTACAT TTTA	GATGGCGTCACTTCAT TTATTG	60.2	956	INTERGENIC	--	--	--
Ca7_P1_33132079	Ca7	33132079	C/CACGGTTAACA	CAATCATGAACCGCCC TAGT	TGAAGGTGTGAGTTAA TCTTCCC	60.0	597	INTERGENIC	--	--	--
Ca7_P1_33132468	Ca7	33132468	ACAA/ACAATCAA	ACCAACCTCCATGTC CTTT	AACAAGAGAGAACGG GTGAGA	60.6	785	INTERGENIC	--	--	--
Ca7_P1_33138413	Ca7	33138413	TGG/TG	CATCCTAAAAGGACAG CCCA	AGAAGAGGCGCATGA ACAAT	60.1	522	DRR	Ca_16145	P	NF-YC
Ca7_P1_33144802	Ca7	33144802	TATTTATTTAATTTATTTA/TATTTATTT A	TGCTGCAATAGTGGTG CTTT	TGGAAGTGGTGGTGA ATGAA	59.5	556	INTRON	Ca_16146	--	Dof
Ca7_P1_33149769	Ca7	33149769	CGG/CGGG	TCCGGTACACAACCTT TCCC	TGGCATTTTTGTTGCA TTGT	59.8	624	INTERGENIC	--	--	--
Ca7_P1_33150449	Ca7	33150449	ATTTTTTTT/ATTTTTTTTT	CACAATGCAACAAAA TGCC	GGATGCGGGATGAAT ATCAC	60.0	681	INTERGENIC	--	--	--
Ca7_P1_33151352	Ca7	33151352	CGAAGAAGAA/CGAAGAA	ATATGAATGGATGCGG GTGT	TAACGGGCTAAACGAA ATGG	60.0	825	INTERGENIC	--	--	--
Ca7_P1_33156017	Ca7	33156017	ATTATTTTATTTTATTTTATT/ATTATT TTATTTTATT	TTTGGTTCGGACATTT TCAA	GGTAACGCAATCTGCA TTTGT	59.0	750	INTERGENIC	--	--	--
Ca7_P1_33156778	Ca7	33156778	AAATTAA/AAATTAATTAA	AGAATTGGTTTCTCG TCCC	TCTTTGAAAAGGGTTG GTGAG	60.3	452	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_33157287	Ca7	33157287	TAG/T	TCACCAACCCCTTTCAA AGAA	TTTCTCTTGGACAGAA TGCAA	59.6	548	INTERGENIC	--	--	--
Ca7_P1_33158767	Ca7	33158767	GATA/GA	TGCTGCCAGAAAGATC TCAA	GGAGGTTGGAAGTTG GAACA	59.7	805	DRR	Ca_16147	--	--
Ca7_P1_33162647	Ca7	33162647	CAA/CA	TTTCGAATTGTGTGAC ACTCG	TGCCGCTCTGTTTATT GAGC	59.7	231	INTERGENIC	--	--	--
Ca7_P1_33166033	Ca7	33166033	TAAAAAA/TAAAAAA	TGTGTGAAATTTGGGG CATA	TAACCGCTCAATCCAT GTTG	59.8	486	INTERGENIC	--	--	--
Ca7_P1_33166074	Ca7	33166074	TAAAAA/TAAAAAA	TGTGTGAAATTTGGGG CATA	TAACCGCTCAATCCAT GTTG	59.8	486	INTERGENIC	--	--	--
Ca7_P1_33166365	Ca7	33166365	TA/T	CAGACGCTGCAAAAGA GACA	TGTCCTACCAAGATC CTCC	60.3	843	INTERGENIC	--	--	--
Ca7_P1_33166586	Ca7	33166586	CTTTTT/CTTTTT	ATCAACATGGATTGAG CGGT	TGTCCTACCAAGATC CTCC	60.3	508	INTERGENIC	--	--	--
Ca7_P1_33167740	Ca7	33167740	CAAAA/CA	CGCTCCCCTATATG CTCG	TTTCCTTCATGCAGT TCCC	60.7	171	INTERGENIC	--	--	--
Ca7_P1_33171499	Ca7	33171499	CAAAAAA/CAAAAAA	ATTGGGCTTGTTGCA AGAG	TTGCTTTTGTGTTGC TTTGA	60.2	128	INTERGENIC	--	--	--
Ca7_P1_33171683	Ca7	33171683	TA/TAA	CTTGTTTGCAAGATT GGCA	TGAGTGTAGTGTGCCC TATCG	60.0	658	INTERGENIC	--	--	--
Ca7_P1_33171778	Ca7	33171778	GA/G	CTTGTTTGCAAGATT GGCA	GCCACTACAGGTGTGA GGAAG	60.0	795	INTERGENIC	--	--	--
Ca7_P1_33174637	Ca7	33174637	AATATATA/ATA	TGGAACGTACATATAG TGCG	ACTTGCATGATTGATT TCTTCA	58.6	558	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_33175105	Ca7	33175105	CTT/CT	TGAAGAAATCAATCAT GCAAGT	AACTTGCCTTAGAGTC GGGA	57.4	598	INTERGENIC	--	--	--
Ca7_P1_3317609	Ca7	3317609	GTTT/GTTTT	CCACGGGTTCTGAAGT TGTT	TGGGAAGTTGGTCTGT GTGA	60.0	599	INTERGENIC	--	--	--
Ca7_P1_33181868	Ca7	33181868	AG/A	GAGCTCTTTGGCCTTT GATG	ATATTGATGTTGGTCG GGGA	60.0	603	DRR	Ca_16149	IOT	--
Ca7_P1_33187443	Ca7	33187443	TAAAAAAA/TAAAAA	AAAATCAAACGAAACG CACC	ACTTCGAACTCTCTCC AGCA	60.0	431	INTERGENIC	--	--	--
Ca7_P1_33187784	Ca7	33187784	TA/TAA	AGGAAGTTCGAAGTGG CAAA	CGTCTTAGCGGAAGC TGAG	59.9	260	INTERGENIC	--	--	--
Ca7_P1_33208485	Ca7	33208485	ATTTTTTTTT/ATTTTTTTT	TTTGATTAGATGCGAG TGCG	CCGTCTCCGTTTTACA GGAA	60.0	401	INTERGENIC	--	--	--
Ca7_P1_33209331	Ca7	33209331	AATATATA/AATATATATA	GCTGGTTCTCAATCCG AAAA	TGTGAGCAAGCATTGG AAAG	60.2	223	INTERGENIC	--	--	--
Ca7_P1_33211070	Ca7	33211070	TAA/TAAA	ACCTGCCATCTTTTGA GCAT	AATTTCCGTCGGGTCT TTTT	59.7	622	INTERGENIC	--	--	--
Ca7_P1_33211138	Ca7	33211138	AC/A	ACCTGCCATCTTTTGA GCAT	AATTTCCGTCGGGTCT TTTT	59.7	622	INTERGENIC	--	--	--
Ca7_P1_33212567	Ca7	33212567	TA/TAA	CAGCTGAATTTGAAAA GGGC	ACCTTTTGCAGGAGTTT TTGA	59.8	258	INTERGENIC	--	--	--
Ca7_P1_33212672	Ca7	33212672	TTTTTC/TTTTTCTCTTTTC	CAGCTGAATTTGAAAA GGGC	GGCCAATCATGTACCA AAAGA	59.8	605	INTERGENIC	--	--	--
Ca7_P1_33226714	Ca7	33226714	AG/AGG	CAAGGGTGATAAGAAG CCGA	GCACGTGTGATTTGAT GGAG	60.2	202	INTRON	Ca_16150	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_33230173	Ca7	33230173	GTT/GT	TGGCTTGGTTGTTGT GGTA	AGACCGTGTGGAGAAT TTGG	60.0	741	DRR	Ca_16150	--	--
Ca7_P1_33230823	Ca7	33230823	TTATATATA/TTATATATATA	CCAAATTCTCCACACG GTCT	GAATTATGTCGATGGT TTTTGACA	60.0	622	DRR	Ca_16150	--	--
Ca7_P1_33230944	Ca7	33230944	T/TG	CCAAATTCTCCACACG GTCT	CACGAGCCACGCATTA AATA	60.0	906	DRR	Ca_16150	--	--
Ca7_P1_33233035	Ca7	33233035	ATTTT/ATTT	CTGGACGATACATGAC CACG	TAAAGCACCGCTCCTA CGAT	60.0	674	INTERGENIC	--	--	--
Ca7_P1_33235725	Ca7	33235725	CAAAA/CAAA	ACACGTGTTGGTCCGA CATA	TTGATCCAAACAACCG CATA	59.9	552	INTERGENIC	--	--	--
Ca7_P1_33237386	Ca7	33237386	AA/AACA	ACGTTGCTCTTCTGCG TGTC	TTGGGTGATAAGGCCA AAAC	60.5	433	INTERGENIC	--	--	--
Ca7_P1_33237657	Ca7	33237657	GATATAT/GATATATATAT	TTTGGCCTTATCACCC AAAC	CAACTTGGTTCAACGC AAAA	59.8	171	INTERGENIC	--	--	--
Ca7_P1_33239110	Ca7	33239110	GTTTTT/GTTTTTT	TTCCCATGCCAATTGT AGGT	TGCACAAGAAATCGAA TGGA	60.2	592	INTERGENIC	--	--	--
Ca7_P1_33241271	Ca7	33241271	CCTCTTTTCTTGCT/CCTCTTTTC TTGGCTCTTTTCTTGCT	TTGAACACGTGAAAGT TACGC	TGTTCTCTTGTTCCC ACCA	58.9	622	INTERGENIC	--	--	--
Ca7_P1_33241307	Ca7	33241307	CAAA/CAAAA	GAGCCCTCTTTTCTT GGCT	TGTTCTCTTGTTCCC ACCA	60.0	399	INTERGENIC	--	--	--
Ca7_P1_33241567	Ca7	33241567	TG/T	GAGCCCTCTTTTCTT GGCT	TGTTCTCTTGTTCCC ACCA	60.0	399	INTRON	Ca_16151	--	--
Ca7_P1_33243964	Ca7	33243964	GA/GAA	CAACGGTGCAGAGTGA AAAA	TGTTTCATAACTGAAG GGGGA	59.9	624	DRR	Ca_16151	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_33244513	Ca7	33244513	GTTCCTTTT/GTTCCTTTT	TCCCCTTCAGTTATG AAACA	ATGAGGAGGAGGAGG TAGGG	59.4	635	DRR	Ca_16151	--	--
Ca7_P1_33246780	Ca7	33246780	ATGATGTTTG/ATGATGTTTGATGTTT G	GCATAATGCTTGGGC AGGT	TTCATGACATTTTCCC CACA	60.0	471	INTERGENIC	--	--	--
Ca7_P1_33247703	Ca7	33247703	ATCTCT/ATCTCTCT	TGTAACGCGTAGGGTA AGGG	TAAGCATCCGCTTCTT CAGG	60.0	136	INTERGENIC	--	--	--
Ca7_P1_33251332	Ca7	33251332	AAATAAT/AAAT	TGTTGATAAATGATAAT TGGTTGTTG	GACTATCGCTCCCTTA AGCC	59.2	836	DRR	Ca_16152	A	--
Ca7_P1_33251390	Ca7	33251390	ACTT/A	TGTTGATAAATGATAAT TGGTTGTTG	GACTATCGCTCCCTTA AGCC	59.2	836	DRR	Ca_16152	A	--
Ca7_P1_33253691	Ca7	33253691	GAAAAAA/GAAAAAA	TCAAGTTGATTCATTC GCTCA	TGTGTGAATCTGTTGG GGAG	59.4	708	INTERGENIC	--	--	--
Ca7_P1_33253928	Ca7	33253928	T/TG	TCAAGTTGATTCATTC GCTCA	ATGGACGACAAAGGC GTTAC	59.4	955	INTERGENIC	--	--	--
Ca7_P1_33257919	Ca7	33257919	TAT/TATGAGATAGAT	TGTGCCAGATGCTAGA CCAC	TAGAAAGTGTCCTCCA CAGG	59.9	384	DRR	Ca_16153	S	--
Ca7_P1_33258061	Ca7	33258061	TTC/T	CCTGTGGGGGACACTT TCTA	ACTCCATCTGTTCCCC AATG	60.0	333	DRR	Ca_16153	S	--
Ca7_P1_33258314	Ca7	33258314	ATTTT/ATTT	CCTGTGGGGGACACTT TCTA	CAATTGGTTGTGTAC CGGA	60.0	819	DRR	Ca_16153	S	--
Ca7_P1_33258489	Ca7	33258489	GTATA/GTATATA	CATTGGGGAACAGATG GAGT	CAATTGGTTGTGTAC CGGA	59.8	506	DRR	Ca_16153	S	--
Ca7_P1_33266760	Ca7	33266760	TTATATAT/TTATAT	TCTGTTGCGATTCTA CGCA	GATTTGCGGAGGAGA GTGAG	60.5	159	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_33268594	Ca7	33268594	T/TA	TCAAGACTTTGGATCG GTGA	TGGTGCAAAGGATGT CAAA	59.2	550	INTERGENIC	--	--	--
Ca7_P1_33269093	Ca7	33269093	TCAACAA/TCAA	TTTGACATCCTTTTGCA CCA	CCAAATTGCTCTTGGG TGCT	60.1	637	INTERGENIC	--	--	--
Ca7_P1_33270068	Ca7	33270068	ATTTTTTT/ATTTTTTTT	ACTATTGCCCCAGCAC ATTG	GCTCATGGCACTCTCA CAAA	60.0	681	INTERGENIC	--	--	--
Ca7_P1_33270224	Ca7	33270224	A/AT	ACTATTGCCCCAGCAC ATTG	GCTCATGGCACTCTCA CAAA	60.0	681	INTERGENIC	--	--	--
Ca7_P1_33275253	Ca7	33275253	TAAAAA/TAAAAAA	TTTAATGTATTGGATCA CTCCTCC	CTGGCTCTCCTCACAT GACA	58.5	393	INTERGENIC	--	--	--
Ca7_P1_33277066	Ca7	33277066	CAAAAAA/CAAAAAA	AGGCTTGCAATTCTA TCGG	CACATTTTCATTTTGAC ATTCCA	59.3	198	DRR	Ca_16155	--	S1Fa-like
Ca7_P1_33278017	Ca7	33278017	TAAAAAAAAAAAAAAAAA/TAAAAA AAAAAA	CGTTTGCCAACCCAA TAGC	TGGAAATGAGATGTG CCAA	60.4	335	DRR	Ca_16155	--	S1Fa-like
Ca7_P1_33278396	Ca7	33278396	TTATTATTAATATTATTA/TTATTATTA	ATTTATGCGTGGAGGA GGAA	CTCGTTGCACGTGTA CTGT	59.5	763	CDS (large-effect mutations)	Ca_16155	--	S1Fa-like
Ca7_P1_33284980	Ca7	33284980	T/TTA	GCTCTGCTTACCTTGT CGGT	ATAGCGTCGGCTAAAC TCCA	59.5	740	DRR	Ca_16156	R	--
Ca7_P1_33287253	Ca7	33287253	CAAAAAAA/CAAAAAAA	CAACGTTAGACCAATA CGGC	CCAAAGGGGATTCTA CCGT	58.2	364	INTERGENIC	--	--	--
Ca7_P1_33287681	Ca7	33287681	AAAAA/AAAAAGAAAGAAAA	ACGGTAGAAATCCCCT TTGG	TTGCATCCTTTTATTG GTGG	60.2	204	INTERGENIC	--	--	--
Ca7_P1_33288649	Ca7	33288649	ATTT/ATTTT	TCCCCCTCTCGTATTT GCAC	TTTGGACCGAATATG ATTATGC	60.1	442	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_33290284	Ca7	33290284	TAAA/TAAAA	TGATCAAATTGGGATT AAATGAAA	CATGAAATTGGAATAA AACGCA	59.6	376	INTERGENIC	--	--	--
Ca7_P1_33291693	Ca7	33291693	GTAT/GTATAT	ACACCACAACATTGCG AAAA	GAAATGAATGGTGTG CGTG	60.0	527	INTERGENIC	--	--	--
Ca7_P1_33293364	Ca7	33293364	CAA/CAAA	TTTTCTAAAACTTTAA GGGTCCG	TTTTAAAAAGAAGTAC GAGTAACCAAA	59.2	587	INTERGENIC	--	--	--
Ca7_P1_33294181	Ca7	33294181	TAAAAAAAAAAAAA/TAAAAAAAAA	CGGGTGAGACAGACTT TTGG	TTCATTTCCATCTCCC AACC	60.7	687	INTERGENIC	--	--	--
Ca7_P1_33295348	Ca7	33295348	TAA/TAAA	CGACCACGAGTTTAAT CGAA	AAAAGGAACAACCGTC GTCA	58.8	510	INTERGENIC	--	--	--
Ca7_P1_33295433	Ca7	33295433	GTTAATTA/GTTA	CGACCACGAGTTTAAT CGAA	AAAAGGAACAACCGTC GTCA	58.8	510	INTERGENIC	--	--	--
Ca7_P1_33298775	Ca7	33298775	AAG/AAGAG	TGGAAACCCCTGCAT TAAG	CACCCAACCATTTAGT TTCA	59.9	571	INTRON	Ca_16157	--	--
Ca7_P1_33302937	Ca7	33302937	TAAAAAAA/TAAAAAAA	AAATCAACTTCATCCG GAATTACT	CAACTCCATAACTGAA CTCCCC	59.3	560	INTERGENIC	--	--	--
Ca7_P1_3332398	Ca7	3332398	GAAGAGCTTCTGTA/GA	GGCTCGACAAAGCAAA GTCT	TTTTCGGAACCACAAA CCTC	59.6	456	INTERGENIC	--	--	--
Ca7_P1_33327221	Ca7	33327221	TAAA/TAAAA	TGCACATAACTTGTGC GACC	TTCCATTTCCCTTAGT GCG	60.7	658	INTERGENIC	--	--	--
Ca7_P1_33329178	Ca7	33329178	GTTTTT/GTTTTTTT	TCACCTCTGACCTTG AATGAA	TGGTGGGCTATGAACA AACA	59.7	619	INTERGENIC	--	--	--
Ca7_P1_33335275	Ca7	33335275	GTTTTTTTTT/GTTTTTTTTT	CTGGCTATTCAGATGG GGAA	GAGCACAGGTGCTGA AAACA	60.0	238	INTRON	Ca_16158	R	G2-like

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_3336366	Ca7	3336366	T/TA	AAGCCAGGCGATTTAT GATG	ATCGGCAAATATCCGA GAAA	60.1	510	DRR	Ca_16158	R	G2-like
Ca7_P1_33343840	Ca7	33343840	TA/T	TGGTGA CTGGTGAGTT CCAA	CGTCGATTTCAAGCAC TCAA	60.1	519	DRR	Ca_16160	--	--
Ca7_P1_33345659	Ca7	33345659	ATAAGT/ATAAGTAAGT	TGCACTAAAAGCCCCC TAAA	AAATGGTGTTAGAGA ATGGTGA	59.7	506	INTERGENIC	--	--	--
Ca7_P1_33346352	Ca7	33346352	AA/AAGATAGATATA	GTTGGCATTCAAAGGA CCAT	TATGAAGGGCAGACAC GAGA	59.8	426	INTERGENIC	--	--	--
Ca7_P1_33348512	Ca7	33348512	GTATATAT/GTATATATATAT	CTTGGTTCCGGTTCA ACTA	CAGGAATTGGCATCAG TCCT	60.0	840	INTRON	Ca_16161	YU	--
Ca7_P1_33350171	Ca7	33350171	TG/T	TGTGGCTGAAGTCAAT GAGC	AATTTGCTCTCAACAA CCCG	60.0	547	INTRON	Ca_16161	YU	--
Ca7_P1_33358560	Ca7	33358560	CTTGT/CTTGTGT	AACAAGGGCAAGTTGG TTTG	GGGTTTTTCCCTTCA CAAT	60.0	397	INTRON	Ca_16161	YU	--
Ca7_P1_33361035	Ca7	33361035	GATATATATATATATA/GATATATAT ATATATATATATA	TGCACGACGCTAATTC AGTC	TCCGTGTACACTGGCA CTCC	60.0	410	DRR	Ca_16161	YU	--
Ca7_P1_33367446	Ca7	33367446	AT/A	GCCCATTGAGAACTTG ATCC	CACGGAGACCAACGA AACTT	59.5	787	DRR	Ca_16162	YU	--
Ca7_P1_33368266	Ca7	33368266	CAAAAAA/CAAAAAAA	GCCTTCTTCTCTTCCC CCTA	AGGCCATGAATACAAC TCGG	59.8	435	DRR	Ca_16162	YU	--
Ca7_P1_33372893	Ca7	33372893	TC/T	CCTGCTCAAACACT CACAA	ACTCGAACTCCCTTCA GACG	59.9	546	INTERGENIC	--	--	--
Ca7_P1_33373697	Ca7	33373697	GAAAAA/AAAAA	TTTGGTTGTTGCATAT TCGTC	GTTGAAGAGGAAGGG GAAGG	59.9	614	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_33383639	Ca7	33383639	CTTTTTTTTTTT/CTTTTTTTTTT	TAAACCAACGCAAA CCCT	CCACTGTGGTCCCT AACTT	59.5	661	INTERGENIC	--	--	--
Ca7_P1_33384005	Ca7	33384005	GAAAAAAAAA/GAAAAAAAA	TCAAATTTTCAAACA AATCCA	CCATGATCAAGACAG ACTCA	58.6	579	INTERGENIC	--	--	--
Ca7_P1_33384355	Ca7	33384355	A/AC	TTAAGGGACCACAAGT GGTATT	TGGATAACCATGTCCA GACAAA	57.5	460	INTERGENIC	--	--	--
Ca7_P1_33384603	Ca7	33384603	AATATATATATATATATATAT/AATA TATATATATATATATATAT	AAGATCATTCAAATGC GTGTTTT	GTTCTGGGAAACGATG AAGA	59.9	330	INTERGENIC	--	--	--
Ca7_P1_33408764	Ca7	33408764	T/TC	ACGCACCAACACATT GAGA	TATCATGCGTCCATGC ACTT	60.2	604	DRR	Ca_16164	--	C3H
Ca7_P1_33412820	Ca7	33412820	ACATATCGAATT/ACATATCGAATTTC CATATCGAATT	TTTCTTGCTTTCAACTC GCA	CCAGTTTCTCAATCCC TTGG	59.7	548	INTRON	Ca_16164	--	C3H
Ca7_P1_33413065	Ca7	33413065	CA/CAAA	AATTTGACAACCTTGG CACC	ATGGTGGAGGGGAGA AAAAG	59.8	508	INTRON	Ca_16164	--	C3H
Ca7_P1_33413941	Ca7	33413941	ATAG/ATAGGACATTGACATTTATTAG	CGCTCAGATCACGTCT CAAA	GGGTCTGTCTGTGGT CCAGT	60.1	327	INTRON	Ca_16164	--	C3H
Ca7_P1_33416224	Ca7	33416224	TTGAAAAAGTTAATATGAA/TTGAAAA AGTTAATATGAAAAAGTTAATATGAA	CAATTAGCCTATTAGTT TGCCCA	TTTTGTTTTTCCCCCTT CAA	59.6	462	DRR	Ca_16165	U	Dof
Ca7_P1_33420097	Ca7	33420097	GC/GCC	GCATAAGAGCGGATCA ATCG	AGGATGTCGGTTGAAA CTGG	60.7	101	INTRON	Ca_16165	U	Dof
Ca7_P1_33420385	Ca7	33420385	TCCAAAAACCAAA/TCCAAAA	CCAGTTTCAACCGACA TCCT	TTTATAGTTCGCCAGG GCAC	60.0	619	INTRON	Ca_16165	U	Dof
Ca7_P1_33421552	Ca7	33421552	AATATATATATATATATA/AATATAT ATATATATATA	GTCTTGGTGATGGCA AAGT	GATTCTGCCTACTCAT GTTTCAA	60.0	479	INTRON	Ca_16165	U	Dof

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_33423779	Ca7	33423779	TG/T	TCGGTCAAAGATAATT AACAGAAA	AGATACCTCCGGTTT GGAT	57.2	966	INTRON	Ca_16165	U	Dof
Ca7_P1_33443533	Ca7	33443533	AT/ATGAGCTATT	TAAACCCCTTTGCGAG TTTG	GACATTTGCTGGGTAC CAAAA	60.1	556	INTERGENIC	--	--	--
Ca7_P1_33467659	Ca7	33467659	AGTATGTATGTAT/AGTATGTATGTAT GTATGTAT	AGTGCTTTTCATGAGG GTGG	GGTTCCTCATCGCTTGA AGTA	60.1	423	INTRON	Ca_16168	--	--
Ca7_P1_33472559	Ca7	33472559	ATTTTT/ATTTT	GCTGCAAAGGATTGAG GATT	TGTCTCGTCATCGTTT TCCA	59.3	532	INTERGENIC	--	--	--
Ca7_P1_33473339	Ca7	33473339	TAAAAA/TAAAAA	TTAAAGTCAGTGGGTA GCTCAAA	TTGCCAAAATTATGCA TGTGA	58.1	185	INTERGENIC	--	--	--
Ca7_P1_33473368	Ca7	33473368	TAAAAAAA/TAAAAAAA	TTAAAGTCAGTGGGTA GCTCAAA	TTGCCAAAATTATGCA TGTGA	58.1	185	INTERGENIC	--	--	--
Ca7_P1_33474392	Ca7	33474392	ATTTTT/ATTTTT	TTTTAGCGCCATAGGG AAAA	AAAAATTAGGGCGACA ATCA	59.7	336	INTERGENIC	--	--	--
Ca7_P1_33476584	Ca7	33476584	A/AC	TAACCCAAAATCCCA ACCA	TCAGGCCCTTTTGAC GTAT	60.0	514	INTERGENIC	--	--	--
Ca7_P1_33479027	Ca7	33479027	ATTTTTTTTT/ATTTTTTTTTT	TCATGAAAGTTATGGT GCAAAA	AAAAAGTGGGTGTATG GCGA	58.2	421	INTERGENIC	--	--	--
Ca7_P1_33485861	Ca7	33485861	TAGAG/TAGAGAGAGAGAG	TAGTTGCGAATGGATG GTCA	ATCGGAACCACTTCT CCTT	60.1	246	INTRON	Ca_16169	--	--
Ca7_P1_33519406	Ca7	33519406	ATTTTTTTTT/ATTTTTTTTTT	CGCCGCCATTTATTA TCAC	TTTGCCTTTTTGATGG AACA	60.3	802	INTERGENIC	--	--	--
Ca7_P1_33520761	Ca7	33520761	TATTTA/T	TTTTTCGTGTTGGTC CTTT	GCTAAATTACATCGGC AGTCC	59.4	512	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_33521345	Ca7	33521345	TA/TAGA	TGTTGAACATTGTAAC AGCCG	GACGAAAAATGATTTA GACGTTCA	59.6	364	INTERGENIC	--	--	--
Ca7_P1_33523249	Ca7	33523249	CTATTGTTCGAATGT/CTATTGTTC GAATGTGTTATTTGTTCAATGT	AACATTGTATCATCAA GAACATGAA	ATTGCTGATAGGCAG GTGG	58.9	741	DRR	Ca_16172	S	M-type
Ca7_P1_33524828	Ca7	33524828	A/AAATGTC	CCGAGAACACGAGATG GATT	ACCAGGTCTTGCTGAG CACT	60.1	316	INTRON	Ca_16172	S	M-type
Ca7_P1_33525698	Ca7	33525698	ACC/ACCC	CCAGCAGCAAATCACC CTAT	GCCATGTTGCTTGTA CTGT	60.1	836	INTRON	Ca_16172	S	M-type
Ca7_P1_33527467	Ca7	33527467	TAGAGAGAGAGAGAGA/TAGAGAGAG AGAGAGAGAGA	ATCTTTTCAGGTGGTGG CATC	GGGCCAAACAAACTA GCAA	59.9	326	INTRON	Ca_16172	S	M-type
Ca7_P1_33527602	Ca7	33527602	ATCTCTCTCTCTCTCTCT/ATCTCT CTCT	ATCTTTTCAGGTGGTGG CATC	GGGCCAAACAAACTA GCAA	59.9	326	INTERGENIC	--	--	--
Ca7_P1_33527812	Ca7	33527812	ATTTTTTT/ATTTTTTT	ATCAAATCGTCGAAATT GCC	GATTGCGATCTCCACC AAAT	59.9	795	INTERGENIC	--	--	--
Ca7_P1_33528371	Ca7	33528371	ATTTTTTT/ATTTTTTT	GAATATTTGGTGGAGA TCGCA	AATGGAGCGGAATTT CCTT	59.9	482	INTERGENIC	--	--	--
Ca7_P1_33532784	Ca7	33532784	T/TG	GCCTAGCTCAGAAGAC AAGTCC	CGATGCTTCATTATAA ATCAACTCTT	59.7	534	INTERGENIC	--	--	--
Ca7_P1_33532962	Ca7	33532962	AG/A	GCCTAGCTCAGAAGAC AAGTCC	CAGCTCTTCCCAATT GGTT	59.7	910	INTERGENIC	--	--	--
Ca7_P1_33534370	Ca7	33534370	A/AT	GAATGGAATCTTCACG GCAT	TCGACCGATTCATGAT TAAAAA	59.9	897	INTERGENIC	--	--	--
Ca7_P1_33534517	Ca7	33534517	TAA/TAAA	ATTTTCGGAAACAAGG CAAA	TCGACCGATTCATGAT TAAAAA	59.6	766	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_33539636	Ca7	33539636	GTTTT/GTTT	AAATTGGACGGTGCTA ATCC	CACGAAAGTTTCATC ACAAA	58.9	243	INTERGENIC	--	--	--
Ca7_P1_33553478	Ca7	33553478	AGGGGGG/AGGGGGGG	CGACCCTTGGTGTGAA ATCT	TTTCAAATTGCCAC ATCA	60.0	724	INTERGENIC	--	--	--
Ca7_P1_33555164	Ca7	33555164	CAATTAAT/CAAT	TCATGGGATCAAACCC ATATC	TAATGATTTTGGACG TGCG	59.5	632	INTERGENIC	--	--	--
Ca7_P1_33556745	Ca7	33556745	ATAT/ATATATTAT	GGGCATGGTGGGTAC TACAG	CACATTGGCGCTTGAA AAAT	60.3	660	INTERGENIC	--	--	--
Ca7_P1_33556869	Ca7	33556869	AG/AGTG	GGGCATGGTGGGTAC TACAG	CACATTGGCGCTTGAA AAAT	60.3	660	INTERGENIC	--	--	--
Ca7_P1_33556956	Ca7	33556956	ATTATAATTTTATAA/ATTATAA	TGCGGATTTTACGCT ACCT	CCATTTCCAATGGTT TGATG	59.7	646	INTERGENIC	--	--	--
Ca7_P1_33558611	Ca7	33558611	TTTG/TTTGTTAGTTTTG	TTCAAGGACATTGCCA ATTAT	TGCATTTTCTTCTTC CACTT	58.5	492	INTERGENIC	--	--	--
Ca7_P1_33559679	Ca7	33559679	CTTTTT/CTTTTTT	GCTCATTGCAAGAAGA GGATG	TCTCAAAGTGACAATG GTGTGA	60.0	417	DRR	Ca_16175	QI	B3
Ca7_P1_33560601	Ca7	33560601	TGG/TGGG	TCTTGAGATCTTGGGC TTTGA	AAGGGAAAGGGGAGT ACACG	59.9	337	DRR	Ca_16175	QI	B3
Ca7_P1_33560654	Ca7	33560654	TG/T	TCTTGAGATCTTGGGC TTTGA	AAGGGAAAGGGGAGT ACACG	59.9	337	DRR	Ca_16175	QI	B3
Ca7_P1_33561063	Ca7	33561063	GTACTATTCATAC/GTACTATTCATAC TATTCATAC	CGTGTACTCCCCTTTC CCTT	GGCCATTTTGTGCAGA TTTT	60.4	431	DRR	Ca_16175	QI	B3
Ca7_P1_33561157	Ca7	33561157	TATCATCATCAT/TATCATCAT	CGTGTACTCCCCTTTC CCTT	GGCCATTTTGTGCAGA TTTT	60.4	431	DRR	Ca_16175	QI	B3

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_33561568	Ca7	33561568	AT/A	GGCCCTGCCTGTATAA TCAA	GGATGATGTGTGCCA GATG	59.9	541	INTRON	Ca_16175	QI	B3
Ca7_P1_33564972	Ca7	33564972	TTATATATATA/TTATATATA	TGCTTCATTGTTTTGT GCC	GGGATTGATTTTTAC TTTCAA	59.7	287	INTERGENIC	--	--	--
Ca7_P1_33566732	Ca7	33566732	CCTTTGTGAAT/CCTTTGTGAATCTTT GTGAAT	GAGAAGCACACTCCAC CTCC	AAGTTTTGCCTGTGGC TGTT	59.8	478	DRR	Ca_16176	O	--
Ca7_P1_33567848	Ca7	33567848	ATAGCAGTTA/ATA	CATCTGGTCCCAAAGA AGGA	TCGTCTATAACGGAAA CCCG	60.0	723	DRR	Ca_16176	O	--
Ca7_P1_33568045	Ca7	33568045	CT/C	GGTTGGAGGAAGGTG CATT	TGATCCACGACACAGA GAGC	59.9	637	DRR	Ca_16176	O	--
Ca7_P1_33572895	Ca7	33572895	AG/A	CCAACATACAGGCTCC CCTA	AGGGTGGGAGAGAA CTTGT	59.9	244	INTRON	Ca_16177	JK	--
Ca7_P1_33576122	Ca7	33576122	GTTTTTTTTT/GTTTTTTTTT	TAATTTAACGAACGGC CGAG	TTGGGTGACTCATGTT GAGA	60.1	410	DRR	Ca_16178	I	--
Ca7_P1_33577581	Ca7	33577581	TA/TAGTATACA	TTCACATGCCCTTGAA TCCA	GCTGGCACAATCACTT GAGA	60.0	659	INTRON	Ca_16178	I	--
Ca7_P1_33586111	Ca7	33586111	A/AT	GCAGAGGGCATTGGAA TTTA	AGAAGAGGGAGTGGG GGTTA	60.0	187	INTERGENIC	--	--	--
Ca7_P1_33588799	Ca7	33588799	C/CCTT	TGTGCAAAATTTGTTG TTTACATT	AACTTTTAATCCATTG GTTGGTC	59.8	453	INTERGENIC	--	--	--
Ca7_P1_33591676	Ca7	33591676	AATATATA/AATATATATA	ATTGTGGCTCGACCAT GTTT	CACAAATCTGGCATC AGTCA	60.4	781	INTERGENIC	--	--	--
Ca7_P1_33597364	Ca7	33597364	CTAATTAATT/CTAATT	GATGTTAACGCACCTC CACC	CACACTTCGATCTCCG ATCA	60.4	483	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_33597557	Ca7	33597557	TC/T	GATGTTAACGCACCTC CACC	CGGTTGTCCACACTT CGAT	60.4	492	INTERGENIC	--	--	--
Ca7_P1_33597756	Ca7	33597756	T/TA	TGATCGGAGATCGAAG TGTG	CTGGTGCCACGTAAAC GACT	59.8	628	INTERGENIC	--	--	--
Ca7_P1_33604104	Ca7	33604104	CCACTATTCACCTATTCAC/CCACTATT CAC	TGAAGTTGAAAGGGAC CTTGA	TGGGTGCAACTGCATT CTTA	59.7	506	INTERGENIC	--	--	--
Ca7_P1_33605853	Ca7	33605853	TATAATTAAATAATAAT/TATAATTAAA TAATAATTAAATAATAAT	CCACACCCCTCATAG CCTT	TTTAAACCCCGTCAAC ACCT	60.0	665	INTERGENIC	--	--	--
Ca7_P1_33606263	Ca7	33606263	TT/TTCT	TTCGAAGACAGGTGTT GACG	AAGTGTTCATTGTGTT GTGATTTTT	59.9	529	INTERGENIC	--	--	--
Ca7_P1_33607327	Ca7	33607327	GTTTTTTTT/GTTTTTTTT	TTAATTCAGCGAAAT GCAA	GGAGGGGAAGATGAT GAAGTC	59.3	959	INTERGENIC	--	--	--
Ca7_P1_33619410	Ca7	33619410	TTTCCTTCCTT/TTTCCTT	TCGTGGCTCATTCAC ATTA	GGTTGTGTCCAAAA GCTA	60.1	431	DRR	Ca_16179	J	--
Ca7_P1_33621669	Ca7	33621669	TGAAACTTTCGAAACT/TGAAACTTTC GAAACTTTCGAAACT	TGGTGGAGAGTTCCAT TTCC	CGCATGAGTCAAATG CTTT	59.9	510	INTERGENIC	--	--	--
Ca7_P1_33622818	Ca7	33622818	CATCTATTATTATCTA/CATCTA	CGCAAAGAGTTCACA ACAA	GCTGTGGTGAAAAA GAGGA	59.9	386	INTERGENIC	--	--	--
Ca7_P1_33625574	Ca7	33625574	AT/A	TTATGCCCAAAAGAT GCTC	TTTGGGAAGATGGTGA GGAC	60.0	430	INTERGENIC	--	--	--
Ca7_P1_33633702	Ca7	33633702	A/AC	TTTCGCTTTGGTCTTCTT CATC	AAATTGAATGAAGGGG AAGGA	59.4	500	INTERGENIC	--	--	--
Ca7_P1_33636918	Ca7	33636918	C/CAATTTTT	TTTTTCACCTTTTCACA ACCC	GGCACTTAAGTTGGG CTGA	59.0	633	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_33637314	Ca7	33637314	TAAAA/TAAAA	TCAGCCCAAACTTAAG TGCC	TGACCAAGTCCAACCG TGTA	60.2	389	INTERGENIC	--	--	--
Ca7_P1_33638562	Ca7	33638562	AATGAAT/AATGAATATGAAT	TCGCAAGAGTTTGGAC CTTT	TTCTAAAAACGGAAAG CTATTTTGA	59.9	643	INTERGENIC	--	--	--
Ca7_P1_33638744	Ca7	33638744	A/AC	TCGCAAGAGTTTGGAC CTTT	GCACATGGTTTCGAAT GTTG	59.9	882	INTERGENIC	--	--	--
Ca7_P1_33639526	Ca7	33639526	T/TGCTTC	CAACATTCGAAACCAT GTGC	TATTCACACCGACGAT TTGG	60.0	752	DRR	Ca_16180	--	ERF
Ca7_P1_33640082	Ca7	33640082	TAA/TAAA	CCAAATCGTCGGTGTG AATA	CCTTTGTTGCTGGGA TCAT	59.4	614	DRR	Ca_16180	--	ERF
Ca7_P1_33640133	Ca7	33640133	CAAA/CAAAAATAAAA	CCAAATCGTCGGTGTG AATA	CCTTTGTTGCTGGGA TCAT	59.4	614	DRR	Ca_16180	--	ERF
Ca7_P1_33642641	Ca7	33642641	ATTTTTTTTT/ATTTTTTTTT	CCAGGCCAAAGCTAGGT GAAC	GGGTTCTGCTGTCAA TTTT	59.9	166	INTRON	Ca_16180	--	ERF
Ca7_P1_33643899	Ca7	33643899	GAAA/GAA	AAAACGGTTTCCTCGA ACCT	AAACAGAAGTTGTGGG GCAC	60.0	517	INTERGENIC	--	--	--
Ca7_P1_33644014	Ca7	33644014	TTTT/TTTTCTTTT	GTGCCCCACAATTCT GTTT	TGTTTTATCCAATCCA ACATCA	60.0	489	INTERGENIC	--	--	--
Ca7_P1_33644686	Ca7	33644686	TTTA/TTTATTA	TTTTCTCAATCAAGAG GCCA	CAATATGACATGACGG CTGG	58.4	581	INTERGENIC	--	--	--
Ca7_P1_33644881	Ca7	33644881	T/TGC	TTTTCTCAATCAAGAG GCCA	CAATATGACATGACGG CTGG	58.4	581	INTERGENIC	--	--	--
Ca7_P1_33645082	Ca7	33645082	CTT/CTTT	TTGACATTGCGTCTCT CAAG	CAATATGACATGACGG CTGG	60.1	202	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_33646488	Ca7	33646488	GATATATAT/GATATATATAT	TGTTTATTGGGCACCT CGTT	TTGCCCATACATCAAT TTGC	60.4	922	INTERGENIC	--	--	--
Ca7_P1_33647692	Ca7	33647692	AGGGGG/AGGGG	TTGGGGGACTAAAATT GGGT	GGGCTTAAACCCCAAA AAGA	60.4	303	INTERGENIC	--	--	--
Ca7_P1_33647763	Ca7	33647763	A/AT	CAACTAAACAGGGGG ACCA	GGGCTTAAACCCCAAA AAGA	59.8	251	INTERGENIC	--	--	--
Ca7_P1_33649463	Ca7	33649463	GAAAAAAA/GAAAAAA	TTGTGATTTTCGAAGC TGAA	TGAATGCACCTTTTAC AGCG	57.1	563	INTERGENIC	--	--	--
Ca7_P1_33653424	Ca7	33653424	GAAAAAAA/GAAAAA	TGCCACATCACCTAA ATCA	TTGGAGTTGTGCCAAT GTGT	59.9	517	INTERGENIC	--	--	--
Ca7_P1_33653612	Ca7	33653612	GAAAAA/GAAAAA	TGCCACATCACCTAA ATCA	TTGGAGTTGTGCCAAT GTGT	59.9	517	INTERGENIC	--	--	--
Ca7_P1_33656060	Ca7	33656060	GTTTTTT/GTTTTTT	CGTATTCGGTGGCGAT TCTA	TTGATTGTGTCTAAGG GTGGG	61.0	585	INTERGENIC	--	--	--
Ca7_P1_33659183	Ca7	33659183	TCC/TCCC	CGTGTGGAGAAATGA AGCA	ATTCAATGATGGTGAT GCGA	59.8	888	INTERGENIC	--	--	--
Ca7_P1_33659410	Ca7	33659410	AAAAA/AAAAAGAAATGAAAA	AACGGAGTAGTAATGC AGCAGA	ATTCAATGATGGTGAT GCGA	59.1	242	INTERGENIC	--	--	--
Ca7_P1_33660715	Ca7	33660715	GTA/GTACTACTA	TCACCGATCAACCGT TGTA	GGCAATTCACGAATTA TGGG	60.0	556	INTERGENIC	--	--	--
Ca7_P1_33661521	Ca7	33661521	GTATT/GT	ACGCCACGTATTGTGT CAAA	ATGTTTTACGCCCCCA ACTA	60.0	729	INTERGENIC	--	--	--
Ca7_P1_33662614	Ca7	33662614	ATTTTTT/ATTTTTTT	AAGGCACTCAACAAA TGGG	GGGAACTAATTAATGT GAACATTGTC	60.0	528	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_33662685	Ca7	33662685	TTATATATAT/TTATATAT	AAGGCACTCAACAAA TGGG	TGAATTTGGATTGTG AATGATG	60.0	662	INTERGENIC	--	--	--
Ca7_P1_33662750	Ca7	33662750	A/AAT	AAGGCACTCAACAAA TGGG	TGAATTTGGATTGTG AATGATG	60.0	662	INTERGENIC	--	--	--
Ca7_P1_33662861	Ca7	33662861	CAAAAAA/CAAAAAAA	AAGGCACTCAACAAA TGGG	TGAATTTGGATTGTG AATGATG	60.0	662	INTERGENIC	--	--	--
Ca7_P1_33662912	Ca7	33662912	ATTTTTTTTT/ATTTTTTTTT	AAGGCACTCAACAAA TGGG	TGAATTTGGATTGTG AATGATG	60.0	662	INTERGENIC	--	--	--
Ca7_P1_33663454	Ca7	33663454	TA/TAA	GGTCCAACAAGTCACT CATGC	AGTCAACTCAACAGCT CATGGA	60.6	137	INTERGENIC	--	--	--
Ca7_P1_33664306	Ca7	33664306	ACTT/ACTTCTT	CAACTTCTTGCAACAT GGAGG	TGTTTGCATCACCCT CTCC	60.7	432	INTERGENIC	--	--	--
Ca7_P1_33665589	Ca7	33665589	TAAAAAAA/TAAAAAAA	GAGCTAGGGCTTGGA GAGGT	CCTTCGAATAAAAGC CCAA	60.0	192	INTERGENIC	--	--	--
Ca7_P1_33671236	Ca7	33671236	TAAAAAAA/TAAAAAAA	CCATTGGACCCACTCA TCTT	GTGTTTCATCCCACGC TAGT	59.8	308	INTERGENIC	--	--	--
Ca7_P1_33672380	Ca7	33672380	CATT/CATTAAATTA	CTCTGTGTTGGGCCAA GATT	TCACAGGAGACACGTA GATGAAA	60.1	347	DRR	Ca_16181	--	G2-like
Ca7_P1_33672401	Ca7	33672401	AC/A	CTCTGTGTTGGGCCAA GATT	AAAAACGTGAGATTTG TCATCA	60.1	693	DRR	Ca_16181	--	G2-like
Ca7_P1_33672472	Ca7	33672472	TAAAAA/TAAAAA	CTCTGTGTTGGGCCAA GATT	AAAAACGTGAGATTTG TCATCA	60.1	693	DRR	Ca_16181	--	G2-like
Ca7_P1_33672776	Ca7	33672776	TAAA/TAA	CACGAGACATAGGCAT CAACTT	CATGCAAAAACACAT TGGC	59.3	737	DRR	Ca_16181	--	G2-like

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_33672806	Ca7	33672806	CTATATA/CTATATATA	CACGAGACATAGGCAT CAACTT	CATGCAAAAACAACAT TGGC	59.3	737	DRR	Ca_16181	--	G2-like
Ca7_P1_33676431	Ca7	33676431	TGTGTGAGAGTGTGAGAGT/TGTGTG AGAGTGTGAGAGTGTGAGAGT	GTTGGGAAAATGGAGG GTTT	GGCTGAACCCCATAG ATGA	60.0	693	INTERGENIC	--	--	--
Ca7_P1_33678562	Ca7	33678562	TGG/TG	TTTTTCGGAATGAATG CTGT	GCAGAGAAAACACGA GCACA	58.2	842	INTERGENIC	--	--	--
Ca7_P1_33678587	Ca7	33678587	GTA/GTATTA	TGTGACTGTGGAATGC AAGG	GCAGAGAAAACACGA GCACA	60.7	396	INTERGENIC	--	--	--
Ca7_P1_33683063	Ca7	33683063	ATCATATT/AT	CGACTTCCTGAAGGAA CGAA	CGTTGCAGAAAGTTGT TGAA	60.4	588	INTERGENIC	--	--	--
Ca7_P1_33683185	Ca7	33683185	GCAAGTCA/GCA	GGGCATTTCAGGAATA TTGTTT	GATTGAGCCGAAAGTG AAGC	59.2	919	INTERGENIC	--	--	--
Ca7_P1_33707874	Ca7	33707874	ATTT/AT	TCAAAATGAACTGGAC CGAA	GATGGCAGCATTCCCT AAAA	59.1	245	INTERGENIC	--	--	--
Ca7_P1_33707958	Ca7	33707958	CAAAAAA/CAAAAAAA	TCAAAATGAACTGGAC CGAA	GATGGCAGCATTCCCT AAAA	59.1	245	INTERGENIC	--	--	--
Ca7_P1_33712564	Ca7	33712564	G/GT	TTAGACCGAGTGACCG GAAC	TCTACCGTGTGGGACC AAAT	60.1	942	INTERGENIC	--	--	--
Ca7_P1_33713513	Ca7	33713513	TATAAT/TATAATAAT	CGCACGTAGAACTTGT GGAA	TAATCAAGGTCGGCCC ATAG	59.9	547	INTERGENIC	--	--	--
Ca7_P1_33713773	Ca7	33713773	TC/TCC	CTATGGGCCGACCTTG ATTA	TTTCTTTAGCATTCTGA GCAACA	59.9	501	INTERGENIC	--	--	--
Ca7_P1_33713974	Ca7	33713974	ATTTTT/ATTTT	CTATGGGCCGACCTTG ATTA	CCAATTGGTCCCTCAG AAAA	59.9	699	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_33716023	Ca7	33716023	TTTT/TTTTCTTT	AATGACGGAGTCAGGG TTTG	AATGACCGCGATAACC TTTTT	60.0	489	INTERGENIC	--	--	--
Ca7_P1_33716734	Ca7	33716734	GTTT/GTTTTT	TTTACACGATGCTCTA CGCA	ATCATGTCATTACCCC CTGG	58.1	689	INTERGENIC	--	--	--
Ca7_P1_33719688	Ca7	33719688	AC/A	TCACATCAATGTGTTT GGACC	CATGCGTGACAGAAAG GAGA	59.3	653	INTERGENIC	--	--	--
Ca7_P1_33723041	Ca7	33723041	TG/T	ATCATCGTCACGACCC ATTT	TGCAGCTCCTAACGAT GTTG	60.2	271	INTERGENIC	--	--	--
Ca7_P1_33726416	Ca7	33726416	T/TC	TAAAAATTGCCGTGACG ATGA	TCGATTGAGATTGAAG GCTTTT	60.1	366	INTERGENIC	--	--	--
Ca7_P1_33727463	Ca7	33727463	CAAAAAA/CAAAAAA	GTTTTATGGCACTGCC CAAT	TCCGCTCGATTGATT ATGA	59.8	442	INTERGENIC	--	--	--
Ca7_P1_33732604	Ca7	33732604	TA/TAAGA	GTTGATCGGGAAAAAG GGAT	CTCATATCCATCACAC GAGCA	60.1	641	INTERGENIC	--	--	--
Ca7_P1_33733056	Ca7	33733056	GTTTTTTTT/GTTTTTTTTT	TGCTCGTGTGATGGAT ATGAG	TTGACGATTATTGGCG ATGA	59.7	544	INTERGENIC	--	--	--
Ca7_P1_33736847	Ca7	33736847	AATATAT/AATATATAT	ACGGCGTTTACCATCA AGAA	CCGATGAGGTTAAGTT CCGA	60.5	764	INTERGENIC	--	--	--
Ca7_P1_33746942	Ca7	33746942	ATTTTTT/ATTTTTTT	GAGAGTGGTGGATTG GGAAA	GACATTATTTTGTTT CCGCC	59.9	623	DRR	Ca_16182	--	--
Ca7_P1_33747182	Ca7	33747182	CAAAAAA/CAAAAAA	GAGAGTGGTGGATTG GGAAA	TCCATGGGAAGTGGC ATTAT	59.9	804	INTERGENIC	--	--	--
Ca7_P1_33754770	Ca7	33754770	AC/A	GGTCAATTAACACCGG CACT	TGTCATGGTTCGTGCT TCAT	59.9	395	INTRON	Ca_16183	J	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_33757350	Ca7	33757350	ATTTTTTT/ATTTTTTTT	CACGAGCTTCATCACA CCAT	TTTCCTTCTCCGTTG ATGT	59.7	413	INTERGENIC	--	--	--
Ca7_P1_33757392	Ca7	33757392	TAAAAAA/TAAAAA	CACGAGCTTCATCACA CCAT	TTTCCTTCTCCGTTG ATGT	59.7	413	INTERGENIC	--	--	--
Ca7_P1_33766122	Ca7	33766122	ATTT/ATTTT	AATATTTGGCTCCACC ACCA	GGGTTACAAACTTCCT GCCA	60.2	564	INTRON	Ca_16185	--	--
Ca7_P1_33768477	Ca7	33768477	T/TATGATAAG	GCTTCATTGGTGCATC CTTT	AAAAAGACAAACTAC CCTTGTA	60.1	734	INTERGENIC	--	--	--
Ca7_P1_33768691	Ca7	33768691	TAAA/TAAAA	TCATGTGGGGAAGAAA TTCA	AAAAAGACAAACTAC CCTTGTA	58.9	577	INTERGENIC	--	--	--
Ca7_P1_33769034	Ca7	33769034	ATTTTTTTTT/ATTTTTTTT	TCACAAGGGTAGTTTT GTCITTTT	CAACATTTATTTTGTG ATGTATCTGG	58.4	439	INTERGENIC	--	--	--
Ca7_P1_33769418	Ca7	33769418	GTTTTTTTTT/GTTTTTTTTT	ACCAGATACATGACAA AATAAAATGT	CCCACCTTGCCATCCT CTAA	57.2	487	INTERGENIC	--	--	--
Ca7_P1_33770829	Ca7	33770829	TC/T	TTGCATTTAGGGCATG AAAA	TTTTTCTCCGACTTGG TCCTT	59.1	613	INTERGENIC	--	--	--
Ca7_P1_33770972	Ca7	33770972	ATTTTTTTTT/ATTTTTTTTTT	TTTCTTTCTTCCCGATT TAGTCC	TGGCTCGTTGGGCTA GATTA	60.0	639	INTERGENIC	--	--	--
Ca7_P1_33772439	Ca7	33772439	TA/TAA	TGGATTTTGTGGAT GCAG	CAAACTGGAACCAAA GGGA	59.5	403	INTERGENIC	--	--	--
Ca7_P1_33774070	Ca7	33774070	CAAA/CA	TTATGGCCCGCTAAAA TGAC	TGCTTGACGAGTTTG GATA	59.9	776	INTERGENIC	--	--	--
Ca7_P1_33776143	Ca7	33776143	TG/TGCAG	TGGGGTTGAACGAGAG ATTC	TGATTCAATTGCACCA CGTT	60.1	461	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_33778992	Ca7	33778992	GAAA/GAAAA	CGTTGAGTGACGATGA AATGA	TTTTTCAGCGCGAGAT TTTT	59.7	675	INTERGENIC	--	--	--
Ca7_P1_33781250	Ca7	33781250	AA/AATA	TTGAGGTGACTAAAGC TCCGA	TCGAACACACAGAAT TCCA	60.0	379	INTERGENIC	--	--	--
Ca7_P1_33781676	Ca7	33781676	ATT/ATTATTT	ATGGAATTCTGTGTGG TTCG	TCGTAATACCAGCAT CATCAA	58.4	508	INTERGENIC	--	--	--
Ca7_P1_33782091	Ca7	33782091	CTTTTTTTTTTT/CTTTTTTTTTT	CGTAGACATGTTTTG CATTCA	TTTGAAAAGCATGGA TCATT	60.0	656	INTERGENIC	--	--	--
Ca7_P1_33782160	Ca7	33782160	TAAAAAAAAA/TAAAAAAAAA	CGTAGACATGTTTTG CATTCA	TTTGAAAAGCATGGA TCATT	60.0	656	INTERGENIC	--	--	--
Ca7_P1_33782554	Ca7	33782554	TTTATTATTATTATTATTATTATT/T TTATTATTATTATTATTATTATTAT T	TGATCCATGCTTTTCC AAAT	CAAACGGAGAGGGAT GAAGA	58.0	270	INTERGENIC	--	--	--
Ca7_P1_33785309	Ca7	33785309	GTTTTTTT/GTTTTTTTT	GGCACTTTAGGGCATT GGTA	TTGGAATGAGTCCCTG CAAT	60.0	550	INTRON	Ca_16186	T	bHLH
Ca7_P1_33786813	Ca7	33786813	CCTC/CCTCACTC	TTTTGAAGGTTGCCCA AAAC	AATATCTCAACATGC CCCG	60.0	370	INTRON	Ca_16186	T	bHLH
Ca7_P1_33792400	Ca7	33792400	TTTC/TTTCTTC	CACCGCGATTTTGGTA AACT	CCTGAAGCTTTCACCC ATGT	60.0	454	INTRON	Ca_16186	T	bHLH
Ca7_P1_33792984	Ca7	33792984	ATTTTTT/ATTTTTT	CCTTGGAGGACCAAG AACA	CAGAGACAAGAATCCC CCAA	60.1	578	DRR	Ca_16187	--	--
Ca7_P1_33794021	Ca7	33794021	AT/ATT	TTACATCGTACATGCG GAGC	CCATTGGAATGATTA ATTGGG	59.7	498	DRR	Ca_16186	T	bHLH
Ca7_P1_33795392	Ca7	33795392	GAAAAAAAAA/GAAAAAAAAA	TGGCCCTTCATCATAT CCTT	TAAACGAAGCTATGCC CCAC	59.3	441	INTRON	Ca_16187	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/P)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_33795926	Ca7	33795926	CATTAATTAATTAATTAATTAATT AATT/CATTAATTAATTAATTAATT TAATT	GTGGGCGATAGCTTCG TTTA	TCCCGGGTAACACA ATAA	60.1	359	INTERGENIC	--	--	--
Ca7_P1_33796181	Ca7	33796181	ATT/AT	ATTGCAGTGAACAGCC ATCA	AAACTCTTCCATTTTC AAACCA	60.3	678	INTERGENIC	--	--	--
Ca7_P1_33796507	Ca7	33796507	TAAAAA/TAAAAA	GGGGAAGTCAACTCC ATTG	GGATGTGAAACAGCC CAAT	58.4	798	INTERGENIC	--	--	--
Ca7_P1_33797425	Ca7	33797425	CAAAAAA/CAAAAAA	TTGTAAAGTTTCAAT TTAATGAAGC	TCTCGAATATCCAAC GCGA	58.5	701	INTERGENIC	--	--	--
Ca7_P1_33797573	Ca7	33797573	TTTT/TTTTGTTT	TGATGTGTGTGCAATT CTGC	TCTCGAATATCCAAC GCGA	59.3	223	INTERGENIC	--	--	--
Ca7_P1_33797660	Ca7	33797660	CATATAT/CATATATAT	TTCTGCGCAGGATACC TTTT	TCTCGAATATCCAAC GCGA	59.8	209	INTERGENIC	--	--	--
Ca7_P1_33806939	Ca7	33806939	AAAAAATTAATAATTAATAATAATTA AAAAATTAATAATTAATAATAATTA	AGGCATAGGCACAGGA AAGA	TTGATAGTCGCACAA CCAC	59.8	842	INTERGENIC	--	--	--
Ca7_P1_33808311	Ca7	33808311	TACAACAACAACAACA/TACAACA ACAACAACA	TGTGATCAATGACCCC TCAA	CCATTTTTCAGCATCA TCCC	59.9	515	CDS (large-effect mutations)	Ca_16189	--	C3H
Ca7_P1_33810289	Ca7	33810289	ATT/ATTT	AACTCAACGCCAAACC AGAC	CCATGCTTGGATTTT GCTT	60.2	232	INTRON	Ca_16189	--	C3H
Ca7_P1_33810607	Ca7	33810607	ATCAATATGT/AT	AACTCAACGCCAAACC AGAC	CATTGTCACTCTTGAA CCCA	60.2	741	INTRON	Ca_16189	--	C3H
Ca7_P1_33812157	Ca7	33812157	AC/A	TGGATGAAAGAGACAA GCAAAA	AGTGATCCCATGTGAG GTGCT	59.9	543	DRR	Ca_16189	--	C3H
Ca7_P1_33812222	Ca7	33812222	ATT/AT	TGGATGAAAGAGACAA GCAAAA	AGTGATCCCATGTGAG GTGCT	59.9	543	DRR	Ca_16189	--	C3H

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_33812293	Ca7	33812293	TCACA/TCACACA	TTGGATGAAAGAGACA AGCAAA	GTATCCATGAATTGGG GGTG	59.9	687	DRR	Ca_16189	--	C3H
Ca7_P1_33812558	Ca7	33812558	ATTT/ATT	TTGGATGAAAGAGACA AGCAAA	GGGCCAATGCAATTCT TTTA	59.9	977	DRR	Ca_16189	--	C3H
Ca7_P1_33813096	Ca7	33813096	CT/CTTGTTCATTTT	TAAAGAATTGCATTG GCCC	GGAAGAGTGATCCTCA AACCC	59.9	471	INTERGENIC	--	--	--
Ca7_P1_33813164	Ca7	33813164	TAA/TA	TAAAGAATTGCATTG GCCC	GGAAGAGTGATCCTCA AACCC	59.9	471	INTERGENIC	--	--	--
Ca7_P1_33814385	Ca7	33814385	CTTT/CTTTT	CACAGCTCATGTGGAT GCTT	TCACATTAAACGCCATC AAACA	59.9	743	DRR	Ca_16190	E	--
Ca7_P1_33814827	Ca7	33814827	TAT/TATTATAGTTTTTAACCAT	TGTTTGATGGCGTTAA TGTGA	TCTTTAATCTTTGCAAA TCAATGG	60.0	422	DRR	Ca_16190	E	--
Ca7_P1_33814986	Ca7	33814986	TAAAAAAAAA/TAAAAAAAAA	TGTTTGATGGCGTTAA TGTGA	AAGGACACATGCATGA AAACA	60.0	677	DRR	Ca_16190	E	--
Ca7_P1_33815491	Ca7	33815491	GT/GTT	TTTGTTTCATGCATGT GTCC	TCTGCATGGCAGTGAA TAGC	59.4	162	DRR	Ca_16190	E	--
Ca7_P1_33815682	Ca7	33815682	AATAT/AAT	ATGGCTATTTCACTGCC ATGC	ATCATCCTTGGTCCCG AATA	61.0	434	DRR	Ca_16190	E	--
Ca7_P1_33815769	Ca7	33815769	TAAA/TA	ATGGCTATTTCACTGCC ATGC	ATCATCCTTGGTCCCG AATA	61.0	434	DRR	Ca_16190	E	--
Ca7_P1_33817388	Ca7	33817388	CATAA/CATAAATAA	GCGTTTGCAATAGAAG GCAT	CTCGCGAAAAATTCA AAGC	60.2	282	INTRON	Ca_16190	E	--
Ca7_P1_33818946	Ca7	33818946	GAAAAAAAA/GAAAAAAAA	CTCCCGTGATAGCCT GTAG	AAGGTTTGGTCCTTTT GGCT	59.7	708	INTRON	Ca_16190	E	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_33820121	Ca7	33820121	AAG/AAGTAG	AGGGTATTGAGGGATG GGAC	ATAGAGCGAGCATGG CAGAT	60.0	452	INTRON	Ca_16190	E	--
Ca7_P1_33822073	Ca7	33822073	ATTTTTTTT/ATTTTTTT	GGGCAATAAGGCATGT GTTT	GAAGGTTGAGTCAATC GGGA	59.8	520	INTRON	Ca_16190	E	--
Ca7_P1_33822187	Ca7	33822187	TCCC/TCCCC	CAATCTCTCTCGAAC AGCA	GGGTTTTGGGTTTGGT TTCT	59.1	738	INTRON	Ca_16190	E	--
Ca7_P1_33825189	Ca7	33825189	TTATA/TTA	GGACCAAAATTGGGAAG AAAA	GGTTACTTTGATGCG CAAG	58.9	272	INTERGENIC	--	--	--
Ca7_P1_33827405	Ca7	33827405	T/TTTC	CGAGTGATGACTTTTC CCGT	TCACTTTGTTACTTG CAGTTGTG	60.1	212	INTERGENIC	--	--	--
Ca7_P1_33827750	Ca7	33827750	TTATA/TTA	CGAGTGATGACTTTTC CCGT	AAGAATTGGTCCATC CAACA	60.1	746	INTERGENIC	--	--	--
Ca7_P1_33829399	Ca7	33829399	ATTTTTTTTT/ATTTTTTTT	CACCATCGAACTCCTC GTTA	TGCAAAATTCATCAAT CCA	58.7	897	INTERGENIC	--	--	--
Ca7_P1_33829859	Ca7	33829859	ATTTTT/ATTTTTT	TGTCAACCATGTTGTC CTTTTT	CCAAAAGTTAAGACGA GCAAGAA	59.4	610	INTERGENIC	--	--	--
Ca7_P1_33839241	Ca7	33839241	CAAA/CAAAA	CATCATAGTGTTTCGC GAATTT	CGGCTATTTACTCTGC CAGC	59.1	729	INTERGENIC	--	--	--
Ca7_P1_33839740	Ca7	33839740	TA/TAA	GCTGGCAGAGTAAATA GCCG	TGGAAGAACATAAGG TCAGGAA	60.0	243	INTERGENIC	--	--	--
Ca7_P1_33843524	Ca7	33843524	ATTTTT/ATTTT	AATTAATGGGAATGTG CCGA	GGCCTTTAAATTGGGC TTTC	60.2	722	DRR	Ca_16192	--	NAC
Ca7_P1_33843751	Ca7	33843751	TTTCTATTTCTCCTCT/TT	TAGAGCATGGCATTTTC ACCA	GGCCTTTAAATTGGGC TTTC	60.2	229	DRR	Ca_16192	--	NAC

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_33849431	Ca7	33849431	AT/ATT	TTGGTTCAGATGAAAT GGCA	GGTGGCGTCTAGTAG GTTGC	60.0	771	INTERGENIC	--	--	--
Ca7_P1_33850450	Ca7	33850450	AT/ATT	GGTGCAAGTAATGAAC GGGT	TCTAATCAAAACATCG CAACAA	59.9	439	INTERGENIC	--	--	--
Ca7_P1_33851829	Ca7	33851829	AC/A	CAATGCGATGTGGGAA ATGA	CTCACCCAAAAAGTTG ATGC	60.3	512	INTERGENIC	--	--	--
Ca7_P1_33852684	Ca7	33852684	TAA/TAAA	CCAAATGGGTTGCTA TTTTCT	GCCCTCTTGGACTTCT TTCC	59.4	654	INTERGENIC	--	--	--
Ca7_P1_33855265	Ca7	33855265	GTTTTT/GTTTT	TCCAGAAGATGGTGAG AGTGG	ACTTGATTGCACATGG ATCG	60.2	578	INTERGENIC	--	--	--
Ca7_P1_33855439	Ca7	33855439	CAA/CA	TCCAGAAGATGGTGAG AGTGG	ACTTGATTGCACATGG ATCG	60.2	578	INTERGENIC	--	--	--
Ca7_P1_33855544	Ca7	33855544	CT/C	TGCACATTTTACTCAA TCCG	ACTTGATTGCACATGG ATCG	58.7	137	INTERGENIC	--	--	--
Ca7_P1_33855578	Ca7	33855578	ATTTTTTT/ATTTTTT	CGATCCATGTGCAATC AAGT	TCCAACAAGCGATTCA TTCTT	59.5	497	INTERGENIC	--	--	--
Ca7_P1_33855831	Ca7	33855831	TAAA/TAA	CGATCCATGTGCAATC AAGT	CACTCTAAGAGGGGC CTCAA	59.5	528	INTERGENIC	--	--	--
Ca7_P1_33855896	Ca7	33855896	TTTTGTTT/TTTT	CGATCCATGTGCAATC AAGT	CACTCTAAGAGGGGC CTCAA	59.5	528	INTERGENIC	--	--	--
Ca7_P1_33856540	Ca7	33856540	AAATAA/AAA	GCCCCTCTTAGAGTGT TTGC	ACTTTTGCTCTGGCTT CCAA	58.9	967	INTERGENIC	--	--	--
Ca7_P1_33856578	Ca7	33856578	CTTTTTTT/CTTTTTTT	CGATCTAAATCGGTAA TAAAGGAAA	ACTTTTGCTCTGGCTT CCAA	59.1	943	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_33856959	Ca7	33856959	GAAAAAAA/GAAAAAA	TCCCATCATAAATCTG TGCC	ACTTTTGCTCTGGCTT CCAA	59.8	161	INTERGENIC	--	--	--
Ca7_P1_33859459	Ca7	33859459	AAG/A	AAAATGCGAAGATGTT TACGG	CTTCACCCTCTCGTAG CACC	59.1	768	INTERGENIC	--	--	--
Ca7_P1_33863858	Ca7	33863858	TAAAAA/TAAA	TCAAATAACCCCTTT CCC	TTTGTTTCCTTTGTC AGGG	60.0	659	INTRON	Ca_16193	U	--
Ca7_P1_33872304	Ca7	33872304	T/TG	TCATGCCACTTTAATG CCTG	TGCCAACCTTAAACCA CAGA	59.7	507	INTERGENIC	--	--	--
Ca7_P1_33880924	Ca7	33880924	TAAAAAAA/TAAAAA	TTTTTGTAATGATTGCT TGAATTT	CCGTTTCACTTTACCT TCGC	57.1	711	DRR	Ca_16194	O	--
Ca7_P1_33881885	Ca7	33881885	T/TA	ATGGTCCCTTAGGAGG AGGA	AGTTGGTGTGGAGAT GGAGG	59.9	771	DRR	Ca_16194	O	--
Ca7_P1_33886522	Ca7	33886522	TATCA/TATCATCA	TTGAGGCAATTTCTC CTTGA	CTTGAGCATGCTTGT TGAA	59.8	580	INTERGENIC	--	--	--
Ca7_P1_33890648	Ca7	33890648	T/TA	TGCCTTGCCAATTATT CCTC	TTGCTATGGATGGCTA AGGG	60.0	723	DRR	Ca_16196	O	TCP
Ca7_P1_33890873	Ca7	33890873	ATTT/ATTTT	ATTGTTTCCCATCGTTT CCA	TTGCTATGGATGGCTA AGGG	60.2	537	DRR	Ca_16196	O	TCP
Ca7_P1_33893820	Ca7	33893820	ATTTTTTT/ATTTTTTTT	TTGACGACGCATTGGT ACAT	GAGTCCACTTTTCAA CGGC	60.0	880	INTERGENIC	--	--	--
Ca7_P1_33894155	Ca7	33894155	TTATATATATATATATAT/TTATATAT ATATATATATATATAT	ATGCATCAAGGTGTCG TCAA	GAGTCCACTTTTCAA CGGC	60.1	268	INTERGENIC	--	--	--
Ca7_P1_33900163	Ca7	33900163	GAAT/GAATTAAT	GCTTGAGATCATTTCAT CAACCA	AGCGGAAGTTGGACAT ATCG	60.1	562	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_33902350	Ca7	33902350	A/AG	TCCCAAATAAACATCC CCAA	CGAGTGGACAAGAAC CCAAT	60.0	311	INTERGENIC	--	--	--
Ca7_P1_33902723	Ca7	33902723	ATTT/ATTTT	TCCCAAATAAACATCC CCAA	GGGAAATAGACCAAC ATGTCAA	60.0	599	INTERGENIC	--	--	--
Ca7_P1_34011796	Ca7	34011796	TATAATAATAATAATAATAATAATA ATAATAATAATAA/TATAATAATAATAA TAATAATAATAATAATAATAATAAT AA	ACGTTGGGTGAACCA GATA	GGCTCTTTGCACCAA AAAT	60.2	761	INTERGENIC	--	--	--
Ca7_P1_3402006	Ca7	3402006	GTTTTTTTTTTT/GTTTTTTTTTTT TT	GATCTAACACGACCAA GCCC	TGGTGCTTTCAATTT GCAG	59.6	571	DRR	Ca_03124	--	--
Ca7_P1_34040620	Ca7	34040620	A/ATGATTGC	GCCTTCCAATCACTGA CCAT	CGTGGCAGCACTACA CTTACA	59.9	443	DRR	Ca_16199	R	--
Ca7_P1_34108867	Ca7	34108867	G/GAATGGC	TTGTTGCGTCCATATT TCG	TGTGGTCTTGAGAGA ACCC	59.6	925	INTERGENIC	--	--	--
Ca7_P1_34109983	Ca7	34109983	GAAA/GAAAA	TCGGGACCCACTATT TGAC	AAAATTGTGTGGTGGT GGGT	59.8	497	INTERGENIC	--	--	--
Ca7_P1_34134727	Ca7	34134727	TCCCC/TCTCTCTCTCTCCCCCCC	AACCATGCAACCTGAA AAGG	CTTCGTGCACCTAACG ACAA	60.0	397	INTRON	Ca_21006	K	ERF
Ca7_P1_34136390	Ca7	34136390	T/TA	TGCCCATTAATTCTTG CCTC	AGGCTGATTCTCCCTT GGAT	60.0	458	INTRON	Ca_21006	K	ERF
Ca7_P1_34138307	Ca7	34138307	GTTTTTTTTT/GTTTTTTTTTTT	CAAGATGCACAGGAGT GGAA	GGACAAGCATTCCCC ACTA	59.8	451	INTRON	Ca_21006	K	ERF
Ca7_P1_34138985	Ca7	34138985	CAAAAAAAAA/CAAAAAAAAAAA	TTGCATGATCCTTGAA GCTG	CAAGCTCAGGTGTTT GACA	59.9	884	INTRON	Ca_21006	K	ERF
Ca7_P1_34152239	Ca7	34152239	TAAA/TAA	AAGCTTGGAGCAGGAC AGAA	CTGCAAGATCGAGGT 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/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_34152653	Ca7	34152653	CG/CGATG	TCCCTTTAAATGCAAC CAGG	CGCTTATGGAGAAGCC AGAT	59.9	358	INTRON	Ca_21006	K	ERF
Ca7_P1_34154491	Ca7	34154491	ATTTTTTTTT/ATTTTTTT	CACTGCATCCATAAAT GGGAC	TCAAACCTGGCCTCAG TGAA	60.2	677	INTRON	Ca_21006	K	ERF
Ca7_P1_34157692	Ca7	34157692	CA/CAAA	TCCTCTTCTGGGATT CCTT	GGCTACGGGTTTCAAA CAAA	60.0	427	INTRON	Ca_21006	K	ERF
Ca7_P1_34162950	Ca7	34162950	CTATTATATTATATTATTA/CTATTA TATTATATTA	ATGACTTCTCCGTG GTGG	AAAAAGATGGAATGA CGGC	60.0	816	INTRON	Ca_21006	K	ERF
Ca7_P1_34164491	Ca7	34164491	ATTTTT/ATTTT	GTATTACGGGTTGCC ATTG	ACGAGGACCATTACCA CGAG	60.1	468	INTRON	Ca_21006	K	ERF
Ca7_P1_34169283	Ca7	34169283	TAAAAA/TAAAA	TGAGTCACGGTTTCAT TTCG	TGTGCAAGACATTTT GGACTT	59.7	782	DRR	Ca_21006	K	ERF
Ca7_P1_34170490	Ca7	34170490	GTTTTTTTT/GTTTTTTTTT	AGGGGATACCCACCAA TGA	ACCAGGATGCTGAAGA ATGG	60.0	787	INTERGENIC	--	--	--
Ca7_P1_34170703	Ca7	34170703	TAAAAAAAA/TAAAAAAAAA	TTTAAGGAAGTCTGCG TTTGC	ACCAGGATGCTGAAGA ATGG	59.5	361	INTERGENIC	--	--	--
Ca7_P1_34173121	Ca7	34173121	TAAAAAAAA/TAAAAA	TCGGCAACCTAATTCA AACC	AATGCGTAACATTGA CCCC	59.9	609	INTERGENIC	--	--	--
Ca7_P1_34173546	Ca7	34173546	GT/GTATCT	TGGGGTCAAATGTTAC GCAT	TTTGATCTTCTCGGT CGCT	61.1	499	INTERGENIC	--	--	--
Ca7_P1_34174102	Ca7	34174102	CTTTTTTT/CTTTTTTTTT	AGCGACCGAAGAAGAT CAAA	GCTTGCATTTTGGGTG AGAT	60.0	509	INTERGENIC	--	--	--
Ca7_P1_34176709	Ca7	34176709	TTTTATTT/TTTT	AGCGTTGAAATTATGG ACCG	TCGTTTGTTGTGCAATT GTTTC	60.0	682	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_34177901	Ca7	34177901	CA/CACCTTAA	TGTAAATCCGATGCGA ATGA	AGCCAACGAAAATTGT CTCC	60.0	314	INTERGENIC	--	--	--
Ca7_P1_34178417	Ca7	34178417	TTATATATA/TTATATA	GGAGACAATTTTCGTT GGCT	AAGATTTGCGGAGACG AGAA	59.2	685	INTERGENIC	--	--	--
Ca7_P1_34184403	Ca7	34184403	CCTCACT/CCTCACTCACT	TTCACCTCCGAAAATTC GTCC	CGCCACAGTAGTCCAT GAAA	60.1	393	DRR	Ca_21005	--	--
Ca7_P1_34186679	Ca7	34186679	ATTTTTTTTT/ATTTTTTTTT	CATTTCTCTTTCCGGC TCTG	CAAACCACGAATCCAG ACCT	59.9	459	INTRON	Ca_21004	S	--
Ca7_P1_34187425	Ca7	34187425	GAA/GAAA	AGGTCTGGATTCGTGG TTTG	ACATCCGTGCAAGGAA AAAG	60.0	646	INTRON	Ca_21004	S	--
Ca7_P1_34189872	Ca7	34189872	AATAT/AAT	CATTCAGGCATTGTTT CCC	AAAACTAGGGCTATT TGGAGC	60.3	594	DRR	Ca_21004	S	--
Ca7_P1_34191517	Ca7	34191517	ATTTTTTTTT/ATTTTTTT	CAATGACATGAGTGCA ACACC	GTTCGATCGCCATTGA AGTT	60.0	893	INTERGENIC	--	--	--
Ca7_P1_34191589	Ca7	34191589	TAAAAAAAA/TAAAAAAAA	TGGTTCAAAATTCGGA CTCAA	GTTCGATCGCCATTGA AGTT	60.5	795	INTERGENIC	--	--	--
Ca7_P1_34192595	Ca7	34192595	GTGGTACTG/GTGGTACTGGTACTG	AAATTGGTGCTGTGG TAGC	CCCAAAACCCTGCGTAA AGTA	60.0	428	INTRON	Ca_21003	O	FAR1
Ca7_P1_34204751	Ca7	34204751	TTATATATATA/TTATATATATATA	AGCATTGCGCGTAAAG AGAT	TGATGTTACATGACGT GTTTGG	60.0	665	INTERGENIC	--	--	--
Ca7_P1_34205414	Ca7	34205414	ATTTT/ATTTTT	TTGAAATACACACAA AATTGACA	TTGACCTTGAAATCAA CTCACC	59.4	267	INTERGENIC	--	--	--
Ca7_P1_34205669	Ca7	34205669	GAAAAAA/GAAAAA	GGTGAGTTGATTCAA GGTCAAA	GGGAAAAAGATTCCCA ACAA	60.4	526	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_34213991	Ca7	34213991	TCAGAATTACAGAATTACAG/TCAGAA TTACAG	TGCGCGATCTCTAATC AATG	CGGCAACCTTACCTCA ACTC	59.9	763	INTERGENIC	--	--	--
Ca7_P1_34216629	Ca7	34216629	GTTTTTTTT/GTTTTTTTT	TTTGTCCCTCCCAAGA AATG	ATCTCACCCCTGGTTG TCTG	59.9	427	DRR	Ca_20999	L	--
Ca7_P1_34217652	Ca7	34217652	TAAAAAAAA/TAAAAAAAA	GCCACAACTCATGC CTAT	TGCAGCAGTCAATGTT CCTC	60.0	347	DRR	Ca_20999	L	--
Ca7_P1_34221118	Ca7	34221118	TAAAAA/TAAAAA	GGATAGGGCCCAAAAC AAAT	AGGTTGCTTCGTTGG TATG	60.0	532	INTRON	Ca_20999	L	--
Ca7_P1_34222603	Ca7	34222603	TGGGGG/TGGGGGG	TTGTTTCTCCCAGTTT TGG	GCAGTTTGGTCCCC TATT	59.9	276	INTRON	Ca_20999	L	--
Ca7_P1_34223513	Ca7	34223513	ACCCCC/ACCCCCC	AGATGGAAGCCAGTAA GCGA	ACAGAGCCTAAACCA GGCA	60.0	244	INTERGENIC	--	--	--
Ca7_P1_34223872	Ca7	34223872	TAAAAA/TAAAAA	GCATTTGACAGGTTAA TGCT	TGCTCACATATTTGG CACA	60.1	484	INTERGENIC	--	--	--
Ca7_P1_34224527	Ca7	34224527	CAAAAAA/CAAAAAA	GCATTTGACACATCT ATTCAACC	GGCGGACGAACCTATT TTCA	59.8	893	INTERGENIC	--	--	--
Ca7_P1_34237604	Ca7	34237604	CTT/CTTTGGTTATGGTT	TGGGAGGATGAGATGA GACC	CAAGGAACCATCCATT TGCT	60.0	590	INTERGENIC	--	--	--
Ca7_P1_34238786	Ca7	34238786	TAAA/TAA	ACACAAATTTAATATGG ATTGAGTACA	CAAGCAAAACAAAGT GCCA	57.3	426	INTERGENIC	--	--	--
Ca7_P1_34239506	Ca7	34239506	AC/A	GCCACCAAACTGAAGC AACT	TCCAAATATGGATGAC AACTCAA	60.3	673	INTERGENIC	--	--	--
Ca7_P1_34239577	Ca7	34239577	CTT/CTTAAATT	GCTCATTCAAAAGTAA AACCGAA	TCCAAATATGGATGAC AACTCAA	59.7	237	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_34239748	Ca7	34239748	CAAAAA/CAAAA	GCTCATTCAAAAGTAA AACCGAA	TTTCAAACCGTCAATT ATTATGTC	59.7	583	INTERGENIC	--	--	--
Ca7_P1_34241320	Ca7	34241320	ATTT/ATTTT	GCATCATGTGGACTTG GTTG	CAAAGCTACCACACCT TACTTGC	60.0	550	INTERGENIC	--	--	--
Ca7_P1_34241485	Ca7	34241485	CTTTT/CTT	TGGTTGTTCATCACA TGCTCT	CAAAGCTACCACACCT TACTTGC	58.8	536	INTERGENIC	--	--	--
Ca7_P1_34243286	Ca7	34243286	A/AC	TGTAAGTGTGGCTTTT TCTCG	TGGGACATCGTTCATA TTCA	58.2	476	INTERGENIC	--	--	--
Ca7_P1_34251183	Ca7	34251183	AAT/A	AACCATGGGAACCAAT TGAA	TGGCCCAATGGATCAT TTAT	60.0	748	INTERGENIC	--	--	--
Ca7_P1_34251685	Ca7	34251685	TGA/TGAAGA	GGGTCGATTGGTGAAG AAGA	GGTTCAGAATCGTGT CGTT	60.1	165	CDS (large-effect mutations)	Ca_20996	S	--
Ca7_P1_34256619	Ca7	34256619	TCA/TCACA	CGGAGTGGACTCTAAC CCAA	TTAGGTGATTCTATGC GCC	60.1	532	DRR	Ca_20996	S	--
Ca7_P1_34258852	Ca7	34258852	C/CG	TGGCGTTTCACTGAGA TGAG	CTCGGTGTCCAACATG TGTC	60.0	546	INTRON	Ca_20995	R	bZIP
Ca7_P1_34266667	Ca7	34266667	AGAAAATTGATTG/AG	ATTGATTATGTTGCCA CGCA	TTTTGCTGCCAAGACA CAAG	60.0	614	DRR	Ca_20994	R	--
Ca7_P1_34274334	Ca7	34274334	AAATTATTTCAA/AAA	AAAACCACCGAGTCAT CAGC	AGCCCGTTTGCTACCT TTTT	60.1	555	DRR	Ca_20991	--	M-type
Ca7_P1_34274392	Ca7	34274392	TAAAA/TAAA	ACCACCGAGTCATCAG CTCT	AGCCCGTTTGCTACCT TTTT	59.9	552	DRR	Ca_20991	--	M-type
Ca7_P1_34274718	Ca7	34274718	TTTCA/TTTCATAAAATCA	AACCATCAACCTGTGC ATGA	CTGACTTTTAGAGGGC TGCG	60.0	426	INTRON	Ca_20991	--	M-type

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_34276465	Ca7	34276465	ATTTCAC/A	ACACTTTGTTGTGGCA GCAG	CGTTGCCACAGTGATT TTGT	59.9	493	INTRON	Ca_20991	--	M-type
Ca7_P1_34277307	Ca7	34277307	T/TG	CAATGGCAGAAGAAGC ACAA	TTTGTGGTGCCAGTGT GAAT	60.0	335	INTERGENIC	--	--	--
Ca7_P1_34277545	Ca7	34277545	G/GT	ATTCACTGGCACCA CAAA	TCTTTGAGGAAGCGAC CACT	60.0	232	INTERGENIC	--	--	--
Ca7_P1_34278071	Ca7	34278071	T/TC	TCTCAAGTGGTCGCT TCCT	CCTTGCCATTTAATT TTGG	60.0	915	INTERGENIC	--	--	--
Ca7_P1_34278231	Ca7	34278231	ATTTTT/ATTT	TGGACTGCTCGATTGT CAAA	CCTTGCCATTTAATT TTGG	60.4	557	INTERGENIC	--	--	--
Ca7_P1_34278471	Ca7	34278471	T/TAAATAC	TTTGACCCATCAATCA TCAAA	CCTTGCCATTTAATT TTGG	60.2	102	INTERGENIC	--	--	--
Ca7_P1_34278775	Ca7	34278775	TAAAAAAAA/TAAAAAAA	CCAAAATTAATGGCG AAGG	TTTGGCAAAGTTT AGGG	59.4	746	INTERGENIC	--	--	--
Ca7_P1_34278868	Ca7	34278868	TAAAAAAAA/TAAAAAAA	CCAAAATTAATGGCG AAGG	AGACAAATATCGGTAC GGCG	59.4	831	INTERGENIC	--	--	--
Ca7_P1_34283808	Ca7	34283808	CTTTTTTTT/CTTTTTTTT	CATAACCCATATGCGA GCAA	TCCATGAATTTGTCAA CCGA	59.5	662	DRR	Ca_20990	A	--
Ca7_P1_34283992	Ca7	34283992	GAAAAAAAA/GAAAAAAAA	CATAACCCATATGCGA GCAA	TCCATGAATTTGTCAA CCGA	59.5	662	DRR	Ca_20990	A	--
Ca7_P1_34284067	Ca7	34284067	GTTT/GTTTT	CATAACCCATATGCGA GCAA	TCCATGAATTTGTCAA CCGA	59.5	662	DRR	Ca_20990	A	--
Ca7_P1_34284410	Ca7	34284410	ATTTAGTTTA/ATTTA	GTTACGGCAAACTTG GGAG	TGCAATTCAATCCAAT TAACCA	59.6	391	DRR	Ca_20990	A	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_34284444	Ca7	34284444	TT/TTTAT	GTTACGGCAAACCTTG GGAG	TGCAATTCAATCCAAT TAACCA	59.6	391	DRR	Ca_20990	A	--
Ca7_P1_34286263	Ca7	34286263	TAAAAAAA/TAAAAA	ACGTCAGACATTGGAT GTGC	TTGTTTTCAAGGAGTT GCGA	59.6	666	INTERGENIC	--	--	--
Ca7_P1_34286533	Ca7	34286533	AAG/AAGAG	CCTCTAAAAATGGAAA ATGACCA	GTCTCTGCCGCTGAAC TCTT	59.4	793	INTERGENIC	--	--	--
Ca7_P1_34287454	Ca7	34287454	GAAAAAAA/GAAAAA	TGACTATTTGCATAAC GAAGAGA	ATAGAGCTCTTGCCGG TTGA	58.2	242	INTERGENIC	--	--	--
Ca7_P1_34289491	Ca7	34289491	CTTTTTTT/CTTTTTTT	CCTCAAGATCTCATGA CGCA	AGCCCTTGGTTCTGTT CAAA	59.9	903	INTRON	Ca_20989	K	NAC
Ca7_P1_34293187	Ca7	34293187	TAA/TA	GCTCTGGCCATGTTTT TGTT	GACAAACGGGTGCAA GTTTT	60.1	742	DRR	Ca_20989	K	NAC
Ca7_P1_34295146	Ca7	34295146	AATTGTG/AATTGTATCTATTTGT	CCAACTGGCCTAGGAT GAAA	TGGGAGAAAAACAAGC AAGG	60.1	579	INTERGENIC	--	--	--
Ca7_P1_34296648	Ca7	34296648	TAAAAAAA/TAAAAA	AGCGATCAGGTCTGTT TTGAA	TTCCACACATTAAACG CGTA	59.9	508	INTERGENIC	--	--	--
Ca7_P1_34300479	Ca7	34300479	CAAA/CAAAA	GATGTGGCTGTTATG CCCT	CCAGCTTGCAATTG CAGA	60.0	694	INTRON	Ca_20988	--	NAC
Ca7_P1_34303170	Ca7	34303170	TATACATACATA/TATACATA	CCCCAACAAACAAAGT GTCA	CCATCCCAAGTCACTG TCCT	59.4	480	DRR	Ca_20988	--	NAC
Ca7_P1_34305236	Ca7	34305236	AATCATAACCATCATAACCATCATA/A ATCATAACCATCATA	ACCGATGCATTGATGA AGGT	CAATGGTGTGCTTGTA ACCG	60.3	806	INTERGENIC	--	--	--
Ca7_P1_34305420	Ca7	34305420	CT/CTT	TGCAACTCTAGATGTG AGCCA	CAATGGTGTGCTTGTA ACCG	59.6	727	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_34310917	Ca7	34310917	CTTT/CTTTT	CCACAAAATTCATGCT GCAA	GGACCAGAAAAGCAG GAGGT	60.6	583	INTERGENIC	--	--	--
Ca7_P1_34312118	Ca7	34312118	AAATTAAT/AAAT	TTGCTAATTGCTAATTG CTTTG	TGGAGTGAGTGTGAG AAAGGAG	57.4	388	INTERGENIC	--	--	--
Ca7_P1_34312312	Ca7	34312312	TTAT/TT	CTCCTTTCTCACACTC ACTCCA	TTGGTGGACTTCCCAA CTTC	59.5	515	INTERGENIC	--	--	--
Ca7_P1_34312381	Ca7	34312381	CTTT/CTTTTT	CTCCTTTCTCACACTC ACTCCA	TTGGTGGACTTCCCAA CTTC	59.5	515	INTERGENIC	--	--	--
Ca7_P1_34312433	Ca7	34312433	GATAAATA/GATA	CTCCTTTCTCACACTC ACTCCA	TTGGTGGACTTCCCAA CTTC	59.5	515	INTERGENIC	--	--	--
Ca7_P1_34312678	Ca7	34312678	ATTTTTTTTT/ATTTTTTTT	CTCCTTTCTCACACTC ACTCCA	TTGGTGGACTTCCCAA CTTC	59.5	515	INTERGENIC	--	--	--
Ca7_P1_34313195	Ca7	34313195	TCACAATCAC/TCACAATCACACAATC AC	TGGGAAGTCCACCAAA GTTT	TTGATTGTGGTTGTTT TACCG	59.9	618	INTERGENIC	--	--	--
Ca7_P1_34313485	Ca7	34313485	TACCA/TA	TCTGGAATTCACAATC ACGG	AATGTCCCACTCCAA AAAG	59.5	557	INTERGENIC	--	--	--
Ca7_P1_34313529	Ca7	34313529	AAATAATA/AAATA	TCTGGAATTCACAATC ACGG	AATGTCCCACTCCAA AAAG	59.5	557	INTERGENIC	--	--	--
Ca7_P1_34314534	Ca7	34314534	ATTTTTTT/ATTTTTTT	AAAGATGGCCTCAACC TATTCA	TTGACAATTGTTAGAA GTGATTCCA	60.0	453	INTERGENIC	--	--	--
Ca7_P1_34316435	Ca7	34316435	ATAATTAAT/ATAATTAATTAAT	CATGGGTCTCACCCCT AGAA	AAGTTGCCATTGTAT TGGG	59.9	412	INTERGENIC	--	--	--
Ca7_P1_34316703	Ca7	34316703	AATATATAT/AATATAT	CATGGGTCTCACCCCT AGAA	CGTCTCGCATACAAAT TCCA	59.9	719	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_34317535	Ca7	34317535	AATATATATATATA/AATATATATATA	TTGTTTTTGGTGAAA GTGTGTG	GCAGGTTTTTTGTTTT TGGA	60.0	429	INTERGENIC	--	--	--
Ca7_P1_34318595	Ca7	34318595	CATTATTACAGATTT/CATTATTACAGA TTTATTATTACAGATTT	TCAATGACTGTGACAA AATCCA	GCTAGCAGCCACCTTC TTTG	59.0	503	INTERGENIC	--	--	--
Ca7_P1_34319877	Ca7	34319877	CTTGTTGTTGTTGTTGTTGTTGT/ CTTGTTGTTGTTGTTGTTGTTGT	CCACACTCCATGTTCA CACC	AGCACCACCATCAATG TCAA	59.8	246	INTERGENIC	--	--	--
Ca7_P1_34320519	Ca7	34320519	C/CTA	TTAACAAAACGGCTCC AACC	ACATGGCTTGGAGTTG GAAT	60.0	438	INTERGENIC	--	--	--
Ca7_P1_34321138	Ca7	34321138	GAAAAAA/GAAAAAA	AAATTGGGGAGGGAAA AATG	TGAAGGCACCGACTCT TACA	60.0	247	INTERGENIC	--	--	--
Ca7_P1_34323169	Ca7	34323169	ACTCTTTCTCTTTCTC/ACTCTTTCTCT TTCTCTTTCTC	TTGACTTTTGGTGGCA TTGA	ACAAATCCAACCCGCT CATA	60.1	530	INTERGENIC	--	--	--
Ca7_P1_34323598	Ca7	34323598	AT/AATT	TATGAGCGGGTTGGAT TTGT	ATGGGTACGGGTAATC CACA	60.3	402	INTERGENIC	--	--	--
Ca7_P1_34323647	Ca7	34323647	TAAAAA/TAAAAA	TATGAGCGGGTTGGAT TTGT	ATGGGTACGGGTAATC CACA	60.3	402	INTERGENIC	--	--	--
Ca7_P1_34323694	Ca7	34323694	TAAAA/TAAA	TATGAGCGGGTTGGAT TTGT	ATGGGTACGGGTAATC CACA	60.3	402	INTERGENIC	--	--	--
Ca7_P1_34324430	Ca7	34324430	CAAAAAA/CTAAAAA	TGTGGATTACCCGTAC CCAT	CAAAATTGCAAAGTGA ATGGA	59.9	902	DRR	Ca_20987	R	NAC
Ca7_P1_34324457	Ca7	34324457	TA/TAA	TCGCAATTGTGTGTGA GATTC	CGGTTTCACAATCATC ACATTT	59.7	875	DRR	Ca_20987	R	NAC
Ca7_P1_34324551	Ca7	34324551	CT/CTGATT	TCGCAATTGTGTGTGA GATTC	ACCGATGAGAAAGCTT TGGA	59.7	977	DRR	Ca_20987	R	NAC

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_34328524	Ca7	34328524	TCC/TCCC	AGGGAGGCACTTCGG AGTAT	TCAATTGTCACAAACA TCCTGA	60.1	433	INTERGENIC	--	--	--
Ca7_P1_34328663	Ca7	34328663	TTGTGT/TTGTGTGT	AGGGAGGCACTTCGG AGTAT	TATGCATGCTGTGTGA ATCG	60.1	570	INTERGENIC	--	--	--
Ca7_P1_34328779	Ca7	34328779	AT/ATTCAGT	AGGGAGGCACTTCGG AGTAT	GTGCAACCGATTGGTA TCCT	60.1	793	INTERGENIC	--	--	--
Ca7_P1_34336023	Ca7	34336023	AA/AAAAAAGA	TATTTGACCCGTGAGA CGTG	CAACCACAATTCAATT TATGCAA	59.6	539	INTERGENIC	--	--	--
Ca7_P1_34336122	Ca7	34336122	T/TTTA	TATTTGACCCGTGAGA CGTG	CAACCACAATTCAATT TATGCAA	59.6	539	INTERGENIC	--	--	--
Ca7_P1_34336444	Ca7	34336444	ATTT/ATTTT	TGTTTTTGAGGAAAA GTGTTG	TTTTTCAGTTTAATGCC AGCAA	59.2	903	INTERGENIC	--	--	--
Ca7_P1_34337209	Ca7	34337209	TAA/T	GCCGTCCTTAGCCTTC TTTT	TCTTTTGCAGTTGTG TTTGC	59.9	445	INTERGENIC	--	--	--
Ca7_P1_34337758	Ca7	34337758	TAAAA/TAAA	TGCAAAACAACTGCA AAAAG	TGCAACATCCATTGAT GACC	59.9	755	INTERGENIC	--	--	--
Ca7_P1_34337869	Ca7	34337869	TAA/TA	TGCAAAACAACTGCA AAAAG	TGCAACATCCATTGAT GACC	59.9	755	INTERGENIC	--	--	--
Ca7_P1_34338141	Ca7	34338141	AT/A	AAGTGAAAGCATATTC AAATCAACA	TGCAACATCCATTGAT GACC	59.1	327	INTERGENIC	--	--	--
Ca7_P1_34338469	Ca7	34338469	TAAAAA/TAAAAA	CCCCAACAAAGGTCAT CAAT	TGAGCTCCACCTTTTG ATCC	59.6	503	INTERGENIC	--	--	--
Ca7_P1_34339549	Ca7	34339549	GAAAAAAAA/GAAAAAAAAA	GGAGTTCAATTTTAAAC CTCGTCA	TCTCGTCTCTTGTTGA AGCA	60.7	718	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_34340420	Ca7	34340420	T/TA	CCCTTCTCTTTTCGGCC TTAC	TGTGGAATATCAAAC CCGT	60.2	573	INTERGENIC	--	--	--
Ca7_P1_34342253	Ca7	34342253	TTTTT/TTTTTATTTT	AATGATAGGTGGACGT TCAAA	GGGTAACTCGCCAC AACTA	57.1	725	INTERGENIC	--	--	--
Ca7_P1_34347667	Ca7	34347667	A/AC	TCATTTAGCGGCTGGT TTCT	TGCCGCAATAAAATGA AACA	59.8	643	DRR	Ca_20986	C	--
Ca7_P1_34348794	Ca7	34348794	TA/T	TTACCCTCCAAGACA CTTCG	CTTGTCGGCTTAAATC CCAA	59.2	321	DRR	Ca_20986	C	--
Ca7_P1_34350011	Ca7	34350011	AC/ACC	TTGAGTGTTGGATGGC TTCA	GGAGATTCGTCGCTTC TTTG	60.2	439	INTRON	Ca_20986	C	--
Ca7_P1_34350840	Ca7	34350840	ATTTC/A	CCTGCATGAGAACCAA GACA	CCACGGTTGAATGAAA GGAT	59.8	665	INTRON	Ca_20986	C	--
Ca7_P1_34366390	Ca7	34366390	TAAAAA/TAAAAAA	CCATTTTTGACACATG CTGC	TGAAATTGGAATGGGG TGTT	60.1	584	INTRON	Ca_20983	T	bHLH
Ca7_P1_34370452	Ca7	34370452	AA/AAGA	AGCCCAATATGCGCT TAGA	CCGAACTATTTCCAC GACC	59.8	522	INTERGENIC	--	--	--
Ca7_P1_34372508	Ca7	34372508	CAAAAAAAAAAAAAA/CAAAAAAAAAA	AACCCACCTGATATG TCGC	TCGAAGCTTTGCCAAA TAAGA	59.8	323	INTERGENIC	--	--	--
Ca7_P1_34376860	Ca7	34376860	C/CTA	CAGGACTCATGGCCAG TTTT	GAGGGTGGCGAAGAA TATCA	60.1	607	INTRON	Ca_20982	OUT	YABBY
Ca7_P1_34382419	Ca7	34382419	ATTTTTTTT/ATTTTTTT	TGCAAGGAAATGACCT TTTTG	CCGTACTAAAGGGGT GGGT	60.1	273	DRR	Ca_20982	OUT	YABBY
Ca7_P1_34383642	Ca7	34383642	TTCT/TT	TTAATTCAGTCGATGC CACG	TCTGGAAAATACACGT TGAATACAT	59.7	841	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_34385264	Ca7	34385264	CACAA/CA	AAATTTGCACATGCCAA	TGTGACGAATTGAGAC AGCA	60.0	273	INTERGENIC	--	--	--
Ca7_P1_34385404	Ca7	34385404	CTG/C	AAATTTGCACATGCCAA	TGTGACGAATTGAGAC AGCA	60.0	273	INTERGENIC	--	--	--
Ca7_P1_34391793	Ca7	34391793	CTTTTTTTTT/CTTTTTTTTTTTT	GGCGAGCATGAAATAC CAAT	CAATTGATGCAGGCAC ACTAA	59.9	256	INTERGENIC	--	--	--
Ca7_P1_34394214	Ca7	34394214	ATTTTTTT/ATTTTTTTT	TATTTGGCTATCTGCG GTCC	TCGGATGTAAATGCGA TGAA	60.1	726	INTERGENIC	--	--	--
Ca7_P1_34394315	Ca7	34394315	AG/A	TATTTGGCTATCTGCG GTCC	TCGGATGTAAATGCGA TGAA	60.1	726	INTERGENIC	--	--	--
Ca7_P1_34396059	Ca7	34396059	TATCTTATAAAA/TATCTTATAAAATCT TATAAAA	GTGCCAGAGGAGGTG GTAGA	TGACATTTGGGTCAGC ATGT	60.3	944	INTRON	Ca_20981	QR	B3
Ca7_P1_34407596	Ca7	34407596	CTAT/CTATAT	TGCATGCAGCTTCCTT CTAA	GCATGCAGCCTTGTTG ATTA	59.7	809	INTERGENIC	--	--	--
Ca7_P1_34407884	Ca7	34407884	TAAAAAAAAA/TAAAAAAAAA	ATGCAACTTGGTGGAT GCTT	GCATGCAGCCTTGTTG ATTA	60.5	586	INTERGENIC	--	--	--
Ca7_P1_3440807	Ca7	3440807	GGTGTATTAATAGTGTATTAAT/GGTG TATTAAT	TTTCTGAACCATCATTT TCGG	TGTCCATCATTTACTT CTCATGC	59.9	616	INTERGENIC	--	--	--
Ca7_P1_34408137	Ca7	34408137	TTTCCTT/TTT	TTCCCCGGTGACATAA CAGT	TTTCAGTAAGTGCTGCA TGGC	60.2	575	INTERGENIC	--	--	--
Ca7_P1_34408338	Ca7	34408338	GTTTT/GTTTT	TTCCCCGGTGACATAA CAGT	CACTGCATAAGCCTGCA AAAA	60.2	758	INTERGENIC	--	--	--
Ca7_P1_34413694	Ca7	34413694	TAAATAAATAAAATAA/TAAATAAATA AAAATAAATAAAATAA	TCATGGTTGACTAATT GTCTCTCC	TAGGCCATGGGTCCAA ATTA	59.5	210	DRR	Ca_20980	PT	FAR1

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_34451151	Ca7	34451151	AATATATATATATATATATATATATA /AATATATATATATATATATATATAT ATATATATATATATA	CGTATCTCCAGTACG ATGGA	ACTGTGACCCGCTTTC TTCT	60.0	830	INTERGENIC	--	--	--
Ca7_P1_34486819	Ca7	34486819	CTTTT/CTTTT	GACAGGCCGACGTAA GACAT	GGGTACATGGGCTG CATAC	60.1	504	INTERGENIC	--	--	--
Ca7_P1_34509865	Ca7	34509865	AGAGAGAGAGAGAG/AGAGAGAGAGA GAGGGAGAGAGAGAGAG	TTTGTGGTCTTCCTC GACC	GGGTGGATCAAATG ACCAA	60.1	173	INTERGENIC	--	--	--
Ca7_P1_34587026	Ca7	34587026	TTATATATATATATATATATATATAT ATATA/TTATATATATATATATATATA TATATATATATATA	CGTTTGATTTTGGTGT GTGA	TAGTGCGAACCTCCCT CGTT	59.4	455	INTERGENIC	--	--	--
Ca7_P1_34672457	Ca7	34672457	ATATTATTATTATTATTATTATTATT TATTATT/ATATTATTATTATTATTATTA TTATTATTATT	TTGTGCATTATTGAGG TGGA	ATTTGCACTTGGTTTG ACCC	57.5	897	INTERGENIC	--	--	--
Ca7_P1_34714424	Ca7	34714424	AA/AAGA	CGTGTCTCAAATCCCA ACCT	TTGCCATGTGGCATGT CTTA	60.0	746	INTERGENIC	--	--	--
Ca7_P1_34800808	Ca7	34800808	AT/ATATATATGT	AACACATCCGGTTCC ATTA	AGCGGCATAACCGTAT GAAC	60.1	547	DRR	Ca_17614	--	--
Ca7_P1_34843387	Ca7	34843387	AT/ATTATTATT	TTGTGAAGTGTGGCCC ATTA	TCCACATGTTCTATTCT GTTGC	60.0	212	DRR	Ca_17616	U	bHLH
Ca7_P1_34903171	Ca7	34903171	AATATATATATATATATATATATA/AAT ATATATATATATATATATATATATA	AAAGGCTCGAGGCATT TTTA	TGTCTGCATTTTAAGC AACGA	59.0	790	DRR	Ca_17624	--	ARF
Ca7_P1_34925576	Ca7	34925576	CATATATATATA/CATATATATA	AATTGCAAAGTTTGA GTTTCG	ACGCCCTGCAATCATA TCTC	57.1	298	INTERGENIC	--	--	--
Ca7_P1_34978631	Ca7	34978631	AATATATATATATATATATATATATA TATATATA/AATATATATATATATATAT ATATATATATATATATATA	TCTCACGGTCCCCTAA CTAAA	GGGACCTTTTAAATAA AGTTGTGG	59.6	652	INTERGENIC	--	--	--
Ca7_P1_35020588	Ca7	35020588	GATATATATATATATATATATATATA /GATATATATATATATATATATATAT ATATATATATA	ATACTCGCGGTTTGCT TTTG	TACATGCATTGCTGGC ATTA	60.3	476	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_35048654	Ca7	35048654	TTATATAT/TTATATATAT	AGGTGGGCAACTTTGA TGAC	GCATCTGGCTAGGAAC TTGG	60.0	673	INTRON	Ca_17632	R	--
Ca7_P1_35065921	Ca7	35065921	AT/A	TTTTGAAACAATGCTC GTGG	CAACCATCTTAAATGA CCACAAA	59.7	644	DRR	Ca_17634	--	--
Ca7_P1_3509080	Ca7	3509080	CGT/CGTTTGTGT	GCCTGTGCTCACTCAA TGGA	TGCCTGCCTGCCTACT ACTT	59.7	963	INTRON	Ca_03117	Z	MYB_related
Ca7_P1_35106457	Ca7	35106457	GTTTTTTT/GTTTTTTTT	CCTCGACCACTACTT TGGA	GTCATGGAGGATGGA ATTGG	59.9	538	INTERGENIC	--	--	--
Ca7_P1_35108609	Ca7	35108609	TAAAAAAAAA/TAAAAAAAAA	TCATTGTCAGCATCT TTCG	ACTCTCATCCCATCC CAGG	59.9	477	INTERGENIC	--	--	--
Ca7_P1_35109014	Ca7	35109014	ATTTTTTT/ATTTTTTTTT	CCTGGGATGGTGATGA GAGT	TCCCAACCAGACTGAA CTGG	59.9	806	INTERGENIC	--	--	--
Ca7_P1_35109189	Ca7	35109189	CG/CGG	CCTGGGATGGTGATGA GAGT	TCCAATGAATCCCTTG CTTC	59.9	945	INTERGENIC	--	--	--
Ca7_P1_35110208	Ca7	35110208	TA/TAA	ACAGGTTGGCCAAAAA GATG	ATTGGGTTTGGGTGAT TTGA	60.0	855	INTERGENIC	--	--	--
Ca7_P1_35111429	Ca7	35111429	ATTCCT/ATTCCTACGTTTCCT	GAAATTGAGGAAAGGG GAGC	TCCCTTTGTTGGTTG GGTA	60.0	711	DRR	Ca_17637	YU	--
Ca7_P1_35116078	Ca7	35116078	ATTTTTTTTT/ATTTTTTTTT	GGAGAGGGAAATCGAA GAGG	GGATGCAACCTCCAAC TAAGTC	60.1	553	INTERGENIC	--	--	--
Ca7_P1_35117297	Ca7	35117297	TG/T	GGTTGTAGAACCAGCC AAGG	GACGGTGTGACATATG GTGC	59.6	412	INTERGENIC	--	--	--
Ca7_P1_35118902	Ca7	35118902	T/TTTAATTACCACTA	ATGAATGCGAGGAAGA GGAA	TGCAGAGTGAATTGT TGCAC	59.8	879	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_35120290	Ca7	35120290	CTATATAT/CTATAT	GCCTCATTGGCATTTA GCTT	TGCATCATTTCATTACA CGTTGA	59.3	814	INTERGENIC	--	--	--
Ca7_P1_35121218	Ca7	35121218	CAAAAAA/CAAAAAA	CGGCCCTTATATCCA TTTT	TTGTTTTGTGCAATT ATTTTT	60.0	395	INTERGENIC	--	--	--
Ca7_P1_35121887	Ca7	35121887	GAAAAAAA/GAAAAAAA	AAAAATAATTGGCACAA ACCAA	GGGCAATTTTCTGTCT CCAA	58.5	851	INTERGENIC	--	--	--
Ca7_P1_3512331	Ca7	3512331	ATTT/ATT	AATTCGCATGCATATT CAACA	GCAGAGATTTGATTG AGGC	59.0	677	INTRON	Ca_03117	Z	MYB_related
Ca7_P1_35126253	Ca7	35126253	TT/TTCT	CCGATTGCATAACTGC AAAA	CGTTCTTTGTGAGGCT CTCC	59.7	837	INTERGENIC	--	--	--
Ca7_P1_35126886	Ca7	35126886	GTTTTTT/GTTTTTTT	GGAGAGCCTCACAAAG AACG	CGTGATAGACAAGTCG ATTCCA	60.0	320	INTERGENIC	--	--	--
Ca7_P1_35130945	Ca7	35130945	TAAA/TAA	TGTGGGAGGCAATAGA AGTG	TAAGTTCAATGCGACC ACGA	58.7	571	INTERGENIC	--	--	--
Ca7_P1_35131579	Ca7	35131579	T/TA	TCGTGGTCGCATTGAA CTTA	GAATCAAAATGGAGCG GAAA	60.3	376	INTERGENIC	--	--	--
Ca7_P1_35135581	Ca7	35135581	GTTTTTTTTTTT/GTTTTTTTTT	TGTTGGGTCACGCAAT TTTA	TGGTGAACACTCCAAC GCTA	60.0	409	INTERGENIC	--	--	--
Ca7_P1_35135655	Ca7	35135655	AATATATA/AATATATATA	TGTTGGGTCACGCAAT TTTA	TGGTGAACACTCCAAC GCTA	60.0	409	INTERGENIC	--	--	--
Ca7_P1_35138981	Ca7	35138981	ATTTTTTTTT/ATTTTTTTTT	ATGGGTGCGTTTCTTT TCAG	TCGCTCTCATCAATCA CATCA	60.1	171	INTERGENIC	--	--	--
Ca7_P1_35139699	Ca7	35139699	TG/TGAG	ATTCAAACAAACGCAT GCAA	CAGCTGGCACCTTAC AAGT	60.1	535	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_35147084	Ca7	35147084	GAAAAA/GAAAAAA	CCCTAAAGGTCTTGC ACCA	TTTGGAGCATGATGGA TGAA	60.1	553	INTERGENIC	--	--	--
Ca7_P1_35147612	Ca7	35147612	CG/C	TCATCCATCATGCTCC AAAA	TGGATTTTGCTACTCG TCCA	60.0	344	INTERGENIC	--	--	--
Ca7_P1_35148641	Ca7	35148641	ATCTCT/ATCT	GTTGCCAAATGTTAGC CGTT	GTCCTTGTGAGGGGA GTGGA	60.0	221	INTERGENIC	--	--	--
Ca7_P1_35150109	Ca7	35150109	TTTTATTATTATTATTATTT/TTTT ATTATTATTATTATTATTATT	GGGGAAACTTTTGGGG AGTA	CACCTTCGCCAATTTT ATCT	60.2	820	INTERGENIC	--	--	--
Ca7_P1_35150267	Ca7	35150267	GAAAAAAAAA/GAAAAAAAAA	TGGTTGTAATGTTGGG CTTG	CACCTTCGCCAATTTT ATCT	59.6	709	INTERGENIC	--	--	--
Ca7_P1_3515316	Ca7	3515316	GGGTG/GGTG	TCGGAGAGGGTTTGTG CCAC	TTTATGTCCGCCTTTC TTCA	60.0	259	DRR	Ca_03116	I	--
Ca7_P1_35154545	Ca7	35154545	ATTT/ATTTT	TCCATGTCAGATTGCG ATGA	CAATGTCCATTTGAGC ATGG	60.0	749	INTERGENIC	--	--	--
Ca7_P1_35154835	Ca7	35154835	TTATATATATATAT/TTATATATATAT	CAAAACGATAGAAAGA TAATGCAAGA	CAATGTCCATTTGAGC ATGG	60.0	374	INTERGENIC	--	--	--
Ca7_P1_35155463	Ca7	35155463	TAAAAAAAAA/TAAAAAAAAA	GGAGAATGTTTGGGAC CGTA	GGGGTGCTACAAAACA GGAA	59.8	908	INTERGENIC	--	--	--
Ca7_P1_35165320	Ca7	35165320	GTTTTT/GTTTTTTT	AAAGAGTGTGGTGAC CGGG	TCAGACAAAGCTGCAA CCAC	59.9	249	INTERGENIC	--	--	--
Ca7_P1_35166389	Ca7	35166389	CATGT/CATGTTATTTTATGT	ATCAAGGTGGGGATTG TTGA	TTGTAGTTTTTCACGT GGTGC	60.2	781	INTERGENIC	--	--	--
Ca7_P1_35166415	Ca7	35166415	TC/T	ATCAAGGTGGGGATTG TTGA	TTGTAGTTTTTCACGT GGTGC	60.2	781	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_35166612	Ca7	35166612	GAAAAAA/GAAAAAA	TTCAATTTTGTGTGT TGGAAA	TTGTAGTTTTTCACGT GGTGC	59.4	571	INTERGENIC	--	--	--
Ca7_P1_35166766	Ca7	35166766	TAAAAAAA/TAAAAAAA	GGCGCTATATGGTATT TTGAGTT	GGTTCTTCGCCTTCAC AAAC	58.7	948	INTERGENIC	--	--	--
Ca7_P1_35166858	Ca7	35166858	TAAAAAAA/TAAAAAAA	GCACCACGTGAAAAAC TACAA	GGTTCTTCGCCTTCAC AAAC	58.7	437	INTERGENIC	--	--	--
Ca7_P1_35166938	Ca7	35166938	AAATAA/AAA	GCACCACGTGAAAAAC TACAA	GGTTCTTCGCCTTCAC AAAC	58.7	437	INTERGENIC	--	--	--
Ca7_P1_35167236	Ca7	35167236	AGATAAT/A	GTTTGTGAAGGCGAAG AACC	AAAACACACGTTTTTCG CACA	59.7	436	INTERGENIC	--	--	--
Ca7_P1_35168164	Ca7	35168164	TAAAAA/TAAAAA	CACTGGGAGCCACCAA TAAC	GTTGGCGTGAGTTTAT TCCA	60.4	577	INTERGENIC	--	--	--
Ca7_P1_35170170	Ca7	35170170	TAAAAA/TAAAA	TGACTTTTGGTGGCTA GGGT	TTTTGTCCATTTCTGAT CCCA	59.6	362	INTERGENIC	--	--	--
Ca7_P1_3517028	Ca7	3517028	C/CG	GGCATGGGTGATTTG TAAC	AAGGCTTGGTTGTGG TGTC	60.1	868	DRR	Ca_03116	I	--
Ca7_P1_35175205	Ca7	35175205	GAAAAA/GAAAAA	TACTTTGCGTGTCTC GTCG	CCCATGAAGGAAAAAT AGCG	60.1	657	INTERGENIC	--	--	--
Ca7_P1_35175468	Ca7	35175468	CC/CCTTC	TACTTTGCGTGTCTC GTCG	CCCATGAAGGAAAAAT AGCG	60.1	657	INTERGENIC	--	--	--
Ca7_P1_35175572	Ca7	35175572	AAATA/AA	GGCCATGGGAATAAA ACTG	CCCATGAAGGAAAAAT AGCG	59.4	239	INTERGENIC	--	--	--
Ca7_P1_35176950	Ca7	35176950	CTTTATTTATTT/CTTTATTTATTT ATTTATTT	TTTGTTTTGAGGAGG TGGG	TAAAGATGGAGTCGGT TGGC	60.5	777	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_35177660	Ca7	35177660	AATA/ATAAAAAATAATATA	GCCAACCGACTCCATC TTTA	TTTAGCAGTTTTTCAAT TTCCAA	60.1	690	INTERGENIC	--	--	--
Ca7_P1_35178996	Ca7	35178996	TTATATATAT/TTATATATATAT	TTTTCAAACCTTTCCCC TCG	CGTTTGCCTTTCTAA CTCC	59.2	917	INTERGENIC	--	--	--
Ca7_P1_35180198	Ca7	35180198	AAAGAACAAAGACAAGA/AAAGAACAA GAACAAGACAAGA	GGGTTTTAGGTGGGG TGAT	TGTAACACGGTCCAAT CCAA	59.9	203	CDS (large-effect mutations)	Ca_17639	--	bHLH
Ca7_P1_35184784	Ca7	35184784	TTAAATAAAA/TTAAATAAAATAATAA AA	CATGGACTCTTTGCGT CAGA	TGAGAAATTGGTGGAG GAGG	60.0	723	INTERGENIC	--	--	--
Ca7_P1_35190588	Ca7	35190588	ATACTTCTA/ATA	TTTGAAACGACTTTGT CCATGT	TGGGCCACTATGTTGC ATAA	59.5	682	INTERGENIC	--	--	--
Ca7_P1_35192514	Ca7	35192514	C/CT	TCTCCACTTGCAGAAG AGAT	GAAAACAAGGCAAAAGT CCCA	60.0	735	DRR	Ca_17640	--	Trihelix
Ca7_P1_35206628	Ca7	35206628	GT/GTAT	CGGACATCTGTTGTC CTTG	TCCCATTTATTGTCC CCA	59.1	334	INTERGENIC	--	--	--
Ca7_P1_35206915	Ca7	35206915	CATATA/CATA	TTGGGGACAAATAAAA TGGG	AAACGTGTTTCGTATT TTTGATG	59.5	548	INTERGENIC	--	--	--
Ca7_P1_35207391	Ca7	35207391	ATTT/ATT	TCATTGATAATAAAAG CAACACAGA	TGTCATGTGTTCTGAT GTGTCG	59.2	753	INTERGENIC	--	--	--
Ca7_P1_35207975	Ca7	35207975	TAAAAA/TAAAAA	TTGTGATCGACACATC AGAACA	CGTTTGTCCGGTGTA GGTT	60.2	186	INTERGENIC	--	--	--
Ca7_P1_35209926	Ca7	35209926	TAAAA/TAAA	CTTCCAACCATCAAATT CCG	TCATACCAATGAAGGA AAACTCAA	60.3	968	INTERGENIC	--	--	--
Ca7_P1_35210163	Ca7	35210163	CAAAAA/CAAAAAA	ATCTGGCATGCAACA AAAA	TCATACCAATGAAGGA AAACTCAA	59.2	735	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_35210755	Ca7	35210755	TAAAA/TAAAAA	TTGAGTTTTCCTTCATT GGTATG	ATATCCGACACTGCTC ACCC	58.2	824	INTERGENIC	--	--	--
Ca7_P1_35212474	Ca7	35212474	AT/A	AAGCTAAATGATGGGC AGGA	GAGGCTTTTACTGATC CCAAA	59.7	912	INTERGENIC	--	--	--
Ca7_P1_35213604	Ca7	35213604	CTTTTT/CTTTT	TTGGAGCAGTACCAAC TGACA	GCAATGTGTCAAAGGC TCAA	59.4	681	INTERGENIC	--	--	--
Ca7_P1_35215262	Ca7	35215262	GTTTT/GTTT	TGATTTTGGTGGGGCT TTTA	CAAGGAAGAAGCGTAC ACACA	60.3	609	INTERGENIC	--	--	--
Ca7_P1_35215336	Ca7	35215336	ATTTTTTT/ATTTTTTT	TGATTTTGGTGGGGCT TTTA	ATGCTCCACCGTACAC CTTC	60.3	712	INTERGENIC	--	--	--
Ca7_P1_35217446	Ca7	35217446	CTTTTTTT/CTTTTTTT	CGGATGTGGTTCAAAT TTCC	TCCCAGAAATCCTAGC CTTT	60.2	649	INTERGENIC	--	--	--
Ca7_P1_35217592	Ca7	35217592	CCCA/C	GCGGTGCTTAGTTTGT GAAA	TCCCAGAAATCCTAGC CTTT	59.0	522	INTERGENIC	--	--	--
Ca7_P1_35217634	Ca7	35217634	CAAAAA/CAAAAAA	GCGGTGCTTAGTTTGT GAAA	TCCCAGAAATCCTAGC CTTT	59.0	522	INTERGENIC	--	--	--
Ca7_P1_35217835	Ca7	35217835	TAA/TAAAAA	AAGGCTAGGATTCTCG GGAT	ATGCGGGATGTTCTTT TCAT	59.2	369	INTERGENIC	--	--	--
Ca7_P1_35217866	Ca7	35217866	ATTTTT/ATTTTTTT	AAGGCTAGGATTCTCG GGAT	ATGCGGGATGTTCTTT TCAT	59.2	369	INTERGENIC	--	--	--
Ca7_P1_35223188	Ca7	35223188	ATTTTT/ATTTTTTTT	CCCCTGGGTGTTTATG TCTG	AAACGCAATCAAAATG ACCA	60.2	686	INTERGENIC	--	--	--
Ca7_P1_35223217	Ca7	35223217	TTTTTT/TTTTATTTTT	CCCCTGGGTGTTTATG TCTG	TTCCAGTGGGCATTAA CTCA	60.2	885	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_35224888	Ca7	35224888	AATATAT/AATAT	GTGTGAAC TTGGCCCT CATT	TGCAAAATATGGATGC GAGA	60.0	973	INTERGENIC	--	--	--
Ca7_P1_35227195	Ca7	35227195	GA/GACA	AAAGCGAACGCCATT TAGA	TCAGAGCAACTGCAC TCAA	59.9	809	INTERGENIC	--	--	--
Ca7_P1_3522923	Ca7	3522923	CTT/CTTT	CCACTTTGCCTAGGAG CAAC	TTCCCCAGTGTCAAAG AAGG	59.9	723	INTRON	Ca_03116	I	--
Ca7_P1_35230084	Ca7	35230084	CTT/CTTT	TTTTGGTTCAGTTTG GITT	TCTTCCCATTTCCATT TTGA	58.2	402	DRR	Ca_17641	--	--
Ca7_P1_35230535	Ca7	35230535	C/CAT	TCAAAATGGAATGG GAAGA	TGGGTGAGGCTTTGCT ACTT	59.4	320	DRR	Ca_17641	--	--
Ca7_P1_35230825	Ca7	35230825	ATTTTTTTTT/ATTTTTTTT	AAGTAGCAAAGCCTCA CCCA	CGGATAATTTCAAATG GATCACT	59.9	401	INTERGENIC	--	--	--
Ca7_P1_35230846	Ca7	35230846	ATTTT/ATTT	AAGTAGCAAAGCCTCA CCCA	CGGATAATTTCAAATG GATCACT	59.9	401	INTERGENIC	--	--	--
Ca7_P1_3523561	Ca7	3523561	CAAAAA/CAAAAAA	TTGGATGGGAAGACCT TCTG	TCATTGCAAGAAGATC ACGC	60.0	405	INTRON	Ca_03116	I	--
Ca7_P1_35237941	Ca7	35237941	CAA/CAAA	TGTAGGAGATGTGCTC GCTG	TCAACGTATAGGGTGT GGCA	60.2	709	DRR	Ca_17643	T	--
Ca7_P1_3524276	Ca7	3524276	TAAAAA/TAAAAA	TGATCTTCTTGAATG AGCG	TGCTGACATATTTCCG CTGT	60.1	897	INTRON	Ca_03116	I	--
Ca7_P1_35256748	Ca7	35256748	CTT/CT	GCAAGGGGCAATTTAG TCAA	CTCACGGTGCTTCT CAAA	60.1	148	INTERGENIC	--	--	--
Ca7_P1_35258016	Ca7	35258016	ATTTTTTTTT/ATTTTTTTTTT	CCAAGGAAAAGATTCA CCGA	TTGGAGCGACCTGTTT CTCT	60.0	293	INTRON	Ca_17644	UR	HB-other

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_35263851	Ca7	35263851	CTTT/C	TTTTTGTGGAAGGAAG CAGC	CGAAGGGGTGTAGC TCATA	60.4	330	DRR	Ca_17644	UR	HB-other
Ca7_P1_35275008	Ca7	35275008	AGGTGGTG/AGGTG	CAACCTTGGTGTTCG CTTT	CTTCTTCATTCGCCTG GAAC	60.0	262	DRR	Ca_17646	R	--
Ca7_P1_35275546	Ca7	35275546	T/TACATG	GTTCCAGGCGAATGAA GAAG	CTCATGAAGGATCGCG GTAT	59.8	847	DRR	Ca_17646	R	--
Ca7_P1_35279048	Ca7	35279048	CAGA/CA	CACGCCTTTGTACCT GGTT	TTGGAAAGGACGTTGT GTCA	60.0	401	INTRON	Ca_17646	R	--
Ca7_P1_35283537	Ca7	35283537	T/TCCACGATGAA	GCCCAATTGGTTCAGT CAGT	CATCCTGAGGCGAGT GATTT	60.0	770	INTRON	Ca_17646	R	--
Ca7_P1_3528666	Ca7	3528666	CTATAT/CTATATAT	GGGGAACACATCAAAA CCAC	TTATTTTCACTAATTT TGATCTCTCA	60.1	778	INTERGENIC	--	--	--
Ca7_P1_35289385	Ca7	35289385	CATATATA/CATATATATA	CGACGTCGTAACGGAT TTTT	TTTGACCAAGGTTTT CCCA	60.0	548	INTRON	Ca_17646	R	--
Ca7_P1_35289603	Ca7	35289603	T/TC	CGACGTCGTAACGGAT TTTT	GAAGGCAGTTGGGG ACATA	60.0	841	INTRON	Ca_17646	R	--
Ca7_P1_35289806	Ca7	35289806	CAAAAA/CAAAAA	ATTGGGAAAACCTTTG GTCA	GAAGGCAGTTGGGG ACATA	59.3	315	INTRON	Ca_17646	R	--
Ca7_P1_35290056	Ca7	35290056	TT/TTATTTTCAT	TATGTCCCCAACTGC CTTC	ACGTCGTCGGCTATT ATCG	59.9	223	INTRON	Ca_17646	R	--
Ca7_P1_35290233	Ca7	35290233	TC/TCC	TATGTCCCCAACTGC CTTC	CCCAATTTTGCAATTT CTGT	59.9	442	INTRON	Ca_17646	R	--
Ca7_P1_35292570	Ca7	35292570	GT/GTT	TGAACCAAAATTCTATA TGGGGA	GACCCCTCTTTGTAAC GCAA	59.6	692	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_35292736	Ca7	35292736	ATTTTTTTT/ATTTTTTTT	TGAACCAAAATCTATA TGGGGA	GACCCCTCTTTGTAAC GCAA	59.6	692	INTERGENIC	--	--	--
Ca7_P1_35292837	Ca7	35292837	AGG/AGGG	TGCAGGATTTAGTGGT GGTG	GACCCCTCTTTGTAAC GCAA	59.6	154	INTERGENIC	--	--	--
Ca7_P1_35293686	Ca7	35293686	A/AC	AATCCACCAGCTCCA AGTG	TCGGTGCAACATTTTC TTCA	60.1	359	INTERGENIC	--	--	--
Ca7_P1_35293719	Ca7	35293719	AATA/AATATATA	AAATGCTGGAACAAAA TGCC	TTCTCCGGTGAATTCA ACATT	59.9	734	INTERGENIC	--	--	--
Ca7_P1_35302130	Ca7	35302130	CTTTTTTTTT/CTTTTTTTTT	AGGGGATTGACGAAG GAAC	TGGTTGGATTGCTGTT CAAA	59.9	612	INTERGENIC	--	--	--
Ca7_P1_35304578	Ca7	35304578	GC/G	TTTGCAATGAAGAC ACAG	CTGTATGCCAGTGTG TTGG	60.0	263	INTERGENIC	--	--	--
Ca7_P1_35305875	Ca7	35305875	ATTTTTTT/ATTTTTTTTT	AGGGAAGCTCCAAAG TCAT	ATGGATAATTGCGACG GTTT	60.1	631	INTERGENIC	--	--	--
Ca7_P1_35309115	Ca7	35309115	GAAAAAAAA/GAAAAAAAA	ATGCTACCACGGACAC AACA	GGCATTGGTTTATTTT GGCA	60.0	708	INTERGENIC	--	--	--
Ca7_P1_35313643	Ca7	35313643	TC/T	TTCGATAAGCAAAAG CTCCA	AACTGAATATGGGCCA GTCG	60.0	805	INTERGENIC	--	--	--
Ca7_P1_35316257	Ca7	35316257	CAAAAAA/CAAAAAA	TTTTGGTTCGTTTGATT CGAG	TCCATTGTTTGTTTG AGCA	60.1	551	INTERGENIC	--	--	--
Ca7_P1_35316997	Ca7	35316997	TAAAAAAAAA/TAAAAAAAAA	TGACTCTCCTTCGCCA AGAT	TACATCCCAGTACACG CAAA	60.0	197	INTERGENIC	--	--	--
Ca7_P1_35317473	Ca7	35317473	ATTTT/ATTTT	CGATGCACACTCATTT TTGC	TGGTTCATTTGCAATG GTTG	60.3	535	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_35318451	Ca7	35318451	AAAT/A	CCTCTGAAGCAAGCAA CACA	TCAATCAGCGAATTG AAAA	60.2	203	INTERGENIC	--	--	--
Ca7_P1_35330032	Ca7	35330032	TTCT/TTCTCTCT	TCACGTGCACTATGCC TCTC	TCGGTGATGGGTATTT GACA	60.0	421	INTRON	Ca_17647	BK	FAR1
Ca7_P1_35330638	Ca7	35330638	GA/GAA	TGTCAAATACCCATCA CCGA	TCAGCCCTCTGGAAAT ATGG	59.8	607	INTRON	Ca_17647	BK	FAR1
Ca7_P1_35331728	Ca7	35331728	A/AG	GTTGCTGATCTGAGGG AAGC	ATCTACATTGCAGGGG TCCA	60.0	727	INTRON	Ca_17647	BK	FAR1
Ca7_P1_35332726	Ca7	35332726	TTATATATA/TTATATATATA	AGCGGGAGGAATTGAA AGTT	CATGCTGAACCAGAAA AGCA	60.1	400	DRR	Ca_17647	BK	FAR1
Ca7_P1_35332956	Ca7	35332956	CAAAAA/CAAAA	AGCGGGAGGAATTGAA AGTT	AAACCCGGACCAGATA TTGA	60.1	483	DRR	Ca_17647	BK	FAR1
Ca7_P1_35333033	Ca7	35333033	C/CT	TGCAAGCACCCAATT GTAG	CTTTTCCATGCCACGG TACT	59.7	974	DRR	Ca_17647	BK	FAR1
Ca7_P1_35337950	Ca7	35337950	C/CT	CATGATTGCTTTCCAT GCAG	GGCTAGGGATGAAC TA CCCC	60.2	345	INTRON	Ca_17648	--	TCP
Ca7_P1_35347410	Ca7	35347410	T/TTATTTTA	AGTTTCCACATGTGAT AAATTGC	CCTCCTATCCAACCCA TGAA	58.1	749	INTERGENIC	--	--	--
Ca7_P1_35347715	Ca7	35347715	GTTTTT/GTTTT	TTTTTCCCTGTTTCTAT GGTTC	TACCACCCACCCAAT CTAA	57.3	321	INTERGENIC	--	--	--
Ca7_P1_35348488	Ca7	35348488	GAAAAA/GAAAAA	GTGGGTGGTACAAGGT GGAG	AAGCAAATAACAAGGT GTGCC	60.3	669	INTERGENIC	--	--	--
Ca7_P1_35349143	Ca7	35349143	TGGGG/TGGGGG	TCTCCAAGAAATGAAA GGAAAAA	TGGACCCATGGCCTAA ATAA	59.3	102	DRR	Ca_17650	PT	FAR1

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_35357787	Ca7	35357787	ATT/AT	AAGTTCGAATCTAAAA CCCCG	CCCCATTTTCCAATCC TTTT	59.5	768	INTERGENIC	--	--	--
Ca7_P1_35364062	Ca7	35364062	ATTTT/ATTT	AGGCCTGCACATTTT CAGT	ATGACCGAGCCTGATA CCTG	59.7	784	INTERGENIC	--	--	--
Ca7_P1_35364737	Ca7	35364737	AGATTAGGA/AGA	CGCATTCTCTCGAAA AGTC	TTGGAGAAAGATCTCC GGTT	60.0	439	INTERGENIC	--	--	--
Ca7_P1_35366366	Ca7	35366366	CA/CAA	GCAGTGCACGGGTCTA AAAT	AGTAGTTGGGTGGACA TGCG	60.1	877	INTERGENIC	--	--	--
Ca7_P1_35366726	Ca7	35366726	GAA/GA	ATTAGCAAAAACGGCA GCAG	TGCGACCTTCTGTTGA ATTG	60.4	640	INTERGENIC	--	--	--
Ca7_P1_35366746	Ca7	35366746	TCC/TCCC	ATTAGCAAAAACGGCA GCAG	TGCGACCTTCTGTTGA ATTG	60.4	640	INTERGENIC	--	--	--
Ca7_P1_35367905	Ca7	35367905	GAG	TGCGTCCCTAATATTT GCC	AATAGAAGGTCGCATC TCCG	59.9	552	INTERGENIC	--	--	--
Ca7_P1_35369159	Ca7	35369159	CAAAAAAAAA/CAAAAAAAAA	CCAAAGGCATTGAGG ATTC	TTGCCATTCTTTGACA CACA	59.5	308	DRR	Ca_17651	--	--
Ca7_P1_35370529	Ca7	35370529	AACA/AACACA	ATCCGAATTCGATTCC TCCT	GAGCCTCCATGCTCTC AATC	59.9	737	DRR	Ca_17651	--	--
Ca7_P1_35375551	Ca7	35375551	AATA/AATATA	TATTGAGGACACCACA GGCA	TTGGAGAAATGGAGGT TTGC	60.1	379	INTRON	Ca_17651	--	--
Ca7_P1_35378652	Ca7	35378652	ATTTT/ATTTTT	TCGGGTAGTGGTGGG TTTTA	TTTGAATTTTCACGA CAGTACA	60.2	902	INTERGENIC	--	--	--
Ca7_P1_35378747	Ca7	35378747	ATT/AT	GGACCCAAATGTGACC TATTGA	CACCGATCATCATTGC TTTA	61.0	825	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_35379689	Ca7	35379689	AAAT/A	TCCTCATCACCTGCAC AATC	TCCTCTACCCACCAAA CCAA	59.6	445	INTERGENIC	--	--	--
Ca7_P1_35379781	Ca7	35379781	ATTT/ATT	TCCTCATCACCTGCAC AATC	TCCTCTACCCACCAAA CCAA	59.6	445	INTERGENIC	--	--	--
Ca7_P1_35379825	Ca7	35379825	CTTTTT/CTTTTTTTT	TCCTCATCACCTGCAC AATC	TCCTCTACCCACCAAA CCAA	59.6	445	INTERGENIC	--	--	--
Ca7_P1_35379938	Ca7	35379938	G/GTGAGTT	TCCTCATCACCTGCAC AATC	TCCTCTACCCACCAAA CCAA	59.6	445	INTERGENIC	--	--	--
Ca7_P1_35385155	Ca7	35385155	GT/GTT	TGCGAAATGTGAGAAA ATGAA	AAGTCAAGATGGCTTG GTGG	59.3	225	INTERGENIC	--	--	--
Ca7_P1_35386085	Ca7	35386085	CAAAAAAAAAAAAA/CAAAAAAAAAA	TTGTTTCAAAGCTCCA GCAA	CATCGACCAAAGGAG TTTGA	59.6	505	INTERGENIC	--	--	--
Ca7_P1_35389419	Ca7	35389419	TAAAAA/TAAAAA	TTCGGTTCTTGCTGCT CTCT	GCCGCGACCATTAAAT CTAA	60.0	796	INTERGENIC	--	--	--
Ca7_P1_3540216	Ca7	3540216	GTTTTT/GTTTTTTT	TCAACAATGAAGCAAC ACATCA	CATTGCGCAAGAGAAT ACGA	60.2	634	INTERGENIC	--	--	--
Ca7_P1_35424480	Ca7	35424480	ATTTTTTT/ATTTTTTTT	ATGAATTTGGCGTGT GGTT	GTGACCGAAGTGTGAGC CAAT	60.2	369	INTERGENIC	--	--	--
Ca7_P1_35428023	Ca7	35428023	TTTATTATTATTATTATTATTATT/T TTATTATTATTATTATTATTATT	CAAGAGCAGATCCCG AGAC	AACCGGACAATAACTG ACGC	60.0	648	INTERGENIC	--	--	--
Ca7_P1_35442260	Ca7	35442260	AG/A	TATGCTGTCCACCCAT CAAA	CAAGCGCATGCATTTT CTAA	59.9	628	INTERGENIC	--	--	--
Ca7_P1_35481552	Ca7	35481552	TCTCCA/TCTCCACCCCTCCA	AGGGCCATCTGTCTAT GGTG	GTGTAGGCAGTGAG GTGGT	60.0	570	DRR	Ca_17756	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_3550848	Ca7	3550848	TTTTTTTTTTCT/TT	TCTTGTTCACATTTT ACACA	AAACTTGATCGACAGT TGGTCTC	59.1	258	INTERGENIC	--	--	--
Ca7_P1_3552289	Ca7	3552289	TAAA/TAAAA	CCCTGCTTCAATTTAT CTCTCA	TGTTTCGTTGGCACAGA TGTT	59.7	586	INTERGENIC	--	--	--
Ca7_P1_3553337	Ca7	3553337	TAA/TAAA	CGATGTGACTTTGTTT ATGTTTTTG	TCTCCAGAAAACGCCA GAGT	59.9	799	INTERGENIC	--	--	--
Ca7_P1_35535446	Ca7	35535446	CTTTGTTTTGTTTTGTTTTGT/CTTT GTTTTGTTTTGTTTTGTTTTGT	CAGGCATGTAGAGCAT TGGA	AGTTTGGCTCGTGATG GTTT	59.8	528	DRR	Ca_17760	--	--
Ca7_P1_35669356	Ca7	35669356	TAAAAAAAAAAAA/TAAAAAAAAA	TGAAAAGAGCCCTACA AAGCA	ACCGCTCTCTTGCACA TTCT	60.0	641	INTERGENIC	--	--	--
Ca7_P1_3567820	Ca7	3567820	AATATATATAT/AATATATAT	CGCGCTAACACATAA AGCA	TGATGATGTGACGTGC AATG	60.0	448	DRR	Ca_03112	U	MYB
Ca7_P1_35684957	Ca7	35684957	ATTTTT/ATTTTT	CCCCCTCTTAGGACCA GTGT	TATCGCACTCCGACAA CAAA	60.4	592	DRR	Ca_17775	O	ERF
Ca7_P1_357521	Ca7	357521	CTTT/CTTTT	TATTGGTTCCTTATGG GGCA	AGCTCTGGAGACCTCC TTCC	60.1	581	INTERGENIC	--	--	--
Ca7_P1_35786413	Ca7	35786413	TTATTAATATTA/TTATTA	GGGAAACCCACCTTTT GATT	GGAGGGGTGTAATTG GAAGA	60.0	679	INTERGENIC	--	--	--
Ca7_P1_35787388	Ca7	35787388	A/AG	CCTTCCAATGTAGCTG ATGTTTT	TGGACGCAAAATAGATG CAAA	59.6	540	INTERGENIC	--	--	--
Ca7_P1_35794267	Ca7	35794267	CTTT/CTTT	ATGTAGACGATTGCTT CCCG	GCAACAACTTTGCAC TCCA	60.1	700	INTERGENIC	--	--	--
Ca7_P1_3582587	Ca7	3582587	TAAA/TAAAA	AACTGGTTGCTAAGCT CCGA	GAATGGGTTGGTGTG TTCC	60.0	542	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_3582926	Ca7	3582926	A/AC	GGAACAACACCAACC ATTG	CCTCAAGTCGCGTAT CATT	60.1	163	INTERGENIC	--	--	--
Ca7_P1_35845872	Ca7	35845872	TAAAAAAAAA/TAAAAAAAAA	GCCGGTTGTTGTATGT TGTG	TGCTTAATTCACACTC CTCTCG	59.9	537	INTERGENIC	--	--	--
Ca7_P1_35861781	Ca7	35861781	TTATATATATATATATATAT/TTATAT ATATATATATATATATATAT	AAATGATGTTTTTGCC CTCG	CTCTAGAGGATTCATC GCGG	59.9	497	INTERGENIC	--	--	--
Ca7_P1_35861827	Ca7	35861827	ATTTTTTTTT/ATTTTTTTTT	AAATGATGTTTTTGCC CTCG	CTCTAGAGGATTCATC GCGG	59.9	497	INTERGENIC	--	--	--
Ca7_P1_35872167	Ca7	35872167	TTACTACTACTACTACTA/TTACTA CTACTACTACTA	GTTGGCCTTTTTCTGG TTCA	GATCGGAGGCATAC AAGAA	60.1	382	DRR	Ca_17790	J	--
Ca7_P1_3589321	Ca7	3589321	AAATAATAATAATAATAATA/AA AAATAATAATAATAATAATA	ATGGTCGCTAATGTGA AGGC	GGAGCGGCAAAATTA TGAA	60.1	484	DRR	Ca_03111	--	NF-YA
Ca7_P1_35903401	Ca7	35903401	AAATAATAATAATAATAATA/AA TAATAATAATAATAATAATA	GTTCTCCAACCTCAG CTTC	CATGCGAAGCAGAAGA GGAT	59.9	214	INTERGENIC	--	--	--
Ca7_P1_35921881	Ca7	35921881	CTTTTTTTTT/CTTTTTTTTT	TGCAATAAGATGAAA ACACCAA	GCATTGGAGCTGAAA GGAG	59.5	332	INTRON	Ca_17797	A	--
Ca7_P1_35933158	Ca7	35933158	T/TG	TGAGACCCGTCACAC AATA	TTTGATTCTTTTTTCG GTCG	60.0	526	INTRON	Ca_17798	T	M-type
Ca7_P1_3594126	Ca7	3594126	GTTTTTTT/GTTTTTTTTT	ATTGCGGCTATACCA GATGC	AGAAATGGAGCAACAG GACT	60.1	261	DRR	Ca_03109	--	NAC
Ca7_P1_3598638	Ca7	3598638	CTATAGTCATT/CTATAGTCATTATAG TCATT	CGCAAAATCTTCACAC CCTT	TGTGGTTAGGCTAGCA GGTG	60.1	476	DRR	Ca_03108	--	NAC
Ca7_P1_3600073	Ca7	3600073	C/CATA	GCTTTTCTGGTCCTGC TTTG	GGTGTCTGGTCTTTGA CCGT	60.0	424	INTRON	Ca_03108	--	NAC

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_36011177	Ca7	36011177	CTTTTTTTTTTTTT/CTTTTTTTTTTT	GGACTAGTGGTTGCGA GGTC	TTTGCCTTACGAATT GATGA	59.7	373	INTERGENIC	--	--	--
Ca7_P1_3602053	Ca7	3602053	CTTTTT/CTTTT	GGGGAAAATATCCAAA GGGA	GAAGGGCTCCAAAGT CACTG	60.0	547	INTERGENIC	--	--	--
Ca7_P1_3602865	Ca7	3602865	CT/CTTATGTATCTAT	TTTCGTCGGGATTGAT TTTA	GTGTCGTGTACCCACC GACT	60.3	504	DRR	Ca_03107	--	NAC
Ca7_P1_3608219	Ca7	3608219	GT/GTCCCAATTT	TTTTCGTGGGATCAAA TTCC	ATTACGAACCTGCGA TACC	59.7	495	INTERGENIC	--	--	--
Ca7_P1_36117059	Ca7	36117059	CTTTA/CTTTCTTTATTTTA	TGGATTGGGCTTTCCA ATAA	TGCCTTAACGTACCCA AACA	60.3	435	DRR	Ca_13721	G	Trihelix
Ca7_P1_3613493	Ca7	3613493	CTTT/CTTTT	GCAAGTGCTCCCATTT CATT	ACTTGCAATGCAAGA GTCC	60.1	297	INTERGENIC	--	--	--
Ca7_P1_3616402	Ca7	3616402	CAA/CAAA	AATGGGCCAATTTGAC TTTG	TGCGGAAGGTACAAGT GTTCT	59.8	185	INTERGENIC	--	--	--
Ca7_P1_3617634	Ca7	3617634	TAAA/TAA	CCGCTACTTTTCGAA CACTTC	TCAAACCAACCCCAAA AATA	60.3	626	INTERGENIC	--	--	--
Ca7_P1_3618811	Ca7	3618811	TAA/TA	TTTCTGTTGCATGCTTT CCA	AGCAGTCCGTGAACGT TAGA	60.4	100	INTERGENIC	--	--	--
Ca7_P1_3620390	Ca7	3620390	T/TC	TGGGCATTAGCATCAT CTCA	ACCTGCCAACCAACAAC AAAT	60.2	788	INTERGENIC	--	--	--
Ca7_P1_3621838	Ca7	3621838	GAAAAAA/GAAAAAA	TTCTCGAGTCCCCTAA CTTGATT	TTTGGTGAGTGAGGTT AAGAAGC	59.7	839	INTERGENIC	--	--	--
Ca7_P1_3622034	Ca7	3622034	TAAAAAA/TAAAAA	TTTTCATCAAATTCACA ATTCAAA	TGCAATGGTGACTAAA GCAA	58.6	810	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_3622304	Ca7	3622304	CAT/C	GCTTCTTAACCTCACT CACCAAA	TGCAATGGTGACTAAA GCAA	59.8	167	INTERGENIC	--	--	--
Ca7_P1_36244087	Ca7	36244087	GTCTCTCTCTCTCTCTCTCTCTCT/ GTCTCTCTCTCTCTCTCTCTCTCTCTC T	TCCATGAAACCAAAGC ATGA	TGAATTTTCGGCAATC ACAA	60.0	681	INTERGENIC	--	--	--
Ca7_P1_3629960	Ca7	3629960	TTTATTA/TTTA	ATTGCCATGTGGGTCA GAGT	TGGCAACATAATGTCC ATGC	60.4	390	INTRON	Ca_03106	E	--
Ca7_P1_3631952	Ca7	3631952	TTTT/TTTTATTT	GATAACGGCATGGAGA AGGA	TAACAACGTCCACCTG CAAA	60.0	512	INTRON	Ca_03106	E	--
Ca7_P1_3632331	Ca7	3632331	GT/GTT	TTTGCAGGTGGACGTT GTTA	TACTTCGATCGATTC GTCC	60.1	840	INTRON	Ca_03106	E	--
Ca7_P1_3632961	Ca7	3632961	CTACATGTTACATACAT/CTACAT	GGACGAATCGATCGGA AGTA	TTGGCAACACAATGAG TCGT	60.0	608	INTRON	Ca_03106	E	--
Ca7_P1_36353585	Ca7	36353585	TTAATTAATAAT/TTAATTAATAATT AAATAAT	CACCGATGTGAAATCT CTATTTTT	GCGTTTCAGCCAATT GTGT	58.6	996	INTERGENIC	--	--	--
Ca7_P1_36358822	Ca7	36358822	AAGAGAGAGAGAGAGAGAGA/AAG AGAGAGAGAGAGAGAGA	AAAACCCCAACTCAAC CGTA	TCGCGCTTTCTTTCTC TCTC	59.3	587	INTERGENIC	--	--	--
Ca7_P1_36429160	Ca7	36429160	ATTTTT/ATTTTTTT	AGGCCACCACACAGGT TTAG	TTTATCTGGGGACTT CGTG	60.0	738	INTERGENIC	--	--	--
Ca7_P1_36439529	Ca7	36439529	ATTTTTTT/ATTTTTTTT	CGCTTTTCCGTCCTTA GTGC	TCATTTCGATAATTCA CACAAA	60.0	628	INTERGENIC	--	--	--
Ca7_P1_36475569	Ca7	36475569	GA/GAA	GAAATGTGAGTTTAA TTCCCA	TGGCCTATGTGCTTCT ATTGG	59.3	235	INTERGENIC	--	--	--
Ca7_P1_36476587	Ca7	36476587	CATATATATATATATATATATAT/CA TATATATATATATATATATATATATA TAT	AAAATGGCGTGGTAA CAAA	TCGGTTCACTGAAATG GTGA	60.2	646	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_3648110	Ca7	3648110	TAAAA/TAAAAACCAGACAAAA	TCAGGCCATAGAGCTG TTCA	TACGTGCAATTTGGGT GAAA	59.5	733	DRR	Ca_03103	U	LBD
Ca7_P1_36505123	Ca7	36505123	TTATATATATATATATAT/TTATATAT ATATATATATATAT	TCCAAACCATTATGAC CCAA	TTCAAAATAATTGTCTG CATTTCA	60.0	521	INTRON	Ca_13742	--	--
Ca7_P1_36636517	Ca7	36636517	AC/A	ACATAAGCCAAACAAC CCCA	TGGCAACTTTGCTCGT CATA	60.2	722	INTERGENIC	--	--	--
Ca7_P1_36667779	Ca7	36667779	AATATATATATATATATATAT/AATA TATATATATATATATATAT	TGCATCAAAACAACCTA CCCA	TGTTTACAAGAGGTTT GTGGC	59.1	586	INTERGENIC	--	--	--
Ca7_P1_3670558	Ca7	3670558	A/AT	AAGGCAATAGGTGATG GTGG	TCACTATTCACACGG GAAG	59.8	717	DRR	Ca_03102	TU	--
Ca7_P1_3672046	Ca7	3672046	AT/A	ACATAGGTCGGCATA TCGG	TACAGTTTCAGCCTGG GTCC	60.0	330	DRR	Ca_03102	TU	--
Ca7_P1_3674765	Ca7	3674765	ATT/ATTT	AGCTCACATCCCATT AACC	CGATCCTGTGGGAGA ACATT	59.9	654	INTRON	Ca_03102	TU	--
Ca7_P1_36756151	Ca7	36756151	TTATATATATATATATATAT/TTATAT ATATATATATATAT	CCAAAATCATGTGTTC CCGT	CGCACCAAGACGATGA AATA	60.6	355	INTERGENIC	--	--	--
Ca7_P1_3676987	Ca7	3676987	ACTC/ACTCTC	TTGAGTGGCATTTCAG CAAG	TCCTTCTCCAAAATCG AAGG	60.0	492	INTERGENIC	--	--	--
Ca7_P1_36803710	Ca7	36803710	TTT/TTTTATT	AAGTGATCATTTGATG CACAGG	TGACATGTGCAAAATTG AAAGG	60.0	720	INTERGENIC	--	--	--
Ca7_P1_3682890	Ca7	3682890	TGGGG/TGGG	ATTGAGGCTACTTGAG GGCA	GAAGCCAAAAAGTCTG CATAGAA	59.8	532	DRR	Ca_03101	--	--
Ca7_P1_3683696	Ca7	3683696	TA/T	CCATGAAATCACCTTA AATGACA	CCGACAAGGCGACAA GTAAT	58.9	451	DRR	Ca_03101	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_36837688	Ca7	36837688	GAAAAAAAAA/GAAAAAAAAA	AAATTCAGACGCTCA ACGG	AATTGGCCAACACAAC ATGC	60.2	568	INTERGENIC	--	--	--
Ca7_P1_36862260	Ca7	36862260	AATGAAATGACAT/AATGAAATGACAT GAAATGACAT	CTTTGGTGCCTTGAC GTGT	TGGTGATTCAAGATGG ATAGCA	61.1	756	DRR	Ca_13771	--	--
Ca7_P1_36871436	Ca7	36871436	AAGAGAGAGAGAGAGAGAGAGA/A AGAGAGAGAGAGAGAGAGAGAGA	TGAGCTGAAACAACAT GCGT	TGTCGGGAACCATTTCTTA	60.5	893	DRR	Ca_13774	R	--
Ca7_P1_3687674	Ca7	3687674	GTTTTTTT/GTTTTTTTT	GTCACCACACACGCCA CTTA	CGAAAAATTTGTTTGA ATACATGG	60.6	550	INTERGENIC	--	--	--
Ca7_P1_36884880	Ca7	36884880	TTTCTTCTTCTTCTTCTTCTTCTCT TCCTCTTC	TTGGGGTAAGTTGGCT CTTG	TTCTACACGTTTGACG CAGG	60.1	570	DRR	Ca_13775	I	--
Ca7_P1_3689798	Ca7	3689798	TAGAGAG/TAGAG	ATGGTAGGGGGAAGA GGAGT	CTTTTCGTTTGGCCAA TGTT	58.9	381	DRR	Ca_03100	S	--
Ca7_P1_3690863	Ca7	3690863	ATTT/ATT	CTTTGACTTGGGCATT TGGT	TGATGCATTCTTTTT GTGC	60.0	117	INTRON	Ca_03100	S	--
Ca7_P1_3691358	Ca7	3691358	TAAA/TAA	GCACAAAAAGGAATGC ATCA	AAGAAGGATCGGACG GAGAT	59.7	963	INTRON	Ca_03100	S	--
Ca7_P1_36935859	Ca7	36935859	AT/ATATT	ACCGATCAACTCATGG AACC	AAGGTAATGGCTCCTT CCAAA	59.8	412	INTERGENIC	--	--	--
Ca7_P1_36963648	Ca7	36963648	CATATATATATATATATATATAT/CA TATATATATATATATATATATATAT	TAAACCAATTGGGTGA AGCC	GCTGATGACTTCCTTC CGTC	59.8	545	INTERGENIC	--	--	--
Ca7_P1_37005647	Ca7	37005647	TA/TAA	GCATATCCAAGATGCG ACCT	GCAAAAGCTGAAAAAG TGGC	60.1	550	INTERGENIC	--	--	--
Ca7_P1_37036978	Ca7	37036978	TTATATATATATATATAT/TTATATATAT ATATAT	TGCGAGGTTTAAATTT GGTG	TTATTTCGTACACGTG GGCA	58.7	473	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_3705330	Ca7	3705330	AATATATATATATA/AATATATATATATATA	CTTTGCAAAATGGCGAC TTCT	CTTTCGTGGAGCATGA GACA	60.4	218	INTERGENIC	--	--	--
Ca7_P1_3709807	Ca7	3709807	TATTAT/TATTATAATTAT	CAATTTCTCTATTTG GCAGG	TTTTCCAATTGCTTAT CGC	60.0	580	INTERGENIC	--	--	--
Ca7_P1_37126196	Ca7	37126196	TTGA/T	TTGCCGTCTGGAAGAG AGTT	TAGACCAGGTGTGCG AAATG	60.0	519	INTRON	Ca_13794	E	--
Ca7_P1_37154177	Ca7	37154177	TTATATATATATATA/TTATATATATATA TATA	TGTCATCAAAATGGGT CACAA	TCAAAGGTTTTCTGCC ATCC	59.8	693	DRR	Ca_13797	--	--
Ca7_P1_37169083	Ca7	37169083	AAATAATAATAATAATAATAATAA/ AAATAATAATAATAATAATAATAA AA	GCTTATCGCAACATGG GAAT	TTGACCTTGTGTGCT CCAG	59.9	509	INTERGENIC	--	--	--
Ca7_P1_37191304	Ca7	37191304	TAAAAAAAAA/TAAAAAAAAA	ATTAATTGCCGCTTTA GGG	TTGTGTCGTGCATAT ATTATCA	60.3	942	INTERGENIC	--	--	--
Ca7_P1_37205527	Ca7	37205527	A/AAT	TTGAAATAATTGCGTT GCCA	TGTGCCGATGATGATG TTCT	60.1	666	INTERGENIC	--	--	--
Ca7_P1_37282057	Ca7	37282057	GAATAATAATAAAT/GAATAATAAT AAAAATAATAATAAAT	GCGAGGGAATTATAGC CACA	TCGTGTAGCCAATAGC TTTGT	60.1	374	INTERGENIC	--	--	--
Ca7_P1_37374330	Ca7	37374330	TCGTGGCTAAT/TCGTGGCTAATTAAC CGTGGCTAAT	TTGAAACGGTGGTGAA ACAA	TTGGTTTTTCATTTCC CTCG	60.0	522	INTERGENIC	--	--	--
Ca7_P1_37374418	Ca7	37374418	GATAATAATAATA/GATAATAATAA TA	TTGAAACGGTGGTGAA ACAA	TTGGTTTTTCATTTCC CTCG	60.0	522	INTERGENIC	--	--	--
Ca7_P1_37491114	Ca7	37491114	TAAAAA/TAAAAA	CAATCTAGCCATCTTC CGCT	ATGGATTGGATGTAGC TGCC	59.4	453	INTERGENIC	--	--	--
Ca7_P1_3750531	Ca7	3750531	ATCATCTTCATCTTC/ATCATCTTCATC TTCATCTTC	TTGCCTTTGCTTTTGCT TTT	TCAACCAATGTGGTCC TCAA	60.0	474	CDS (large-effect mutations)	Ca_03093	--	ARF

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_37540726	Ca7	37540726	A/AG	CAATGGTGCATGCTGA TTTT	GCCCCACTGACATTTT GACT	59.5	482	INTERGENIC	--	--	--
Ca7_P1_37540918	Ca7	37540918	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA	CAATGGTGCATGCTGA TTTT	GACCATGTGAGCAAAG AGCA	59.5	756	INTERGENIC	--	--	--
Ca7_P1_37562399	Ca7	37562399	TAAAAAAAAA/TAAAAAAAAA	CGATTTTACGTGTGTA TTCGC	TCGTTTTGGTGTGGT TTCA	58.3	851	INTERGENIC	--	--	--
Ca7_P1_37568106	Ca7	37568106	CT/C	TGTGTGCAAGTGTGC TTGA	CCAAGTCTCATCTGGA AGCC	60.1	259	INTERGENIC	--	--	--
Ca7_P1_37569442	Ca7	37569442	TCTGATGCTGATGCTG/TCTGATGCT G	CCAACTGAGAAGCTTT TGCC	GATGCCTCCAACATGT TCCT	60.0	698	INTERGENIC	--	--	--
Ca7_P1_37585391	Ca7	37585391	TTATATATATATATATATATAT/TTAT ATATATATATATATAT	GAAAGGAATTGGAGGC ATGA	AAAAATGGCAAGGCCT ACCT	60.0	443	INTERGENIC	--	--	--
Ca7_P1_37585438	Ca7	37585438	TTATATATATATATATATATA/TTATA TATATATATA	GAAAGGAATTGGAGGC ATGA	AAAAATGGCAAGGCCT ACCT	60.0	443	INTERGENIC	--	--	--
Ca7_P1_37585595	Ca7	37585595	TA/T	AGGTAGGCCTTGCCAT TTTT	CGCACTTGAAAACTC TAATTGC	60.0	357	INTERGENIC	--	--	--
Ca7_P1_37586131	Ca7	37586131	CATTTGAC/CATTTGACTATTTGAC	GCAATTAGAGTTTTTCA AGTGCG	ACAATCCTCAGCATT GGGG	60.3	746	INTERGENIC	--	--	--
Ca7_P1_37586910	Ca7	37586910	TAAAAAAAAA/TAAAAAAAAA	TCATTGGCCAAAACCT GTGA	CACCGCCATCAAGCTA AAGT	60.1	260	INTERGENIC	--	--	--
Ca7_P1_37588429	Ca7	37588429	CAAA/CAAAAA	CATGGCTCTGATGGCA GATA	TCAAAGCCTATGCCAC GTTT	59.8	405	INTERGENIC	--	--	--
Ca7_P1_37593690	Ca7	37593690	ATTTTTTTT/ATTTTTTT	TATGCATGCGGACAAG AGTC	GTGCTCACAACTTGC CAAA	59.8	595	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/P1)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_37595168	Ca7	37595168	ATGTGTGTGTGTGTGTGT/ATGTG TGTGTGTGTGT	CGTTTTGCCTCCTTC AGTC	TGGAACCCGGTAGATA CTTTG	59.9	805	INTERGENIC	--	--	--
Ca7_P1_3760732	Ca7	3760732	ATGGAAGTGAAACGTGGAAG/ATGG AAGTGGAAACGTGGAAGTGGAACG TGGAAG	GGCATGCGATAGTGAT GAGA	CTACGCCTTTGTCAAC CCAT	59.8	310	INTERGENIC	--	--	--
Ca7_P1_37618164	Ca7	37618164	TTTATTATTATTATTATTAT/TTTAT TATTATTATTATTAT	CCCAAGCGGTACTGAC ATTT	GAATAGGTCAGGTCAG GCCA	60.0	744	INTERGENIC	--	--	--
Ca7_P1_37622031	Ca7	37622031	CTACAAA/CTACAAAATGACAAACT TACAAA	TACCTCAAACGTCCCC AAAG	GCCGACATAGACCTTG CATT	60.1	862	INTERGENIC	--	--	--
Ca7_P1_37622315	Ca7	37622315	TAAAAAAAA/TAAAAAAAAA	TACCCACGGTAGCTC TTTG	TTCGATCATCACCTC AACA	60.1	722	INTERGENIC	--	--	--
Ca7_P1_37654313	Ca7	37654313	CATATATATATATATATATATA/CAT ATATATATATATATATATATA	AATCTTAGAAGGAAGC GGGC	TGAATTTGATATTGT GGAAATGAA	59.8	561	INTERGENIC	--	--	--
Ca7_P1_37711486	Ca7	37711486	TG/T	TACCTGTGGATGGGA ATGT	TTGTCGATCCGAAATG TGAA	60.1	870	DRR	Ca_22800	--	--
Ca7_P1_37752611	Ca7	37752611	ATTTTTTT/ATTTTTTTT	TCGACAAAATGCAATG TCGTA	CTGGTTCCCTTATGA CCAA	60.1	860	INTERGENIC	--	--	--
Ca7_P1_37758138	Ca7	37758138	TTATATATATATATATATATATATAT ATATATAT/TTATATATATATATATAT ATATATATATATATATATATATATAT	TTGGGCAATACCAAT TCTC	TCACTCACCCAGATCA CTATGC	59.8	595	INTERGENIC	--	--	--
Ca7_P1_37767342	Ca7	37767342	ATATTATTATTATT/ATATTATTATTAT ATT	GGCTAGACGAGTTCCA CGAA	TTTCACTCGACCCAAT AGGC	60.4	722	INTERGENIC	--	--	--
Ca7_P1_3785579	Ca7	3785579	TAAAAA/TAAAA	CCGGTTCAACCTCCGT ACTA	ATTCTTGTGCGCTTTC GTTT	60.0	302	DRR	Ca_03086	--	--
Ca7_P1_37920523	Ca7	37920523	AATATATATATATATATA/AATATAT ATATATATATA	GTCAATTGAGTTGCGA CGAA	CCACACAATGCACAAG TTCC	59.8	393	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_37928727	Ca7	37928727	GATATATATATATATATATATATA /GATATATATATATATATATATA	ATTGTGTCGCGAGAA AATC	GTGTGTGTTCCACTGC CATC	59.9	329	INTERGENIC	--	--	--
Ca7_P1_37940117	Ca7	37940117	CTCTTTCTTTCTTTCTTTCT/CTC TTTCTTTCTTTCTTTCTTTCTTTCT T	TTCTCAATCCCAACC AAAA	TCATCTTCTCAATGG GACC	60.3	412	INTERGENIC	--	--	--
Ca7_P1_37951596	Ca7	37951596	AT/ATATT	TCAAAGACTAAAAGCG GGAGA	TTCACTTCTCTTTATT GCCA	59.1	272	INTERGENIC	--	--	--
Ca7_P1_37964071	Ca7	37964071	T/TTCAA	CCACCATGCAAGGAGT TTTT	GCACGTTGTAATGAAC GGTG	60.0	470	DRR	Ca_16386	--	HD-ZIP
Ca7_P1_38036867	Ca7	38036867	TTTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTAT/TTT ATTATTATTATTATTATTATTATTA TTATTATTATTATTAT	GGAACACCTCGTTCAA GAGC	TTTCCAGCAGCAATGG TATG	59.9	570	INTRON	Ca_16391	--	NF-YB
Ca7_P1_38073484	Ca7	38073484	GATAATAATAATAATAATAATAAT AATAATAATA/GATAATAATAATAAA TAATAATAATAATAATAATAATA	TGGAGAGAAACAAAT CGGG	TCTGTCTCGCTCACAT ACCG	60.0	424	INTERGENIC	--	--	--
Ca7_P1_38074754	Ca7	38074754	TTTATTATTATTATTATTATTATTA TTATT/TTTATTATTATTATTATTAT TATTATTATTATT	GAGGCAACACAAGAACC GAAA	GTGCACACCTGTTGAC ACCT	60.2	185	INTERGENIC	--	--	--
Ca7_P1_38331525	Ca7	38331525	AAGAGAGAGAG/AAGAGAGAGAGAG	TGTGCAACACCAAAAC CCTA	CACTATCTGCTGCACC CTCC	60.0	174	INTERGENIC	--	--	--
Ca7_P1_38383093	Ca7	38383093	ATTTTT/ATTTTTT	TTTCGACGACGATAAA ACAATG	ATTTTGTGGTGATGT GGCA	60.0	170	DRR	Ca_16412	--	--
Ca7_P1_38418896	Ca7	38418896	A/AT	TTTCATGTTGTTTTCTG CAAATG	TGGTGGAAACCACTCA ATCT	60.0	664	INTERGENIC	--	--	--
Ca7_P1_38449321	Ca7	38449321	ATA/ATATAATTA	GCGACTTTCACGTGG TTTT	CCGATTTCCTCAAAGGT TTTT	60.2	501	INTERGENIC	--	--	--
Ca7_P1_38457330	Ca7	38457330	CATATATATATA/CATATATATAT ATA	TCATGATGAGGCAATT TGGA	TTGGTTTATTTGGTT GGGA	60.0	385	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_38476440	Ca7	38476440	CTTTTTTTTT/CTTTTTTTTT	ATGGTTTCAAAATGG TGCC	GGTCGCCTATAATAGC GTTTT	59.7	470	INTERGENIC	--	--	--
Ca7_P1_38539687	Ca7	38539687	AATATATATATATATATATATATA /AATATATATATATATATATATATA ATA	TGGCCATAAAATATGC CTGA	AGACCGAGTTATAGTT GTGTTG	59.0	635	INTERGENIC	--	--	--
Ca7_P1_38556005	Ca7	38556005	ATT/ATTT	TGTTGTGACATCGGGA GTCT	CCACCTAACCCTCAT AAATATCG	59.1	768	INTERGENIC	--	--	--
Ca7_P1_38579414	Ca7	38579414	TTATATATATATATATATATATAT ATATATATATAT/TTATATATATAT ATATATATATATATATATATATAT ATATAT	AGCCATGACTTCATAG TGCATC	CATTAGATGAAAGACA AAGTCCCA	59.2	859	INTERGENIC	--	--	--
Ca7_P1_38581811	Ca7	38581811	GTATATATATATATATATATATAT AT/GTATATATATATATATATATA TATATATAT	AAAAATTGGGGAAAT GCAA	TGAATTTGGGAACTTT TTGGTT	59.3	474	INTERGENIC	--	--	--
Ca7_P1_38613431	Ca7	38613431	CA/CATTAAGAA	TTGAGTGGGCTCTATA CCCG	CAAACTGCCGCTACT GGAT	60.1	796	INTERGENIC	--	--	--
Ca7_P1_38626397	Ca7	38626397	GATAATAATAATAATAATAAAT AATAATAATAATA/GATAATAATAA TAATAATAATAATAATAATAAAT AATA	CCAAGCCCAATAAAAC CCTT	GGACTCACTCCCCAAA TTGA	60.2	131	INTERGENIC	--	--	--
Ca7_P1_38669981	Ca7	38669981	TTTTTTTATTTATTTAT/TTTTTTT TTTATTTATTTAT	CCTGCCGTTTATTTT GTTC	GCGATCGAATGGCAAT ATCT	59.5	657	INTERGENIC	--	--	--
Ca7_P1_38708636	Ca7	38708636	GATATATATATATAT/GATATATATA TATAT	AAATGGGTTTCCTACT CGGG	TAGAGAGCCAGCTGC ACGTA	60.2	491	INTERGENIC	--	--	--
Ca7_P1_38743655	Ca7	38743655	CTATTTATTTATTTATTTATTTAT TT/CTATTTATTTATTTATTTATTT ATTTATTTATTT	CTTAGGTTTGCACCA GCC	CTCAATCGTGGGTGAC CTTT	59.9	932	INTERGENIC	--	--	--
Ca7_P1_38744253	Ca7	38744253	TAAAA/TAAA	AAAGTCCACCCACGAT TGAG	AAGATCGGCCACAA GAAGA	60.0	448	INTERGENIC	--	--	--
Ca7_P1_38744999	Ca7	38744999	TTTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTAT TATTATTATT/TTTATTATTATTATT ATTATTATTATTATTATTATTATTA TTATTATTATTATT	TCTTCTGTGGCCGAC TCTT	TTGCAAAACCAAAAG GGAA	60.0	765	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_38752050	Ca7	38752050	TC/T	TGGGCTAATGGGCAT ATAA	CGAAAACCGAATCATG ACCT	60.1	429	INTRON	Ca_16426	--	SBP
Ca7_P1_38754236	Ca7	38754236	CATATATATATATATATATAT/CATA TATATATATATATATATATAT	TTACGTGTTTGTGCTG AGCC	TTTCCAAAGCCAAAAT CAGG	59.9	869	INTRON	Ca_16426	--	SBP
Ca7_P1_38899167	Ca7	38899167	AC/A	TCTCGCGATTGCCTT ACTT	CGTTGAAGGATGCCAA AGAT	60.0	169	INTRON	Ca_16436	--	--
Ca7_P1_38991294	Ca7	38991294	ACC/AC	CCGATGTGTGTGGCTT CTTA	CCTCTCTGTGTGACG GTGT	59.7	456	INTERGENIC	--	--	--
Ca7_P1_38993557	Ca7	38993557	CCCTCAAATTC/CCCTCAAATTCCTC AAATTCC	CCTTCAAGGTTTCAAA GGCA	GCGCACATGAACCTA AAAT	60.2	599	INTERGENIC	--	--	--
Ca7_P1_3905558	Ca7	3905558	TG/T	ACTCTGTGTTTGAGGT GGGG	TGAGGGATGAAGAGG ACAAAA	60.0	468	INTERGENIC	--	--	--
Ca7_P1_39115994	Ca7	39115994	TC/T	GCATGCTGCAAGGGAT AGTT	TCATGATGGGCAAAAG CATA	60.2	709	INTERGENIC	--	--	--
Ca7_P1_39149719	Ca7	39149719	AT/ATT	GCACTAAGTCAGGGGC TCAG	TGGAACCCATTACAC AAGA	60.0	577	INTERGENIC	--	--	--
Ca7_P1_39282936	Ca7	39282936	GATATATATATATATATATATAT/GA TATATATATATATATATATATATATA TATAT	TTCAATGTGAGCAAG TCGAT	TCCCCCAAATTCATA TCCA	58.4	391	INTERGENIC	--	--	--
Ca7_P1_39318681	Ca7	39318681	ATGTGTGTGTGTGTGTGT/ATGTG TGTGTGTGTGTGTGTGT	TGTGGGAGTGCTCAAC TTGT	TCTTTGCTCACACAC AACCA	59.3	175	INTERGENIC	--	--	--
Ca7_P1_3933934	Ca7	3933934	TAGAAGAAGAAGAAGAAGAAGAA /TAGAAGAAGAAGAAGAA	ACGCCATGGTTTTAAA TTGC	AATGGGTTTGGCAGAG TCAC	59.8	560	INTERGENIC	--	--	--
Ca7_P1_3934957	Ca7	3934957	AATATATATATATATATATATAT/AA TATATATATATATATATATATATAT	TTCCATATTGGGTGC CATT	TGTGCATCTTTTCCA ATGC	60.0	547	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_39409758	Ca7	39409758	TTATATATATATATA/TTATATATATA TATATATA	TCCAACTCAAACCA ATTCAA	GAAACAAATCCCCT CCAT	59.5	485	INTERGENIC	--	--	--
Ca7_P1_39443504	Ca7	39443504	C/CT	TCCAACATGCATTCA CCAC	TTTTGTTTCATTCG AGCC	60.3	447	INTERGENIC	--	--	--
Ca7_P1_39523876	Ca7	39523876	TAAAAAAAAAAAA/TAAAAAAAAAAAA	CCATCAATTGAATTCT CTCC	GTTAAGGGATCGCG ATGTA	58.4	578	INTERGENIC	--	--	--
Ca7_P1_39525063	Ca7	39525063	ATTTTTTTTT/ATTTTTTTTT	AACGACCAACTGGGA AAAA	GGAGTGGGTCACCGA GAATA	59.4	520	INTERGENIC	--	--	--
Ca7_P1_39568993	Ca7	39568993	TA/TAA	AGGCGGATAAGAGAAA ACCG	GCACTAATTACATTG ATGCCCT	60.6	717	INTERGENIC	--	--	--
Ca7_P1_39708557	Ca7	39708557	CTTTTT/CTTTTT	AGCCTGACATATGGCC TGTC	AACAGGTCAGACCGAC CAAC	60.1	543	INTERGENIC	--	--	--
Ca7_P1_3976290	Ca7	3976290	ATTTTTTT/ATTTTTTT	AAAAAGTTGAGGTGG TAAAAAT	TTGCAAGCTATTGTT CACG	57.3	730	INTERGENIC	--	--	--
Ca7_P1_39799960	Ca7	39799960	ATTTTTTTTT/ATTTTTTTTT	TGGTATGAGATCCAT CGATCA	TGGAATGCTTACTCCT ATCCATC	60.3	710	INTERGENIC	--	--	--
Ca7_P1_39814197	Ca7	39814197	A/AT	ATCGTCAATTCACACC GACA	GGTAAGGGCTCCTTCC AAAC	60.0	388	INTERGENIC	--	--	--
Ca7_P1_39830592	Ca7	39830592	AGGGGGG/AGGGGGG	CCTGCTCAAAGCACAC GTTA	TAATCATCCTCGGGT GAGG	60.1	636	DRR	Ca_25100	--	--
Ca7_P1_39852561	Ca7	39852561	AAAAATGTTAAAA/AAAAATGTTAAAA GTAAAA	TTAATCCAACCATCACA CAAAA	CAAGCGCAGGTGTAT GAAAA	57.9	749	INTERGENIC	--	--	--
Ca7_P1_39893968	Ca7	39893968	ATTTTTTT/ATTTTTTT	TCGGATTTTAGTTGT TCTTTTC	GAGACCAAAGGAGCC GTACA	59.2	755	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_39987914	Ca7	39987914	ATTTT/ATTTT	CAAAATATGCACCACT CCCA	CAAGTCTGCCCCACTA AACC	59.4	141	INTERGENIC	--	--	--
Ca7_P1_4001096	Ca7	4001096	CATATATATATATATATATA/CATATAT ATATATATATATATA	AAAATTAAGGGTTGCC CCC	TTCAAAACAGTACGTG CGGA	60.0	922	INTERGENIC	--	--	--
Ca7_P1_40043283	Ca7	40043283	TTATATATATATATATATATATAT/TT ATATATATATATATATATATATATAT	CGACACTGTAGCACCC CTTT	GCAATCAATGCAACAT CTGG	60.2	227	INTERGENIC	--	--	--
Ca7_P1_40086967	Ca7	40086967	A/ATTTGCTACC	GGTGAAACTGGGTGG AAGA	ATACAATTGTGCCTGC TCCC	59.9	880	INTERGENIC	--	--	--
Ca7_P1_4012412	Ca7	4012412	TATAATAAATAAATAAATAAATAAATA AATAATA/TATAATAAATAAATAAATAAT AAATAATAAATAAATAAATAAATA	GCCATAAATCTGCAGC ATGA	GGCGATTGGAAGAAAA TTGA	59.7	426	INTERGENIC	--	--	--
Ca7_P1_40136381	Ca7	40136381	TTTATTATTATTATTATTATTATTATTA TTATTATTATTATTA/TTTATTATTATTA TTATTATTATTATTATTATTA	TTTGAGTAGACCATCA CGTCTT	TGTGTCAAAACACCAA ATAACG	60.0	366	INTERGENIC	--	--	--
Ca7_P1_40147994	Ca7	40147994	TGGTTCAGGTTTCAGGTTTCAGGTTTCAG GTTTCAGGT/TGGTTCAGGTTTCAGGTT CAGGTTTCAGGT	TGATGGGACAAACAAC GCTA	CTGTCTTCAACAACAG CCGA	60.1	794	INTERGENIC	--	--	--
Ca7_P1_40196153	Ca7	40196153	AATATATATATATATATA/AATATATAT ATATATATATATA	TGAATGCCTACATATG GCGA	TTTGACCTTTATGGCG GTTT	60.1	741	INTERGENIC	--	--	--
Ca7_P1_4020520	Ca7	4020520	ATCTCTCTCTCTCTCTCTCTCTCTCTCTC TCTCTCTCTCTC/ATCTCTCTCTCTCTCT CTCTCTCTCTCTCTCTCTCTCTCTCTCTC TC	AAAAGTGGGCACAAGC TGTC	TCATTCCCCTGTTTAT CCAT	60.3	805	INTRON	Ca_03061	U	--
Ca7_P1_40214976	Ca7	40214976	CATTATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTATTA TTATT/CATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTATTAT TATTATTATTATT	ATCGGAGGTGCATAGC AAAC	TGCTTGATCACTAACC TCTCTCT	60.1	587	INTERGENIC	--	--	--
Ca7_P1_40418637	Ca7	40418637	TATAATAATAATAATAAT/TATAATAAT AATAATAATAAT	CGGATTCACAAACGGA CTTT	GCAATTCGATTATGCCG ATCT	60.0	988	INTERGENIC	--	--	--
Ca7_P1_40430153	Ca7	40430153	AAGTAAGTA/AAGTAAGTAGTAAGTA	GTTGGTTCAAAGCAA CCGT	ACAAGGATACGTGCAG GGAC	60.0	493	CDS (FRAME SHIFT)	Ca_20258	--	Trihelix

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_40463593	Ca7	40463593	GATATATATATATATATATATATATATATATATAT/GATATATATATATATATATATATATATATATATATAT	CATGCGAATGTTTGTG TGAA	CGTTTTTCTCCGAACC GATA	59.1	622	INTERGENIC	--	--	--
Ca7_P1_40492429	Ca7	40492429	A/AG	CGATTGGCACATTGAT TTTG	GCCCAATCGACTTTCG TATG	59.9	430	INTERGENIC	--	--	--
Ca7_P1_40519517	Ca7	40519517	ATTTTTTTTT/ATTTTTTTTTT	AAAATCAATCAGAGGG GCAA	CCGCATTATAATTCCG CTGT	59.5	607	INTERGENIC	--	--	--
Ca7_P1_40591240	Ca7	40591240	AAATAATAATAATAATAATAATAAT AATAATAATAATA/AAATAATAATAATA ATAATAATAATAATAATAATAATAAA TAATAATAATA	TTGTTGGAATTGCATA GAATTGA	CACCGACCTCAAATTC AACA	59.5	852	INTERGENIC	--	--	--
Ca7_P1_40602183	Ca7	40602183	CAAAAA/CAAAAAA	TGTGCAGAAAACGAAG AACG	GGGAAAATCCTCTCC TCAG	60.0	881	DRR	Ca_20267	--	--
Ca7_P1_40764757	Ca7	40764757	ATATTATTATTATTATTATTATTAT TATTATTATTATTATTAT/ATATTAT TATTATTATTATTATTATTATTATT ATTATTATTATTATTAT	AGCCGGGCATCAATTT TATT	TGGATTGGATCCGGT TTTA	60.6	282	INTERGENIC	--	--	--
Ca7_P1_40770066	Ca7	40770066	ATTTTTTTTT/ATTTTTTTTT	TGCAAAATCAAACCAC ATCAA	TATTTAGGTGGTCGGT CCCA	60.0	602	INTERGENIC	--	--	--
Ca7_P1_40985025	Ca7	40985025	TAAAA/TAAAAA	GCAACTGCCTTAAAA TGGA	GGAACGTGCGTACATT GTTG	59.2	303	INTERGENIC	--	--	--
Ca7_P1_41008241	Ca7	41008241	CAAAAAAAAAAAAA/CAAAAAAAAAAA	GCCAATCAGGACACAT CTCA	TCAGAACATTCATCG GTGA	59.6	563	INTERGENIC	--	--	--
Ca7_P1_41008809	Ca7	41008809	TTTAA/TTTAATTAA	TAGCGCTACATCGGA GAGT	GTTCAATTATGCGCAAG CATT	60.0	387	INTERGENIC	--	--	--
Ca7_P1_41009960	Ca7	41009960	ATTTTTTTTT/ATTTTTTTTTT	CATGACCTCGGTTTTTC AATAA	CCCTCACATTTTAAAG GCACA	57.6	814	INTERGENIC	--	--	--
Ca7_P1_41010142	Ca7	41010142	CAA/CAAAA	TGCAATGAATGAAAGT ATGCTACC	GAAAAAGCGCTGTAAA TGGC	60.4	815	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_41156979	Ca7	41156979	ATATTATTATTATTATTATTATT TATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATT TATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATT	TGTAGGCAGGAAGCG CTAAT	TAAGGTTGTCTGGGGA GGTG	60.0	654	INTERGENIC	--	--	--
Ca7_P1_41170096	Ca7	41170096	T/TA	TAAGGTTGTCTGGGGA GGTG	CGGCGAATTGTTTT TTTT	60.0	667	INTERGENIC	--	--	--
Ca7_P1_4118702	Ca7	4118702	ATTTTTTTTT/ATTTTTTTT	TTGTTATTGCTTGGTG TGGTT	GCAAAAAGAGACCTGC CAAG	58.1	661	INTERGENIC	--	--	--
Ca7_P1_41226170	Ca7	41226170	AATATATATATATATATA/AATATAT ATATATATATATATA	TTCATCAATGGCACAA GAAAA	TCCTGGGGATTTTGT GAAA	59.1	500	INTERGENIC	--	--	--
Ca7_P1_41241558	Ca7	41241558	TTATATATATAT/TTATATATAT	TTCAGGACGTCACACT CACA	TTCATCAATGGCACAA GAAAA	58.8	429	INTERGENIC	--	--	--
Ca7_P1_41250706	Ca7	41250706	GATTA/GATTATTA	GTGATATTGGGGTCG AATG	TTTGGCCCACTAACT ATTGGT	60.0	488	INTERGENIC	--	--	--
Ca7_P1_41250872	Ca7	41250872	AT/ATTATT	GTGATATTGGGGTCG AATG	AAGGGTCCTCTGAAG CGTT	60.0	680	INTERGENIC	--	--	--
Ca7_P1_41251256	Ca7	41251256	AG/A	CCAATAGTTTAGTGGG CCAAA	AAGGGTCCTCTGAAG CGTT	59.0	213	INTERGENIC	--	--	--
Ca7_P1_41252327	Ca7	41252327	TTAT/TT	TGCAATGCAATGTCCA TTTT	TTTTTCCTCATGGTGC AGTG	59.9	324	INTERGENIC	--	--	--
Ca7_P1_41252681	Ca7	41252681	TAAAAA/TAAAA	TGCAATGCAATGTCCA TTTT	CCACCGACTTGAAGAA GCTC	59.9	699	INTERGENIC	--	--	--
Ca7_P1_41283416	Ca7	41283416	A/AAG	GGTAAACCAATAGCAG CGGA	GAAAAACAGCCCCAAT TCAA	60.1	566	INTERGENIC	--	--	--
Ca7_P1_41410949	Ca7	41410949	TT/TGCATCTTCTTCATCCT	TAATCATCTCGGGTT GAGG	GTCCAAGAAGTCCCA ACAA	59.9	905	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_41428215	Ca7	41428215	TGG/TG	TAAGCGACGACGTGATATG	AATGTTACCTTGCAGGACCG	60.0	797	INTERGENIC	--	--	--
Ca7_P1_41429174	Ca7	41429174	TAA/TA	TGAGACCGGGTTTGATACC	CTGCTGCTCTTGCATCTCAG	60.0	385	INTERGENIC	--	--	--
Ca7_P1_41464356	Ca7	41464356	T/TAACA	ATTTCGACAGCCAAATGAG	GGCTTTAGGGTTTAGGTCGG	60.1	828	INTERGENIC	--	--	--
Ca7_P1_41484126	Ca7	41484126	GTATATATATATATATATAT/GTATATATATATATAT	AGATTCGACGGCAGTTGAGT	CGAGAGAGTGCACGCATGT	60.0	701	INTERGENIC	--	--	--
Ca7_P1_41547023	Ca7	41547023	AATATAT/AATATATAT	GATTTTGAGTTCGGGAGTCG	ACCACCCTCACGAGCAATAC	59.7	837	INTERGENIC	--	--	--
Ca7_P1_41558251	Ca7	41558251	AT/ATATATTT	ATGTCGAAGGTGGCCTACTG	CTGATGTGTGAATGAACGACC	60.1	424	INTRON	Ca_17992	E	TALE
Ca7_P1_41564191	Ca7	41564191	CTATATATATATATATATATATAT/CTATATATATATATATATATATATAT	TGCACTCACTCCAACACACAC	CCTATCATGTTTGGCCTGT	59.9	762	INTERGENIC	--	--	--
Ca7_P1_41575433	Ca7	41575433	CAT/CATAATAAT	AAAGTTTTGCCGACTCTCA	TTGGCCTCCTTCCACTTATG	59.9	710	INTERGENIC	--	--	--
Ca7_P1_41701036	Ca7	41701036	TAAAA/TAAAA	CGGTTTTGATGGATTCTCT	TGGCACATCTAATTAAATCGCA	59.9	529	INTERGENIC	--	--	--
Ca7_P1_41726941	Ca7	41726941	CCAA/C	CCCCATTTGTTTCTCTCCA	TTGTTTCTCCCAAGTTTGG	59.9	242	INTERGENIC	--	--	--
Ca7_P1_42085502	Ca7	42085502	ATTTTTTTTT/ATTTTTTTTT	TGCTCAACCTCAACGAATATG	GGACATTTGAAGGGCAAAAA	59.8	227	INTERGENIC	--	--	--
Ca7_P1_42111778	Ca7	42111778	TTATATATATATATATATAT/TTATATATATATATATATATAT	CCAAAAATCATCAAAACAATG	ACATGTGCATATTGCCGAAA	59.2	749	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_42151225	Ca7	42151225	GGAGAGATACTCTCATGAG/GGAG	TGGCTGACGTGGATGA AATA	TGTCGATCATCGGATT TGAA	60.1	751	INTERGENIC	--	--	--
Ca7_P1_4233766	Ca7	4233766	TTCTCTCTCTCTCT/TTCTCTCTCT CTCTCTCT	TATGTTCTGCCACAAG CAGC	CGCCACTCAAAAACAT GCTA	60.0	740	INTERGENIC	--	--	--
Ca7_P1_4233974	Ca7	4233974	CTATATATATATATATATAT/CTATA TATATATATATATATATATATATATA T	TTCTCTCGTGAGATTG AAAA	CGCCACTCAAAAACAT GCTA	59.4	442	INTERGENIC	--	--	--
Ca7_P1_42358853	Ca7	42358853	T/TCCATGTG	AGCTTACCATCCACAA ACGG	ATCAGCAACATAACA CCCA	60.0	726	INTERGENIC	--	--	--
Ca7_P1_42364254	Ca7	42364254	AATATATATATATATATATATATA TATATAT/AATATATATATATATATAT ATATATATATAT	CATCTCGGGTTGCTGA AAAT	TTTGAAAACCCCTAAC ACCG	60.1	363	INTERGENIC	--	--	--
Ca7_P1_42473151	Ca7	42473151	TAAAAAA/TAAAAA	TCCATCAAAGAGACAA AATCAAAA	AGTAATCCAATCACTC GCCG	60.0	606	INTERGENIC	--	--	--
Ca7_P1_42487577	Ca7	42487577	AATATATATATATATATATATATA T/AATATATATATATATATATATATAT ATATAT	TGATTGATTGGGTGCT CTGT	TAAGGCCCATGTTCAA GGTT	59.1	489	INTERGENIC	--	--	--
Ca7_P1_42529423	Ca7	42529423	TTCTC/TTC	AACAAAATTCAAACCCA ACAAAA	TCCAACCACATGCCTC ATAA	59.7	724	INTERGENIC	--	--	--
Ca7_P1_42568760	Ca7	42568760	AT/A	GCAAGGTTTGCACGTC ACTA	AAATTTGTCTTCGCAT TTCCA	59.9	293	DRR	Ca_20212	K	--
Ca7_P1_42582021	Ca7	42582021	TTATATATATATATATATATATATAT ATATATAT/TTATATATATATATATAT ATATATATATATAT	TCAATCGGAAGGAGAA GGTG	TGCCCACTTATACAGC AAAGG	60.2	740	DRR	Ca_20211	--	--
Ca7_P1_42603074	Ca7	42603074	GTATATATATATATAT/GTATATATA TATATAT	GGGCAACCGTTCTTTC TACA	AAATTTCAAGCGATCAA ACGA	60.1	741	INTERGENIC	--	--	--
Ca7_P1_4261881	Ca7	4261881	AATATATATATATATATATATATATA TATATATATAT/AATATATATATATAT ATATATATATATATATATATATATAT	AAATTGATCCAAATCG CACC	ACCATGCACATCTCTC CCTT	59.8	359	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_42618849	Ca7	42618849	TAA/TA	AAAGGATTTGTGGGTG TCCA	CGCAGAAGTCAAAATG CAGA	60.2	432	INTERGENIC	--	--	--
Ca7_P1_42715047	Ca7	42715047	AGACT/AGACTGACT	CCACCGCTTGAAAAC GATT	AACATTTACGAGGTG GCAC	60.1	353	INTERGENIC	--	--	--
Ca7_P1_42720359	Ca7	42720359	CATAATAATAATAATAATAATA ATAATAATAATAATAATAATAA TA/CATAATAATAATAATAATAA ATAATAATAATAATAATAATAA TAATAATAATAATAATAATA	TTCAGTGACCTTCTCC AGCC	TGTTGTGAAGGGACAA AACATT	60.4	830	INTERGENIC	--	--	--
Ca7_P1_42738535	Ca7	42738535	TAAAAAA/TAAAAAA	TCCCGCTACACTTTGA GGAC	TCAAAAGCAAGTGTTG CAGG	60.3	592	INTERGENIC	--	--	--
Ca7_P1_42757617	Ca7	42757617	T/TGGTTTGAGTTTGC	TTTGCTCTGAAAGCCC AAAT	AGTTCCTGCAACTCCG AAGA	59.8	527	INTRON	Ca_20201	--	--
Ca7_P1_42797031	Ca7	42797031	ATTTTTTT/ATTTTTTTT	GGTTTAGCATGCACGC TTTT	GAAAGAGGGGACAAA CAGCA	60.3	527	INTERGENIC	--	--	--
Ca7_P1_42834810	Ca7	42834810	AATATATATATATATATATATA TA/AATATATATATATATATATA	TTTCTTCGCGTTTGAC TAATG	GACATAAGAATGGAGG CGGA	58.1	691	INTERGENIC	--	--	--
Ca7_P1_42862365	Ca7	42862365	GATATATATATATATATATATA/G ATATATATATATATATATATATA A	TTTCCCAAATTTCTCCC TCA	TTAAGACAGGCATT GGGC	59.5	379	INTERGENIC	--	--	--
Ca7_P1_42919520	Ca7	42919520	AA/AAAGAATCA	TCAGCACTGCACAAA ACAT	AAAAGCGCATACGCT AAGA	60.3	621	INTERGENIC	--	--	--
Ca7_P1_42931459	Ca7	42931459	TA/T	ACGTAATATTTGTGG CGGC	GGTTGACATTTGTGAG GGCT	59.9	251	DRR	Ca_20196	--	--
Ca7_P1_42931948	Ca7	42931948	AATATATATATATATATATA/AAT ATATATATATATATATATATA	AGCCCTCACAAATGTC AACC	GAAAATTGACACCTTC CGATTG	60.0	457	DRR	Ca_20196	--	--
Ca7_P1_42937139	Ca7	42937139	TTATATATATATATATATATATAT ATATATATATATATATAT/TTATATAT ATATATATATATATATATATATAT ATATAT	TTGGCATGAGCCATTT ACAG	TGGAACCCACGGTAAC ATTT	59.7	466	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_429654	Ca7	429654	GATATATATATATATATATA/GATATAT ATATATATATATATA	GTTTGCAAATGCTCCC CTAA	TCATCCCTCCTTCATC TTCG	60.1	521	INTERGENIC	--	--	--
Ca7_P1_43011755	Ca7	43011755	TTATATATATATATATATAT/TTATATAT ATATATAT	TGCCAATTTTTCAAAG GTTTTT	GCCCAAGTCGAAATG TTGT	59.9	351	INTERGENIC	--	--	--
Ca7_P1_43086486	Ca7	43086486	AATATATATATATATATATATATATA TAT/AATATATATATATATATATATAT ATATATATATAT	AAAGGACCAAGTCGGA AAAA	TGTGATCGCATCGGAA ATAA	58.7	808	INTERGENIC	--	--	--
Ca7_P1_43195168	Ca7	43195168	GATATATATATATATATATATATATA TATA/GATATATATATATATATATAT ATATATA	AATTGGATGAGTCTGG TCGC	TGATTTTGCAAACGCA ATGT	60.1	536	INTERGENIC	--	--	--
Ca7_P1_43208355	Ca7	43208355	CTTTTT/CTTTT	CACAGGCACAAAATT TCTCAA	TGAATTGAGATCGTTG GCAC	60.1	568	INTERGENIC	--	--	--
Ca7_P1_43215386	Ca7	43215386	C/CCA	TTTTTAAGCAATTTACC GCACCT	TGAGTGCACCTTTTAC AGCG	59.3	183	DRR	Ca_25041	--	--
Ca7_P1_4323147	Ca7	4323147	CTT/CTTT	AATTCGGGTGTGAGA GGTG	GCAACTCGGATTGGTG ATTT	60.0	800	INTERGENIC	--	--	--
Ca7_P1_43243792	Ca7	43243792	GAAAA/GAAA	TCAAGCTCATCCAA AGCA	ATGGAAGACATGGTTG GCTC	60.5	813	INTERGENIC	--	--	--
Ca7_P1_4329744	Ca7	4329744	AATATATATATATATATA/AATATAT ATATATATATATATA	TTCATGAAGTGAGTG GGTGA	AAACAAAAAGTTGCTT TTACGAA	60.0	561	INTERGENIC	--	--	--
Ca7_P1_43375115	Ca7	43375115	CAAAA/CAAA	CCAATATCTCGTGTC CCGT	CATTTCAAGTTGGGGC AGTT	59.8	335	INTERGENIC	--	--	--
Ca7_P1_4339580	Ca7	4339580	TTTTTTATTTTTATTTTTAT/TTTTTTA TTTTTATTTTTATTTTTATT	GCTAGTGCCTCCCTTG AGTG	TCACGGGTGCATTGAA CTTA	60.0	614	INTERGENIC	--	--	--
Ca7_P1_43436560	Ca7	43436560	AC/ACC	ATTTCAGCGGTAGTGG ATGC	GTCTATATGGTCCCTC CGCA	60.1	850	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_43482373	Ca7	43482373	AAAAA/AAAAAGGAAGAAAGGAAAA	GCGGTGAATCTTTAC GAGG	AGGGAGGTTTGTGTT GACG	59.7	435	INTERGENIC	--	--	--
Ca7_P1_43487665	Ca7	43487665	GTT/GT	AGCTTTTCATTCCACA CCGA	CGCACTGCAGATGCAA TTTA	60.6	636	INTERGENIC	--	--	--
Ca7_P1_4351119	Ca7	4351119	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA	AGCGCTCAACCATAAA TTCG	TGTGGAGGTCGGTGT TTGTA	60.2	223	DRR	Ca_03023	T	HB-other
Ca7_P1_43554492	Ca7	43554492	GA/GATA	CCGTAAATCCCATGT TTTG	CAAGGTCTTCGAGGTG ATCC	60.0	759	INTRON	Ca_25034	QI	bHLH
Ca7_P1_43578577	Ca7	43578577	TTATATATATATATATATATATATAT ATATATATATATAT/TTATATATATATAT ATATATATATATATATATATATATAT	GAATTTCAAACTCGGG TGGA	TTACCTCCCTAACCCC ATCC	59.9	383	INTERGENIC	--	--	--
Ca7_P1_43605839	Ca7	43605839	GT/GTT	TTCTTGTTCAAGATTCT TTTGTTCA	ACATGGAAGTTGTTGG AGGC	59.4	190	INTERGENIC	--	--	--
Ca7_P1_43606110	Ca7	43606110	GATATATATATATAT/GATATATATATA TATAT	CAGTTGGCTACTACCC TCGC	CAAGCTGAGACATGG CAAAA	59.9	472	INTERGENIC	--	--	--
Ca7_P1_43606803	Ca7	43606803	TATAAATAAATAAATAA/TATAAATAA ATAAATAAATAAA	TTTTGCCATGTCTCAG CTTG	TCTCTCATTTCCCAA GTGG	60.0	814	INTERGENIC	--	--	--
Ca7_P1_43607952	Ca7	43607952	GTTCTTCTTCTTCTC/GTTCTTCTCT TCTTCTTCTTC	AATGAGGAGATGGGAC AACG	AAGACCAAGGCACGAA ACAC	59.9	731	INTERGENIC	--	--	--
Ca7_P1_43614326	Ca7	43614326	C/CTAA	TGCTTAATGAAGGTGG AGGG	CCGAGGGATTTTAGAG AGGG	60.1	524	INTERGENIC	--	--	--
Ca7_P1_43621219	Ca7	43621219	GTATATATATATATATATATATATA/GT ATATATATATATATATATATA	TGCATGTAAACTGGT GGGA	AGCTGAACGCCTGAAC ATCT	60.0	412	INTERGENIC	--	--	--
Ca7_P1_4369825	Ca7	4369825	ATTTTTTTT/ATTTTTTT	GATCGCGGTTGACGAG TATT	TGGTCCTCTAAATTTT GCCA	60.1	912	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_43707999	Ca7	43707999	AATATATATATAT/AATATATATAT	TAGAGCGCATTGTTT GCAG	GCTTTTATGTCATGCA ACCC	60.2	362	INTERGENIC	--	--	--
Ca7_P1_4379987	Ca7	4379987	AATATATATATATATATATATATATA /AATATATATATATATATATATATA	GGCGCTTGAACGTAAA GATT	CTGTTTACGTGGCAAG CTGA	59.5	834	DRR	Ca_03019	--	--
Ca7_P1_43811202	Ca7	43811202	CAAA/CAA	GGGTCTGGGATCAACT CTGA	TTGAACTGAATGCAAG CCAC	60.0	630	INTRON	Ca_21355	S	--
Ca7_P1_43840665	Ca7	43840665	GC/GCCC	GCGTTTTTATGGTTGC TGGT	GAGTCAACCCCAAGTG CAAA	60.0	304	CDS (FRAME SHIFT)	Ca_21356	--	--
Ca7_P1_4385687	Ca7	4385687	GAAAAA/GAAAAAA	TTTAATGGGCGCTAAG GGAG	GTGAGAGAGTGCCCC CAATA	60.3	776	INTERGENIC	--	--	--
Ca7_P1_43983784	Ca7	43983784	GAGTAGTAGT/GAGTAGT	TGTTGTTTCGATTCCTC ACCA	TGATGGTCCTAAGGTT GTTGC	60.1	479	INTERGENIC	--	--	--
Ca7_P1_44001226	Ca7	44001226	GAAA/GAA	GAACACCACACGCAAA GAAA	TTTGTCCTAATGGCAGT TTCA	59.7	529	INTERGENIC	--	--	--
Ca7_P1_44001613	Ca7	44001613	T/TG	TGAAACTGCCATTGGA CAAA	CAATTTCTTTCGCTGT GGTG	60.1	476	INTERGENIC	--	--	--
Ca7_P1_44007345	Ca7	44007345	TTATATATATATATATATATATAT/TT ATATATATATATATATATATAT	ACGAAGCCATCTCTCC TCAA	GAAATGCGAGATGAAT TTGGA	60.0	468	INTERGENIC	--	--	--
Ca7_P1_44054608	Ca7	44054608	AAGAGAGAGAGAGAGAGA/AAGAGAG AGAGAGAGAGAGA	CGATCCAATGCAAAA TGTG	CTCGAACTGGTTCAT GCCT	59.9	633	INTERGENIC	--	--	--
Ca7_P1_44083169	Ca7	44083169	T/TTC	ATGCTCTGCACTTGCA GCTA	GACGAAATCTTTTAA GAGGCG	59.9	734	INTERGENIC	--	--	--
Ca7_P1_44104294	Ca7	44104294	AGGGG/AGGGGG	GAATTGATGGAGGGAC GAGA	CGGGGTGTTACATTGC TCTT	60.0	359	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_44150096	Ca7	44150096	T/TTTA	AGTCTTACCAGCGCCA CACT	TCCCAACTACAACGAG GACC	59.9	567	DRR	Ca_21366	O	--
Ca7_P1_44150736	Ca7	44150736	TAAAAA/TAAAAAAA	GGTCCTCGTTGTAGTT GGGA	CCAAGGCATCAGCTCA CATA	60.0	467	DRR	Ca_21366	O	--
Ca7_P1_44174086	Ca7	44174086	TTACCTTTTTTTTCTACCTTTTTTTCT ACCTTTT/TTACCTTTTTTTTCTACCTT TT	GGAAGGAACGGTGCTT CATA	AACAAAAATTGTGAAG AAAAAGCA	60.1	270	INTERGENIC	--	--	--
Ca7_P1_4418125	Ca7	4418125	A/ATC	CAAGTCAGCACCGACA AAGA	ATAAAAGGGTGACGTG GCAG	60.0	592	INTERGENIC	--	--	--
Ca7_P1_4425736	Ca7	4425736	CATATATATATATATATATAT/CATATA TATATATATATATATAT	GCGAGCATGAGAAGTT GTTG	TGTCCTAATCTCTTTC AATCATGC	59.6	808	INTERGENIC	--	--	--
Ca7_P1_44270559	Ca7	44270559	GAGAAGAAGAAGAAGAAGAAGAA GAAGAAGAAGAAGAAGAAGAAG/G AGAAGAAGAAGAAGAAGAAGAAG AAGAAGAAGAAGAAGAAGAA	AAGTTTTGGGTTGCTC ATGG	CTCGCTCGTTTTGATG TTCA	60.0	497	INTERGENIC	--	--	--
Ca7_P1_44372091	Ca7	44372091	GAATAATAATAATAATAATAATAAA TA/GAATAATAATAATAATAATAAT AATAATA	CGGAGAGTTGATTTC CACAA	CGTCAAGACGTTCTT CAATCA	58.8	498	DRR	Ca_21371	--	--
Ca7_P1_44380984	Ca7	44380984	GAAAAAAAA/GAAAAAAAA	AGTGGTGGAAGACATG GAGG	CAATTCGATTGCACCC TTCT	60.0	192	INTERGENIC	--	--	--
Ca7_P1_44396434	Ca7	44396434	ACC/ACCC	ATGCATGTGAAGTAAG GCCC	ACTCAGCCTCTCTCCA ACCA	60.0	458	INTERGENIC	--	--	--
Ca7_P1_44398591	Ca7	44398591	TGCATAGCAT/TGCATAGCATAGCAT	GATCTATGAGGACAGG GCCA	GGTCAAGCCAGTGAAA CACA	60.0	359	INTERGENIC	--	--	--
Ca7_P1_4442062	Ca7	4442062	TTATATATATATATATATATA/TTATA TATATATATATATATA	GCATGCATTTGGACAT GAAG	GGGCAAAGGTTTCATGT GATT	60.1	125	DRR	Ca_03013	--	--
Ca7_P1_44474070	Ca7	44474070	AT/ATT	TAGCAACAAAAATGGG GGAG	TGGTAGCGTACCGTTT GACA	59.9	634	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_44488959	Ca7	44488959	ATATTATTATTATTATTATTATTAT TATTATTATT/ATATTATTATTATTAT TTATTATTATTATTATTATTATTATT	GAGGGGAGGGGAGTA TTCTG	GATTGTGCGAAGAGG AGGAG	59.9	588	INTERGENIC	--	--	--
Ca7_P1_44514941	Ca7	44514941	GAAAAAAAAA/GAAAAAAAAA	TTCCGAATCCGAAGAT GAAG	TGTCCAATCGATTGG TTGA	60.1	648	INTERGENIC	--	--	--
Ca7_P1_44528144	Ca7	44528144	A/AT	AAAATGGTGCGAGGAA TCAC	TGATTTCGCTGTTTGA GTGC	59.9	654	DRR	Ca_21374	--	--
Ca7_P1_44543618	Ca7	44543618	ATTTTT/ATTTTT	TGTTCACTGCCAACT CTGC	TTTGCGTTTTCTGTTT GTTG	60.0	517	DRR	Ca_21376	R	ERF
Ca7_P1_44580438	Ca7	44580438	GACACACACAC/GACACACACAC	TGGAAGTTTGCAGATT GGTG	ATGGCAACTCCTATGC ATCC	59.7	473	INTERGENIC	--	--	--
Ca7_P1_4473592	Ca7	4473592	TAAAAAAAAAAAAAAAAA/TAAAAA AAA	GCAAAACAAATGAAT GTAACAA	TGGAGAAAAGAGGGG AAGAGA	58.2	469	INTERGENIC	--	--	--
Ca7_P1_4477286	Ca7	4477286	GAA/GAAA	GGGGAAATCAGGATT TGGT	ATCCCTCTGCATCTTG CTGT	60.0	305	CDS (FRAME SHIFT)	Ca_03009	--	--
Ca7_P1_44773411	Ca7	44773411	AATATATATATATATATATATATA/A ATATATATATATATATATATATATA	ATTTTCGACTGTTTGC GGAT	TTTCACCCAACATTG CTCA	59.6	647	INTERGENIC	--	--	--
Ca7_P1_44807506	Ca7	44807506	ATTTTTTTTT/ATTTTTTTTT	TGATATGCAAAGCTTG AACCC	TCGCACTGTTAAAAAT CGGG	60.1	499	INTERGENIC	--	--	--
Ca7_P1_44822805	Ca7	44822805	GATATATATATATATATATATAT/GATA TATATATATATATATATATATAT	CTTCGGGGTTGTACTG AGGC	TTGGTCGTTTGAGCCT TTCT	59.7	529	INTERGENIC	--	--	--
Ca7_P1_44825811	Ca7	44825811	TAAAAA/TAAAAA	TAGGGCACAAAGTCTCC CAAG	GCAGTGCTGAATTTTG GTGA	60.2	385	INTERGENIC	--	--	--
Ca7_P1_44977264	Ca7	44977264	TTCCTCCT/TTCT	TTACCGCATTAGGAT CTGC	CAGGGCCCAAGAATA GATGA	60.1	386	INTERGENIC	--	--	--

[illegible]

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_45465088	Ca7	45465088	TGGGGGG/TGGGGGGG	CCGTTGCATATTCCTT GGT	AATTTGCCCTTATTG ACCC	59.8	667	DRR	Ca_15740	--	--
Ca7_P1_45524345	Ca7	45524345	AATTATTATTATTATTATTATC ATTATTATTATTA/AATTATTATTAT TATTATTATCATTATTATTATTA	TGCAATAGGAAGTCGT TCCC	TTTCATTTCGTTTCAA GTTATCAA	60.1	682	INTERGENIC	--	--	--
Ca7_P1_4562422	Ca7	4562422	ATT/ATTT	TCTCCGATTTCCTCT CAAA	ACATCTGGATGATGT GGCA	59.7	283	INTERGENIC	--	--	--
Ca7_P1_45656467	Ca7	45656467	TTATATATATATATATATATAT AT/TTATATATATATATATATATAT AT	TTGCAAGACCACATGC CTAA	TGCTCTTCTGTCTC GTGC	60.3	558	INTRON	Ca_15748	--	--
Ca7_P1_45670446	Ca7	45670446	TATAATAATAATAATAATAATA/T ATAATAATAATAATAATAATAATA TAATAA	CAGCGTGACAATGAGC AACT	AGAGGATACCCACCAG AGGAA	60.1	667	INTERGENIC	--	--	--
Ca7_P1_45684069	Ca7	45684069	ATTTTTTTTTTT/ATTTTTTTTTTT	TTCTCCCTTTTGTCAT CAGA	TGAACACCAATGGGCT AACA	59.7	251	INTERGENIC	--	--	--
Ca7_P1_45731609	Ca7	45731609	AATTATATTTA/AATTTA	TTTGCAGCCACAAAAG TCTG	TTGTGTGTTTAATTTG CGTTTG	60.0	625	DRR	Ca_15750	--	--
Ca7_P1_45750771	Ca7	45750771	TTAATAATAATAATAATAATAATA T/TTAATAATAATAATAATAATAAT AATAATAATAAT	GCTTGCAAACGTTGGT TTTT	AGCTCAACCTCTGCCA TTGT	60.2	577	INTERGENIC	--	--	--
Ca7_P1_45754772	Ca7	45754772	CATATATATATATATATATAT/CA TATATATATATATAT	GTGTGTTTGGCTGCGT TCTA	CCCAATAATGATGCAA GCCT	59.9	680	INTERGENIC	--	--	--
Ca7_P1_45762039	Ca7	45762039	ATT/ATTACTAGTTATTTGTT	TTTTAAGGCGTGTTTT GGG	TCAACAAGTCACAGGC GATT	60.0	893	DRR	Ca_15751	J	--
Ca7_P1_45829437	Ca7	45829437	TA/TAGTAGGGGTTTTCAAA	TCGTGAGTTTGAGGG AACT	CGAAAAATCCTTTCGC CATA	59.7	536	INTERGENIC	--	--	--
Ca7_P1_45931434	Ca7	45931434	CTTT/CT	TTCTTTCCACACAAC CACA	TCTCCCTCCCTCCTC ATTT	60.0	399	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_45951240	Ca7	45951240	AT/A	CAACTTGGGGAATTC AACG	TTGGCATGTGAGGTGA TGTT	60.3	893	INTRON	Ca_15757	T	E2F/DP
Ca7_P1_46064937	Ca7	46064937	GAAAAAAAAA/GAAAAAAAAA	CTCTGCCTTTGTGCTT CTCC	CCTCTTGAGGCTTCAT CACC	60.1	598	INTERGENIC	--	--	--
Ca7_P1_46075915	Ca7	46075915	CTATATATATATATATATA/CTATATAT ATATATATATATA	AAACAATCCAGACCAG TGGC	TCAAGCCAAACCTTA TCTTTT	60.0	543	INTERGENIC	--	--	--
Ca7_P1_4607955	Ca7	4607955	TAAAAAAAAA/TAAAAAAAAA	CGCCCTGTTTTATTCT GAGA	TCATGCTTCAAAGCT CAAAAA	60.2	110	INTERGENIC	--	--	--
Ca7_P1_46101364	Ca7	46101364	GTTTTT/GTTT	TGCGTCATCAATCCTG AAAC	GCAGTTACTTTTGGCC TCCA	59.7	328	DRR	Ca_15759	--	--
Ca7_P1_46120777	Ca7	46120777	AAAAAATTAAAAATTAAAA/AAAAAATT AAAAATTAAAAATTAAAA	CACACGCCATTTGTAC TTGC	CACGTAATAAGGCGCA GGAA	60.2	658	INTRON	Ca_15760	--	--
Ca7_P1_46165465	Ca7	46165465	A/AC	ACACTGCTGCTGGAAT TGTG	ATGCTCTGTATCCATT GCCC	59.9	664	INTERGENIC	--	--	--
Ca7_P1_46249815	Ca7	46249815	CAAAAAAAAA/CAAAAAA	TCAAGATACCCAGTGC ACCA	GGCAAGTTAACATGTT GCCAG	60.1	627	INTERGENIC	--	--	--
Ca7_P1_46332309	Ca7	46332309	GAACACAA/GAACACAATCAACACAA	AACGTACTGCCTATCA CGGG	TTCGCAACTCCACTCT TCCT	60.0	649	INTERGENIC	--	--	--
Ca7_P1_46334386	Ca7	46334386	A/AGGAGCGG	AAGCATTCTGCAAG CTCC	AGAAAGTCTAGGGT GGGA	59.6	886	INTERGENIC	--	--	--
Ca7_P1_46434546	Ca7	46434546	AATATATATATATATATATAT/AAAT TATATATATATATATATAT	TGCGTTACGGTGAAAT GGTA	AGGAAGAGTGGAGTT GCGAA	60.0	370	INTRON	Ca_22755	--	TALE
Ca7_P1_46560466	Ca7	46560466	AATATATATATATATATA/AACATAT ATATATATATATATATA	GGAGGCATTGTTTCT CAAA	AGGAAGAGTGGAGTT GCGAA	60.1	658	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_46573334	Ca7	46573334	TATAATAATAATAATAATAATAATA ATAATAATAA/TATAATAATAATAATA TAATAATAATAATAA	GGCACGACATCATCATC	CTTTTAGCCGGGTTA CCAT	59.9	597	INTERGENIC	--	--	--
Ca7_P1_4663386	Ca7	4663386	TAATTCAGAATTCA/TAATTCAGAATTC AGAATTCA	TAATTATGCGGTGGCG TGTA	GCAATTTAGTAGCATC GCCC	60.0	260	INTERGENIC	--	--	--
Ca7_P1_4664246	Ca7	4664246	ATT/ATTT	CCAACTATGGGTTTCA ACAACA	TCACACACAATTGTAA AGTTTCG	59.8	463	INTERGENIC	--	--	--
Ca7_P1_4664736	Ca7	4664736	ATTTT/ATTT	CAATTGTGTGTGAGTT TTTGATGA	ATGCACGATGGCAGTT GTAG	59.9	604	INTERGENIC	--	--	--
Ca7_P1_46657551	Ca7	46657551	CAAA/CA	GTGATCGTCTTCGGAT TGGT	TGAATCTTGGGACGGA AAAG	59.9	653	INTERGENIC	--	--	--
Ca7_P1_46722519	Ca7	46722519	ATTTTTT/ATTTTTTT	CAATATTTTCATTGGATC CACCA	CGACTAGGGGTATTTT GGACG	59.5	670	INTERGENIC	--	--	--
Ca7_P1_4674504	Ca7	4674504	AATATATATATATATATATATAT/AA TATATATATATATATATATAT	GCCCAATTTTACCCAC ACAT	GCCACCTATGTGCTAT TTGC	59.6	679	INTERGENIC	--	--	--
Ca7_P1_46868801	Ca7	46868801	TATAATAATAATAATAATAATAATA A/TATAATAATAATAATAATAATAA TAATAATAA	GTACGAAGGTTTGATC CCGA	AACCCACCGTGA AAC AAAC	59.9	276	INTERGENIC	--	--	--
Ca7_P1_47010986	Ca7	47010986	AATTATTATTATTATTATTATTATT ATTATTATTATT/AAATTATTATTATT ATTATTATTATTATTATTATTATTAT TTATT	GAACCTTCGCAGAAAC TTCG	TGGTTTGTAATTGGG AGGA	60.0	712	INTERGENIC	--	--	--
Ca7_P1_47108195	Ca7	47108195	A/AG	ATGGTGGTTCGGTCAC ATTT	CCTTTTGCACAAGCTT CACA	60.1	436	INTERGENIC	--	--	--
Ca7_P1_47130515	Ca7	47130515	CAT/CATAT	TCGTGTCCCAAATGT GAAA	TGAAATGGGGCAGGTT TAAG	59.9	189	DRR	Ca_19486	--	--
Ca7_P1_47160099	Ca7	47160099	ATTATTTATTTATTTATTTATTTTA TTTATTTATTTAT/ATTATTTATTTATTT ATTTATTTATTTATTTATTTAT	TGATACCCGATCCGTC TCTC	TGGGTTTTAATCTTTT GGGG	60.0	408	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_4720313	Ca7	4720313	CTTTATTTATTTAT/CTTTATTTAT TTATTTATTTAT	CTCTGCTCAAGCATCA TCCA	CATTGGGTGTGAAATG TGTC	60.1	696	INTERGENIC	--	--	--
Ca7_P1_47208313	Ca7	47208313	ATTTTTTTTT/ATTTTTTTTT	TTCTGCAATGTGGAT CATTG	GCAGGCCAACCATAGT TCTG	59.5	524	DRR	Ca_19491	G	E2F/DP
Ca7_P1_47228672	Ca7	47228672	A/AATC	AGTCACCCCAAGTGGA AATG	CCCAACTTCCCAAGAG TCAA	59.8	348	INTERGENIC	--	--	--
Ca7_P1_47266902	Ca7	47266902	AG/A	CCAGAGGAACCAAC AATC	GTTCAACAAAGCTTCC GCTC	59.4	667	INTERGENIC	--	--	--
Ca7_P1_47286553	Ca7	47286553	GATAATAATAATAATAATAATAAT AA/GATAATAATAATAATAATAATA ATAATAA	CTGAAGGTGCAACAC GAGA	CAAGGACTAAATTGAA ACCCAAA	60.0	661	INTERGENIC	--	--	--
Ca7_P1_47359557	Ca7	47359557	ATTTTT/AT	TGTGCCATGAGGTTCT TTTG	TGCTACGTACGAACCT TCCC	59.7	867	INTERGENIC	--	--	--
Ca7_P1_47396377	Ca7	47396377	ATATTATTATTATTATTATTATTAT TATTATTATT/ATATTATTATTATTAT TTATTATTATTATTATTATTATT	AAAAATTAACGCATA GAGTTTTCA	GGAAATGAAAGGGGA CATCA	59.5	483	INTERGENIC	--	--	--
Ca7_P1_47434416	Ca7	47434416	CTATTTTTATTTATTTTATTTATTTT ATTT/CTATTTTTATTTATTTTATTT	TTTCAATAAATGCATGC GGA	ATGAAAAGCCCACTA CACG	60.0	462	INTERGENIC	--	--	--
Ca7_P1_47473759	Ca7	47473759	TTTATTATTATTATTATTATTAT/TTT ATTATTATTATTATTATTATTATTA	GAGCACAAACCTAAC CCAA	AAAAATTTGGGCTGAA GCAA	60.0	520	INTERGENIC	--	--	--
Ca7_P1_47506059	Ca7	47506059	ACC/AC	ATCAAGGACAACATGG GAGC	ATCGACAAGCAAGAAC CCTG	59.9	535	INTERGENIC	--	--	--
Ca7_P1_47551451	Ca7	47551451	CTT/CTTT	TGGCATTGATGATGGC TTTA	CCAGGATAAACAGCC CAGA	60.0	622	DRR	Ca_19500	O	MYB_related
Ca7_P1_47551645	Ca7	47551645	ATTCTAGAACGGTTTTCTA/ATTCTAG AACGGTTTTCTAGAACGGTTTTCTA	GCAATTTTGTGAAGGA GGGA	CCAGGATAAACAGCC CAGA	60.1	497	DRR	Ca_19500	O	MYB_related

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_47605014	Ca7	47605014	GTTTTTTT/GTTTTTTT	GGTTTGTAATGGACGG GATG	GGTTTTCGATGCATGT TGAG	60.1	504	INTERGENIC	--	--	--
Ca7_P1_4775529	Ca7	4775529	TAAAAAAAAA/TAAAAAAAAA	TGCACATTGCACACTA CCAA	GTGCATTGAAGAAAG AGCC	59.7	619	INTERGENIC	--	--	--
Ca7_P1_47792100	Ca7	47792100	T/TGAA	CCCCACATGGCTAAA AGTA	CCTAGGATCCATGGAC AACG	59.8	247	INTERGENIC	--	--	--
Ca7_P1_47792472	Ca7	47792472	T/TTA	AATGCAAATGGATTG GGAC	GGCCGTTTACCAATGT CTGT	59.6	257	INTERGENIC	--	--	--
Ca7_P1_47904030	Ca7	47904030	GTTTTTTTTTTTT/GTTTTTTTTTTT	GCATTTCCTTGAAAC GGAG	TTGATGGCTAGTAGGC CTGG	59.7	864	INTERGENIC	--	--	--
Ca7_P1_47927082	Ca7	47927082	AATATATATATATATATATATA/A ATATATATATATATATATATATAT ATATA	TATTTGGATTITGGCT CGG	CACCGTAGTGTGGTG GTGAG	59.9	639	INTERGENIC	--	--	--
Ca7_P1_47975053	Ca7	47975053	AATATATATATATATA/AATATATAT ATATATATATA	GTGTCGTGGGTTTCGAA CTTT	CATTTAAAAACGTTAAT CCAAACAGA	60.0	362	INTERGENIC	--	--	--
Ca7_P1_4805132	Ca7	4805132	ATTTTT/ATT	AAATTTGTCGCATCTC AATCG	TGCACCTCCACAATTG TACC	60.1	371	INTERGENIC	--	--	--
Ca7_P1_48058835	Ca7	48058835	GATATATATATATATATATATA/G ATATATATATATATATATATATAT A	TCGTACCACATATGCA TCGC	TCCTACGTATTCCCAG GTGC	60.5	325	INTERGENIC	--	--	--
Ca7_P1_48124422	Ca7	48124422	AT/ATTATTATTATTTT	CCACTCAGGGCACTAT GGAT	ATCGTCGTTTACCGGA ACTG	60.0	308	INTERGENIC	--	--	--
Ca7_P1_48189356	Ca7	48189356	ACCCCC/ACCCCCC	TGCAACAATTTTCATCC CAAA	AATAAGAACCACCCG AACC	59.9	195	INTERGENIC	--	--	--
Ca7_P1_48193319	Ca7	48193319	TTAT/TT	ACCCAATTTGTCGTGG TGAT	TTCCCATCTCCATTCT CGTC	60.1	619	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_48210281	Ca7	48210281	TTTCATTCAATTCATTCAATTC/TT CAATTCATTCAATTC	TCTTGGTAGCGAGCAC ATCC	CAAGGGATTCCAGAAA CGAA	61.3	171	INTERGENIC	--	--	--
Ca7_P1_48234648	Ca7	48234648	AT/ATT	TTGCAAAAGTCAAACC CACA	ATACTTCTCGCGCAGA GTCC	60.1	660	INTERGENIC	--	--	--
Ca7_P1_48299854	Ca7	48299854	GTTTTTTTTTTT/GTTTTTTTTTTT	TTCCCTCTAATGACC GCTA	GACCTATGCAGGCGAT TGAT	59.7	245	INTERGENIC	--	--	--
Ca7_P1_48311764	Ca7	48311764	GAAA/GAA	TTCAATCTGGGATGC CTCT	GGTACGTCCAGTCCTC TTGC	59.8	402	INTERGENIC	--	--	--
Ca7_P1_48312562	Ca7	48312562	TAAAA/TAAAAA	CGAAGCACAAAGGAGAT GACA	CAGTGATGCGGAAAAA CTCA	60.0	196	INTERGENIC	--	--	--
Ca7_P1_48312616	Ca7	48312616	ATC/ATATCTC	CGAAGCACAAAGGAGAT GACA	TTTCCGAGTGCTGTCA AATG	60.0	382	INTERGENIC	--	--	--
Ca7_P1_48390576	Ca7	48390576	CTTTATTTATTTATTTATTTATTT/C TTTATTTATTTATTTATTTATTTA TT	TGTCAATGGCAACCAT GTCT	TTGCTCCTACGTATTT CCCG	60.0	938	INTERGENIC	--	--	--
Ca7_P1_48392684	Ca7	48392684	TAAAAA/TAAAAA	TGATTCCCAACATCC AACT	ATGATATTGGAGTTTG CGCC	60.2	165	INTERGENIC	--	--	--
Ca7_P1_48424520	Ca7	48424520	CA/CAA	AGACCGATCTAACAAG CCTTT	CGATTACGCATGTTT TCAC	57.1	283	DRR	Ca_26353	--	--
Ca7_P1_48426517	Ca7	48426517	TAAAA/TAAAAA	CAATGGCGACTTCCA ACTT	AAACCTTTGGAAAT CGGC	60.1	521	INTERGENIC	--	--	--
Ca7_P1_48429143	Ca7	48429143	AATATATATATATATAT/AAATATA TATATATATAT	AACACCGGGTTAGAT GTGT	GGCCAAATACGTTGGA AATG	60.3	663	INTERGENIC	--	--	--
Ca7_P1_48489925	Ca7	48489925	C/CACTATCAAT	CCACAACTAAGATCC TGCCA	GCCTCCAAAACCGATA TTCA	60.1	465	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_48546221	Ca7	48546221	GAAAAAAAAA/GAAAAAAAAAAA	TTCCAATCCCATCATC CATT	CGAGATTGCGTAGTGA TAGCC	60.0	424	INTERGENIC	--	--	--
Ca7_P1_48549197	Ca7	48549197	T/TAAAG	AAACTTCTTCCCCCTTT GGA	CAAAACAAGGCAAGGT TGGT	59.9	875	INTERGENIC	--	--	--
Ca7_P1_4867122	Ca7	4867122	AATATATATATATATATATATATATA TTTATATATATATAT/AATATATATATAT ATATATATATATATATATTATATATATAT ATAT	AGGTGGTGAGCGTTTT TGAA	TTGATGATGTGAAGGA ATGACAG	60.7	670	INTERGENIC	--	--	--
Ca7_P1_48703820	Ca7	48703820	CAAAAAAAAA/CAAAAAAAAAAAAA	TCAGTCAAACGCACAC AAAA	TTCGGTTTGAGGGAAG TCAC	58.9	496	DRR	Ca_26166	--	--
Ca7_P1_48775188	Ca7	48775188	ATTTTTT/ATTTTTTT	CAGATGCCAAAAGATGC GAAA	CCAAGTTCCTCCAGAGT CAAG	60.0	191	INTERGENIC	--	--	--
Ca7_P1_48802413	Ca7	48802413	TAAAAAAAAA/TAAAAAAAAA	GAGGAGGGCTATCAAC ACCA	GCGTGTGTCTGCTACT TGAA	60.1	421	INTERGENIC	--	--	--
Ca7_P1_48835104	Ca7	48835104	A/AC	TGCCACCXAACTATC CAAT	TGTTGAGCTCCCATTT TTCC	60.2	743	INTERGENIC	--	--	--
Ca7_P1_48845811	Ca7	48845811	TAAAAAAAAA/TAAAAAAAAA	GACTTGACGGATATTT CACGC	TACATCCCTAGGATGC GACC	59.6	421	INTERGENIC	--	--	--
Ca7_P1_48873547	Ca7	48873547	AATATATATATATATATAT/AATATATA TATATATAT	AAGGGAGGACGTGGA GAAC	CGAAGGTTTTGGAAGA GCTG	60.1	638	INTERGENIC	--	--	--
Ca7_P1_48879159	Ca7	48879159	TTATATATATATATATAT/TTATATAT ATATATATATATAT	AGTTGATTGGATTTCG TTCG	AGCAAATTCGATCAC CCAC	59.9	408	INTERGENIC	--	--	--
Ca7_P1_4928590	Ca7	4928590	AA/AAAGAAAATATCATTGA	AACGTGATGCAACTTT TCCC	AAAATTGTGGTTATTTT GTTGCC	60.0	818	INTERGENIC	--	--	--
Ca7_P1_4944323	Ca7	4944323	ATATTATTATTATTATTATTATTAT TATTATTATTATTATATTATTATTATTA TTATTATTATTATTATTATTATTAT T	AATGCATGCACTCTTC GTTTT	ACCACACTCGAACCTG CAAC	59.8	330	DRR	Ca_02947	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_4975842	Ca7	4975842	CATATATATATATATATA/CATATATAT ATATATA	TGTCCAAACAAGTCGC TCTC	TCAAACATCAAACCTGG AAGGG	59.0	725	INTERGENIC	--	--	--
Ca7_P1_4978475	Ca7	4978475	CCATATATA/C	GGACCCAATGCAAAGA AGAA	ATGTGACGTTGATTGG GGAT	60.1	655	INTERGENIC	--	--	--
Ca7_P1_4983599	Ca7	4983599	CAAAAAAAAA/CAAAAAAAAA	TGTTGCCACAACCTCAA AAATG	TAGTACTCGTACCCGC ACCC	59.6	562	INTERGENIC	--	--	--
Ca7_P1_4999972	Ca7	4999972	GAAAAAAAAAAAA/GAAAAAAAAAAAA	CCTCAGATGAGAGCCA GGAC	TTGGTTGTAAACCCCC GTTT	59.9	453	INTERGENIC	--	--	--
Ca7_P1_5014340	Ca7	5014340	CAA/CAAA	AATACCACCACCGACC ACAT	AATGAGCTCCAACGGT CATC	60.0	787	INTERGENIC	--	--	--
Ca7_P1_5020613	Ca7	5020613	CAAAAAAAAA/CAAAAAAAAAAAAA	GATGCAGGTCATGAAA CCAA	TATGAGTGGTGGTGG GGATT	59.5	542	INTERGENIC	--	--	--
Ca7_P1_5024430	Ca7	5024430	ATT/ATTT	CCCCGCATGTATTATT GGAG	ACCCACATCCGTTTCA TAGC	60.2	294	INTERGENIC	--	--	--
Ca7_P1_5024464	Ca7	5024464	ATTTTT/ATTTTTTT	CCCCGCATGTATTATT GGAG	ACCCACATCCGTTTCA TAGC	60.2	294	INTERGENIC	--	--	--
Ca7_P1_5029422	Ca7	5029422	ATT/AT	GTGCCAAATTGGACCT ATGC	GAGTCACACACCCCG AGAA	60.3	626	INTERGENIC	--	--	--
Ca7_P1_5033957	Ca7	5033957	AATATATATATATATATAT/AAATATA TATATATATATATATATATATATAT	TGGATCGTGTCTTGAT CATTG	AATAAACCGTTGCAAG TGGG	59.5	592	INTERGENIC	--	--	--
Ca7_P1_5034485	Ca7	5034485	ATTTTTTTTT/ATTTTTTTTTTT	CCCACTTGCAACGGTT TATT	TGAGGTAAGCTTTGCA TCATGT	59.9	837	INTERGENIC	--	--	--
Ca7_P1_5039481	Ca7	5039481	TAAAAAAAAA/TAAAAAAAAA	CCGTAGGCATCCAAC CTAA	GAGAAAGAGTGAGGC GGTTG	60.0	327	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_5052948	Ca7	5052948	ACCCCC/ACCCCCC	TGAGGACTGGACGTAG CCTT	TTAGAGCCTCTGCCAT TTCG	59.9	409	DRR	Ca_06860	--	--
Ca7_P1_5078932	Ca7	5078932	CAGGTA/CA	TTTTGGTACTTTTGG GGTCA	GAAGCATCAGGGGT GAAAA	59.3	410	DRR	Ca_06857	--	--
Ca7_P1_5089296	Ca7	5089296	ATTTTTTTTT/ATTTTTTTTT	TTTTTCGTGGTCATC CACA	CACATTTCTCTTTT TGCC	59.9	847	INTERGENIC	--	--	--
Ca7_P1_509621	Ca7	509621	ATTTTTTT/ATTTTTTT	AGCATCAGCTGCTGGT TTTT	GCACCAACCAAGCCT ATGT	60.0	646	INTERGENIC	--	--	--
Ca7_P1_5100432	Ca7	5100432	ATTTTTTTTT/ATTTTTTTTT	TAATCATCCTCGGTT GAGG	AAACGCTTACACGTT AATCC	59.9	539	DRR	Ca_06856	--	--
Ca7_P1_5136940	Ca7	5136940	TAAAAAAAA/TAAAAAAAA	GGCTTAAGAGAGGG GCTTA	TCGAAGTTTGGTAGG GTGG	59.8	525	INTERGENIC	--	--	--
Ca7_P1_5140984	Ca7	5140984	GTTTTTTTT/GTTTTTTTT	CCCCTTCTATTCAGCT TCCC	TTGAGCCAATTGACCT ACCC	60.0	612	INTERGENIC	--	--	--
Ca7_P1_5156628	Ca7	5156628	TAAAAAA/TAAAAAA	GGCGTTGGTTCACTC AAAT	GTCACCGTGCTCCAT ACTT	60.0	217	INTERGENIC	--	--	--
Ca7_P1_5166952	Ca7	5166952	CAAAAAAAAA/CAAAAAAAAA	GATTGCATGTAGCCCA AGGT	GGATTACGATCCGTGG CTAA	60.0	258	INTERGENIC	--	--	--
Ca7_P1_5179335	Ca7	5179335	CAAAAAAAAA/CAAAAAAAAA	AGATAAGCCACAATCC GCC	TCCCATTCATTTAATA GCCAA	60.1	449	INTERGENIC	--	--	--
Ca7_P1_5180934	Ca7	5180934	ATTTTTTT/ATTTTTTT	TTGAGACATTTGTAA TCTAATGGA	GCAATTTGGTACCGC TGTT	58.3	842	INTERGENIC	--	--	--
Ca7_P1_5198584	Ca7	5198584	TAAA/TAA	AAAACGAATTTTGG GATCTTGA	CATTCTCCTCCCCT TCCT	60.1	642	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_5202615	Ca7	5202615	TAAAAAAAA/TAAAAAAAAA	TGAAAAGATTTAAACAA ACAAAAGGA	AAACTGCATTTAAGC CTCTCTT	59.5	736	INTERGENIC	--	--	--
Ca7_P1_5210341	Ca7	5210341	GTATATATATATAT/GTATATATATA TAT	GTTTGGAGCAAAGGAG GTCA	TGAGTGTGTTGGGTG GAAA	60.2	674	INTERGENIC	--	--	--
Ca7_P1_5254880	Ca7	5254880	CTTTT/CTTT	TGGGCTGGACTATACA AGGG	CACGGCCATTTTCATC TCTT	59.9	705	DRR	Ca_06846	C	--
Ca7_P1_5257822	Ca7	5257822	TTATATATATATATATATATA/TTATA TATATATATATATATA	GTCGACGCACCTCAAC CTAT	TGGTGGTTGCTTGTG GTAAA	60.1	860	DRR	Ca_06845	--	--
Ca7_P1_5292457	Ca7	5292457	ATCTCTCTCTCTC/ATCTCTCTCTC TCTCTC	AAACAGTGTGTGGAA GGGG	CAACATGTTTTCGTCG ATGG	59.9	520	INTERGENIC	--	--	--
Ca7_P1_5292622	Ca7	5292622	TGTCGTCGTCGTCGTCGTC/TGTCGT CGTCGTCGTCGTCGTC	AAACAGTGTGTGGAA GGGG	CAACATGTTTTCGTCG ATGG	59.9	520	CDS (large-effect mutations)	Ca_06840	D	TCP
Ca7_P1_5342023	Ca7	5342023	CTTTTTTT/CTTTTTTT	GGCATAACCGCGAAAC TTTA	CATGAAATCAAACAAC ACCACA	60.1	506	INTERGENIC	--	--	--
Ca7_P1_5343899	Ca7	5343899	CTTTTTTTTT/CTTTTTTTTTTT	TGAGGTGATGTGTCCA TTGAG	TGCAGAGACAAGCAC ATTG	59.5	477	INTERGENIC	--	--	--
Ca7_P1_5370168	Ca7	5370168	CAAA/CAA	GGGGTGATTTAGCAA GGCA	TCAAAGCACTCAAC TCGTTC	60.0	369	INTERGENIC	--	--	--
Ca7_P1_5374228	Ca7	5374228	G/GC	ATGCAATGTGGGTGTG CTTA	GATTGAGCCCCGTATC TTGA	60.0	367	INTRON	Ca_06834	A	--
Ca7_P1_5379802	Ca7	5379802	CAAAAAA/CAAAAAAA	TGGTCAGGATCACGCT AACA	AACGAATGGCCAACTT CAAT	60.3	688	DRR	Ca_06834	A	--
Ca7_P1_5380199	Ca7	5380199	TAAAAAA/TAAAAAA	ATTGAAGTTGCCATT CGTT	TGTTGCCACGTGTAC CTTA	59.4	554	DRR	Ca_06834	A	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_5398119	Ca7	5398119	GTTT/GTT	CATGGATTGCATTGT TTCG	TTGAATCAGCTCAGCC AGTG	59.9	752	INTRON	Ca_06830	R	--
Ca7_P1_5398164	Ca7	5398164	CA/CAA	CATGGATTGCATTGT TTCG	TTGAATCAGCTCAGCC AGTG	59.9	752	INTRON	Ca_06830	R	--
Ca7_P1_5398913	Ca7	5398913	AA/AATAATA	CTTTTCCTTGCTGCTG ATGA	TCGCTTCACCTCCATC TTCT	60.0	348	INTRON	Ca_06830	R	--
Ca7_P1_5398943	Ca7	5398943	TAATAA/TAATAACAATAA	CTTTTCCTTGCTGCTG ATGA	TCGCTTCACCTCCATC TTCT	60.0	348	INTRON	Ca_06830	R	--
Ca7_P1_5399126	Ca7	5399126	CAAAA/CAAAAA	CTTTTCCTTGCTGCTG ATGA	AGGTGAGTGGGCTAT GTTGG	60.0	819	INTRON	Ca_06830	R	--
Ca7_P1_5399259	Ca7	5399259	GA/GAA	AGAAGATGGAGGTGAA GCGA	AGGTGAGTGGGCTAT GTTGG	60.0	491	CDS (FRAME SHIFT)	Ca_06830	R	--
Ca7_P1_5401562	Ca7	5401562	TTATATA/TTATA	CAACTGCATCCCCATC TTCT	CATACTCCTCCCTCG ATGA	60.1	440	INTRON	Ca_06830	R	--
Ca7_P1_540192	Ca7	540192	C/CAT	TGAGGCAATTTTGGTG ACAA	ATACCCTCATGCCACA TGGT	60.1	421	INTERGENIC	--	--	--
Ca7_P1_5405233	Ca7	5405233	AC/A	TGGCCTCTCTGAAACG ATCT	TCCCTTTCCAGAATTG GATG	59.8	905	INTERGENIC	--	--	--
Ca7_P1_5405644	Ca7	5405644	AATATAT/AATATATAT	GCGATGGAAGAAAAGT TGGA	AACGTGCAACAATATC GCAA	60.2	245	INTERGENIC	--	--	--
Ca7_P1_5405692	Ca7	5405692	TTTGACCTTG/TTTG	GCGATGGAAGAAAAGT TGGA	TTGGACTAATAGTTGC GGGG	60.2	588	INTERGENIC	--	--	--
Ca7_P1_5406057	Ca7	5406057	TAT/TATAAT	TTGCGATATTGTTGCA CGTT	TTGGACTAATAGTTGC GGGG	60.1	363	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_5407056	Ca7	5407056	A/AT	AAAAAGGCTGCAAAAG CAAA	CGGTGAAATCCACTC CCTA	60.0	782	INTERGENIC	--	--	--
Ca7_P1_5409249	Ca7	5409249	TTTATTATT/TTTATT	GTGAGAAGATTGTGCA TCGG	TACAATCCAAGAACCC CTGG	59.2	687	INTERGENIC	--	--	--
Ca7_P1_5417765	Ca7	5417765	TCC/TC	CCAGATTAGCTTGCCA AGGA	GGACCCCTTCACGAAG TTCA	60.3	788	DRR	Ca_06827	T	WRKY
Ca7_P1_5418013	Ca7	5418013	ACTA/ACTAATGTATAATCTA	TGTGAACTCACGTTTC ACCA	GGGACCTTCTACTTAC CCGC	58.7	517	DRR	Ca_06827	T	WRKY
Ca7_P1_5424146	Ca7	5424146	ACTC/ACTCTC	GCATTTGGGACATGCC TACT	ACCCACCTCCCGATCT TTAG	60.0	592	INTRON	Ca_06826	K	MYB_related
Ca7_P1_5424613	Ca7	5424613	TAAAAAAAA/TAAAAAAAAA	ACCTAAAGATCGGGAG GTGG	GCGAGTTTACGTTGAC CCAT	60.3	593	INTRON	Ca_06826	K	MYB_related
Ca7_P1_5427245	Ca7	5427245	TAAAA/TAA	AACAACCATAGCACCC AAGC	TCGGAACGGAACCTCT AAAA	60.0	355	INTRON	Ca_06826	K	MYB_related
Ca7_P1_5429372	Ca7	5429372	ATT/ATTT	AAAGCGAGATGGAAA GTTG	TTGGTGTGATTCTGTA CCAT	59.3	741	INTERGENIC	--	--	--
Ca7_P1_5433890	Ca7	5433890	GTTTTTTTT/GTTTTTTTTTT	TCATCCCCTCCCCTAT AACC	TCCAATGGCATAATTG GAAA	60.0	342	INTERGENIC	--	--	--
Ca7_P1_5433962	Ca7	5433962	TT/TTGAATAATTCTGT	TCATCCCCTCCCCTAT AACC	TCCAATGGCATAATTG GAAA	60.0	342	INTERGENIC	--	--	--
Ca7_P1_5434245	Ca7	5434245	ATTTTTTT/ATTTTTTTT	CCAATTATGCCATTGG AATT	TCAAATTCAAAATCACA ACGCT	58.7	685	INTERGENIC	--	--	--
Ca7_P1_5434750	Ca7	5434750	AG/A	GCGTTGTGATTTTGAA TTTGA	CATGTTCCACTTCGAG GAAT	58.7	524	DRR	Ca_06825	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_5434792	Ca7	5434792	CTTT/CTTT	GAAAGAGGATCAACCC GACA	CATGGTCCACTTCGAG GAAT	60.1	466	DRR	Ca_06825	--	--
Ca7_P1_5435049	Ca7	5435049	AT/A	GAAAGAGGATCAACCC GACA	CATGGTCCACTTCGAG GAAT	60.1	466	DRR	Ca_06825	--	--
Ca7_P1_5435116	Ca7	5435116	TA/T	GAAAGAGGATCAACCC GACA	CATGGTCCACTTCGAG GAAT	60.1	466	DRR	Ca_06825	--	--
Ca7_P1_5435170	Ca7	5435170	CATAT/CAT	GAAAGAGGATCAACCC GACA	CATGGTCCACTTCGAG GAAT	60.1	466	DRR	Ca_06825	--	--
Ca7_P1_5435223	Ca7	5435223	GTTT/GTT	GAAAGAGGATCAACCC GACA	TGGGTATGTTATCGGC CCTA	60.1	506	DRR	Ca_06825	--	--
Ca7_P1_5436041	Ca7	5436041	GTTTTTTTTT/GTTTTTTTTT	TGTTTAGATGTGGTG TGCTG	CAAGCAGGTATGTGAG GGGT	59.6	721	DRR	Ca_06825	--	--
Ca7_P1_5437399	Ca7	5437399	CTTT/CTTT	CACACGGGTGGAAGA GATT	TTGATGAAACGGAAGA GGCT	60.0	143	INTERGENIC	--	--	--
Ca7_P1_5437914	Ca7	5437914	GTA/GTAAATTGATA	GACGGACGGTTGGACT ATTG	TGACCATATAATTTG GAGGTTTTT	60.4	780	INTERGENIC	--	--	--
Ca7_P1_5443791	Ca7	5443791	TATAAATAAATAAATAAATAAATAA TAA	TATTTGCGAGCGTGTC TTCA	TTTTGATGCTTTTCCA CCA	60.5	516	INTERGENIC	--	--	--
Ca7_P1_5443871	Ca7	5443871	TAAAA/TAAAAA	TATTTGCGAGCGTGTC TTCA	TTTTGATGCTTTTCCA CCA	60.5	516	INTERGENIC	--	--	--
Ca7_P1_5445444	Ca7	5445444	ATTTTTTTTT/ATTTTTTTTT	AATCCACATGTTGGAG GGAC	GCACGAAGAATGAGA GGGAG	59.6	745	INTERGENIC	--	--	--
Ca7_P1_5445507	Ca7	5445507	AA/AAGA	AATCCACATGTTGGAG GGAC	GCACGAAGAATGAGA GGGAG	59.6	745	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca7_P1_5445796	Ca7	5445796	CAAAAAA/CAAAAA	CGAATATTTATGAACG TGGTCC	GCACGAAGATGAGA GGGAG	58.4	185	INTERGENIC	--	--	--
Ca7_P1_5446544	Ca7	5446544	ATATTTATTTATTTATTTATTTAT TTATT/ATATTTATTTATTTATTTA TT	CCCTTTTCGGAATTTC ATTT	CACAAAGCCTTCTTTC CTGC	60.1	527	INTRON	Ca_06824	--	--
Ca7_P1_5455617	Ca7	5455617	TA/TAA	TGGATGCTAAAAATCA TTCAAA	AAATTTGGCCACCAA AGAA	57.3	572	INTRON	Ca_06822	--	LSD
Ca7_P1_5456078	Ca7	5456078	TGGAGGGAG/TGGAG	GCGAAGTTGCATATGA GTGG	AACGGACGCAAAAGAA TTTTA	59.3	226	INTRON	Ca_06822	--	LSD
Ca7_P1_5459177	Ca7	5459177	ATTTTTTTTT/ATTTTTTTTTT	GAAAAAGTTGCAATC CGAA	TCAAGGTGTTGGGTT TGTG	60.1	817	INTERGENIC	--	--	--
Ca7_P1_5461440	Ca7	5461440	TAAA/TAAAA	TTTGTGCCTATTTGC ACAG	AACCCACTTGGCACAA AAAG	59.7	343	INTERGENIC	--	--	--
Ca7_P1_5461787	Ca7	5461787	GAAAAAA/GAAAAAAA	CTTTTTGTGCCAAGTG GGTT	CAAATAACCCCGATC GAAA	60.0	433	INTERGENIC	--	--	--
Ca7_P1_5465549	Ca7	5465549	TAACCGGAA/TAA	AGTCCTAATGCGGCTG TGAT	ATGTGGGAATTGTGGC ATTT	59.7	207	DRR	Ca_06821	--	--
Ca7_P1_5465819	Ca7	5465819	TA/TAA	AAATGCCACAATTCCC ACAT	ATGTCATCAAAGACAG GGGC	60.1	645	DRR	Ca_06820	--	--
Ca7_P1_5466629	Ca7	5466629	T/TA	CTCCCAAAGAAATCCA ACGA	TTGTGCCACATGCTCA AAAT	60.0	582	DRR	Ca_06821	--	--
Ca7_P1_5469909	Ca7	5469909	CTATTA/CTATTAGTATTA	GGGATCTATTA AAAAC CGAACCA	TTTTGTTTTGTCTTGA AACTCG	60.4	488	INTERGENIC	--	--	--
Ca7_P1_5470006	Ca7	5470006	TTATATATATAT/TTATATATAT	GGGATCTATTA AAAAC CGAACCA	TGGAATTGTCCACCAC AACA	60.4	632	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_5470139	Ca7	5470139	TA/T	GGGATCTATTA AAAAC CGAACCA	CCGGTAGAGGAAC GTACG	60.4	762	INTERGENIC	--	--	--
Ca7_P1_5478957	Ca7	5478957	GTT/GTTT	CGGCGATGTTGTTT ACCT	AAGCATCGAACCCGA ACAT	60.0	210	INTRON	Ca_06818	U	B3
Ca7_P1_5481931	Ca7	5481931	AATATATATATATATATATATATATA TATA/AATATATATATATATATATA	TCTTGTGTGATGGAT ACTCTCG	TGCTTGTGATTACCT TAATTTCC	59.3	496	INTERGENIC	--	--	--
Ca7_P1_5482693	Ca7	5482693	TATT/TATTTTATAATT	TTCGTGTAGTTGATTC AAACCAT	AACAAAAGGCAATAAA TGAACCTGA	58.6	576	INTERGENIC	--	--	--
Ca7_P1_5482708	Ca7	5482708	ATTTT/ATTT	TTCGTGTAGTTGATTC AAACCAT	AACAAAAGGCAATAAA TGAACCTGA	58.6	576	INTERGENIC	--	--	--
Ca7_P1_5484348	Ca7	5484348	TTATATATATATA/TTATATATATA	AAAGAAGAAGAAAATA AAGCAAATCA	TTTTTGGCAGACACGG AGTA	58.3	216	INTERGENIC	--	--	--
Ca7_P1_5492251	Ca7	5492251	AT/A	TGGACATGTTCCATTG GTTG	GCTCCTCCAAATTGA TTGG	60.2	363	INTERGENIC	--	--	--
Ca7_P1_5492681	Ca7	5492681	ATTTTTTT/ATTTTTT	CCAATCAATTTTGAG GAGC	GAATGTGTGGCATACA CTGAAA	59.5	534	INTERGENIC	--	--	--
Ca7_P1_5494462	Ca7	5494462	TTTCTTCTTCTTCTT/TTTCTTCTTCTT CTTCTT	TTTTGGTTTGGGTTCT TTGG	TCAATCCTGCACTACC CCTC	59.8	218	INTERGENIC	--	--	--
Ca7_P1_5503857	Ca7	5503857	CAAAAAAAAA/CAAAAAAAAA	GGGAAGCTTGAGATGT TGGA	CATCTAACCGGAGGTA CCGA	60.2	603	INTRON	Ca_06816	BK	G2-like
Ca7_P1_5518033	Ca7	5518033	ATATTATCTAACATTTT/AT	TCGTGTCAGGAAAGAC CACC	TCATGTGGTGTGGCG TACT	61.1	349	DRR	Ca_06815	R	MYB_related
Ca7_P1_5518159	Ca7	5518159	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA	TCAGGAAAGACCACCA ACAA	ATCTGGCCCAAAATCA ACAA	59.1	769	DRR	Ca_06815	R	MYB_related

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_5518417	Ca7	5518417	CTTTT/CTTTT	AGTACGCCAACACCAC ATGA	ATCTGGCCCAAATCA ACAA	60.0	445	DRR	Ca_06815	R	MYB_related
Ca7_P1_5524205	Ca7	5524205	CATGGAAAAATGAAAAATG/CATGGA AAAATG	AGGCCTGAACACAGTG GAAC	AAGGAACCGTGTGAAC CAAG	60.2	248	DRR	Ca_06814	--	TCP
Ca7_P1_5524631	Ca7	5524631	ATACAATTTTACAATTT/ATACAATTT TTACAATTTTACAATTT	CTTGGTTCACACGGTT CCTT	CAAAACGCGAATTGCT ATGA	60.0	840	DRR	Ca_06814	--	TCP
Ca7_P1_5525070	Ca7	5525070	CTTTTT/CTTTTTT	CTTTGACGAAAATCAT GGGC	CCCAAAGCGAGAATCA TACC	60.4	377	DRR	Ca_06814	--	TCP
Ca7_P1_5525528	Ca7	5525528	AT/ATT	AATGTCAAGGGCATT GGTC	CGGTTTTTGGACATGA GAAA	59.8	624	INTERGENIC	--	--	--
Ca7_P1_5530578	Ca7	5530578	CATTAT/CAT	ACCTTGGCAACCTCTC TCAA	CCGTGCGTATGGTCCT TAAA	59.8	581	INTRON	Ca_06812	G	--
Ca7_P1_5540529	Ca7	5540529	ATTTTTTT/ATTTTTT	TGTATCCATCTTTCGAA CACCTT	TGCACAACTCCAACA TTGA	59.9	391	DRR	Ca_06810	R	G2-like
Ca7_P1_5540728	Ca7	5540728	TC/T	TCAATGTTGGAGTTTG TGCAT	CGCATATCAACATTG CAGC	59.0	569	DRR	Ca_06810	R	G2-like
Ca7_P1_5540919	Ca7	5540919	T/TTATTA	TCAATGTTGGAGTTTG TGCAT	GCCAATTGCCTAGCAG TAGC	59.0	645	DRR	Ca_06810	R	G2-like
Ca7_P1_5541418	Ca7	5541418	ATTTTTTT/ATTTTTT	GCTGCAATGTTTGATA TGCG	TTCGTGGCAAAGTTAG TCCC	60.2	706	DRR	Ca_06810	R	G2-like
Ca7_P1_5546397	Ca7	5546397	CTTT/CTTTT	GGCAGCTCTAGCAAGC TGTT	GAGTGGGAGGAGCAA ATGAG	59.9	601	INTERGENIC	--	--	--
Ca7_P1_5554981	Ca7	5554981	CTTT/CTT	GCAATCCTCGTGAAT TGTT	CAGAGTTTGCAGAAA AGCA	60.1	448	INTRON	Ca_06808	F	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_5555064	Ca7	5555064	AGGG/AGG	GCAATCCTCGTCGAAT TGTT	CAGAGTTTGGCAGAAA AGCA	60.1	448	INTRON	Ca_06808	F	--
Ca7_P1_5564095	Ca7	5564095	ATTTTTTTTT/ATTTTTTTTT	TTATGCCACTAAGCA CCCC	TGGCGGATGTGTATGT TGAT	60.0	429	DRR	Ca_06808	F	--
Ca7_P1_5572175	Ca7	5572175	TAAAAAAAAAAAAAAAAA A	TGTCAAATGTGAGGAA GCCA	TAGGGACCCATATGCA AAAA	60.2	641	INTERGENIC	--	--	--
Ca7_P1_5572652	Ca7	5572652	ATTTTTTTTT/ATTTTTTTTT	AAAAATGGCGTTCATC AATG	TTTGCCAAATTTTAGG GACC	59.8	502	INTERGENIC	--	--	--
Ca7_P1_5572728	Ca7	5572728	GTTTAATTTTAATTTTAATTTA/GTTT AATTTAATTTTA	ATGGGTCCCTAAAAAT TGCC	GCTTGTTACTTATATTC AGAGGGCA	60.0	559	INTERGENIC	--	--	--
Ca7_P1_5573076	Ca7	5573076	TT/TTAT	ATGGGTCCCTAAAAAT TGCC	CGAGACGCGTCAAAACA CATA	60.0	699	INTERGENIC	--	--	--
Ca7_P1_5574111	Ca7	5574111	CAT/CATAT	CTTTGCTCCCCGTTAT TTTT	AGCTTTTGCCCCCATA TTTT	58.3	381	INTERGENIC	--	--	--
Ca7_P1_5575534	Ca7	5575534	ATTTTTTTTT/ATTTTTTT	GGTGAAGGAGAAATGC AAGAA	TTATTAACGTGGGTGT GGGC	59.3	556	INTERGENIC	--	--	--
Ca7_P1_5578208	Ca7	5578208	AG/AGAATGAATG	ATGGGAAATTGTGAAT GGGA	TGCCCCGTTAGTCAATG TTTG	60.0	435	DRR	Ca_06805	--	--
Ca7_P1_5582721	Ca7	5582721	AATATATATATATATATATATATATA T/AATATATATATATATATATATATAT ATATATATAT	TGCCCACTCATTGGC TATT	AAGACGGTCTGGTAAC GACG	60.5	494	INTERGENIC	--	--	--
Ca7_P1_5585752	Ca7	5585752	TAAAAAAAAA/TAAAAAAAAA	ATTACACAGACCAAAA ACCT	TGATGAGATGTATTCG ATGCAA	57.0	496	DRR	Ca_06804	--	--
Ca7_P1_5628001	Ca7	5628001	ATTTT/ATTT	CTGATGCTACAGCCAC TGGA	TCCCAATAAATACCAA CCCG	60.0	680	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_5628019	Ca7	5628019	CAAAAA/CAAAAAA	CTGATGCTACAGCCAC TGGA	CCCAATAATACCA CCCG	60.0	680	INTERGENIC	--	--	--
Ca7_P1_5628630	Ca7	5628630	GAAAAAAAA/GAAAAAAAA	CGGGTTGGTATTATT GGGA	ATTGAGTTGATCACTC GGGG	59.5	678	INTERGENIC	--	--	--
Ca7_P1_5631722	Ca7	5631722	AAATTAA/AAA	GACCATTGGAATCAGG GAGA	TGTTTAAATTTGCCAT TGACCTG	59.9	534	DRR	Ca_06796	GC	HSF
Ca7_P1_5632282	Ca7	5632282	ATTTTTT/ATTTTTTTT	TTTTATCAGGTCAATG GACAATT	ATTTTGTGGTTGGC TTGC	58.8	533	DRR	Ca_06795	K	Trihelix
Ca7_P1_5633058	Ca7	5633058	T/TAAG	GCAAGCCAACCACAA AAAT	ACAGGCGCTTCCTTCT TGTA	60.0	386	DRR	Ca_06796	GC	HSF
Ca7_P1_5635477	Ca7	5635477	TAAAAAAAA/TAAAAAAAA	ATGAATGGTTTGGTG TGGT	TCATTTAACACCTTCC AGTTC	60.0	790	INTERGENIC	--	--	--
Ca7_P1_5636086	Ca7	5636086	GTTTTTTTTTTTTT/GTTTTTTTTT TT	TTGTGTCATGAAAAAG ATGGA	TGGATCAAAATCTGGA GTGTCA	59.1	520	INTERGENIC	--	--	--
Ca7_P1_5648526	Ca7	5648526	TAAAAAAAA/TAAAAAAAA	TGTGCACCAACAAAC ATCA	TGGGGGATGACATGTA CCTT	59.6	448	INTERGENIC	--	--	--
Ca7_P1_5649774	Ca7	5649774	CTTTTTTTT/CTTTTTTTT	AAGGGAATGCATTGTC TCTCA	TTTGTATGTGTGGCT TGATGTA	59.7	359	INTERGENIC	--	--	--
Ca7_P1_5650298	Ca7	5650298	GTGTGTGTGTATAT/GT	TCACTACAAGCCACAC ATAACAAA	TCGAGTGAACGTGGAA GATG	59.6	587	INTERGENIC	--	--	--
Ca7_P1_5650363	Ca7	5650363	AAATAATAATAATA/AAATAATAATAAT AATA	TCGTTCCCTCTGAAAT GAAA	TCGAGTGAACGTGGAA GATG	58.3	239	INTERGENIC	--	--	--
Ca7_P1_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/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_5654720	Ca7	5654720	ATTTTTTTTT/ATTTTTTTTT	GTATTACGTGACAGCC GCAA	TCAATCAACAATTTTG GTCATTATT	59.8	692	DRR	Ca_06793	GC	HSF
Ca7_P1_5658039	Ca7	5658039	CATATATATATATATA/CATATATATAT ATATATATA	TGGATCACAACCTGCTT TTCG	CAGCAGAATTCGCTAC ACCA	59.8	646	DRR	Ca_06792	GC	HSF
Ca7_P1_5658128	Ca7	5658128	TAG/TAGAG	AGGGTTTGCAAACTG GCTA	CAGCAGAATTCGCTAC ACCA	59.7	527	DRR	Ca_06792	GC	HSF
Ca7_P1_5658172	Ca7	5658172	CAAA/CAA	AGAAGGTGGCTCGTCA CATC	ACATTCCAGATCCA GCAG	60.3	508	DRR	Ca_06792	GC	HSF
Ca7_P1_5658223	Ca7	5658223	TTTAATTA/TTTA	CTGCTGGATCTGGGAA ATGT	TCTTGCTATTGGCTGC AGTG	60.1	334	DRR	Ca_06792	GC	HSF
Ca7_P1_5658804	Ca7	5658804	TTTTATTTA/T	CACTGCAGCCAATAGC AAGA	TCGTTTTCAACCTAAA CCCA	60.2	495	DRR	Ca_06792	GC	HSF
Ca7_P1_5658883	Ca7	5658883	T/TGA	CACTGCAGCCAATAGC AAGA	TCGTTTTCAACCTAAA CCCA	60.2	495	DRR	Ca_06792	GC	HSF
Ca7_P1_5666410	Ca7	5666410	GTTTTTTTTTT/GTTTTTTTTTT	ATTTTGAGGCAGTTGC TGGT	TGGGATGAAATCCAAA CAAA	59.7	571	DRR	Ca_06791	GC	HSF
Ca7_P1_5667315	Ca7	5667315	TAAAAAAA/TAAAAAA	GCCAGCTCTTTTGTG GTCT	CGGCACGAATACGAG TATGA	59.6	376	DRR	Ca_06791	GC	HSF
Ca7_P1_5668000	Ca7	5668000	TAAAAAAAAA/TAAAAAAA	TCATACTCGTATTGCT GCCG	CAGGGTCCTTGTGCT GATTT	59.7	764	INTERGENIC	--	--	--
Ca7_P1_5671646	Ca7	5671646	CAAAA/CAAAAA	TTTAAATGACACTGGG CGTG	TGGTGTAATATGGCA GCGA	59.6	612	DRR	Ca_06790	--	C2H2
Ca7_P1_5673272	Ca7	5673272	TTAGTTGATAAATAGTTGATAAATA/TT AGTTGATAAATA	GCACCTCCAACAGAA CAAT	AGTGACAAAGGGCAG ATGCT	60.0	727	DRR	Ca_06790	--	C2H2

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_5683344	Ca7	5683344	TGC/T	TTTATTGATGGGTGG GGAA	CAGACAGCAGTTGGA GTGGA	60.0	795	DRR	Ca_06788	Q	--
Ca7_P1_5684194	Ca7	5684194	CTTTTTTTTTTTTT/CTTTTTTTTTTT	TGGAAGTGAAGCATCT GACG	TTTGTTCCTTGCACTG GGGA	60.0	830	DRR	Ca_06789	K	--
Ca7_P1_5684308	Ca7	5684308	A/AT	TGGAAGTGAAGCATCT GACG	TTTGTTCCTTGCACTG GGGA	60.0	830	DRR	Ca_06789	K	--
Ca7_P1_5684395	Ca7	5684395	TTAT/TTATAT	CGTTCAAGCTTGTCGT GAAA	GAGATGTTCAATGGCC TGGT	60.0	716	DRR	Ca_06789	K	--
Ca7_P1_5686519	Ca7	5686519	ATAATCTA/ATA	ATTATAACACCGGCTC GCAC	CCATCCCAAAATTTAT GTCCC	60.0	279	INTRON	Ca_06788	Q	--
Ca7_P1_5689123	Ca7	5689123	AT/ATGT	TCAACATGCAAGATGG AGGA	GTGCTCATAGGCCCAA TGTT	60.2	461	INTERGENIC	--	--	--
Ca7_P1_5694655	Ca7	5694655	ATTTTTTTTT/ATTTTTTTTTTTTT	GGAATTCTGTTTGCAA GGGA	AACCCATCACTTGCTG ATCC	60.1	627	INTERGENIC	--	--	--
Ca7_P1_5694761	Ca7	5694761	TAAAAA/TAAAAAA	GGAATTCTGTTTGCAA GGGA	AACCCATCACTTGCTG ATCC	60.1	627	INTERGENIC	--	--	--
Ca7_P1_5698697	Ca7	5698697	ATT/ATTTT	AAGTCGATTACGATCC ACGC	CCCCCTTAAAGACAA TTCAAA	60.1	430	INTERGENIC	--	--	--
Ca7_P1_5698854	Ca7	5698854	T/TC	AAGTCGATTACGATCC ACGC	CCCCCTTAAAGACAA TTCAAA	60.1	430	INTERGENIC	--	--	--
Ca7_P1_5700256	Ca7	5700256	ATTTTTTT/ATTTTTTTTT	GGCATACAAAGGTCGG TCAT	CACATGAGAGCTGCAC ACAG	59.8	364	INTERGENIC	--	--	--
Ca7_P1_5702596	Ca7	5702596	TAAAAAAA/TAAAAAAA	TATGCCACGCCATAAG ATGA	GGCCCAACAAGAAGT TATCC	60.1	726	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_5702622	Ca7	5702622	GTATATATA/GTATATA	TATGCCACGCCATAAG ATGA	GGCCCAACAAGAAGT TATCC	60.1	726	INTERGENIC	--	--	--
Ca7_P1_5716343	Ca7	5716343	CAAA/CAA	CGTGCACTCGTATTGCA GTCT	AATTCGGTAATTTTG ATGGA	59.9	507	INTERGENIC	--	--	--
Ca7_P1_5717190	Ca7	5717190	CTTTTTTTTTTTTT/CTTTTTTTTTTT	ACCAAACTCTATCCC CTTAAAA	CCACTCTCAAAGTCAA TGGC	57.4	620	INTERGENIC	--	--	--
Ca7_P1_5717454	Ca7	5717454	ATTT/ATTTTTATTTTTATTTTTT	TGAGAAATCAAATGTAT CCACGTT	CTTCCTGGCTGAGAGA ATGC	58.5	631	INTERGENIC	--	--	--
Ca7_P1_5718733	Ca7	5718733	TAAAAAA/TAAAAAA	TTTTGGTGGAAGCATC CTAGA	TTTCAAAATGTTCCG TGGA	59.7	620	INTERGENIC	--	--	--
Ca7_P1_5719119	Ca7	5719119	CTATA/CTATATA	GAGTCCACCGAACATT TTTGA	TTGGGTCTGTGTGTT CCAA	60.0	431	INTERGENIC	--	--	--
Ca7_P1_5719975	Ca7	5719975	ATGCTATTGCTATTGCTAT/ATGCTAT TGCTATTGCTATTGCTAT	TTGAAACACACAGAC CCAA	AAACCAAGAGCCAGA AGCA	60.0	806	INTRON	Ca_06785	R	FAR1
Ca7_P1_5734568	Ca7	5734568	AC/A	AGCAAGCAAAAATGGC CTAA	GTAATGCAAGAGCTGC CTCC	59.9	500	DRR	Ca_06783	T	WRKY
Ca7_P1_5758513	Ca7	5758513	AAATGAT/AAATGATAATGAT	CGGGAAAATATGCTCA AGGA	GGGAAAAGTGGCAGA CTTCA	60.0	543	INTERGENIC	--	--	--
Ca7_P1_5765292	Ca7	5765292	ATTT/ATT	AAGACACTCACCACCC CAAC	GGTGATCCCTTTGATC CTGA	59.9	304	INTRON	Ca_06782	R	--
Ca7_P1_5778254	Ca7	5778254	AAACAA/AAACAACAA	CAATCCATCCACTCTT CACAA	CTGCAAAAACCTCTT CTCG	60.0	910	INTERGENIC	--	--	--
Ca7_P1_5779009	Ca7	5779009	ATTTTTTT/ATTTTTTTTT	GCTGAAGCCAGTTTCT GGAC	CACACAAACCAAGCA ACAC	60.0	458	INTRON	Ca_06780	F	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_5785096	Ca7	5785096	GTCATCATCA/GTCATCA	TTTGCAACTTGTGTCA CCTCT	CGCTCTCTATCTCTCC GCAC	58.4	789	INTERGENIC	--	--	--
Ca7_P1_5785418	Ca7	5785418	GTCT/GT	TGCGGAGAGATAGAGA GCGT	GGGTGATTGATTGTT CTTGC	60.3	206	INTERGENIC	--	--	--
Ca7_P1_5785819	Ca7	5785819	TATTTTTTTTA/T	TGCGGAGAGATAGAGA GCGT	TGCAACGATTAACTT TCCAA	60.3	513	INTERGENIC	--	--	--
Ca7_P1_5786240	Ca7	5786240	TAAAAAAAA/TAAAAAAAA	TTGCATTGGAAAGTT AAATCG	TCCAAATTTGAGTGG CACA	59.2	753	INTERGENIC	--	--	--
Ca7_P1_5790236	Ca7	5790236	CAG/CAGAGAGAAAG	TGAAAGCCATAGCATT GGTG	AACAATGCACCTCCAC ATGA	59.7	611	INTERGENIC	--	--	--
Ca7_P1_5790699	Ca7	5790699	CAATTTAA/CAA	TTTGCCAGTGTGACCA ACAT	ATCGAAGAGCCTTAAA ATGTGT	60.0	575	DRR	Ca_06779	S	--
Ca7_P1_5790768	Ca7	5790768	TTATATATATATATA/TTATATATATA TATA	TCATGTGGAGGTGCAT TGTT	TGGATAATTTATTGAA AGTTAAACGA	60.0	545	DRR	Ca_06779	S	--
Ca7_P1_5791015	Ca7	5791015	CTTTTTT/CTTTTTTTTT	TTTCGGTGGAATTTGA GTTTT	CATGTGCGTGTAACCT CTGGA	59.9	861	DRR	Ca_06779	S	--
Ca7_P1_5791147	Ca7	5791147	AATTTTAAAGT/AATTTTAAAGTAATAA TATTTTAAAGT	CGACATGAATAAATTG AGGATGA	TGATCTGGTTGGTGT GTCC	59.0	988	DRR	Ca_06779	S	--
Ca7_P1_5791330	Ca7	5791330	CTTTTT/CTTTTT	CGTTTTAACTTTCAATA AATTATCCAT	TGATCTGGTTGGTGT GTCC	57.5	671	DRR	Ca_06779	S	--
Ca7_P1_5797493	Ca7	5797493	CTCTTCTTCTTCTTCTTCTACTTC TTCTACTTCTTCTTCTTCTCTCTCTC TTCTTCTTCTTCTTCTTCTTCTCTAC TTCTTCTTCTC	GAGGGTGAGACCGGA CATTAA	GTCTAAACCAACCCCA ACGA	59.9	306	INTERGENIC	--	--	--
Ca7_P1_5799102	Ca7	5799102	TTATAAATATAAA/TTATAAATATAAAT ATAAA	ATGACATGTCTCGAGC TCCC	TTGGCCCTCTTTCTC TCAA	60.2	312	DRR	Ca_06778	R	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_5800832	Ca7	5800832	TTTCTT/TTT	AAAAGCGGGCATTCT AGTT	TTCTAGCATTGTGGCT GTGC	60.1	375	DRR	Ca_06778	R	--
Ca7_P1_5801268	Ca7	5801268	TAAAAAAA/TAAAAAAA	AAACCAGCTCCCATGT CATC	GGCAGGCTAGCTTTG CTTTA	59.9	607	INTRON	Ca_06778	R	--
Ca7_P1_5801415	Ca7	5801415	ATCTCT/ATCTCTCT	AAACCAGCTCCCATGT CATC	TAACGAAAGTGTTC GGGG	59.9	685	INTRON	Ca_06778	R	--
Ca7_P1_5803964	Ca7	5803964	CTCCCCATT/CT	TCAGCGAAATATTTTAT TTTATTCCTT	ATGAGCCGTCGTCGTA TCTC	59.1	561	INTERGENIC	--	--	--
Ca7_P1_5807015	Ca7	5807015	CT/C	AAGAGTGGTCGAAGTG GTGG	CACGCAACAAGCCTCA ATTA	60.2	471	INTERGENIC	--	--	--
Ca7_P1_5807623	Ca7	5807623	TTATA/TTATATA	TAATTGAGGCTTGTG CGTG	GTTTCTTGCCCTTTC ATCC	59.9	449	INTERGENIC	--	--	--
Ca7_P1_5810151	Ca7	5810151	CTTT/CTT	TGGTGCAGCTTATTAT CCCC	CATGCTGACCCATACG ATTCT	59.9	759	DRR	Ca_06777	J	--
Ca7_P1_5816694	Ca7	5816694	ATATGT/AT	TTTGGGTCTTATCAAT AGAGCCT	CGTTACAACCTCTTC CCAA	59.6	771	INTERGENIC	--	--	--
Ca7_P1_5817548	Ca7	5817548	AAATA/AAATAATA	TACGAACCAACACGTG GAAA	ACATTTCCGCGCTTAC AGAT	60.0	312	INTERGENIC	--	--	--
Ca7_P1_5820369	Ca7	5820369	TAAAAA/TAAAAA	TATGTTTCGGGTGACC ATGA	TTTAAATGACAAAGAG GAAGTGTG	59.8	524	INTERGENIC	--	--	--
Ca7_P1_5820405	Ca7	5820405	ATA/ATAGTTTTA	TATGTTTCGGGTGACC ATGA	TTTAAATGACAAAGAG GAAGTGTG	59.8	524	INTERGENIC	--	--	--
Ca7_P1_5820434	Ca7	5820434	CTT/CT	TATGTTTCGGGTGACC ATGA	TTTAAATGACAAAGAG GAAGTGTG	59.8	524	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_5834278	Ca7	5834278	AATGTATGTATGTATGTAT/AAT GTATGTATGTATGTAT	TGTCAGGCTCCAGTC AGTG	AGGGGCCTGCTTGTA GAAAT	60.0	341	INTRON	Ca_06776	--	--
Ca7_P1_5835353	Ca7	5835353	TAAAAAAAAA/TAAAAAAAAA	GCAGTCTAAAAGGTCG CCTG	ATCTTCAAACCCAGCT CCCT	60.0	103	INTRON	Ca_06776	--	--
Ca7_P1_5841878	Ca7	5841878	CTT/CT	TGCAACTTTGAAGGTG CTTG	CAACAAAGCCACAAA GCAA	60.0	731	DRR	Ca_06775	--	--
Ca7_P1_5842092	Ca7	5842092	AATAT/AAT	TGCAACTTTGAAGGTG CTTG	CAACAAAGCCACAAA GCAA	60.0	731	DRR	Ca_06775	--	--
Ca7_P1_5842517	Ca7	5842517	GA/GAAA	TTGCTTTTGTGGCTTT GTTG	ATTAATTGCGCCGTCA AAGA	59.9	487	DRR	Ca_06775	--	--
Ca7_P1_5842987	Ca7	5842987	TAAAA/TAAAAA	TCATCGTTGACAGACC TGGA	TTTAGGCAATTTTGCC CTTG	60.2	352	DRR	Ca_06775	--	--
Ca7_P1_5843643	Ca7	5843643	AT/ATT	GGTGAGTTTTCTCTC CCCC	TTTCATCGTCTGAAGTC ACGG	59.9	501	INTERGENIC	--	--	--
Ca7_P1_5848590	Ca7	5848590	T/TTG	CGAAGTCGGCTTTGGA TAAA	GAATTGGGAATTTTCG AGCA	60.2	461	DRR	Ca_06774	S	--
Ca7_P1_5850863	Ca7	5850863	TAAA/TAA	CAATTCGGACGTGAAC TTGA	AAGTATCTCCAGGCG CAAA	59.7	819	DRR	Ca_06773	O	--
Ca7_P1_5852220	Ca7	5852220	CTTGAATTTGAATTTT/CTTGAATTTT GAATTTTGAATTTT	TTGCTGCGAGCGTTAC TCTA	TTCTGGGTATTGAAC CGGC	59.9	527	DRR	Ca_06773	O	--
Ca7_P1_5852451	Ca7	5852451	TT/TTGT	TTGCTGCGAGCGTTAC TCTA	TACGTAGCGGCTCTTC TGGT	59.9	762	INTERGENIC	--	--	--
Ca7_P1_5857266	Ca7	5857266	AG/AGG	TTAAAAACCAAGAGGC AGGG	GAAGCTTTGACCACAA GGGA	59.2	368	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_5858608	Ca7	5858608	TACTAA/TA	TGTTTAGTCATGCGGT GATTG	CCCGTCAAAGGGTATT TGAA	59.6	846	INTERGENIC	--	--	--
Ca7_P1_5858827	Ca7	5858827	GTCT/GTCTCT	AAAGATGTTCAATTCA GCCAAA	CCCGTCAAAGGGTATT TGAA	58.7	383	INTERGENIC	--	--	--
Ca7_P1_5866837	Ca7	5866837	GCAACAACAACAACA/GCAACAAC AACAACA	GAAAGAACTGGTGG TGGA	CATCATTGCACGTTGT TGGT	59.9	518	CDS (large-effect mutations)	Ca_06771	P	--
Ca7_P1_5867348	Ca7	5867348	CTCT/C	ACAACAGATGATGGCT GCTG	AATGTACGCACTCCAC CACA	59.9	606	DRR	Ca_06771	P	--
Ca7_P1_586986	Ca7	586986	AA/AATTA	TTCCATTTCTCCACAA AGC	CAACCGCATTGTCACTC ATTC	60.1	531	DRR	Ca_24415	--	--
Ca7_P1_5870900	Ca7	5870900	GAAAAA/GAAAAAAA	TTGTGGCTAATATTC GGTCAA	CACAACTCTCCAGAGC CAAA	59.5	485	INTERGENIC	--	--	--
Ca7_P1_5871833	Ca7	5871833	TAAAAA/TAAAA	AATTGTGGTTCTTCAT GCC	TTCGTATTGTTATTGC GGGA	59.8	487	INTERGENIC	--	--	--
Ca7_P1_5872481	Ca7	5872481	GTTTT/GT	TGTTTTGAAATCACAA TAGAGTTCTG	ATTCACCTACCAGTGA CCGC	60.0	135	INTERGENIC	--	--	--
Ca7_P1_5872954	Ca7	5872954	A/AC	GCGGTCAGTGGTAGGT GAAT	TACACTGCATCACCCC AAAA	60.0	719	INTERGENIC	--	--	--
Ca7_P1_5874353	Ca7	5874353	GA/G	TTTGGTACAACGAGGT CCAC	TTGGCTTGTCACATCA GCTT	58.5	268	INTERGENIC	--	--	--
Ca7_P1_5874667	Ca7	5874667	CAAA/CAA	AAGCTGATGTGACAAG CCAA	TTATAACATGGGCGA ACCC	59.4	391	INTERGENIC	--	--	--
Ca7_P1_5874712	Ca7	5874712	TAAAA/TAAA	AAGCTGATGTGACAAG CCAA	TTATAACATGGGCGA ACCC	59.4	391	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_5875277	Ca7	5875277	TAAAAAA/TAAAAAA	CTATAAATGGGGTTC GCCC	ATCTTTGTCGTTTCAGG TGCC	60.5	538	INTERGENIC	--	--	--
Ca7_P1_5875322	Ca7	5875322	A/AG	GCTTTGTGGGCTCAAA GACT	ATCTTTGTCGTTTCAGG TGCC	59.6	115	INTERGENIC	--	--	--
Ca7_P1_5884631	Ca7	5884631	ATTTTT/ATTTTTTTT	TCTTGTTGCCTGTCT CGTG	ATGCGAAGGAGCAATT ATGG	60.0	832	INTERGENIC	--	--	--
Ca7_P1_5884732	Ca7	5884732	CAA/CA	ACATGGCTTTACTTGG TGGA	ATGCGAAGGAGCAATT ATGG	58.1	425	INTERGENIC	--	--	--
Ca7_P1_5884765	Ca7	5884765	AC/A	ACATGGCTTTACTTGG TGGA	ATGCGAAGGAGCAATT ATGG	58.1	425	INTERGENIC	--	--	--
Ca7_P1_5886582	Ca7	5886582	TA/TATTATTAA	GAGCATGTAGGTGCTG GGTT	AAACCACTCAATACT TCACCTTTTT	60.1	176	INTERGENIC	--	--	--
Ca7_P1_5886738	Ca7	5886738	ATTTTT/ATTTTTTT	GAGCATGTAGGTGCTG GGTT	TTCATTGCATCTATTT GTTACCTTT	60.1	323	INTERGENIC	--	--	--
Ca7_P1_5889222	Ca7	5889222	CTTT/CTT	ATTGGCAAGAGTGTTA CGGG	GTGTGACTTTGGCCAC CTTA	60.0	520	DRR	Ca_06769	O	--
Ca7_P1_5889525	Ca7	5889525	TAAAAAAA/TAAAAAA	CTTTGGGAACATAAGG TGGC	GCAATTGGTTTGATT TTATACCTC	59.4	444	DRR	Ca_06769	O	--
Ca7_P1_5890273	Ca7	5890273	TTATATATATAT/TTATATATATAT	TGTCATATACACATG CATCGC	TGAGAGTGAGATGGT GGTCA	59.5	127	DRR	Ca_06769	O	--
Ca7_P1_5890416	Ca7	5890416	TAAAAA/TAAAAA	TGCACTCTCAAATGA CCAC	TCAAATATCACCCGT ATCAAA	59.8	630	DRR	Ca_06769	O	--
Ca7_P1_5890885	Ca7	5890885	AT/ATGGCGT	TTTGATACGGGTGATA TTTTGA	TTCGTGTTGCTATGAG ATGGA	57.1	154	DRR	Ca_06769	O	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_5891892	Ca7	5891892	TTTATATTA/TTTA	GCTGGGATAATAGGC CTTC	AAATGGGTGAGATCAG CGAC	59.9	507	INTERGENIC	--	--	--
Ca7_P1_5893840	Ca7	5893840	CAAAAAAAAA/CAAAAAAAAA	AAATGAAAGCAGGCCT CAAA	CGGTGTTGTCCGTTTT TCTT	59.8	411	INTERGENIC	--	--	--
Ca7_P1_5894005	Ca7	5894005	GTTTTTTTTT/GTTTTTTTTT	AAGAAAAACGGACAAC ACCG	TGTTGTCATGACTTG AAGG	60.0	375	INTERGENIC	--	--	--
Ca7_P1_5894442	Ca7	5894442	ATTTTTTT/ATTTTTTT	CAAGTCATGCACAACA TTTG	TGTCAACCTGATTGAA CCGA	60.0	531	INTERGENIC	--	--	--
Ca7_P1_5894684	Ca7	5894684	ATTTTTTTTT/ATTTTTTT	CAAGTCATGCACAACA TTTG	TGTCAACCTGATTGAA CCGA	60.0	531	INTERGENIC	--	--	--
Ca7_P1_5894787	Ca7	5894787	TTTTAAAA/TTTTAAAA	CGGTTCAATCAGGTTG ACATT	TGGCCCCAAAATTGAT ACAT	59.8	421	INTERGENIC	--	--	--
Ca7_P1_5895013	Ca7	5895013	CAAAAAAAAA/CAAAAA	CGGTTCAATCAGGTTG ACATT	TGGCCCCAAAATTGAT ACAT	59.8	421	INTERGENIC	--	--	--
Ca7_P1_5895925	Ca7	5895925	TCC/TC	CGTTTGAAGTTGCGG GATT	GGCTCAAAGTGGGTG AATGT	60.0	493	INTERGENIC	--	--	--
Ca7_P1_5897121	Ca7	5897121	CT/CTTTGTT	CAAAGATTGCTTCAGG GACC	CCACTGTTTAAATGT GCCG	59.7	451	INTERGENIC	--	--	--
Ca7_P1_5899776	Ca7	5899776	CTTTTTTT/CTTTTTTT	TTTCATGCATTGGTTT CCA	TCTCTAATGCATGGCA GCAC	59.9	513	INTERGENIC	--	--	--
Ca7_P1_5899902	Ca7	5899902	TGG/TG	TTTCATGCATTGGTTT CCA	TCTCTAATGCATGGCA GCAC	59.9	513	INTERGENIC	--	--	--
Ca7_P1_5900811	Ca7	5900811	CTC/CTCGATC	TGGAAGAGTCCAATGA AAATCA	TTCGGTTCCTTCCTAA ATCC	59.5	823	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_5900993	Ca7	5900993	CAAAAAAAAA/CAAAAAAAAA	AAATTTGTGCTAAATC CCCA	TGAACAGTTGAGGTC GCTG	58.5	881	INTERGENIC	--	--	--
Ca7_P1_5903975	Ca7	5903975	C/CCA	GGATTGAATGGATCGC TTGT	GTGAGATTGAAAACGC GTGA	59.9	602	INTERGENIC	--	--	--
Ca7_P1_5904299	Ca7	5904299	TTAGAATTTAATTGGTAGAA/TTAGAA TTTAATTGGTAGAATTTAATTGGTAGA A	TCACGCGTTTTCAATC TCAC	GATGCATGCGTTGAAA GTTG	59.8	161	INTERGENIC	--	--	--
Ca7_P1_5904563	Ca7	5904563	GTTTA/GTTTAATTTA	TCACGCGTTTTCAATC TCAC	CGCTACAATGATCGG GTTT	59.8	741	INTERGENIC	--	--	--
Ca7_P1_5906861	Ca7	5906861	TTCT/TTCTCT	TCAGAGCTTTTCACGC ATTG	TCCATCAGCAGTTATT CCCC	60.1	801	INTRON	Ca_06768	--	--
Ca7_P1_5907905	Ca7	5907905	GTTCAGATATAC TTC/GTTCAGATATA CTTCAGATATAC TTC	GGGGTGCAACTTTCAA GGTA	CAGAACTGTTGCACCT TCCA	60.0	354	INTRON	Ca_06768	--	--
Ca7_P1_5907965	Ca7	5907965	CATATATATATA/CATATATATATATA	GGGGTGCAACTTTCAA GGTA	CAGAACTGTTGCACCT TCCA	60.0	354	INTRON	Ca_06768	--	--
Ca7_P1_5911086	Ca7	5911086	TGGGG/TGGGGG	CGGTTAAGCTTCAAAA CCCA	TATGCAGCAAAATGAA CCCA	60.1	379	CDS (FRAME SHIFT)	Ca_06767	--	bHLH
Ca7_P1_5916457	Ca7	5916457	TATCATCATCATCATCATCA/TATC ATCATCATCATCATCATCA	CATGCAATCATGTATC CCCA	CTACCTGCACCCCCTA TTGA	60.2	475	CDS (large-effect mutations)	Ca_06766	G	G2-like
Ca7_P1_5924805	Ca7	5924805	TATAATAATAATAAA/TATAATAATA ATAATAATAA	TGGACTGACCAACCAA ACAA	TTTTTAACGGAGATGC CTCG	60.0	848	INTRON	Ca_06765	S	--
Ca7_P1_5932489	Ca7	5932489	ATTTTT/ATTTTTTT	GCCATCTTCCAAAGGA TGAA	ACACAGCAATCACAGT TGCC	60.0	715	INTRON	Ca_06764	P	GRAS
Ca7_P1_5934199	Ca7	5934199	GTATATATATATA/GTATATATA	TTGAAAACAATTTTGCA GGC	CACGAGCGCTTTAAAA ATCC	58.8	903	DRR	Ca_06764	P	GRAS

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_5934239	Ca7	5934239	AA/AAATAAAATAGA	GTGCCCTTCAGTTTA AGGC	AAATCCGCTAGTTCGC TTCC	58.8	770	DRR	Ca_06764	P	GRAS
Ca7_P1_5936706	Ca7	5936706	TAC/TTAGATAAAC	GACCGACGACAGATT GTGA	TTTGTTGCTTGACAA CGTC	59.7	319	INTERGENIC	--	--	--
Ca7_P1_5936794	Ca7	5936794	TA/T	GACCGACGACAGATT GTGA	TTTGTTGCTTGACAA CGTC	59.7	319	INTERGENIC	--	--	--
Ca7_P1_5938033	Ca7	5938033	TTG/TTGTG	AAATAGTGGAGGCAGC GAAC	CATTCAATTGGTGAT CGCC	59.3	464	INTERGENIC	--	--	--
Ca7_P1_5938209	Ca7	5938209	TTAT/TT	AAATAGTGGAGGCAGC GAAC	CATTCAATTGGTGAT CGCC	59.3	464	INTERGENIC	--	--	--
Ca7_P1_5940647	Ca7	5940647	T/TC	TGTTCAATCGATTTGA GCG	TGAGAATGGGATTTT GCTC	59.8	840	INTERGENIC	--	--	--
Ca7_P1_5940731	Ca7	5940731	TCCACCA/TCCACCACCA	GCACAATTTGAACAGT GCCA	TGAGAATGGGATTTT GCTC	60.7	563	INTERGENIC	--	--	--
Ca7_P1_5943964	Ca7	5943964	TAAAA/TAAAAA	CCATTTTGGGGGCTT ATTT	TGGAACTTTTGGGCA TAGC	60.0	537	DRR	Ca_06762	L	--
Ca7_P1_5944748	Ca7	5944748	GTT/GTTTT	TGTCACAACCTCATT CCCA	ATTTGGAAGAAGTGC GGTG	59.9	359	DRR	Ca_06763	S	C2H2
Ca7_P1_5945202	Ca7	5945202	AGGTTGGGTTG/AGGTTG	CACCGCAAGTTCTTCC AAAT	GCGAGAAAGGCGTGT TGTAT	60.1	534	DRR	Ca_06763	S	C2H2
Ca7_P1_5953422	Ca7	5953422	GTTTTTTTT/GTTTTTTTTT	ATCACATTTCCATTGG GGA	CACATTCAAGGCAACA ATGG	60.0	321	DRR	Ca_06761	A	AP2
Ca7_P1_5954634	Ca7	5954634	T/TG	AGCCATTAAGTGTCCG ATGG	GAAGCCAAAGTGATTG GGAA	60.0	693	INTRON	Ca_06761	A	AP2

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_5955426	Ca7	5955426	CA/C	TTCCAATCACTTTGG CTTC	ATTGTGGCACTAGTGG AGGG	60.1	947	INTRON	Ca_06761	A	AP2
Ca7_P1_5962522	Ca7	5962522	ATTT/ATTTT	TGATGTATCGGAGCAT TGGA	TCATCTGGTGCCTCAG TCAG	60.0	292	INTRON	Ca_06761	A	AP2
Ca7_P1_5975269	Ca7	5975269	TTATATATATAT/TTATATATAT	AGAGCAGAATGGAACA CGCT	TGCAATTTTAATTTTCA TATTTTCG	60.0	472	INTERGENIC	--	--	--
Ca7_P1_5975916	Ca7	5975916	TAAAAA/TAAAAA	TGCTTATGCATCTCATT GGTC	TTAAATCAAATGCGTG GGAA	58.7	212	INTERGENIC	--	--	--
Ca7_P1_5977012	Ca7	5977012	GTATATAT/GTATAT	TGAAACCACATTGCTC ACCT	CCTCCACTTTTGAGCA CCAT	59.1	481	INTERGENIC	--	--	--
Ca7_P1_5977868	Ca7	5977868	TAAAAA/TAAAAA	ATTGACAAATATGCGT GGCA	ACTGATGGGGCAAGC TACAC	60.0	632	DRR	Ca_06760	--	--
Ca7_P1_5978218	Ca7	5978218	GGAAGATGAT/GGAAGATGATGAAGA TGAT	AAATCCGTGCAACAC ACG	ACTGATGGGGCAAGC TACAC	60.6	448	DRR	Ca_06760	--	--
Ca7_P1_5978931	Ca7	5978931	TTAGATACTAG/TTAG	TGCCAAAATGTTTGGT TGTG	CTGGGGACTCGATTGA GAAA	60.4	843	DRR	Ca_06760	--	--
Ca7_P1_5989176	Ca7	5989176	GATACA/GA	TGCTCTAACTGAAGG GGGA	GTTTCGTGACAAGAC GGAT	59.8	311	INTRON	Ca_06760	--	--
Ca7_P1_5992633	Ca7	5992633	GC/G	AACGCAATCCATGACA AACA	GTATGCTCTGTTTCCC CCAA	60.0	497	INTRON	Ca_06760	--	--
Ca7_P1_5995821	Ca7	5995821	ATGT/AT	GACCGTCAAGGGGTTG TTTA	AGTTTATTGGCGCACC AGAG	59.8	916	INTERGENIC	--	--	--
Ca7_P1_6000672	Ca7	6000672	CTTTTT/CTTTTTT	CCACAACCTCCAACCT CGTT	TTGGAGGCATTGGCT TTAC	60.0	347	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_6001036	Ca7	6001036	CTTTTT/CTTTTTT	CCACAACCTCCAATT CGTT	TCCATTGGACTTGGTC AACA	60.0	809	INTERGENIC	--	--	--
Ca7_P1_6001877	Ca7	6001877	CAAAA/CAA	CTTATTTTCTCTCACCG CCA	TTGCGAATCATACCAA TGGA	60.1	659	INTERGENIC	--	--	--
Ca7_P1_6006122	Ca7	6006122	ATTTTTTTTTT/ATTTTTTTTT	TGTTGCCGTATAACCG TTGA	TCTTCTATTTTGCCGG TGGT	60.0	701	INTERGENIC	--	--	--
Ca7_P1_6008667	Ca7	6008667	ATTTT/ATTT	CCATCCCGATTGTGTA TTGG	CCCTTCGGTCATCAAC GTAT	60.0	486	DRR	Ca_06759	--	--
Ca7_P1_6010128	Ca7	6010128	CTTTGAGCTTTGTAGTAT/CTTTGAGC TTGTAGTATTTGAGCTTTGTAGTAT	ATGTGCGTTAAGGGAA CTGG	TTGGAGACCCACGTTT TACC	60.0	260	DRR	Ca_06759	--	--
Ca7_P1_6015189	Ca7	6015189	TAAAA/TAAAAA	ACACGCAGCTCCTTTT CAAC	TCCAATTTTAAACAATA CCACAGC	60.4	375	INTERGENIC	--	--	--
Ca7_P1_6015584	Ca7	6015584	GTTTTTTTTTT/GTTTTTTTTTT	GCTGTGGTATTGTTTA AAATTGGA	TTCCACTGAATGGTGC AGAA	59.4	805	INTERGENIC	--	--	--
Ca7_P1_6016711	Ca7	6016711	ATTTTTTTTT/ATTTTTTTTT	GCCTTTTCTTTTCAAG CCC	CATTTTGACAAGTGCA TAGTTTGA	60.2	306	INTERGENIC	--	--	--
Ca7_P1_6017244	Ca7	6017244	TAATAATAA/TAATAATAAAATAATAA	TGCACTTGTCAAAATG AGTTAAGG	CGTGTCTCGTAACCTCA ATCCA	60.5	734	INTERGENIC	--	--	--
Ca7_P1_6017894	Ca7	6017894	CAAAAAA/CAAAAAA	CACGTGAATCAACTGT GAAGG	CGAGGTGACACACATT TTCG	59.2	735	INTERGENIC	--	--	--
Ca7_P1_6018232	Ca7	6018232	CTAA/C	GAGCCAACCTGTTGTC TACGG	CGAGGTGACACACATT TTCG	59.8	271	INTERGENIC	--	--	--
Ca7_P1_6019397	Ca7	6019397	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA	GCCGAATTTGAGGAAA AACA	ATAGACCCTGACCCCA ACAC	60.1	445	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_6020210	Ca7	6020210	GTTTTTTT/GTTTTTTT	AATCCGTTGAGATTGG GATG	TCATTTTGTCTTCC TTTGTT	59.8	379	INTERGENIC	--	--	--
Ca7_P1_6020433	Ca7	6020433	TAAAAAA/TAAAAAA	AATCCGTTGAGATTGG GATG	TTTTTGTTCATTGGT GTTTATTT	59.8	677	DRR	Ca_06757	R	--
Ca7_P1_6020761	Ca7	6020761	TCA/TA	AAACAAAGGAAAGGAC AAAAATG	TGACGTTTAGTTTTTC TGTTTATTG	58.6	826	DRR	Ca_06757	R	--
Ca7_P1_6021501	Ca7	6021501	CTTCTTT/CTT	CAATAAACAGAAAA CTAAACGTCA	TTTTGTCCAATTTCAC GGA	58.1	786	DRR	Ca_06757	R	--
Ca7_P1_6021592	Ca7	6021592	GTTTTTTTTT/GTTTTTTTTT	TCTGCAAAAACACGT TTCAA	TTTTGTCCAATTTCAC GGA	59.4	366	DRR	Ca_06757	R	--
Ca7_P1_6021693	Ca7	6021693	ATTTTTTTT/ATTTTTTTT	TCTGCAAAAACACGT TTCAA	TTTTGTCCAATTTCAC GGA	59.4	366	DRR	Ca_06757	R	--
Ca7_P1_6023771	Ca7	6023771	CTTAAATT/CTTAAATTAAATT	AATCGCCTTCGAAAGA ATCA	GCATGTGCCATGGTA ACAG	59.8	702	INTRON	Ca_06757	R	--
Ca7_P1_6024790	Ca7	6024790	GAAAAAA/GAAAAAA	TCTGATAGAAAACGT GGAAA	TTTCGACCCTCTCTT TTAGG	57.5	918	INTRON	Ca_06757	R	--
Ca7_P1_6033948	Ca7	6033948	ATTTTTT/ATTTTTTT	ACTTCAGCATCAAGCC AGGT	AAAATTTTGAAGTT GGTTGTT	59.9	291	DRR	Ca_06755	A	--
Ca7_P1_6038275	Ca7	6038275	AAACAATTATGTAACAATT/AAACAATT	GCAAAAACTTCCACC CAAA	CCAGTTCAGCAATCC ATTT	60.0	556	INTRON	Ca_06755	A	--
Ca7_P1_6038795	Ca7	6038795	TAAAAA/TAAAAA	ATAGTATGCCCGCAAA CCAG	AAGCATGTTTCTCGGT GTCC	60.0	763	INTRON	Ca_06755	A	--
Ca7_P1_6044320	Ca7	6044320	A/AATT	TCACCCACTTTGGTTG CATA	CAATTAAGTGAAGTG CCAAA	60.0	339	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_6045136	Ca7	6045136	CAAAAAAAAA/CAAAAAAAAAAAAA	CCCCTGATCTTGAAAT TGGA	TTGTCAGTGTACTTC GCCG	59.9	352	INTERGENIC	--	--	--
Ca7_P1_6046707	Ca7	6046707	CAAA/CAAAA	GGATCAGGACTCAGGA GAGACA	CGGGTCAGTGTACAAC ATGG	60.8	668	INTERGENIC	--	--	--
Ca7_P1_6047570	Ca7	6047570	TAAAAAAAAAAAA/TAAAAAAAA	CATGTTGTACTACTGAC CCGC	TGCACAACGACATTTA CGGT	60.0	666	INTERGENIC	--	--	--
Ca7_P1_6049898	Ca7	6049898	GAAAAA/GAAAAAA	CCATGAGCTGCATC AAAC	TGGATTTCCCTTTGAA ACGA	60.3	453	INTERGENIC	--	--	--
Ca7_P1_6055513	Ca7	6055513	TA/TTTAGTATGA	TTTGTGCTTTCCAGG TCCC	AGAAGGTCGCATCCA GACAC	59.9	507	INTERGENIC	--	--	--
Ca7_P1_6056347	Ca7	6056347	GTATACACTATAC/GTATACA	CCATCGATTTAAAAATG AGCA	TATGGGGCGGATAAT TACA	57.8	517	INTERGENIC	--	--	--
Ca7_P1_6058301	Ca7	6058301	ATTATTTATTTTATT/ATTATTT	GCGTTTCACGGAAGAA GAAG	AAAATCACATCGAAAT CTAGCCA	60.0	609	INTRON	Ca_06754	K	TALE
Ca7_P1_6060869	Ca7	6060869	ACT/ACTCT	CCTTGGTCTGTCCAC TTGT	GAACACGGACATGTTG TTGC	60.0	454	INTRON	Ca_06754	K	TALE
Ca7_P1_6062336	Ca7	6062336	GTTAT/GTTATATTAT	CAAAGGAAAAGGAATT GGCA	TGCTTTCACCTGCAC TTTC	60.0	188	DRR	Ca_06753	--	--
Ca7_P1_6065331	Ca7	6065331	TAAAA/TAAAAA	TTGTCCCAAGATTT CATTTC	ATCATGCTTTTTCCCG TCTG	59.0	492	DRR	Ca_06752	T	bZIP
Ca7_P1_6065901	Ca7	6065901	GATAATAA/GATAA	AGACTCGTGAGCACTG AGCA	TTTTGCTTTTTCCACC CATC	59.9	364	DRR	Ca_06752	T	bZIP
Ca7_P1_6066130	Ca7	6066130	T/TA	GATGGGTGAAAAAGC AAAA	ATGTCAAAGGGAAGG GAAGG	59.9	597	DRR	Ca_06752	T	bZIP

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_6070177	Ca7	6070177	GAAAAAAAA/GAAAAAAAAA	TGGATGCAGAACAGAA GCTG	CGCTTGAGGTGACTGT TTCA	60.1	747	INTRON	Ca_06752	T	bZIP
Ca7_P1_6071004	Ca7	6071004	CGAAGAACATTTAGAGGAAGAACA/C GAAGAACATTTAGAGGAAGAACATTT AGAGGAAGAACA	TCAAAGCGATCACACC ATGT	TTGCCCTATATTTTGC CTCG	60.1	724	INTRON	Ca_06752	T	bZIP
Ca7_P1_6080503	Ca7	6080503	CTTT/CTT	CGGTGATGAGAGAAAC AGCA	GTGAGAAGGAGGGTG TTTGG	60.0	446	INTERGENIC	--	--	--
Ca7_P1_6081820	Ca7	6081820	CTTTTTTTTTTT/CTTTTTTTTT	GATTCTCGGGTTTGG TGGA	AACGAGAGTCTAACGC CTTCC	59.9	825	INTERGENIC	--	--	--
Ca7_P1_6083464	Ca7	6083464	AATATA/AATATATA	GGACCGTTTTGCTGTC AAAT	CACATTCTGGCTTCC AACT	60.0	548	INTERGENIC	--	--	--
Ca7_P1_6084237	Ca7	6084237	CCTTAACTTCTTAA/CCTTAACTTCT TAAACTTCTTAA	CCTTAGTTGCACAAAG GGGA	CCGTTTTTGGTTCACA TTCA	60.1	164	INTERGENIC	--	--	--
Ca7_P1_6087413	Ca7	6087413	GTTTT/GTTTTT	TAAGTTAATGGGAGCG GGGT	GGCCAACCAACCTCA GTTA	60.7	550	INTERGENIC	--	--	--
Ca7_P1_6087806	Ca7	6087806	CTTTTTTTTTTT/CTTTTTTTTT	ATGTTGGGGAGGTTAG GGAC	GGCCAACCAACCTCA GTTA	60.1	337	INTERGENIC	--	--	--
Ca7_P1_6088639	Ca7	6088639	TAA/TAAA	TTTGATCTCGTGTCTT TTCATC	TCGAGCACATTCAACT CCTG	58.4	524	INTERGENIC	--	--	--
Ca7_P1_6091216	Ca7	6091216	TAAAAAAAAAAAA/TAAAAAAAAA	TGATGATCGTGGAGCA ACAT	TGTCCGCAATAAATGA ACGA	60.1	550	DRR	Ca_06750	O	--
Ca7_P1_6093824	Ca7	6093824	CT/CTGTGT	CCATTGCGCATCTTCC TAAT	AAGGGTGAAAACCCAC AATG	60.1	561	INTERGENIC	--	--	--
Ca7_P1_6094692	Ca7	6094692	TT/TTAATTATAAT	ATGAGGCCATGGAAAA TGAA	TTCGAAACGGTCACTT GATG	60.3	647	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_6095697	Ca7	6095697	ATTT/ATTTT	TCCAGAACAAGAACAC GCTG	CTTCAGAAATGCACTT GGCA	60.0	376	INTRON	Ca_06749	--	--
Ca7_P1_6097018	Ca7	6097018	AG/A	CTCAGCAGCACAAATC CAAA	GCACAAATCACCATA TCGC	60.0	472	DRR	Ca_06748	--	--
Ca7_P1_6100952	Ca7	6100952	CTTTTTTTTT/CTTTTTTTT	TATTGCATGTTTGACG GCAT	CGGACTCCCCCTTTT ATTG	60.0	558	INTRON	Ca_06748	--	--
Ca7_P1_6101756	Ca7	6101756	GATGAATGAATGAATGAAT/GATGAAT GAATGAATGAATGAAT	GAGCTTGAACCCATGT CGAT	TGGTCAGCTTTCATT GTCA	60.1	219	INTERGENIC	--	--	--
Ca7_P1_6101855	Ca7	6101855	C/CAA	TGAACCCATGTCGATG AAGA	CGAGTACAGTTTCAT TCGGA	60.0	421	INTERGENIC	--	--	--
Ca7_P1_6103117	Ca7	6103117	T/TA	TTTTCGTTTAACTCACA CATTG	CCTTATTGCCCATTT CCTT	59.2	515	INTERGENIC	--	--	--
Ca7_P1_6104459	Ca7	6104459	AA/AAAGA	TTGCATCGATGAACAA CAAAA	GTGGGTATCCAAAATC CACG	60.1	502	INTERGENIC	--	--	--
Ca7_P1_6104896	Ca7	6104896	AG/A	TTGAACTCCCCAAGGA AACA	TCGGTTGAATTTGAA TCATCA	60.5	315	INTERGENIC	--	--	--
Ca7_P1_6105118	Ca7	6105118	ACCAT/A	TGAACTCCCCAAGGAA ACAA	CCTAACATTCATGTCA AAGCG	60.5	976	INTERGENIC	--	--	--
Ca7_P1_6106310	Ca7	6106310	TTAT/TT	ACATCCTGGACCTGCT CATC	ATTGGAACGCGAATT TCAG	60.1	546	DRR	Ca_06747	--	--
Ca7_P1_6107206	Ca7	6107206	AA/AACAATA	TGGAAGTGGTGGTCGA AAGT	TGAAATGGTGAAAGT GGAACA	60.5	647	DRR	Ca_06747	--	--
Ca7_P1_6107406	Ca7	6107406	AAAAATTTAAAAATTT/AAAAATTTAAAA TTTAAAAATTT	TGTTCCACTTTCACCAT TTTCA	TGGGTGTTTTATTTTT CAGATTACTG	60.4	204	DRR	Ca_06747	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_6107658	Ca7	6107658	TG/T	TGTTCCACTTTCACCAT TTTCA	GAGCAGTGTGGGGTT TTAGG	60.4	703	DRR	Ca_06747	--	--
Ca7_P1_6108941	Ca7	6108941	ATT/ATTTT	TCATCGCAGTTCATGC TAGG	AATAGGCAGTCGCTCC TGAA	60.0	909	INTRON	Ca_06746	J	NAC
Ca7_P1_6121180	Ca7	6121180	A/ACTTCC	TTAAATTTACCCGCACA ACG	CGACGTTGTGGTTTCA TGTC	59.6	771	INTERGENIC	--	--	--
Ca7_P1_6122129	Ca7	6122129	GTTTTTT/GTTTTTTT	TGGGTTGAGCCTAAT TTTG	CCGATTATCCAAAGC CTTA	60.1	435	INTERGENIC	--	--	--
Ca7_P1_6122506	Ca7	6122506	CAAAAAA/CAAAAAA	TAAGGCTTTGGATGAA TCGG	ATCTTTAGGCCCTCT CCAA	60.0	541	INTERGENIC	--	--	--
Ca7_P1_6123122	Ca7	6123122	AG/A	TTGGAGAGGGGCCTAA AGAT	GGATTAGCAAGAGTCC GCTG	60.0	636	INTERGENIC	--	--	--
Ca7_P1_6124908	Ca7	6124908	TAAAAAAAAAAAAA/TAAAAAAAAA	AGAGGCTGTGAGAGTA GCCG	AAAAAGGTCTAAAGT CCATGACT	59.8	376	INTERGENIC	--	--	--
Ca7_P1_6125384	Ca7	6125384	TAAATTC/TAAATTCAAATTC	TCAACTTCCACACTTG CTTAA	TCAACTATCATCCCTT GGTCTT	57.6	902	INTERGENIC	--	--	--
Ca7_P1_6126281	Ca7	6126281	TAAAAA/TAAAA	TTTCTGCCTAGAAAAG TTCCAT	TGTAGCCACGTAAGGA AACCT	57.2	246	DRR	Ca_06744	O	--
Ca7_P1_6126547	Ca7	6126547	AATATATATATATATATATATATA T/AATATATATATATAT	AAGGTTTCCTTACGTG GCTACA	TCACGGGGCTAATTTT CTTG	60.1	476	DRR	Ca_06744	O	--
Ca7_P1_6147376	Ca7	6147376	A/AC	TGGAGGCTTTCTCCTA GCTG	CTTTCTGCCGCGATCT TTAG	59.7	602	INTRON	Ca_06742	--	--
Ca7_P1_6147633	Ca7	6147633	A/AG	CTAAAGATCGCGCAG AAAG	GGGATACGTTTGGGG AAAGT	60.1	471	INTRON	Ca_06742	--	--

[illegible]

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_6314366	Ca7	6314366	GTTTTTTTTT/GTTTTTTTTT	TGACGTCAAAGATCCC AAAA	TGCTCCCTTAATTGC ATGA	59.1	567	INTERGENIC	--	--	--
Ca7_P1_6347731	Ca7	6347731	ATAATTA/ATAATTAATTA	TGTTAATCACCCCGGA AAAA	GCTGCATTTCAGAAGC ATCA	60.2	521	DRR	Ca_06721	R	NAC
Ca7_P1_6383568	Ca7	6383568	TAAAAAAAAA/TAAAAAAAAA	ACACTGGCATGAAGAA TCTTTT	ACGGAACATTCCATCA CCAA	57.9	661	INTERGENIC	--	--	--
Ca7_P1_6403482	Ca7	6403482	AAGTGAGTGAGTGAGTGAGTG/AAGT GAGTGAGTG	TCTTCAAGGATCGTT CCAC	GTGGTGCTCGGAATAA TCGT	60.1	472	INTRON	Ca_06711	R	--
Ca7_P1_6481476	Ca7	6481476	ATTTT/ATTT	TCCTCGCTGTTGACAA TCAC	TTGTTAAGTGGTGGA AGGC	59.8	454	INTERGENIC	--	--	--
Ca7_P1_6504289	Ca7	6504289	ATTTTTTTTTT/ATTTTTTTTTTTT	GAAAAGGAATCCTCC CTGC	GCTTTAAGCATCAATG GGGA	60.0	463	INTERGENIC	--	--	--
Ca7_P1_6624110	Ca7	6624110	G/GCAGGTTTTTCCCTC	TTTGCAAACCTCTGC TTCT	GAGCCACACCCAACAA TCTC	60.0	503	INTRON	Ca_06695	T	HD-ZIP
Ca7_P1_6686273	Ca7	6686273	TAAAAAAAAA/TAAAAAAAAA	TGCCATAAATGTCAAG ATGTGA	CCAATTTTGTGAAGGA GGGA	59.0	887	INTERGENIC	--	--	--
Ca7_P1_6723102	Ca7	6723102	C/CTAGCCTAAACCTG	AACATGGTCTCCACCA ATCC	GCCCTCGTGTTTGTA CATT	59.6	412	DRR	Ca_06689	TU	--
Ca7_P1_6746268	Ca7	6746268	AATATATATATATATATA/AATATATAT ATATATATATA	TCAACAATGCTTCTTT CCC	TTCGAAATGTGGGGAT TAAAA	60.1	356	INTERGENIC	--	--	--
Ca7_P1_6808432	Ca7	6808432	GATATATATATATATATATATATATA TATATATA/GATATATATATATATAT ATATATATATATATATATATA	GGTTCTAAGTGATGGG TGGG	CGCGTGATGTTGGT TATC	59.3	703	INTERGENIC	--	--	--
Ca7_P1_6842219	Ca7	6842219	GA/GAAA	CCAATTCGGGGGATAA AGTT	TGGGATGACAAAACGA GTCA	60.0	124	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_6849753	Ca7	6849753	GAAAAAAAAA/GAAAAAAAAA	CCGACTCAAATGACTA AAAGCG	ACAATGAGCACAGCG ACAG	61.1	371	INTERGENIC	--	--	--
Ca7_P1_6854971	Ca7	6854971	ATTTTTTTTT/ATTTTTTTTT	TATGAGGAGTGTGCTG CTGG	ACTCGCGGACTTAACT TCCA	60.0	348	INTRON	Ca_06677	T	YABBY
Ca7_P1_6879569	Ca7	6879569	TAAAAAAAAA/TAAAAAAAAA AA	TTTGAGACCTCACAGT TGTTGA	ATTTGATCCAACCCAC CAAA	59.8	366	INTERGENIC	--	--	--
Ca7_P1_6906110	Ca7	6906110	GAGCTCCCTTCTAGAAGCTCCCTTCT AGAAGCTCCCTTCTAGAAGCTCCCTT CTA/GAGCTCCCTTCTAGAAGCTCCC TTCTAGAAGCTCCCTTCTA	CATCTGTTCCCGTATTT TGCT	TGGATGTTTTGTTTTA AGCTCG	59.1	934	INTERGENIC	--	--	--
Ca7_P1_6912264	Ca7	6912264	TTATATATATATATATATATAT/TTAT ATATATATATATATATATAT	TGCACTTGCACATGTT GAATAA	AATCCCTGCAATTGTG GAAG	60.2	560	INTERGENIC	--	--	--
Ca7_P1_7031939	Ca7	7031939	TATAATAATAATAATAATAATAAT/ ATAATAATAATAATAATAATAA	ATCAACCAAACGTCCA GGAG	GCAAAGTGGTCCGGT AAAA	60.0	526	INTRON	Ca_06658	A	--
Ca7_P1_7187376	Ca7	7187376	TAAAAAAAAA/TAAAAAAAAA	TGCCCATCTCCACT TGTG	CATCTCGCTTGCACT TACA	59.5	569	INTERGENIC	--	--	--
Ca7_P1_7242312	Ca7	7242312	AAATAATAATAATAATAATAATAAT /AAATAATAATAATAATAATAATAA TAAT	ATCGAACATGTTGTGG CGTA	TGAGAGGACCATGTGA GTGG	60.0	648	INTERGENIC	--	--	--
Ca7_P1_7243214	Ca7	7243214	CTATATATATATATATA/CTATATAT ATATATATATATA	CGTCCGTGAAAGGTTT CCTA	TGACCGACTACAAAT CTTACATGC	60.1	669	INTERGENIC	--	--	--
Ca7_P1_7284443	Ca7	7284443	AATATATATATATATATATATATA TATATA/AATATATATATATATATAT ATATATATATATATATATA	TTGAATTCGGAGTTTT CCTTTT	CCTCACTTCATTGCTG CTCA	59.1	992	INTERGENIC	--	--	--
Ca7_P1_7332178	Ca7	7332178	TC/T	TCGACAGTTTTGGTCA CTGTCT	TCTCATCTCTCCAAT CTCTCA	59.8	592	INTERGENIC	--	--	--
Ca7_P1_7332238	Ca7	7332238	CATATAATTATAT/CATATAATTATATA ATTATAT	TCGACAGTTTTGGTCA CTGTCT	TCTCATCTCTCCAAT CTCTCA	59.8	592	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_7335750	Ca7	7335750	TAAAAAAAAA/TAAAAAAAAA	GTGTTTGGGATTGCGT TCTT	CTCCCGCAAATTGAAA ATGT	60.0	583	INTERGENIC	--	--	--
Ca7_P1_7338371	Ca7	7338371	CT/CTT	TTGGAGAAATCTACCT CCCAAC	TTGCATGTCGGAAGTT TCAC	59.5	432	INTERGENIC	--	--	--
Ca7_P1_7339967	Ca7	7339967	AAATAATAATAATA/AAATAATAATAA	AAAGTGGGTGAATGAG TGCC	ACGCCCTAACACTCT GATG	60.0	398	INTERGENIC	--	--	--
Ca7_P1_7341548	Ca7	7341548	GCC/GCCC	GAGGAACCTCGTTAAT GCCA	CCCCTGCACTTTCTGG AATA	60.1	916	INTRON	Ca_06624	P	--
Ca7_P1_7360209	Ca7	7360209	AATTATTATTATTATT/AATTATTAT TTATTATTA	CTTTCTGGGTGTGAC CAGT	AAAGGCTTGGAAGGG AAAAA	60.0	502	DRR	Ca_06622	R	WRKY
Ca7_P1_7360872	Ca7	7360872	GTATTATTATTATT/GTATTATTAT TATT	TTTTCCCTTCCAAGC CTTT	TTAAGGAGGTTGGTTG CTGG	60.0	708	DRR	Ca_06622	R	WRKY
Ca7_P1_7365682	Ca7	7365682	C/CG	ATGTTCCGAGAAGGCA ACAC	AATGAGGTGCAAAAGC ATCC	60.1	418	DRR	Ca_06621	Q	E2F/DP
Ca7_P1_7375181	Ca7	7375181	TAA/TAAAAA	GGACGTCATATTCTGG GTTC	GCGGATAAGCAGACG AAAGA	59.8	888	INTRON	Ca_06621	Q	E2F/DP
Ca7_P1_7380101	Ca7	7380101	CGG/CG	TCCGTGGTTTGGTTTC TTTC	CAATGGGTTACCAATT CAAA	59.9	565	INTERGENIC	--	--	--
Ca7_P1_7380960	Ca7	7380960	AAT/AATTAT	GGTGAACCCATTGCAA TTTT	TCAGGCCAAGAAAGGA GAAA	59.7	766	INTERGENIC	--	--	--
Ca7_P1_7383776	Ca7	7383776	TAAAAAAAAA/TAAAAA	TTTTGTATTGATTGAA TTTTCGG	CCGCACGTGATGAATA GATG	59.3	660	INTERGENIC	--	--	--
Ca7_P1_7385094	Ca7	7385094	GGT/GGTGT	ATTCAATTCAAGGTTTG CGG	CAATGAGCAGCTCG GTGTA	59.9	750	INTRON	Ca_06620	S	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca7_P1_7388041	Ca7	7388041	AGG/AG	AAACTGCAGGGATTCTG	CGCGTTTTCTTACCAT TTCTC	60.3	189	DRR	Ca_06620	S	--
Ca7_P1_7390487	Ca7	7390487	CA/C	CGAATGGAGGGTTACT TGGA	CCGGATTTTCAGGTTG GTAA	59.9	529	DRR	Ca_06619	T	--
Ca7_P1_7395699	Ca7	7395699	CAAA/CAA	GCTCTTTCATATTACG CTCAAACA	CCCGGACCAAAACAAG TAGA	59.8	603	INTERGENIC	--	--	--
Ca7_P1_7398527	Ca7	7398527	T/TC	GGTTGAGCGAAATGTC CAAT	CGAGTGTTGTGCGGC TATTA	59.9	518	INTERGENIC	--	--	--
Ca7_P1_7404264	Ca7	7404264	TAAAAAAA/TAAAAAAA	GGTGGGCTCAGAAAC AGAG	TCCCAGGTATTGCATT GTGA	59.8	603	DRR	Ca_06618	--	--
Ca7_P1_7411561	Ca7	7411561	TAAA/TAA	AGTTACCCGATGTGCA TGGT	TGCAAACTTTGGTGTG GGTA	60.3	631	INTERGENIC	--	--	--
Ca7_P1_7411632	Ca7	7411632	TAAGTCA/TA	AGTTACCCGATGTGCA TGGT	TGCAAACTTTGGTGTG GGTA	60.3	631	INTERGENIC	--	--	--
Ca7_P1_7411899	Ca7	7411899	TAAAAAAA/TAAAAA	AGTTACCCGATGTGCA TGGT	TGCAAACTTTGGTGTG GGTA	60.3	631	INTERGENIC	--	--	--
Ca7_P1_7413063	Ca7	7413063	AA/AATA	TCGATTAGTTGAGTTC GGGG	ACTCAAACGATGAC GGCT	60.1	446	INTERGENIC	--	--	--
Ca7_P1_7415317	Ca7	7415317	CATTAATAAAATTAATAAA/CATTAAT AAAA	TCATTATGCAACCTTT TCTCG	TTCAATTACACCGTTA GCCTTT	59.3	557	INTERGENIC	--	--	--
Ca7_P1_7416511	Ca7	7416511	ATTTTT/ATTTT	AGCATAGGCCGTCCT AAAT	TGTGATCAATTTCTGTG AATCAA	60.0	583	INTERGENIC	--	--	--
Ca7_P1_7417406	Ca7	7417406	ATTTT/ATTT	TGTGAAATATGACACG GCACT	GCGCAAATGATGAGAT GACA	59.1	632	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_7428681	Ca7	7428681	CAATAAAAT/CAAT	GAGGCAGCAATGAGAA GAGG	TGCATGTTGATAGCCC AAAG	60.1	309	INTRON	Ca_06617	UO	--
Ca7_P1_7440742	Ca7	7440742	GGAG/GGAGAG	ATCATCCACGACCCAA TCAT	CACAAACAGAATGTGC ACCC	60.0	562	INTRON	Ca_06616	--	bHLH
Ca7_P1_7447830	Ca7	7447830	ATTT/ATTTT	TTATCCTTGCCACAT CACA	TCTCGTGACCATTAA ACCA	59.9	188	INTERGENIC	--	--	--
Ca7_P1_7450423	Ca7	7450423	TGAAGAAGAA/TGAAGAA	TCTCCGTCTCACAA AAATGA	ATACAAGGCCATGCCT GTTC	59.6	519	DRR	Ca_06614	A	--
Ca7_P1_7458735	Ca7	7458735	A/AT	TTTTGCAATTTGACCGT CTTT	GACCCACATAGTGAG GGGTG	59.6	693	INTERGENIC	--	--	--
Ca7_P1_7459713	Ca7	7459713	TACA/T	TTTTTGCTTAACTGG GCCG	TGGAGGTCTCCTCGTT CACT	60.1	541	INTERGENIC	--	--	--
Ca7_P1_7462087	Ca7	7462087	TTTACTACTT/TTTACTTACTTACTT	TTGAAGCTGCTGCTGA AAGA	CAGATGTCCAACACCG ACAC	60.0	323	INTRON	Ca_06613	B	NAC
Ca7_P1_7478084	Ca7	7478084	TAAAAA/TAAA	TTTGTTTTGGGAAGGG TCTG	GAAAGGTCCTTACATG CCACA	59.9	590	INTERGENIC	--	--	--
Ca7_P1_7478430	Ca7	7478430	TTT/TTTATT	GACCGCTTGTGACAAA GACA	TTTCATTTTCGATTGA GAAACA	59.9	922	INTERGENIC	--	--	--
Ca7_P1_7478533	Ca7	7478533	TAAA/TAAAAATAAAAAA	CATCGGAGCAAAAAATA ATTGG	ATACAAATGTGGGGGC ATGT	59.4	728	INTERGENIC	--	--	--
Ca7_P1_7491994	Ca7	7491994	AAAGAA/AAAGAAGAA	GCAAAGCTTGCTTTTT GTCC	ATAGAGGGCGCATGT CACTT	60.0	411	INTRON	Ca_06610	L	GeBP
Ca7_P1_7505530	Ca7	7505530	CAATGAA/CAATGAATGAA	GATGCCACTCGCAAGT ACAA	TGCACCATCCATCACT CACT	59.9	431	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_7507880	Ca7	7507880	G/GAGAA	TTGCACCACGAGATCT TGATA	TCAGAGTTGAACAATG GGCA	59.3	631	INTERGENIC	--	--	--
Ca7_P1_7508195	Ca7	7508195	TTATATATATA/TTATATATATATA	TTGCACCACGAGATCT TGATA	TCAGAGTTGAACAATG GGCA	59.3	631	INTERGENIC	--	--	--
Ca7_P1_7510196	Ca7	7510196	TC/TCC	TTGGAAGGGAAAAAGC AAGA	TGCATTTTATTCTGCA CCTGA	59.8	555	DRR	Ca_06609	--	TCP
Ca7_P1_7511132	Ca7	7511132	ATTTTT/ATTTT	AACGAAACATTGTGAG GATCG	GATGCCTTGCAACCAA GTCT	60.0	317	DRR	Ca_06609	--	TCP
Ca7_P1_7514729	Ca7	7514729	TTGTTTTATGT/TTGT	ATCAAAATTTTCAACA AAACTCA	TCATTTTCTTGCCAA GCCT	57.0	581	INTERGENIC	--	--	--
Ca7_P1_7517514	Ca7	7517514	CATATATATATA/CATATATATAT ATATA	CCACCCCAAGAAATG TAAA	CTAGTACTCGGTGCCC CAAA	59.7	780	DRR	Ca_06608	K	--
Ca7_P1_7517629	Ca7	7517629	TTATATATA/TTATATATATATATATA	CGCCATGGAAAAAGT AATC	CTAGTACTCGGTGCCC CAAA	59.4	427	DRR	Ca_06608	K	--
Ca7_P1_7525535	Ca7	7525535	TG/TGG	TCGTTTGATGAACCTC CACA	TGGAAATTCATGCCA CTCA	60.1	570	INTRON	Ca_06608	K	--
Ca7_P1_7537270	Ca7	7537270	ACA/ACATTCA	GACCCATGTGAAATTC AGGC	GGGTGTGACCGGCTT ATAGA	60.3	783	INTERGENIC	--	--	--
Ca7_P1_7543253	Ca7	7543253	AG/A	ATTAATATGCCAACTG GCCG	ACCACTACCCAATTCT TGCG	59.8	596	INTRON	Ca_06607	K	C2H2
Ca7_P1_7546216	Ca7	7546216	GTTTTTTTTT/GTTTTTTTTTTTTT	TTTCAACATCAAGACTA CGCTGA	ATTCCACAGCCATCAA CACA	59.9	235	DRR	Ca_06607	K	C2H2
Ca7_P1_7547228	Ca7	7547228	CTGAACATGAACAT/CTGAACAT	TGACGATTGTTGTAA AGGG	TTCATCAACCTTCCTC CCAG	59.5	746	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_7547816	Ca7	7547816	ATTTTT/ATTT	TGATGCTCCAGCAGAA GATG	GCAATGACCTAACTGC CCAT	60.1	585	INTERGENIC	--	--	--
Ca7_P1_7548039	Ca7	7548039	CAAAA/CAAAAAA	CAAGGCCCTTCATTT GGTA	CCCTTTCATGGTTCA CAGT	59.9	394	INTERGENIC	--	--	--
Ca7_P1_7550165	Ca7	7550165	C/CTTTT	ATGGTGTCGATAACG CCTC	AGTTGAACCCAAATTC ACGG	60.0	312	INTERGENIC	--	--	--
Ca7_P1_7550729	Ca7	7550729	ATTTTT/ATTTTT	CCGTGAATTTGGGTT AACT	CTCGCGTAATCCCAG TATT	59.8	602	INTERGENIC	--	--	--
Ca7_P1_7553972	Ca7	7553972	GA/G	CTCAATGCCGATTGT TTTT	TGGGGAGTTTGAGC TATTG	59.9	252	INTERGENIC	--	--	--
Ca7_P1_7555125	Ca7	7555125	ATTTTTTTTT/ATTTTTTTTT	CCAAGGACATGTGTG GTGT	TTTGCTGTTAAGCCC ATTG	59.3	334	INTERGENIC	--	--	--
Ca7_P1_7556594	Ca7	7556594	CTTT/CTT	CCTCAATTTGTCGGG AGAA	ACCGTTTAGACCACGC AAAG	60.0	539	INTERGENIC	--	--	--
Ca7_P1_7558065	Ca7	7558065	TTA/TTAAATA	TCGTCCACTTCCAATT GCT	GCATACAAGAAACCA CAACCA	60.6	211	INTERGENIC	--	--	--
Ca7_P1_7565779	Ca7	7565779	TAAATAAAATAAAATAAAATAAA/TA ATAAAATAAAATAAA	CATTCTAATCTCCAG CCCA	TAACAGGTCCAAGCCC AATC	60.0	666	INTRON	Ca_06605	R	--
Ca7_P1_7572271	Ca7	7572271	AATATATATATATATATATATATATA TATATATATATATAT/AAATATATATAT ATATATATATATATATATAT	AATGGGCAGAGGGAA GAGAT	CAAAATCATGAAAAAT CAAATAGTTC	60.0	785	DRR	Ca_06604	--	--
Ca7_P1_7573043	Ca7	7573043	C/CA	AATTCACATCAACGG ACCC	GCCAGTGGTTTTTATT CGGA	59.7	408	DRR	Ca_06604	--	--
Ca7_P1_7594254	Ca7	7594254	ATTT/ATT	GGCATTTGTTTCGGC TAAG	TTCAAGATTGGATTGC CTTTG	59.7	794	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_7597807	Ca7	7597807	A/A/T	TCCTTTATGATCAGCC CACC	CGTTCAACGGAGCAAT TTTT	59.9	356	DRR	Ca_06600	A	--
Ca7_P1_760518	Ca7	760518	AACACACACA/AACACACA	TCTAGCGACGGGTCTG ATCT	CAAATGCCAACAAGCG TTTA	60.0	365	DRR	Ca_03403	R	--
Ca7_P1_760856	Ca7	760856	GTTGAAGATTG/GTTGAAGATTGAAGA TTG	TAAACGCTTGTGGCA TTTG	AGTTCGCAGGCTCTGT TGTT	59.7	445	DRR	Ca_03403	R	--
Ca7_P1_7613709	Ca7	7613709	TAAAAAA/TAAAAA	CTGGGTAAAGACGAAC CAGA	CGATACCAACAACATC AAATTCA	60.1	744	INTERGENIC	--	--	--
Ca7_P1_7619973	Ca7	7619973	TTAATAATAATAAT/TTAATAATAAT	AATTGGGAGACTCAAG CGGA	TACCCGTGGGGTGTA CTTGT	59.8	306	INTERGENIC	--	--	--
Ca7_P1_7623705	Ca7	7623705	GTTTTTTTT/GTTTTTTTTTT	CTTACAGCTCCCGTGC TCAT	ACAGCTTCAGAAGTT CCGA	60.4	152	INTRON	Ca_06598	Z	MYB_related
Ca7_P1_7625840	Ca7	7625840	GTTTT/GTTTTT	CGAGCTTTCTCAAAG GGTG	ACTTGGGTTTGCAGT GACT	60.0	547	INTRON	Ca_06598	Z	MYB_related
Ca7_P1_7626364	Ca7	7626364	CTTTTT/CTTTTT	AGTCAGCTGCAAACCC AAGT	GGGAAGGTCATGCCA ACTTA	59.9	819	DRR	Ca_06598	Z	MYB_related
Ca7_P1_7626792	Ca7	7626792	AC/A	ACATTCGTGGAACAT CGGT	GGGAAGGTCATGCCA ACTTA	60.2	110	DRR	Ca_06598	Z	MYB_related
Ca7_P1_7633208	Ca7	7633208	GTTT/GTTTT	CAGCTGCATTGCTCCA TTTA	CATGTCCCATACTCGT GCTG	60.0	693	INTRON	Ca_06596	K	NF-YB
Ca7_P1_7635983	Ca7	7635983	TCAGGTACAGGTA/TCAGGTA	TCTCTTGAACGCGTA CATC	TATTTCAAGGAGCCAT TTGC	60.0	666	INTRON	Ca_06596	K	NF-YB
Ca7_P1_7637872	Ca7	7637872	GGACGA/GGA	CATTATTTCCGGTGTA CGCA	ACTTTCTTAACAAGTT GTGTGAAACAT	60.5	514	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_7647971	Ca7	7647971	TG/T	TTGGTGGCGTTGGTTA CATA	GTATCAACCGACCCCC TCTT	59.8	701	INTRON	Ca_06595	A	--
Ca7_P1_7654535	Ca7	7654535	ATT/AT	AAAGTTGGCCTCATTC CAAA	CCACCCCTAATAATAC GCCA	59.5	582	DRR	Ca_06595	A	--
Ca7_P1_7654914	Ca7	7654914	TC/T	TGGCGTATTATTAGGG GTGG	TTTATTGTTGGAAGGC TGGC	59.7	430	DRR	Ca_06595	A	--
Ca7_P1_7656393	Ca7	7656393	A/AG	TTTATTGTTGGAAGGC TGCC	TGGAGGAGAGTTGTG TCGTG	60.1	319	INTERGENIC	--	--	--
Ca7_P1_7668650	Ca7	7668650	ATTT/ATTTT	CATTTCCATCCAATTT TTGAG	CCACTTCTCATTTTGG TTTGG	58.5	501	DRR	Ca_06594	R	--
Ca7_P1_7669698	Ca7	7669698	GT/GTT	TGAGTCAGCGACTCCT TGAA	TTATTCATGCGCTCAA AATCC	59.7	284	INTERGENIC	--	--	--
Ca7_P1_7671749	Ca7	7671749	AA/AATA	TGCACCATTTATGTGA GGCT	TTCCAAATTCACATGC ATCC	59.2	571	DRR	Ca_06593	J	MYB_related
Ca7_P1_7674163	Ca7	7674163	TTAT/TTATGCATAT	CCTACATGAAAGCCAC AGCA	CAAATCCCAAAACCCT CTCA	59.9	359	DRR	Ca_06592	T	HB-other
Ca7_P1_7682330	Ca7	7682330	AATATATATATAT/AATATATATATATA TAT	TTTCAATCCATTCTTCA TACACA	ATTTTCTTGCAATTTGT GGGG	57.2	550	INTERGENIC	--	--	--
Ca7_P1_7682433	Ca7	7682433	CATATATATATATATATATATATATA TATATATATATATATATATATATATA TATAT	AATCGATTCAAATGGC ACTG	ATTTTCTTGCAATTTGT GGGG	58.6	142	INTERGENIC	--	--	--
Ca7_P1_7683130	Ca7	7683130	TAA/TAAA	TTCGATAAACCGCTAA TGCAC	GTACTIONGCTGCTTTG GAGC	60.1	847	INTERGENIC	--	--	--
Ca7_P1_7683885	Ca7	7683885	TTTGAGTTGAGTTG/TTTGAGTTGAGT TGAGTTG	CTCCAAAGCAGCCAAG TACC	TCTTGTAATCACTGC CTGC	59.9	464	INTRON	Ca_06591	J	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_7686191	Ca7	7686191	GTCT/GT	AATCCTATGGCGTCAG CATC	ACCGTTGCAATGATGA CAAA	60.1	590	DRR	Ca_06591	J	--
Ca7_P1_7687553	Ca7	7687553	G/GA	GGGACCATGGAAGTGA AGAG	AGCACCATCATCCATG ACAA	59.5	686	INTERGENIC	--	--	--
Ca7_P1_7688075	Ca7	7688075	TGGG/TGG	TTGTCATGGATGATGG TGCT	CCTCCATGGGTGAAAG TTTG	59.9	664	INTERGENIC	--	--	--
Ca7_P1_7689690	Ca7	7689690	GTTTTTTTTT/GTTTTTTTTT	TCAGAAACATCATCAAA CGCA	TGGTTTCAAAACAAA ATGCAG	60.3	952	INTERGENIC	--	--	--
Ca7_P1_7691832	Ca7	7691832	TAA/TAAA	AATGAAAGAGGGCAGT TTGG	ATTGAAGGTTCTGCAG GGTG	59.2	387	DRR	Ca_06590	--	ERF
Ca7_P1_7694767	Ca7	7694767	AATAGATAGATA/AATAGATA	TCTCATTGATGACCCA AAGG	CACAATCACAAAGTGG GACG	58.5	722	INTERGENIC	--	--	--
Ca7_P1_7695348	Ca7	7695348	ATTTTTTTTTTT/ATTTTTTTTT	CGTCCCACITTTGTGAT TGTG	ACCAGTGTCTACCGG TTCA	60.0	433	INTERGENIC	--	--	--
Ca7_P1_7701750	Ca7	7701750	CA/CAA	CCGATTCTATTTGTTGA AGGC	TAACCCCTCCAACGCT ACAC	58.7	492	INTERGENIC	--	--	--
Ca7_P1_7703445	Ca7	7703445	AA/AATATGGATTAGTAGACA	TCCAAAAGGTTCTTGC ATCC	AACATGGAGAATGAAA CCGC	60.1	641	INTRON	Ca_06588	--	--
Ca7_P1_7712898	Ca7	7712898	T/TC	TATGCAACTCCAAGAG CACG	TTCGAACGGTAGTCCT CGAT	60.0	797	INTERGENIC	--	--	--
Ca7_P1_7721907	Ca7	7721907	A/AT	TTGATGTGAAAAGCGA ACTCA	ATTGGGAGCATGGAC GAGTA	59.5	393	INTERGENIC	--	--	--
Ca7_P1_7724983	Ca7	7724983	GTTT/GTT	TCAACAAAGCTTAATTG GCG	ACACTGCCGAAAGTTT TGCT	59.0	724	DRR	Ca_06585	J	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_7738038	Ca7	7738038	TC/T	GATTCCATTGGGATTG GTTG	CACGTTTTAGAGATGT CCATTTTG	60.0	505	INTERGENIC	--	--	--
Ca7_P1_7738227	Ca7	7738227	AAAAAAAAAAAA/AAAAAAAAAAAA AAATAAAAA	GATTCCATTGGGATTG GTTG	CACGTTTTAGAGATGT CCATTTTG	60.0	505	INTERGENIC	--	--	--
Ca7_P1_7738595	Ca7	7738595	GTATATATATATATATATATATATA/ GTATATATATATATATATATATATA	CAAAATGGACATCTCT AAAACGTG	TCTCTACCCAATCAC CAAA	59.9	583	INTERGENIC	--	--	--
Ca7_P1_7753007	Ca7	7753007	GTTTTT/GTTTTTTTT	GGAGAATCGCCAACCA GATA	GGGGAACCAATGCA GGTAA	60.0	542	CDS (FRAME SHIFT)	Ca_13243	KL	G2-like
Ca7_P1_7762144	Ca7	7762144	TTTATTATTATTATTATTATTATTA TTATTATTAT/TTTATTATTATTATT ATTATTATTAT	TCAAACGAGGGAACT GAAAA	GGAGAGGGAGAGAGT GGGTT	59.7	748	DRR	Ca_13242	TZ	--
Ca7_P1_7800626	Ca7	7800626	CT/CCTT	AGGTTGAGTGGGTTAC GACG	AACAAATGGCACTTCA AGAAAAA	60.0	274	DRR	Ca_13238	--	--
Ca7_P1_7813651	Ca7	7813651	T/TC	GCAGCAGTCCCAGTC TAAC	CAGCTTTATGGCATCC CTGT	60.0	826	DRR	Ca_13235	O	--
Ca7_P1_7817091	Ca7	7817091	ATTT/ATTTT	TGGCAGTAAGTAAAA GTATTTGGC	CGTCTCTTCCTCCAAG CATC	60.0	738	DRR	Ca_13234	J	MYB_related
Ca7_P1_7819590	Ca7	7819590	CGTGT/CGT	GCTGAATTTTGTCCCA CGTT	CGAACATGTCTCCAC TCCT	60.0	309	INTERGENIC	--	--	--
Ca7_P1_7827718	Ca7	7827718	AT/ATTATT	CACCATTTTCTCTCCCT TTCC	TCAGAAGGCTAAAAAG CCCA	59.9	516	DRR	Ca_13233	--	--
Ca7_P1_7842275	Ca7	7842275	CAAAAA/CAAA	AATTTGTGGGTCCCTT ACCC	ACAAAAGCTCCACAAC CACA	59.9	728	INTERGENIC	--	--	--
Ca7_P1_7849580	Ca7	7849580	TGTAGTAA/T	CATGGACTAAAGAATT GAACATTGA	AACCTTATCTGTTGTG TATGTGGAA	59.4	836	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_7850911	Ca7	7850911	CAAAAAAAAAAAAA/CAAAAAAAAA	TCGATGATATTTTGT CGCTT	TGGAGCTTGCAGCTCA TACA	58.8	440	INTERGENIC	--	--	--
Ca7_P1_7857534	Ca7	7857534	TCCC/TCC	CCAACAGTGAACCTCA CATGG	AGCAGTCGCTTCGTC AGTT	59.0	500	INTERGENIC	--	--	--
Ca7_P1_7861086	Ca7	7861086	T/TC	TATGGTCACGCTTTCT TCCC	TGTTGTTTTTCTATGG CATCTCTT	60.1	856	INTERGENIC	--	--	--
Ca7_P1_7861259	Ca7	7861259	TA/T	GCCAATGTCTTATCCT CCTTT	GGTCTCGCTAAATAA TTCGG	58.7	961	INTERGENIC	--	--	--
Ca7_P1_7861609	Ca7	7861609	TCC/TC	AAGAGATGCCATAGAA AAACAACA	CACCTATACAAACACC AAGCGA	59.2	303	INTERGENIC	--	--	--
Ca7_P1_7861934	Ca7	7861934	ATTT/ATTTT	TCGCTTGGTGTTGTA TAGGTG	TTCTAATGCTTCGGCA ATCC	60.1	452	INTERGENIC	--	--	--
Ca7_P1_7865528	Ca7	7865528	C/CAT	ACTTGCCTAACATGCA CCTG	TTCCGTGTTATGATT GCCA	59.8	456	INTRON	Ca_13231	--	bHLH
Ca7_P1_7865749	Ca7	7865749	ATATTTA/ATA	TGGCAAATCATAACAC GGAA	GCATCACTTTTACGCA TCCA	59.9	195	INTRON	Ca_13231	--	bHLH
Ca7_P1_7867797	Ca7	7867797	TAAA/TAAAA	GCAGCTTCAACTCTCG CTCT	GATCTCGGTGTGTTTG GCTT	60.0	797	INTRON	Ca_13231	--	bHLH
Ca7_P1_7870535	Ca7	7870535	GAAAAA/GAAAAA	GCCCTTTTCCATTCAA ACAA	ACCTTGCAAGAGGGC AACTA	59.9	448	INTRON	Ca_13231	--	bHLH
Ca7_P1_7875761	Ca7	7875761	ATT/ATTT	CTTCCACCAAGGATA GGCA	GGCTTTCTGCCACTCA TCTC	60.1	820	INTRON	Ca_13230	--	MIKC
Ca7_P1_7875812	Ca7	7875812	A/ATC	GTTATTGGCCAGTCGA GCAT	GGCTTTCTGCCACTCA TCTC	60.1	453	INTRON	Ca_13230	--	MIKC

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_7879648	Ca7	7879648	ATTTTTTT/ATTTTTTTTT	TGTAAAAACAAAAGAG CGGTGA	TGCTGTGTGGAATATC CATAATAAA	59.8	740	INTERGENIC	--	--	--
Ca7_P1_7880271	Ca7	7880271	A/ACTGTTAG	TGGATATTCACACAG CATTAAAG	TTGGAACCTGTCTCAA CCGA	59.0	727	INTERGENIC	--	--	--
Ca7_P1_7880999	Ca7	7880999	TAAAAAAAA/TAAAAAAA	GGTAGCAACGCTGATG TGTC	AGCATGGCATATCCAG AAGG	59.3	473	INTERGENIC	--	--	--
Ca7_P1_7881505	Ca7	7881505	CTTTTT/CTTTT	ACCTTCTGGATATGCC ATGC	GAGATGGGATCTCCAA CATCA	59.9	189	INTERGENIC	--	--	--
Ca7_P1_7884451	Ca7	7884451	ATAAATTTTAA/ATAAATTTTAAATTTT AAA	AAATGGACCAATCAA CAACC	TGCATCTCAATCAATT CGGT	58.7	611	INTERGENIC	--	--	--
Ca7_P1_7886017	Ca7	7886017	GGA/G	AAGAAAAGGTAGGGGC ATGG	TTCGTCCTTTTTCACC ATCA	60.3	561	INTERGENIC	--	--	--
Ca7_P1_7888043	Ca7	7888043	A/AC	TAAGTGAAGCCAGGA GGGA	TTCAACACAGCCCAT ACCA	59.6	645	DRR	Ca_13229	--	--
Ca7_P1_7889177	Ca7	7889177	CTCTCTTTAAAT/CTCTCTTTAAATTCT CTTTAAAT	TGGCCAATTGACAGA ATGA	TGGGTCCCAAAAACCA TAAA	60.0	434	INTRON	Ca_13229	--	--
Ca7_P1_7894039	Ca7	7894039	TGTATTAAATAAGTATTAAATAAG/TGT ATTAAATAAG	TGAGCACCCAAGGATA GGTC	GATGGGAAATGGAATT GGTG	60.1	668	INTERGENIC	--	--	--
Ca7_P1_7895346	Ca7	7895346	ATAAGGCATTAAGGCATT/ATAAGGCA TT	AACCATATGCCCTAC ATGC	AGAAATCAAGCCCAA CCCT	59.7	516	INTERGENIC	--	--	--
Ca7_P1_7910843	Ca7	7910843	ATA/ATACTTA	AACACACGTTACGCA ACTC	AAGCATGTTTTACCTT TTCACACA	59.8	477	INTERGENIC	--	--	--
Ca7_P1_7912031	Ca7	7912031	GTTTT/GTTTTT	GATGAGGATGGGTGG TGACT	CTGGCAACATTGAGTT CTTCA	59.8	283	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_7913475	Ca7	7913475	AATATATATATATATATATATATATA TATA/AATATATATATATATATATAT ATA	CCCTCACACCTCATCA ACTTT	TTGAACATGATTGAAT TGAGCA	59.1	747	INTERGENIC	--	--	--
Ca7_P1_7921206	Ca7	7921206	ATGTTGT/ATGT	TTGGCACAAATAGCAC CAAA	TTTCAAATCCTTTTGC CCTG	60.1	779	INTERGENIC	--	--	--
Ca7_P1_7921944	Ca7	7921944	GTTTTT/GTTT	AAGTCCAGGGCAAAAG GATT	CAAATTGAACATCGTT CCGA	59.9	688	INTERGENIC	--	--	--
Ca7_P1_7923806	Ca7	7923806	GAAA/GAAA	GAGTCGCGATCTCTTT ATTGTTT	GCACTTCCAATTGCCT TTGA	59.0	565	INTERGENIC	--	--	--
Ca7_P1_7927202	Ca7	7927202	ACAGAA/ACAGAATTGTGCAGAA	AGTCCCGTGCATGGTA TTGT	CATGACTAAAAGGCC GTGT	60.3	628	DRR	Ca_13226	--	--
Ca7_P1_7941581	Ca7	7941581	TTATATATATA/TTATATATA	CTCGAACCAATCACAT GCAG	CGTGCACAGCACAGG TATTA	60.3	228	DRR	Ca_13223	--	--
Ca7_P1_7944979	Ca7	7944979	TATGAAATGAAAT/TATGAAAT	ATTTAATGGCTTCAC ACGC	CGTACTCAACAGATT GGATCG	60.0	640	DRR	Ca_13222	K	MIKC
Ca7_P1_7946368	Ca7	7946368	TACACACACA/TACACACA	AAACCTATGGTCCAAA CCGA	ATGCAGGATAAGGCAC TCCA	59.3	692	INTRON	Ca_13222	K	MIKC
Ca7_P1_7948667	Ca7	7948667	CGAA/C	TTTCCCCATGAAACTA CCG	ATGATCAGGCCCAAAA TGTA	59.8	575	INTRON	Ca_13222	K	MIKC
Ca7_P1_7950061	Ca7	7950061	CATTGCAATTGCAATTGCA/CATTGCA ATTGCAATTGCAATTGCA	GCCACAGCCTTTTCT CTTG	TGCTGAAGTTGCTCTC ATCG	60.0	442	INTRON	Ca_13222	K	MIKC
Ca7_P1_7952171	Ca7	7952171	AGGGG/AGGG	TATCCAAATTGCGTCG GATT	ACTCGGATGTCTCAAT GCAA	60.3	307	INTERGENIC	--	--	--
Ca7_P1_7952437	Ca7	7952437	TGTAAG/TGTAAGTAAG	AGGGGAAAATTGCATT GAGA	TTGAATTATGCCTTCG TGACC	59.5	622	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_7954210	Ca7	7954210	TTTTTTGTTTTGTTTT/TTTTTGT TTGTTTTGTTTTT	TGGGAGAAATTTGAG TGGG	AAATGGGAGATCCAAA ATTGC	59.9	458	INTERGENIC	--	--	--
Ca7_P1_7954760	Ca7	7954760	AAATAATAATAATAATAATAAT/AA ATAATAATAATAATAAT	TGCAATTTTGGATCTC CCAT	TGGAAAAATCAAGGTG TCCAT	60.3	422	INTERGENIC	--	--	--
Ca7_P1_7958075	Ca7	7958075	CAATGGTAAT/CAATGGTAATGGTAAT	CGAGCATCAAAGGTGA GGAT	ATTGGGGAGGATTCTT TGGA	60.2	321	INTERGENIC	--	--	--
Ca7_P1_7959318	Ca7	7959318	CA/CAA	CACAATGACCGACACA CACA	CTTTGGTGGTTGTTTT CCGT	60.0	701	INTERGENIC	--	--	--
Ca7_P1_7959535	Ca7	7959535	GTTTTTTTT/GTTTTTTTTTTTTT	AATAAACACCGAATAC GCCG	AGACGCTTGCCTAAA CAAT	59.9	597	INTERGENIC	--	--	--
Ca7_P1_7962835	Ca7	7962835	A/ATTCT	TGGAATAAACTCTGTG CCCC	CGATGACGACAACATA ACGG	59.9	283	INTERGENIC	--	--	--
Ca7_P1_7962974	Ca7	7962974	AACAGAGTTTGTTAG/A	TGGAATAAACTCTGTG CCCC	GACGGCGACAAAAACA AAAG	59.9	365	INTERGENIC	--	--	--
Ca7_P1_7977507	Ca7	7977507	CATACTATATAAT/CATACTATATAA CTATATAAT	ACTGTCTTTTTCGCGC ATTC	TGCTTTGAATCACGCA GTTC	60.3	327	INTERGENIC	--	--	--
Ca7_P1_7991286	Ca7	7991286	CAAA/CAA	GTTCAATTTGGGTGGCA CTTT	CAATCTGCTCAAAGCC CAAT	59.8	918	INTRON	Ca_13219	T	--
Ca7_P1_8002139	Ca7	8002139	ATTT/ATTTT	CAAAAATTTGAATTGG CCGT	TGTTCTTCTTGCTTT GTGG	59.8	774	INTERGENIC	--	--	--
Ca7_P1_8010587	Ca7	8010587	ACG/ACGCG	TGGAAGTGGGAAAATG GAAG	CTAAGCTGCATTTGTG GCCT	59.9	393	DRR	Ca_13217	R	NF-YA
Ca7_P1_8010761	Ca7	8010761	AGAGCGAGC/AGAGC	TGGAAGTGGGAAAATG GAAG	CTGATAGAAGGCCCAA TCCA	59.9	940	DRR	Ca_13217	R	NF-YA

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_8010935	Ca7	8010935	TAAAAAA/TAAAAA	AGGCCACAATGCAGC TTAG	CAAGTCAGCTTTTCC AGGC	60.4	586	DRR	Ca_13217	R	NF-YA
Ca7_P1_8012555	Ca7	8012555	TAAAAAAAAAAAAAAAAA/TAAAAAAA AAA	GGGTTAGGGGCAGAG AAGAG	GGGGTCCATCAACAA AATG	60.2	460	INTERGENIC	--	--	--
Ca7_P1_8016813	Ca7	8016813	TAATAAATAAATAAATAAAT/TAA TAAATAAATAAATAAATAAAT	TGACCTCTGCAACCTT TTCC	GGTGACGTGCTACTT GTGA	60.2	200	INTERGENIC	--	--	--
Ca7_P1_8019951	Ca7	8019951	ACTACAT/ACTACATAGTCTACAT	TAATGTATAGGGGAG GGGG	CTGTCGTCATCACATC TTGCT	59.9	305	INTERGENIC	--	--	--
Ca7_P1_8023022	Ca7	8023022	TAAA/TATAAAA	GGAACCACGAGAGAAG GAGA	GGGTGAGATCTTGCA GTGGT	59.4	468	INTERGENIC	--	--	--
Ca7_P1_8028807	Ca7	8028807	AT/ATT	TCAAGGTTTCTCCCA CCAC	GGTGGCTTCTTGTGG TGTT	59.9	608	DRR	Ca_13215	--	--
Ca7_P1_8032032	Ca7	8032032	GAAAAAAAA/GAAAAAAA	CAAGAAATCCGATCA CTCCA	CACAACACACGATGAC TCCC	60.1	639	INTERGENIC	--	--	--
Ca7_P1_8040094	Ca7	8040094	ATT/AT	AAACCGCAATTTTCCT TCA	TTGAAGGCCCATTTT CATC	59.6	388	DRR	Ca_13214	T	--
Ca7_P1_8058009	Ca7	8058009	TATTTTA/TATTTTAATTTTA	TGAGAAAGTGTGGGAT GAACA	TGCATTTTACCAAAT ATCCGTT	59.1	731	INTERGENIC	--	--	--
Ca7_P1_8071028	Ca7	8071028	ATTTTTT/ATTTTTTTTTT	CCAACTGGATTGCTT CCTC	AGTTCATTCCACCACA TCCC	59.7	497	INTERGENIC	--	--	--
Ca7_P1_8082085	Ca7	8082085	TTTAT/TT	GCCACACAGGATTTTG CTTT	CGTGCAATTTTTCCTA TTGGT	60.1	619	INTERGENIC	--	--	--
Ca7_P1_8082220	Ca7	8082220	TC/T	CGATTCAATCTTGATTC CGT	CGTGCAATTTTTCCTA TTGGT	57.6	491	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_8101152	Ca7	8101152	G/GCCT	AAGATTTTGCTGTGCG TGCT	TTCAAGGTGGAAGAG GGATG	60.0	785	INTERGENIC	--	--	--
Ca7_P1_8104458	Ca7	8104458	TAAA/TAAAA	GACCTTTTGGTCAAGC ATCC	GTGGGTGGGAGGAA TAGAT	59.5	699	INTERGENIC	--	--	--
Ca7_P1_8107100	Ca7	8107100	T/TG	CAACGATAAATAGCCG TCTTCC	CCTTAGGCCGCATGAA ATAA	60.0	271	INTERGENIC	--	--	--
Ca7_P1_8107965	Ca7	8107965	G/GTT	CACAAAATTTTAGGGG GCCT	AGAAAGGGGGATCAA GGAAA	60.2	679	INTERGENIC	--	--	--
Ca7_P1_8109262	Ca7	8109262	TG/T	ATCAATGCGCGAGTGT TGTA	AGTGGCTATTGCACC ATCC	60.3	410	INTERGENIC	--	--	--
Ca7_P1_8109593	Ca7	8109593	CAA/CA	ATGGACCTAAGCCCGT CTTT	TTTCTATTGCCCTT GTCG	60.0	606	INTERGENIC	--	--	--
Ca7_P1_8110405	Ca7	8110405	CTATTATTATTAT/CTATTATTATTAT ATTATTATTAT	CGACAAGGGGCAAAAT GAAA	TGCATTACCTGACCAT CCAA	60.1	654	INTRON	Ca_13205	R	G2-like
Ca7_P1_8113539	Ca7	8113539	T/TACTACC	GATAACTTCATGCAAG CGCA	ATCGTTGTGATTCCAA AGGC	60.0	544	DRR	Ca_13204	--	--
Ca7_P1_8117813	Ca7	8117813	CAATTGAA/CAATTGAAATTGAA	AATTCCAATGGGGTTC ATCA	TCTCCGGGTAGTCAG AACAA	60.0	540	INTERGENIC	--	--	--
Ca7_P1_8122423	Ca7	8122423	A/AAG	AGGAAGTTGTGCAAG GATG	GGGCAGGTGAAGTT AACAA	60.1	535	INTERGENIC	--	--	--
Ca7_P1_8130669	Ca7	8130669	AAAG/AAAGTAAG	TGGACCTATGGTTGGT CAAA	AAAGCTGCCAACGAAA CACT	58.8	647	DRR	Ca_13203	PQ	--
Ca7_P1_8147691	Ca7	8147691	CTAT/CTATTAT	ATGTACCGACTCTCC GCTG	TCAGCCAACATTGTTT CTTTTG	60.3	510	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_8147843	Ca7	8147843	CT/C	ATGTACCGACTCTTC GCTG	GTTGTGGGATGAATTG ACCA	60.3	752	INTERGENIC	--	--	--
Ca7_P1_8152252	Ca7	8152252	AAGA/AAGAATTCAGA	CAAATTTGACCGACAC TGCT	AGGAACCTTGAAGTTG GGGT	58.8	816	INTERGENIC	--	--	--
Ca7_P1_8158726	Ca7	8158726	ATTATTTTATT/ATTATTTTATTTT TT	TTGACCACTACTGCC ATCA	TTTCTCTCCGTTTCAT GAGG	60.3	677	INTERGENIC	--	--	--
Ca7_P1_8160274	Ca7	8160274	TTCT/TT	TTTGCAAGGATTGAA AGGA	TAGATAGGGGAAGG AGGGA	58.3	373	INTERGENIC	--	--	--
Ca7_P1_8160639	Ca7	8160639	CATAT/CATATAT	TCCCTCCTCCCCCTA TCTA	GTGGATCATTACCATG GCCT	59.9	443	INTERGENIC	--	--	--
Ca7_P1_8167066	Ca7	8167066	GAAAAAAAA/GAAAAAAAA	ACTCTAGGCAAAACGG CAGA	AAACGCACCTTGTTTC CAAC	60.0	645	INTRON	Ca_13198	--	ERF
Ca7_P1_8167116	Ca7	8167116	TAAAAAAAA/TAAAAAAAA	ACTCTAGGCAAAACGG CAGA	AAACGCACCTTGTTTC CAAC	60.0	645	INTRON	Ca_13198	--	ERF
Ca7_P1_8168188	Ca7	8168188	AGG/AGGG	GCTGAAAGAGAGATGG TGGG	ATCCTTCAGCAACGAT CCAC	59.8	571	DRR	Ca_13197	S	--
Ca7_P1_8168245	Ca7	8168245	TCC/TCCC	GAAAGAGAGATGGTGG GTGC	ATCCTTCAGCAACGAT CCAC	59.7	568	DRR	Ca_13197	S	--
Ca7_P1_816979	Ca7	816979	AAATAAAATTAATAAAAT/AAATAAA AATTAATAAAATTAATAAAAT	CGACCAATGTTTTCTT CTTCA	CAGATCATGGCACGTG AAAG	59.2	496	DRR	Ca_03396	--	--
Ca7_P1_8175747	Ca7	8175747	TATTAATTAA/TATTAA	TGCGGATCAATCTTCC TACC	TGTAAGCCGCTCGTTT TCAA	60.0	373	INTRON	Ca_13196	Q	B3
Ca7_P1_8177976	Ca7	8177976	CTTTTTTTTTTT/CTTTTTTTTT	CGTTTTCGCTGTTTCT GTGA	ATGCCAGATCATAGTC CCGA	60.0	719	INTRON	Ca_13196	Q	B3

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_8178102	Ca7	8178102	AT/ATT	CGTTTTGCTGTTCT GTGA	CCGGCCTGTCAGGTC TAATA	60.0	863	INTRON	Ca_13196	Q	B3
Ca7_P1_8180867	Ca7	8180867	TATGATATGATGATAT/TATGATAT	ATGTGACCAATGTTGG GGTC	TGCAAGTCTTGTCATT CAATGTT	60.5	840	INTERGENIC	--	--	--
Ca7_P1_8181056	Ca7	8181056	ATTTTTTTT/ATTTTTTTT	AAAGATAATTCACGAA TCGATCC	GGTGTTCGCAATGCAA AATTA	59.7	740	INTERGENIC	--	--	--
Ca7_P1_8187433	Ca7	8187433	CACAA/CA	TCTGTCACCAAGTCCA ACCA	TGTTAAGGGCGTCATC TTCC	60.1	669	INTRON	Ca_13195	O	--
Ca7_P1_819442	Ca7	819442	ATTAG/A	TTCACGAAATTTGTTCC CCT	TGTACATTTCTAAAA CACATTGA	59.4	784	INTERGENIC	--	--	--
Ca7_P1_8215292	Ca7	8215292	AG/AGG	CACTAACGCCAACCAT GAGA	AAAAGTTACAAAGCGG AGATGC	59.7	345	DRR	Ca_13193	--	--
Ca7_P1_8216237	Ca7	8216237	TGG/TGGG	TTCTTGAACCTTGGGC ATTC	CAATTGTTGGGGAGGA AATG	60.1	766	DRR	Ca_13193	--	--
Ca7_P1_8221588	Ca7	8221588	GAAAGGAAAAAGGAAAAAGGAAAA A/GAAAGGAAAAAGGAAAA	TGAAAAGATGGATGTG CGAG	TCTAATATGGGTGTGC GGGT	59.8	123	INTERGENIC	--	--	--
Ca7_P1_8232230	Ca7	8232230	TCCCC/TCCCC	GCTTCATGGAGCCTGA ACTC	CAAAAGAAGGCAGATG CACA	60.0	426	DRR	Ca_13191	--	--
Ca7_P1_8236684	Ca7	8236684	ATTTTTTTTT/ATTTTTTTTTT	GGTGTGTTGGGCTTGA AGAG	CGCAAGTAAGCTTCAC CGA	59.7	531	INTERGENIC	--	--	--
Ca7_P1_8236891	Ca7	8236891	TTGATATGA/TTGA	TGCACAGCGGAGATAA TTTG	TGACTTTGCGGTCAAA GATT	59.8	259	INTERGENIC	--	--	--
Ca7_P1_8241298	Ca7	8241298	CATATATATATATAT/CATATATATAT ATATATATATATATA	ATGCATAAATGACCTT GGCA	ATGGTCCATGTGTTAG GGGA	59.0	298	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_8243044	Ca7	8243044	TGCTAGCT/TGCT	AAATTCTTTGCTACAC GCAA	TTGACTTTTTATCAC CCGC	59.8	530	INTERGENIC	--	--	--
Ca7_P1_8246509	Ca7	8246509	CTAGAAAAT/CTAGAAAATAGAAAAT	TGATTTGGGGTATCA CGTT	AAAAGCCTCTTGCTAT GCCA	60.1	634	INTERGENIC	--	--	--
Ca7_P1_8246782	Ca7	8246782	TAA/TAAA	TGATTTGGGGTATCA CGTT	AAAAGCCTCTTGCTAT GCCA	60.1	634	INTERGENIC	--	--	--
Ca7_P1_8250120	Ca7	8250120	TATATTGATATTG/TATATTGATATTGA TATTG	GCAGCTGGTGTGTTT CTGA	TGCAAGAACTGAAGTG GGTG	60.0	546	DRR	Ca_13190	R	C2H2
Ca7_P1_8252898	Ca7	8252898	TAA/TAAA	TGACCGCTGTCCTTTT TTTT	ATGGGGCACATTGTTC ATCT	59.9	401	INTERGENIC	--	--	--
Ca7_P1_8254319	Ca7	8254319	TAAAAAAA/TAAAAA	CATTGTCAATTATTGAT TGACACTTA	TGAAATGGGATGAAGA CGTTC	58.1	466	INTERGENIC	--	--	--
Ca7_P1_8266679	Ca7	8266679	AATGAT/AATGATGAT	ACATGGGATCCGAAAT TGAG	TTTTCCAAGTAAACGA CGGC	59.8	250	DRR	Ca_13186	--	--
Ca7_P1_8268473	Ca7	8268473	CCAATAACA/CCAATAACAATAACA	TATCTACGTTGGTCCG AGGG	ATGGGGGCATGAGTTT ATGA	59.9	630	DRR	Ca_13187	U	--
Ca7_P1_8269385	Ca7	8269385	T/TA	GCTGCAAGAACACTCT TCCC	GTGGCGGTCGTTATGT TTCT	60.0	479	INTRON	Ca_13186	--	--
Ca7_P1_8272783	Ca7	8272783	AG/A	GTGTCCTTTGCTGGAG TGGT	CCACCACTATCTCTCT TTAACGG	60.2	960	INTERGENIC	--	--	--
Ca7_P1_8303689	Ca7	8303689	CTTTTTTTTT/CTTTTTTTTT	TTTTGGACCACTTTGC TGTG	ACGAGGCTTGTGACCT CATT	59.7	326	DRR	Ca_13182	--	FAR1
Ca7_P1_8304955	Ca7	8304955	GTTTT/GTT	AGTTTCGAATCCTCTC CTGTG	TGAGGGGAGGATCCA CTGTA	58.4	154	DRR	Ca_13182	--	FAR1

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_8305145	Ca7	8305145	T/TA	TGATACAGTGGATCCT CCCC	GCTACAGGTAGACGT GCGGT	59.7	451	DRR	Ca_13182	--	FAR1
Ca7_P1_8310112	Ca7	8310112	ATG/A	AAAAATTGCGGTCAAC ATCC	TTGTCACTTTCCACCA CCAA	59.8	308	INTERGENIC	--	--	--
Ca7_P1_8310630	Ca7	8310630	ATTTTT/ATTTTTTTTT	TTGGTGGTGGAAGTG ACAA	TGAACCCCAACAAC AAGG	60.0	562	DRR	Ca_13181	--	--
Ca7_P1_8311161	Ca7	8311161	AT/ATGT	CCTTGTGTTGTGGGTG TTCA	TCATCCCCGAAAAC TACC	60.5	670	DRR	Ca_13181	--	--
Ca7_P1_8315825	Ca7	8315825	CAATCATTT/CAATCATTTACTAATCAT TT	GCCATATCACCTTTGA TCAAGTC	TGCCATGACACAAAC ACAC	59.9	142	INTERGENIC	--	--	--
Ca7_P1_8318669	Ca7	8318669	TGCAC/T	AATAGACATGGCAACA GGGC	TGAACGGAGAAAATC GCTT	60.0	173	DRR	Ca_13179	--	--
Ca7_P1_8344745	Ca7	8344745	ATTTTT/ATTTTT	TGAACCTTGTCTGTT GGCA	AAGATGCGTGGAGGA AGAGA	60.3	551	DRR	Ca_13175	J	MYB_related
Ca7_P1_8353345	Ca7	8353345	AGGG/AGG	TGCAAGAGCAAGCAAT GAAC	TCTTTCAACCTCCC TCTT	60.1	559	DRR	Ca_13173	D	WRKY
Ca7_P1_8363466	Ca7	8363466	CCTTT/CCTTTCTTT	GCAACCACAGACACAG AACG	TCAAATGTGGTGTAGG GGGT	60.4	599	INTERGENIC	--	--	--
Ca7_P1_8366506	Ca7	8366506	AAA/AAATAATAA	GGTTATGGGCATGTCC AACT	ATCACTGCTTAGGTGT GGCA	59.7	479	INTERGENIC	--	--	--
Ca7_P1_8366630	Ca7	8366630	G/GTAT	AAGCAGTGATCCAAC TCTCA	TGGAATTATAAACCG ATTAAAGGTG	59.9	210	INTERGENIC	--	--	--
Ca7_P1_8370391	Ca7	8370391	TAAAAAAAA/TAAAAAAAAA	GGTTGAGAAATCAAG TGGTTTG	TGATCTCATCCCAAT CAAAAA	59.9	408	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_8373941	Ca7	8373941	CT/CTT	GCAGTTTGGTCCCC TATT	TTGTTTCTCCCAGTT TTGG	60.2	279	INTERGENIC	--	--	--
Ca7_P1_8384302	Ca7	8384302	CTAATAATAATAATAATAATAATA TAATAATAATAATAATAATAATA TAATAATAATAATAATAATAATA A	AAGAAATGCAGGCAAT CACC	AAAAGGCTTCGCGTGA GTTA	60.1	386	INTRON	Ca_13172	--	--
Ca7_P1_8391794	Ca7	8391794	TG/TGG	GAAGGCGCCAAAACT AAGA	GCATGAAAATTTGCCA CCTT	59.5	501	INTERGENIC	--	--	--
Ca7_P1_8409774	Ca7	8409774	CTTT/CTT	ACGCTCTGTATGCAGC CTTT	TGCATTGTAGTCATCC CGTC	60.0	109	INTERGENIC	--	--	--
Ca7_P1_8409838	Ca7	8409838	CGGG/CGGGG	TGCAGCCTTTTCACCT TCTT	CGGTGCACAACCTATC TTGC	60.0	122	INTERGENIC	--	--	--
Ca7_P1_8427773	Ca7	8427773	ATGTAATGT/AT	GGAAGGAGGGAATGA GAAGG	TTTGTTCAGGGAGGAT TTGG	60.0	352	INTRON	Ca_13164	--	NAC
Ca7_P1_8432025	Ca7	8432025	TT/TTAAGTTCGGT	TTCAAAATTGAATGTG CCCT	GCATTGAAGATGAGG AGGC	58.1	539	INTERGENIC	--	--	--
Ca7_P1_8432204	Ca7	8432204	CG/C	TGCACAATTTCTCACTT GCC	TCTTCCATGCAAGTC CTCA	59.8	226	INTERGENIC	--	--	--
Ca7_P1_8436570	Ca7	8436570	TC/T	GTGCCGCATGTGTAGC TTTA	TGGCAAGTATCAATGC AAGC	59.9	594	DRR	Ca_13162	G	MYB
Ca7_P1_8437623	Ca7	8437623	CT/CTTT	TTTGACTACTTGCCTG GCAG	ATGTTGCCTGGGTTGC TATC	60.1	534	DRR	Ca_13163	O	TCP
Ca7_P1_8438347	Ca7	8438347	AGGGG/AGGGGG	GATAGCAACCCAGGCA ACAT	ACATCGTGATGCAATG GAAA	60.0	510	DRR	Ca_13163	O	TCP
Ca7_P1_8440281	Ca7	8440281	T/TG	TTTAGCTCCAGGCTT TTCA	CATCAAAGCAGGAGCT GACA	60.0	608	INTRON	Ca_13162	G	MYB

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_8442048	Ca7	8442048	GGTTA/GGTTATTAGTGAGTTA	TTGGCGATTCTGTGG TGTA	TTGAAGCACAAAGTG GCTG	60.1	597	INTRON	Ca_13162	G	MYB
Ca7_P1_8443837	Ca7	8443837	CGTGTG/CGTG	GTGGTGGGCAACGAG AGTAT	TTCAACCCGAAAACCTC AAAC	60.0	240	INTERGENIC	--	--	--
Ca7_P1_8445186	Ca7	8445186	TAAAAAAAAAAAAAAAA/TAAAAAAAAA	GCATGCCATTGGTTTA AGTTT	GGACTAAAACGTTGCC TGAAA	59.0	443	INTERGENIC	--	--	--
Ca7_P1_8445405	Ca7	8445405	CTTTTTTTTTTT/CTTTTTTTTTT	TTTCAGGCAACGTTTT AGTCC	TTTGATGTTGTTGGAG ATGAAAA	59.3	263	INTERGENIC	--	--	--
Ca7_P1_8454940	Ca7	8454940	CATATATATATATATATATAT/CATA TATATATATAT	TGTTTCGAGCTTTTGT GTCA	AACCTCACCTTGGGGA AATC	59.5	797	INTERGENIC	--	--	--
Ca7_P1_8460558	Ca7	8460558	CTTATTATTATTAT/CTTATTATTAT TAT	CAAGTTGCCTATGCTC GTCA	CCAGGAGGCTCTTCCA AGTT	60.0	942	INTERGENIC	--	--	--
Ca7_P1_8466786	Ca7	8466786	TAA/TAATAAA	GTTTTATTGCAACCC GTGG	CTATCCTTCGCCGACA ACAT	60.2	186	INTERGENIC	--	--	--
Ca7_P1_8467239	Ca7	8467239	GC/G	ATGTTGTCGGCGAAGG ATAG	TCCGTCCTAAATTGTA TGCCA	60.1	918	INTERGENIC	--	--	--
Ca7_P1_8467654	Ca7	8467654	ATTTATTTTATTTTAT/ATTTATTTT AT	TGAGAGTTCAAGCTAG GATCCAC	TTTTGATCGTTCGCAC GTAG	59.9	567	INTERGENIC	--	--	--
Ca7_P1_8471272	Ca7	8471272	TC/T	TCCAATTTGGGAAACT GCAT	ATCACAATCACGGGAA AAGG	60.3	505	INTERGENIC	--	--	--
Ca7_P1_8471824	Ca7	8471824	GAAAAAAAA/GAAAAAAAAA	CCTTTTCCCGTGATTG TGAT	AATCAAACAAGAGTTG GCGG	59.8	484	INTERGENIC	--	--	--
Ca7_P1_8473510	Ca7	8473510	CATTATTTCTGTGTACATTATTTTC TTGTGTATTATTTCTGTGTGA	CGAAGTTGTGGTACAA CACATGA	CCCACCACAACATAGA CCCT	60.9	409	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_8477670	Ca7	8477670	GA/GAA	CATCAGTTGCTTTGG AGCA	CGATTTGTGATGGGA ATCT	60.0	624	INTERGENIC	--	--	--
Ca7_P1_8485308	Ca7	8485308	TTCATC/TTCATCCTCATCATC	ACCTTTTGGCCCTTTC TTGT	ACGGGAAAGCCTACCT TGTT	60.0	211	INTERGENIC	--	--	--
Ca7_P1_8485564	Ca7	8485564	GAC/GACAC	ACAAGGTAGGCTTTCC CGTT	GGCCACGAGGGTATA GAACA	60.0	648	INTERGENIC	--	--	--
Ca7_P1_8492749	Ca7	8492749	TAA/TA	GACTCTCTGCGGGAGA TTTG	TTCCGGCTGATGATCT TTTC	60.0	690	INTERGENIC	--	--	--
Ca7_P1_8492888	Ca7	8492888	TAAA/TAA	TACCGTGCATCCTTTT CTCC	TTCCGGCTGATGATCT TTTC	60.1	455	INTERGENIC	--	--	--
Ca7_P1_8495200	Ca7	8495200	GAA/GAAA	TTATGCGTGAAGAAAT TCCG	GCACCAAAATTAGGTTG CGAT	58.8	294	INTERGENIC	--	--	--
Ca7_P1_8512716	Ca7	8512716	A/AG	AACCAACATGTCAATG TGGC	CTCCCATGTATCTGCC CACT	59.3	629	DRR	Ca_13154	--	--
Ca7_P1_8516360	Ca7	8516360	TACACACACACACACACA/TACACA CACACACACA	ATGAGCAGAAGGCTTT GGAA	CAACTCTCAACACCCC ATGA	60.0	897	DRR	Ca_13152	R	Nin-like
Ca7_P1_8517886	Ca7	8517886	CTTT/CTTTT	TAAAATTTACGCACC ACCA	TGTGTCGATTGCCACA ATTT	60.0	375	DRR	Ca_13153	C	--
Ca7_P1_8522491	Ca7	8522491	CAA/CAAA	GGATTCGTTTTTCCCC AAAT	TTCGCAACTCCACTCT TCCT	60.0	343	INTERGENIC	--	--	--
Ca7_P1_8523616	Ca7	8523616	TCT/TCTCCT	CCGAGCCAAAATCCAA AATA	GCACGTGGAGAAAATT GGAA	59.9	676	DRR	Ca_13151	--	Nin-like
Ca7_P1_8529147	Ca7	8529147	TAAAAAAA/TAAAAAAA	CACAAACCAAAACAAC CTGTG	AATGAGTCATCCCTTT TGCG	59.0	459	DRR	Ca_13150	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_8529891	Ca7	8529891	TATAAA/TA	CATGAATTCAGGATTT CCCA	TTCCACCCCAATTTT GTTA	59.7	489	DRR	Ca_13150	--	--
Ca7_P1_8558017	Ca7	8558017	GTTTATAATTTAT/GTTTATAATTTATA ATTTAT	TGATTTGCCTTCCTAC AAAGC	CACAATGAAAAGAGTA ACATTGATGA	59.4	183	INTERGENIC	--	--	--
Ca7_P1_8558399	Ca7	8558399	AAT/AATAT	CATCAATGTTACTCTTT TCATTGTGA	TAGAAATTCGCAGTGA CCCC	59.5	745	INTERGENIC	--	--	--
Ca7_P1_8562391	Ca7	8562391	TAAAAAAAA/TAAAAAAAAA	TGAGGAAGGGAATGAA AGGA	CTGCTCGGAAAAATAT GGTG	59.6	841	DRR	Ca_15362	--	--
Ca7_P1_8562505	Ca7	8562505	GAAAAA/GAAAAA	TGCAGTCATGTGACAT CCTCT	CTGCTCGGAAAAATAT GGTG	59.3	305	DRR	Ca_15362	--	--
Ca7_P1_8596970	Ca7	8596970	TATAAAA/TATAAATAAAA	GTGACAAGCGGTGGA ATCT	GACCATACCCATATTG GTCCTC	60.1	287	INTERGENIC	--	--	--
Ca7_P1_8597223	Ca7	8597223	CTG/CTGTG	AGTGACAAGCGGTGGA AATC	GGTAGGACCAAGAACA CAACC	60.1	931	INTERGENIC	--	--	--
Ca7_P1_8601144	Ca7	8601144	CATATA/CATA	AGCGGTTTTTGCAGAG GATA	TGTGGTGAATAAAAT AGCACG	60.0	490	INTERGENIC	--	--	--
Ca7_P1_8601211	Ca7	8601211	TC/T	AGCGGTTTTTGCAGAG GATA	CACCTCACACCTAACC CTCA	60.0	769	INTERGENIC	--	--	--
Ca7_P1_8601347	Ca7	8601347	AT/ATT	AGCGGTTTTTGCAGAG GATA	CACCCTTATCCTCCGC TTTC	60.0	818	INTERGENIC	--	--	--
Ca7_P1_8606473	Ca7	8606473	AATTA/AA	GATTTGAATCCGTTTT TGGA	TTTTCTCTCGGAAAGG TTGG	59.7	967	INTERGENIC	--	--	--
Ca7_P1_8616908	Ca7	8616908	TTCCAATCCAATCCAATC/TTCCC AATCCAATCCAATCCAATC	GGTTATTGCCAAACC AATG	GGAGATCCAACCTCCA CGTA	60.1	515	DRR	Ca_15357	--	TCP

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_8619938	Ca7	8619938	TAG/TAGAG	TTCCATGGTTTCTCC CAAG	TCTAATAATGGCAAC GGGC	59.9	218	INTERGENIC	--	--	--
Ca7_P1_8620269	Ca7	8620269	CAAA/CAA	GCCCGTTGCCATTAT TAGA	AGTACATAGCCCTCC TCCG	59.9	241	INTERGENIC	--	--	--
Ca7_P1_8621966	Ca7	8621966	AAAT/AAATCATATTGATAAT	TATTTTGCATGCATGT GGGT	TGAGGAGAGGGAGGG AGATT	59.8	740	INTERGENIC	--	--	--
Ca7_P1_8625475	Ca7	8625475	CA/C	CCACGAGTTGGTTAG CAAT	CCTCAACCATCGGAGC AATA	60.0	421	INTERGENIC	--	--	--
Ca7_P1_8633845	Ca7	8633845	TA/TAA	TTATGTTTGTGGTGGT TGCG	AAATGTCGGTGGAATG AAGC	60.4	618	DRR	Ca_15354	DZ	C2H2
Ca7_P1_8634841	Ca7	8634841	ATTTT/ATTT	TACAAAGGGAGAATGG GCAG	GCACCCTCCTATGGTC GTAA	60.1	536	DRR	Ca_15354	DZ	C2H2
Ca7_P1_8639283	Ca7	8639283	GT/GTT	CAATGGATGTATTGTG CCGT	ACCACCACGTTTGT GTGA	59.3	636	INTERGENIC	--	--	--
Ca7_P1_8648328	Ca7	8648328	CTAT/CT	TCCGTGCTTTCTGTGT TTTG	CCACCACCAAGAGGA CTTGT	59.9	527	INTRON	Ca_15353	J	--
Ca7_P1_8649637	Ca7	8649637	AAC/AACTAC	ATGGGTTGGCAGGTAA TTGA	ATCATTGGTGGGATG AAGA	60.2	865	DRR	Ca_15353	J	--
Ca7_P1_8662282	Ca7	8662282	AGTGT/AGTG	TGAGAATAGTTTACG GTAGTTTGG	CATTGGCAACACTTCC TCCT	59.2	641	DRR	Ca_15350	R	bZIP
Ca7_P1_8662645	Ca7	8662645	AATA/AA	CTTCTGCAGATGTTTT GGCA	TGCATTGACACGTGGT TTTT	60.0	374	DRR	Ca_15350	R	bZIP
Ca7_P1_8666289	Ca7	8666289	ATTTTTTCTTT/ATTT	TCACTCCAACAACCAA TGACA	CAACAATCAACAAGGC TCCA	60.0	566	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_8666425	Ca7	8666425	CTTTTT/CTTTTT	TGGAGCCTTGTGATT GTTG	AAATACCTGCATCTC GCTG	59.7	540	INTERGENIC	--	--	--
Ca7_P1_8669291	Ca7	8669291	AT/A	CGACTTTGGTTCTCTC TCGC	TTGGTTGTTGGAGTGC ATTT	60.1	500	INTERGENIC	--	--	--
Ca7_P1_8670801	Ca7	8670801	AA/AAAAGA	CACATGCGGACCCTTA ACTT	GCCCAATTGGTCGCTT AATA	60.0	798	INTERGENIC	--	--	--
Ca7_P1_8672231	Ca7	8672231	TTGTGT/TTGTGTGT	CCATGCACGATCTCTT TTGA	GATGGGAAACTAAACG TCGC	59.8	368	INTERGENIC	--	--	--
Ca7_P1_8673839	Ca7	8673839	CC/CCGTTAAAATGAAC	TCGAGCTTTGGAGTTA AGGTTT	TGAAATCGCCCAAT TAAA	59.4	442	INTERGENIC	--	--	--
Ca7_P1_8677568	Ca7	8677568	CTACGTACTCTACCAATACGTACTC TCACCAATACGTACTCTCA/CTACGTA CTCTACCAATACGTACTCTCA	AGCTTCCATGCACGAT CTCT	TGCAACATGCCTTCT CTCG	60.0	765	INTERGENIC	--	--	--
Ca7_P1_8677744	Ca7	8677744	GTTTTT/GTTTTT	AGCTTCCATGCACGAT CTCT	TGCAACATGCCTTCT CTCG	60.0	765	INTERGENIC	--	--	--
Ca7_P1_8678324	Ca7	8678324	CTTATTTTATTTTATTTT/CTTATTTAT TTTATTTTATTTT	AAAAAGGGTTGGTTGG TTCC	TGTCCCCTTCTGATCT TGGA	60.1	679	INTRON	Ca_15349	T	WRKY
Ca7_P1_8680352	Ca7	8680352	CTTTTTTT/CTTTTTT	AAGGCTATGCTGCTCC TGAA	TGACTGGCAATTGTTT CAAA	60.1	746	DRR	Ca_15348	G	--
Ca7_P1_8681581	Ca7	8681581	AT/ATT	ATAATTGCGTGGCTTG CATT	ATTGCTTTGGAGACAC AGGG	60.5	488	DRR	Ca_15348	G	--
Ca7_P1_8683822	Ca7	8683822	GATAT/GATATAT	CCAAGAGCCCTAAGAG AGCA	CACACATCCGATGACA AACC	59.7	244	INTERGENIC	--	--	--
Ca7_P1_8683880	Ca7	8683880	CTTGATAAGTTGATA/CTTGATA	GGTTTGCATCGGATG TGTG	TGTCCAAGTATCTGAC CGGA	59.8	103	DRR	Ca_15347	IR	Nin-like

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_8683936	Ca7	8683936	AC/A	GGTTTGTTCATCGGATG TGTG	AAATGTCCAAGTATC TGACCG	59.8	107	DRR	Ca_15347	IR	Nin-like
Ca7_P1_8684183	Ca7	8684183	TAAAAAAA/TAAAAAAA	GGTTTGTTCATCGGATG TGTG	CTACGAGTCGGTGG TCATT	59.8	784	DRR	Ca_15347	IR	Nin-like
Ca7_P1_8685079	Ca7	8685079	AAATAA/AAA	AATGACCACCGACCTC GTAG	GATGGGAGGGGTTTG AGTTT	60.0	956	DRR	Ca_15347	IR	Nin-like
Ca7_P1_8692426	Ca7	8692426	TAGAGAG/TAGAG	GGAGCATTGCCTTCAA ACTT	GTTTAAATGCGGTTGC GAAT	59.3	740	INTRON	Ca_15347	IR	Nin-like
Ca7_P1_8708079	Ca7	8708079	T/TAATTA	TTGTTGCGCATACATT TTCA	CAATTGCCTCTACACA CACCA	60.1	297	INTERGENIC	--	--	--
Ca7_P1_8709902	Ca7	8709902	CAAAA/CAA	ATCAATCATGCGTCAA AACG	AAACACAAGCAGGTT GGTC	59.5	392	INTERGENIC	--	--	--
Ca7_P1_8710276	Ca7	8710276	AAATAACA/AAATAACATAATAACA	GACCAACCTGCTTGT GTTT	AAATGCGACGGAAGAA ATTG	60.0	296	INTERGENIC	--	--	--
Ca7_P1_8713649	Ca7	8713649	G/GATTT	TGGGGAACCACTGAAA GAAC	AACGATCCCAACATCC TACG	59.9	697	INTRON	Ca_15345	--	--
Ca7_P1_8715242	Ca7	8715242	TAAAAAAA/TAAAAAAA	TTCTTTGTTTGCAGGA AATG	CGTTGGAATTGTGCTG TGTT	58.7	649	DRR	Ca_15345	--	--
Ca7_P1_8716791	Ca7	8716791	CG/CGACGGGAGTTATG	TCGTTCTTTTGTGCTT CCA	TTGTTTTATTCTGTTT ATTCTGTTGC	59.4	631	DRR	Ca_15344	O	MYB_related
Ca7_P1_8723248	Ca7	8723248	TAAATCTTTTATCGAAAT/TAAAT	TTGCAAAAACCTTTGA ATTGC	GTGCTTCTGCTCTCC TGCT	59.4	939	DRR	Ca_15343	--	WRKY
Ca7_P1_8724734	Ca7	8724734	ATTATTATGTTTTA/ATTA	GCCATTGCTGTTGCTG ATAA	CAAAAGATTGCAAAGG GGAA	59.8	439	INTRON	Ca_15343	--	WRKY

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_8728168	Ca7	8728168	T/TA	TCTCCATCACCAGATC TCCC	TCACACCAAACTAA CCGC	60.0	662	INTERGENIC	--	--	--
Ca7_P1_8736693	Ca7	8736693	AT/ATATT	TTAATGTCGCATGTCC CAAA	CACAAAGGCTAGAGTG TCAAAA	59.9	597	INTERGENIC	--	--	--
Ca7_P1_8737215	Ca7	8737215	TAAATAAAATAAAATAA/TAAATAAA AATAAAATAAAATAA	TTTGACACTCTAGCC TTTGTG	TGGGATTTTGTGTGC TTTTT	57.2	575	INTERGENIC	--	--	--
Ca7_P1_8737551	Ca7	8737551	CTTTTTTTTT/CTTTTTTTTTTT	TTTGACACTCTAGCC TTTGTG	TGGGATTTTGTGTGC TTTTT	57.2	575	INTERGENIC	--	--	--
Ca7_P1_8737590	Ca7	8737590	TTTAAATTAAATTAAATTAAATT /TTTAAATTAAATTAAATTAAATT	TCCTATATTGGCTAAAT GTTGTGA	TGGGATTTTGTGTGC TTTTT	59.0	236	INTERGENIC	--	--	--
Ca7_P1_8739519	Ca7	8739519	TA/TAA	TTTGCCATGTCTGCTC AATC	TGGGTACCTCTCTTAG CGGA	59.8	127	INTRON	Ca_15342	C	AP2
Ca7_P1_8750328	Ca7	8750328	T/TGCAACC	AATTTTGGGAGCACG TTTG	CATCCAGAGCAAACT GCAA	60.0	410	INTRON	Ca_15341	V	--
Ca7_P1_8754321	Ca7	8754321	CCCATTCAT/CCCATTCATTCAT	GATGCTTTACCTGCAG CACA	ATAAGCACCACTCTGA ATGC	60.0	682	INTRON	Ca_15341	V	--
Ca7_P1_8761317	Ca7	8761317	CTTT/CTT	GGGCAATGCTTTTAA GGTG	ACGCATGCACATTGAT TTGT	59.6	818	INTRON	Ca_15340	--	HD-ZIP
Ca7_P1_8762041	Ca7	8762041	GTTTTTTTT/GTTTTTTTTTT	ACAAATCAATGTGCAT GCGT	TCTCACATTGCACAA TCTCG	60.0	484	INTERGENIC	--	--	--
Ca7_P1_8766261	Ca7	8766261	CT/C	AGAGCAAAATCGCACA GGAT	TTCTTTCTTTTTTCGA GCA	59.8	510	DRR	Ca_15339	O	--
Ca7_P1_8772540	Ca7	8772540	TTATATATATATATATATATATATAT ATAT/TTATATATATATATATATATAT AT	AACCGCATGTTTGAGA GTCA	TGGGTTTGCTCAATTG GAGT	59.3	641	DRR	Ca_15338	--	ERF

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_8788607	Ca7	8788607	AT/ATGT	GGCCACGTGAATTTG TTTT	TGACGTTGGGTCAGT GACAT	59.8	462	INTERGENIC	--	--	--
Ca7_P1_8792068	Ca7	8792068	TAAA/TA	TTTTGTTTGCACCTTCCT TGAAA	TGTTTTGCCTTCACTC AGTTCT	59.8	157	INTERGENIC	--	--	--
Ca7_P1_8792391	Ca7	8792391	TTATAT/TTAT	TTTTGTTTGCACCTTCCT TGAAA	CGGCAGACGCTTCTTA ATTT	59.8	772	INTERGENIC	--	--	--
Ca7_P1_8792613	Ca7	8792613	AATTGGA/AA	ACCTTACGTCAGCTTC CACG	CGGCAGACGCTTCTTA ATTT	60.3	218	INTERGENIC	--	--	--
Ca7_P1_8793998	Ca7	8793998	TAAAAAAAA/TAAAAAAAAA	TCATTGGTTATTGGTT GGGAA	GAAGGAACCAAAGGG AGACC	60.0	823	INTERGENIC	--	--	--
Ca7_P1_8796340	Ca7	8796340	GA/GAAATAA	TGCCAACATTTGCGTT CATA	GTTATTACGAGGGCCG ATCC	60.2	718	DRR	Ca_15334	K	HD-ZIP
Ca7_P1_8799339	Ca7	8799339	AT/ATTCGTTTT	GGCAACCTCACAAATG TCCT	ACCCAGTGTGGATGAA AAGC	60.0	603	INTERGENIC	--	--	--
Ca7_P1_8799859	Ca7	8799859	GTATTTATTT/GTATTTATTTATTT	GCTTTTCATCCACACT GGGT	ATACCATTGCGGCAT AGTC	60.0	492	INTERGENIC	--	--	--
Ca7_P1_8799932	Ca7	8799932	CAAA/CAA	GCTTTTCATCCACACT GGGT	ATACCATTGCGGCAT AGTC	60.0	492	DRR	Ca_15333	--	--
Ca7_P1_8802570	Ca7	8802570	ATA/ATACTA	TTGTAACGCCAAAC ACCA	ACATTGGCACCATTAG GAGC	60.0	249	INTRON	Ca_15333	--	--
Ca7_P1_8804814	Ca7	8804814	TGTGGTG/TGTGGTGGTG	CACTGCAAGTCCTTGT TTCG	TGTTTGTGTTGTCGGG AGAG	59.5	442	DRR	Ca_15332	--	B3
Ca7_P1_8810490	Ca7	8810490	TA/T	GCGCCTATGAATGTTG GATT	TTGTCTCACGAACG TTGC	59.9	717	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_8811624	Ca7	8811624	AGGTGGTG/AGGTGGTGGTG	GCGATTTTCAATCATC CCAT	ATTTTCTTCTTGCTCC GCA	59.7	314	INTERGENIC	--	--	--
Ca7_P1_8818191	Ca7	8818191	T/TGACA	TCTTTTTCGATCGGGT CTGT	ATAAAGGGAAGGAATT GCGG	59.7	799	DRR	Ca_15331	E	BBR-BPC
Ca7_P1_8819255	Ca7	8819255	TTA/TTAATA	TTGAAGCAACAATAGC GACG	TGCGGCAAAATTTATA TACACAC	60.0	585	INTERGENIC	--	--	--
Ca7_P1_8820776	Ca7	8820776	CATATTAAAAAT/CATATTAAAAATA TTAAAAAT	TTTCCCTTTGACCAC AGAC	TGTTGCAATATTTCGA TTAGATCC	59.9	888	INTERGENIC	--	--	--
Ca7_P1_8825846	Ca7	8825846	ATTATTTTATT/ATTATTTTATTTATT	GGTATAAAGGGGATGG GAGTG	AGGGATGTGAAACAAA CAAAAA	59.5	572	DRR	Ca_15330	E	BBR-BPC
Ca7_P1_8828109	Ca7	8828109	TATGTTA/TATGTTAATGTTA	GTGGACACCTGAAATT GGCT	TTGGTCCTGAAAGGGT CAAG	60.0	612	INTERGENIC	--	--	--
Ca7_P1_8834970	Ca7	8834970	TATGATGATGATGATGAT/TATGATGA TGATGAT	ACCACAATGGCATGTT GCTA	AATGAACGAACGAACG AACC	60.0	423	CDS (large-effect mutations)	Ca_15328	E	BBR-BPC
Ca7_P1_8839299	Ca7	8839299	C/CAA	CCAATTGCCCAAAAT AAAA	GTTTCCCTTTGAGTC CGAT	59.6	450	DRR	Ca_15328	E	BBR-BPC
Ca7_P1_8839453	Ca7	8839453	ATAA/ATAACATTAA	CCAATTGCCCAAAAT AAAA	GTTTCCCTTTGAGTC CGAT	59.6	450	DRR	Ca_15328	E	BBR-BPC
Ca7_P1_8841763	Ca7	8841763	G/GT	TCTGTGCAATTGTTTCAT GGAT	CGTGTGAGGCAAAAA TGAA	59.0	315	DRR	Ca_15327	P	GRAS
Ca7_P1_8841846	Ca7	8841846	TATAAATAAATAAATAA/TATAAATAA ATAAATAAATAAATAA	TTCATTTTGCCTCAAC ACG	AATGGGTGATTGCATG CTG	59.7	399	DRR	Ca_15327	P	GRAS
Ca7_P1_8844009	Ca7	8844009	CAA/C	TATGTCAAGCCCTTC AACC	AACTCAATCAAATGGC GGAG	59.9	733	INTRON	Ca_15327	P	GRAS

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_8853228	Ca7	8853228	GTT/GTTT	CGCCGTTGTCATGTT AAGA	AAACAGAGTTATTGTG ATGGTTTGA	59.7	613	INTERGENIC	--	--	--
Ca7_P1_8856494	Ca7	8856494	G/GT	GGGACAAAATGTGCAA TCAA	ATTGCAGACCATCATCA CGAA	59.4	727	INTERGENIC	--	--	--
Ca7_P1_8859288	Ca7	8859288	TAAA/TAA	CCCTATTGATGTCGGT GTCA	GGTACGATTGCCTTTT CCAA	59.4	191	INTERGENIC	--	--	--
Ca7_P1_8862049	Ca7	8862049	CTTTTTTTTT/CTTTTTTTTT	TGAAATAAAATGGTTC GAAATGA	ACGTTGCAATACTCGT GCAG	59.7	317	INTERGENIC	--	--	--
Ca7_P1_8875146	Ca7	8875146	TTT/TTTAAATT	CATTATACACCCCTGGA CAAATGG	TTAATGAAAATTTGGT CCGTG	60.4	304	INTERGENIC	--	--	--
Ca7_P1_8881267	Ca7	8881267	TAAAAAAA/TAAAAAAA	CATGTGCATTGGAATT GGAT	GACCATCGCGAGTGA GTTTA	59.2	777	INTERGENIC	--	--	--
Ca7_P1_8885274	Ca7	8885274	AA/AATTA	CTCCAAATTTGACAGT CGCA	TCAAGTCATCTGACTA CAACACG	59.8	595	INTERGENIC	--	--	--
Ca7_P1_8885609	Ca7	8885609	AC/A	ACTTGAATTCCTCTCG GCAA	TTCATTTATTGTATGTC AAGTCATCTG	59.8	489	INTERGENIC	--	--	--
Ca7_P1_8885660	Ca7	8885660	GAAAAAAA/GAAAAAAA	TTGAATTCCTCTCGGC AATA	CATCACATTAAAAAGT GTAAATGAAAA	58.3	908	INTERGENIC	--	--	--
Ca7_P1_8886984	Ca7	8886984	GGTGT/GGTGTGT	CTGCACGAGTGGTGAA TTTG	ATGCCATGCAGTATCC ATCA	60.3	888	INTERGENIC	--	--	--
Ca7_P1_8889096	Ca7	8889096	TAAAAA/TAAAAA	CGTTGCAATGTTGAAC TATTTT	CGCGGCCCTTTAAGTT ATAC	58.3	467	INTERGENIC	--	--	--
Ca7_P1_8889307	Ca7	8889307	AT/A	GGTTTGAAATTAAGAT CGTCGG	TGGAGATCAACCACA AATCT	59.8	376	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_8892645	Ca7	8892645	GAAAA/GAAA	AAATTAAGGGCCACAC ATGC	TTTCGAACGGATTTC TTCA	59.8	202	INTERGENIC	--	--	--
Ca7_P1_8893094	Ca7	8893094	ATAT/A	TGAATGAAATCCGTTT GAAAA	TGCTTTATGCAACCA ACCA	60.4	608	INTERGENIC	--	--	--
Ca7_P1_8898762	Ca7	8898762	GAGAAGAAGA/GAGAAGA	TGCCACGTCATTGAAA ATGT	CTGCGTCGAAATTTAG GGAA	60.0	859	INTRON	Ca_15325	--	C2H2
Ca7_P1_8901373	Ca7	8901373	CTTGTT/CTT	AGGGTTCAATTTGCCAC AAAG	CCTCCGTTACATCCT CAGT	60.0	465	DRR	Ca_15325	--	C2H2
Ca7_P1_8905589	Ca7	8905589	AGTT/A	ATGCTGAAGGTTTTTG GCAC	CCACCAATTTTCCCA CATC	60.1	446	DRR	Ca_15324	O	C2H2
Ca7_P1_8906231	Ca7	8906231	TTTG/TTTGAAAAATACCTAATATTG	AAGTACCCCATCATT TCCC	TGGCCAAAGACATAAT CACG	59.9	537	DRR	Ca_15324	O	C2H2
Ca7_P1_8907832	Ca7	8907832	TATCAT/TAT	TCATGACAATGAGTCA ATTTGC	GACTCTCGCCAGAATC ATGTC	58.6	656	INTERGENIC	--	--	--
Ca7_P1_8908466	Ca7	8908466	CTTCATTCATTCATT/CTTCATTCATTC ATTCAAT	TTTCCAAACCCACAG ATCC	GGTCTGCAGGGAAGT ATGGA	59.8	306	INTERGENIC	--	--	--
Ca7_P1_8909425	Ca7	8909425	AGGGG/AGGG	TTGCTTCAGAGTCACA ACCG	AAACGCCCAATCTCAT TTTG	60.0	342	INTRON	Ca_15323	--	LBD
Ca7_P1_8919936	Ca7	8919936	TAA/TA	CCTGGAATCAACTTCA CGGT	TGTGTACCGTGTGGC ATCT	60.0	763	INTRON	Ca_15322	R	DBB
Ca7_P1_8921956	Ca7	8921956	ATATTATTATTATTATTAT/ATATTA TTATTATTATTAT	TTAGTGCAGGAGCATC AACG	AAAAGGAAAACCGAGC CCTA	60.0	511	INTERGENIC	--	--	--
Ca7_P1_8922311	Ca7	8922311	GT/GTTCGTT	AGTGCCGAGAAGCATG AGAT	GCGCATGGTAGAAAC AAGG	60.0	568	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_8922425	Ca7	8922425	GTTTTTTTTTTT/GTTTTTTTTT	TAGGGCTCGGTTTCC TTTT	GTGTCGACGTACGGAT GATG	60.1	738	INTERGENIC	--	--	--
Ca7_P1_8928118	Ca7	8928118	TTGTGTGTGTGTG/TTGTGTGTGTGT GTGTG	AGGCATATCAAATCTC CCCA	AACTGAGACCAACCCAA ATGC	59.3	487	INTERGENIC	--	--	--
Ca7_P1_8942950	Ca7	8942950	CA/CAA	CATTGGAAAAGTGCTC ATTCA	ATGCTGCGTCAGGGTT AGAT	58.8	462	DRR	Ca_15321	S	--
Ca7_P1_8943488	Ca7	8943488	TAAAAA/TAAA	ATCTAACCCCTGACGCA GCAT	CATTGGCCAATCAGT TGAA	59.7	427	INTERGENIC	--	--	--
Ca7_P1_8949071	Ca7	8949071	GAA/GA	GCACCCCAACCTTGT TTTA	AACAACCCACAAAA ATTCTG	59.8	979	DRR	Ca_15320	--	LBD
Ca7_P1_8955893	Ca7	8955893	CTTTT/CTTT	CATACCAGTGGGAGGC AGTT	TTGCTTCCCCATTAG CATC	60.0	636	INTRON	Ca_15319	--	--
Ca7_P1_8962871	Ca7	8962871	A/AAAG	TGGACAGTGACGATCC AAAA	ATTCCGACATGAAATC GAGG	60.1	331	INTERGENIC	--	--	--
Ca7_P1_8965665	Ca7	8965665	TAAAAA/TAAAAAA	GCGGCAACAAGACAAA AGTT	TCCCAAAACCTTCTAC GTTATCA	60.3	600	INTERGENIC	--	--	--
Ca7_P1_8967220	Ca7	8967220	AAATTAATTAATTA/AAATTAATTA	TTATTTGGCTCACACC CTCA	ACAACAGGCTGAGCCA AGTC	59.1	539	INTERGENIC	--	--	--
Ca7_P1_8970947	Ca7	8970947	CAA/CA	TCTCAGAAAATGGGAA TGCC	GTGAGGGTTTGCTTCG ATGT	60.0	514	INTRON	Ca_15317	G	HB-PHD
Ca7_P1_8972955	Ca7	8972955	TTGGGT/TTGGGTGGGT	GGCGGTGTTGTTAGCA ATTT	TGTGGAACAAGTTCCC AAGG	60.0	626	INTERGENIC	--	--	--
Ca7_P1_8973095	Ca7	8973095	TA/T	GGCGGTGTTGTTAGCA ATTT	TGTGGAACAAGTTCCC AAGG	60.0	626	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_8974976	Ca7	8974976	ATTTTT/ATTTT	TAGAAGCCCAAGGCT CAAA	GGTACAGAACGTGGT GCAAA	60.0	918	INTERGENIC	--	--	--
Ca7_P1_8975437	Ca7	8975437	CA/CAA	ATCCATGGGTTGGAA CATC	CGAAGAATCCTATGGA GGCA	59.5	273	INTERGENIC	--	--	--
Ca7_P1_8981507	Ca7	8981507	G/GAGAGA	AAGCACTGTTTCAGAGA GAGAGAGA	ACAGTACCAAAACCCCA CTGC	59.1	419	INTERGENIC	--	--	--
Ca7_P1_8994435	Ca7	8994435	GAAA/GAAAA	CTGCTGCGTTTCTGAT TGAA	AACGAAAAAGACCGCA ACAT	60.1	471	INTERGENIC	--	--	--
Ca7_P1_8994610	Ca7	8994610	CTTTTTTT/CTTTTTTTTTTT	CTGCTGCGTTTCTGAT TGAA	AACGAAAAAGACCGCA ACAT	60.1	471	INTERGENIC	--	--	--
Ca7_P1_8996163	Ca7	8996163	AGGG/AGG	ATGCGCGACCTATTTG TTTC	TGGTGCTCTTAGATT GGGG	60.1	833	INTERGENIC	--	--	--
Ca7_P1_9015154	Ca7	9015154	CTTTTCTCGA/CTTTTCTCGATGCTTC ATTTTCTCGA	TCTCTGCTTCGATT GTTT	TTGCTGAATTGCTGAG TTCG	60.0	235	INTRON	Ca_15313	U	bHLH
Ca7_P1_9020687	Ca7	9020687	AC/A	ATTACTTTGAAGCCCT GGCA	TGGCACACATGACAAC TTGA	59.7	489	INTRON	Ca_15313	U	bHLH
Ca7_P1_9023557	Ca7	9023557	CTT/CTTT	GACAGAGGGGAGCT AATCC	AGAACCGCCTTCCAG TTAT	60.0	621	INTRON	Ca_15313	U	bHLH
Ca7_P1_9030127	Ca7	9030127	GAAATATAAATAAAT/GAAATATAAA TATAAATAAAT	CACGATAGCGTTGGAG CTAA	TTGCACCTAAGTTTTG TTCCG	59.1	755	DRR	Ca_15313	U	bHLH
Ca7_P1_9031079	Ca7	9031079	CTTTTTT/CTTTTTTTT	ACCCTCCATTTTCTCC CACT	ACTGCGCCATGAATGA TTTC	59.8	703	DRR	Ca_15313	U	bHLH
Ca7_P1_9031526	Ca7	9031526	AAT/AATAT	GCGCAGTCATTGTCTC ATGT	CCAAAAGCAATTCAGG TGGT	59.9	535	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_9032345	Ca7	9032345	ATTCTATCTTT/ATT	ACCACCTGAATTGCTT TTGG	TCTCGCACCTTGACAG TTTG	60.0	936	INTRON	Ca_15312	R	--
Ca7_P1_9034671	Ca7	9034671	CAAA/CAAAA	TTTCATGGTGGTGGA CTGG	TTCGCAAAGGTGTCAA ACTG	59.3	463	DRR	Ca_15312	R	--
Ca7_P1_9037363	Ca7	9037363	GTTT/GTT	CCACAAAGGAGTGGGA CCTA	GTGGTGTCATTGGCC CTAGT	60.0	295	INTERGENIC	--	--	--
Ca7_P1_9039328	Ca7	9039328	C/CCCTTTT	TTTATGTTGCACTCGC CTCC	TTGAGTTCACCGTTGG CATA	60.2	561	INTERGENIC	--	--	--
Ca7_P1_9042845	Ca7	9042845	TAAAA/TAAAAA	CAAAGCGAATGTTGG TTCT	ATGGTGAAAAATGGT GGGA	60.1	467	DRR	Ca_15310	--	--
Ca7_P1_9043429	Ca7	9043429	AGG/AG	TCCCAACCATTTTTAC CAT	CGGAAACTTGAATTG TTTGG	60.0	740	INTERGENIC	--	--	--
Ca7_P1_9044478	Ca7	9044478	GTT/GTTTT	AAGTGCAGGGTTTC TTGA	TGAATTTATTGCGATT AATGAATG	59.7	247	INTERGENIC	--	--	--
Ca7_P1_9051626	Ca7	9051626	A/AT	TGAGAGGATCTCCTTC CAACTT	TTCAAAAATTCGGTCC CATT	59.3	120	INTERGENIC	--	--	--
Ca7_P1_9052824	Ca7	9052824	ACC/AC	CCCTTACGATAAAATTA CATAGAGCTT	AGAGTCCGCTTAATGA TTGACA	58.8	785	INTERGENIC	--	--	--
Ca7_P1_9053487	Ca7	9053487	TTTATTATTATTAT/TTTATTATTATTAT	ATTCTGAGCTGCGACG AAGT	TCAACCTTAAAGTGC ATTGG	60.2	527	INTERGENIC	--	--	--
Ca7_P1_9054065	Ca7	9054065	TTA/TTATA	TCACATTACCGCAAC CAAA	GATATTGCGACGGAAG GGTA	60.0	574	INTERGENIC	--	--	--
Ca7_P1_9055570	Ca7	9055570	ATTTTTTT/ATTTTTT	GAACGCATACGTGGAT CTGA	GATAAACGAGCCACACA AGGA	59.7	369	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_9056361	Ca7	9056361	TAAAAA/TAAAA	GCACAAACAACCGTCT CAAA	CTCAAACGTGCATTTA GTCAAA	59.7	759	INTERGENIC	--	--	--
Ca7_P1_9059024	Ca7	9059024	ATTTTGTTT/ATTT	CGGAGGAAAGGGAAAA AGAA	TGACCTTGCTCCTCC TGCT	60.5	282	INTERGENIC	--	--	--
Ca7_P1_9059487	Ca7	9059487	TTATATATATATA/TTATATATATA	AGCAGGAGGAGACAA GGTCA	CTTGGCTCGAGGGATA AACA	60.0	567	INTERGENIC	--	--	--
Ca7_P1_9064735	Ca7	9064735	GT/GTAT	CAGGAACGTGAACCAA ACAA	AATGCTACGTCCAAC CTGG	59.6	785	DRR	Ca_15308	R	AP2
Ca7_P1_9064807	Ca7	9064807	TGA/T	CAGGAACGTGAACCAA ACAA	AATGCTACGTCCAAC CTGG	59.6	785	DRR	Ca_15308	R	AP2
Ca7_P1_9072947	Ca7	9072947	TA/TAAAA	TCCCCATTACCCAA CAAA	GTGGGATCCACCACAT TTTT	60.2	414	INTERGENIC	--	--	--
Ca7_P1_9073647	Ca7	9073647	ATTTT/ATTTTT	CGTTTGGAGGTGTGGT AGAA	TGGTAGCACAAATCCA CCAA	58.6	741	INTERGENIC	--	--	--
Ca7_P1_9074889	Ca7	9074889	TTTATGC/T	TGCAACAAGCTTCTGT CCAC	CCGTGCCTTGTTTGA TACC	60.0	735	INTERGENIC	--	--	--
Ca7_P1_9075277	Ca7	9075277	TA/T	AGGCACGGTCTTTCCT TTTT	ATTGCTAGGGTGTTG ATGG	60.1	355	INTERGENIC	--	--	--
Ca7_P1_9084742	Ca7	9084742	TTAT/TT	TGAGATCATGAAATG CCCA	GGAGTTGATTGTATT GCGG	60.0	975	INTERGENIC	--	--	--
Ca7_P1_9101816	Ca7	9101816	AAGA/AA	CAAGTGGTCATTCAAA AGCAAA	TTTAAGTGGACCACGC CATT	60.1	549	INTERGENIC	--	--	--
Ca7_P1_9104252	Ca7	9104252	CTTTTTTTTTTTTT/CTTTTTTTTT	TTTCCGTCTTGTTGC AGTG	GAGCCGTTGGGTTTTG TTTA	59.9	416	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_9109063	Ca7	9109063	AG/AGG	TGGACCTATTGGCTA CGTT	TCGTTCAAAAAGGAAA CATCG	59.5	904	INTERGENIC	--	--	--
Ca7_P1_9126642	Ca7	9126642	AC/A	TGTTGTGCTTATGCCT TTGC	GCCAAGCGTTTATGCA TTTT	59.9	768	INTERGENIC	--	--	--
Ca7_P1_9129170	Ca7	9129170	GAGCTA/GAGCTAGCTA	TTGTGAGGCGGAGAGA GTTT	AGCATCCGACAATGTC ACAA	60.0	480	DRR	Ca_15303	K	ARR-B
Ca7_P1_9134590	Ca7	9134590	CATAAAAA/CATAAAAAATAAAAA	TTTTCTGGGAGATGGA TAAAAA	ACATTGCGAGTCCAAA CACA	57.7	503	INTERGENIC	--	--	--
Ca7_P1_9138535	Ca7	9138535	ATTTT/ATTTT	ACTTGAGCTTGTGGCA GACC	CCTCACCTTTTCGAGT GAGC	60.5	375	INTERGENIC	--	--	--
Ca7_P1_9146669	Ca7	9146669	TC/TCC	TGAAGCTGGTAATGAA GGGG	GCTGCCTCAACAAATG ACAA	60.1	941	INTRON	Ca_15301	K	E2F/DP
Ca7_P1_9147723	Ca7	9147723	CAAA/CAA	AAAATCTTTGGCGCTG CTTA	TTTCCAAAAGCCCTTT TCCT	60.0	600	INTRON	Ca_15301	K	E2F/DP
Ca7_P1_9155090	Ca7	9155090	GTAAA/G	TGAGGATGGGAGATT CCAG	TCTGAACCCCTCCCTA GACC	60.0	370	DRR	Ca_15299	L	--
Ca7_P1_9157997	Ca7	9157997	AACATATATAATACA/AACA	GGTGGCCGGTGAGT AAGAA	TGTGTCGGAATTCG TTGA	60.0	775	INTERGENIC	--	--	--
Ca7_P1_9158135	Ca7	9158135	ATT/ATTT	GGTGGCCGGTGAGT AAGAA	TGTGTCGGAATTCG TTGA	60.0	775	INTERGENIC	--	--	--
Ca7_P1_9159722	Ca7	9159722	GTAA/GTAATTAA	CACATGAAGTTAATTT GACGCA	CCATCAATCACGAGCT GTTTT	60.0	817	INTERGENIC	--	--	--
Ca7_P1_9180941	Ca7	9180941	TA/TAGA	ATGATTTCCACGAGCC AAAC	TGCAACATTTCTGAT GAGC	59.9	322	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_9181192	Ca7	9181192	AGT/AGTCGT	ATGATTTCACGAGCC AAAC	ACGACATGCCAATGTC TCAA	59.9	641	INTERGENIC	--	--	--
Ca7_P1_9181858	Ca7	9181858	CT/C	TATTACCCAACCAAGC CAGC	TGAACCTTGATTGCCG CTAA	60.0	554	INTERGENIC	--	--	--
Ca7_P1_9183560	Ca7	9183560	CCACA/CCA	CGATTGCAAAATATGCC CTTT	GTGTTGGCATTGTCTT CCCT	59.9	337	INTERGENIC	--	--	--
Ca7_P1_9210664	Ca7	9210664	CTTTTTTT/CTTTTTTTTT	GTGTGCCACATATCCA CAGC	GGACCAAAATGAGGAA CCAA	60.0	539	INTERGENIC	--	--	--
Ca7_P1_9211654	Ca7	9211654	T/TGCAACCATACG	TGAACAAAATTTTCACT CCAA	TCCGGGTCAGGTTTTT ATCA	59.5	243	INTERGENIC	--	--	--
Ca7_P1_9232233	Ca7	9232233	GAAAAA/GAAAA	GAAACGTTGGTGACA TTCA	ATGCCATATTCTCGAG TCGG	59.4	546	INTRON	Ca_17335	--	--
Ca7_P1_9255165	Ca7	9255165	CACTTACTTACTTACTTAC/CACTTACT TAC	AATTTGCAACCAATTAC CGC	ATCCACCAACAACAGC AACA	59.8	220	INTERGENIC	--	--	--
Ca7_P1_9259067	Ca7	9259067	TACTAAA/TA	AAATCCACGGAGGCAA TATG	GTTTGCCCTTTTCAT TTCT	59.8	680	INTERGENIC	--	--	--
Ca7_P1_9259824	Ca7	9259824	AATTTTTGA/AATTTTTGATTTTTTG A	AGTGGGAGAGCAGCT GAGAG	ATCGGTGCAAGACACA TTGA	59.9	352	INTERGENIC	--	--	--
Ca7_P1_9261419	Ca7	9261419	TA/TAA	TCATTGCTGTTGAGAA AAATTG	TGCATGCTAGGTTTAT GTCCC	57.8	350	INTERGENIC	--	--	--
Ca7_P1_9261662	Ca7	9261662	CTT/CT	GGGAAAGTCTTACTGT GTGCG	TTGGTGCAAGACACAT TGAA	59.8	131	INTERGENIC	--	--	--
Ca7_P1_9261954	Ca7	9261954	ATGA/ATGACGATACTGA	GGGAAAGTCTTACTGT GTGCG	TGGACCAAAATGATGA ACCA	59.8	808	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_9276938	Ca7	9276938	TAA/TCGAATCGAAA	GGAGCCTGATAATTCG GTGA	GCAATTCGATTTCG CGAT	60.0	241	INTERGENIC	--	--	--
Ca7_P1_9277184	Ca7	9277184	GAAAAAAAA/GAAAAAA	GGAGCCTGATAATTCG GTGA	TCCCTCAAATATGTC CCCA	60.0	794	INTERGENIC	--	--	--
Ca7_P1_9277974	Ca7	9277974	ATTTTTTTTT/ATTTTTTTTTT	TGGGGACATATTGAG GGAA	AGGGGACTACTTTCGC GATT	60.1	878	INTERGENIC	--	--	--
Ca7_P1_9306837	Ca7	9306837	A/AGATAGATT	AATTCTCTGCGGTGCA GTCT	TGCAATGTAGATTGAT TATTTTCG	60.0	531	INTERGENIC	--	--	--
Ca7_P1_9312827	Ca7	9312827	A/AC	TTTTGGCCTGGGTCAT TTAG	AGACGGAAGCAACACA ACAA	59.9	520	DRR	Ca_17329	--	C2H2
Ca7_P1_9324811	Ca7	9324811	TAAAAA/TAAAAA	GCATAACACAAGTGCG GATG	GACAATCTGTTGTGTG GACGA	60.1	530	DRR	Ca_17327	R	--
Ca7_P1_9333715	Ca7	9333715	ATGTGT/ATGTGTGT	TGATGAGAAAATCAAC GCCA	GTCAGACCATGATAGG CCGT	60.2	538	INTERGENIC	--	--	--
Ca7_P1_9337771	Ca7	9337771	AT/A	TAAAAAGTGGGGCATT TTGG	TTGGTCCATGGTTTCT TATGG	59.8	430	INTERGENIC	--	--	--
Ca7_P1_9338947	Ca7	9338947	ATCGT/AT	TAAGCAAAGCTTCCG CAAT	AAAATCGCCAACAATT GCAT	60.0	664	INTERGENIC	--	--	--
Ca7_P1_9350739	Ca7	9350739	ATATTATTATTATTATTA/ATATTATTAT TATTATTATTA	CAAAATGATTGAAGGCC CACT	CATTGCCCAGTTGACA CATC	59.9	735	INTRON	Ca_17325	G	--
Ca7_P1_9357168	Ca7	9357168	AAT/A	AAACATTCTCTTGGC GAGG	GCAATATCTCGGCTTG CATT	60.1	704	INTERGENIC	--	--	--
Ca7_P1_9358238	Ca7	9358238	TAAAAAAA/TAAAAA	GCGTGTGTGAGTGTGA GGAT	AAAAATCACGTCATCA TTGACC	59.7	585	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_9359877	Ca7	9359877	ACCC/ACC	TCATCCAGCTGTCTGC AATC	ACTGCGAGTAGATGGT TTTCTT	60.0	803	INTERGENIC	--	--	--
Ca7_P1_9367031	Ca7	9367031	CGATTAAATTTAT/C	TCAGCTTATTGTGCGA GACG	CACACAACAAGTCCCA CAGG	60.2	391	INTRON	Ca_17324	--	--
Ca7_P1_9370883	Ca7	9370883	ATACTTTACT/ATACT	TTCAACTTTTTGGGCTT TGG	TTTTGGCAAGTAGGAG CTCAA	60.1	240	INTERGENIC	--	--	--
Ca7_P1_9372579	Ca7	9372579	ATTGGATCTGCC/A	CATGTAGTGGGAGAGA TGGACA	TGCAAGGTCATGTGAA GTGC	60.0	615	INTERGENIC	--	--	--
Ca7_P1_9373270	Ca7	9373270	AACA/AA	GCGCTGTATCAGTGAA AATCA	CCAAAGGTAACATATT TGTGATGC	58.9	470	INTERGENIC	--	--	--
Ca7_P1_9373449	Ca7	9373449	A/AAT	GCATCACAAATATGTTA CCTTTGG	CGTTTTCTCGTTCAA ATTCT	59.7	643	INTERGENIC	--	--	--
Ca7_P1_9373732	Ca7	9373732	TAAAAAA/TAAAAAA	GCATCACAAATATGTTA CCTTTGG	GCTTAATTTCAACGCG CTTC	59.7	703	INTERGENIC	--	--	--
Ca7_P1_9379023	Ca7	9379023	CA/CATA	GCCTGAGGTCAAAGAG TTGC	CGGCCCTACCAAAG TAGT	60.0	911	DRR	Ca_17323	--	C3H
Ca7_P1_9379179	Ca7	9379179	ATTTTTTT/ATTTTTT	GCCATTTTTCATCAAC CTGG	CCGCCTAAGATGTCCT CAAG	60.3	676	DRR	Ca_17323	--	C3H
Ca7_P1_9381142	Ca7	9381142	AG/AGG	GCCACACTTGTTGCCT TTTT	TAGCTGATAACGGCTC TGGG	60.2	494	INTERGENIC	--	--	--
Ca7_P1_9382465	Ca7	9382465	AGT/AGTTGCTAATGTTAACGGT	TTATGCTTGGTGACG TGAG	CGCTTGGACCTGTTAC ATGA	60.2	567	INTRON	Ca_17322	TZ	--
Ca7_P1_9382510	Ca7	9382510	ATTTTT/ATTTTTT	TTATGCTTGGTGACG TGAG	CGCTTGGACCTGTTAC ATGA	60.2	567	INTRON	Ca_17322	TZ	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_9385502	Ca7	9385502	CTTTTTTTT/CTTTTTTTTTTT	AAAGGGAAGAAAGCAG GGAG	TTTTCACGCAAACTA TTAAACC	59.8	495	DRR	Ca_17321	--	WRKY
Ca7_P1_9385980	Ca7	9385980	CTTTTTT/CTTTTTTT	AAAAGGTTTAATAGTT TGC GTGAA	CATGAGTTCCACTGGA GGAG	59.6	465	DRR	Ca_17321	--	WRKY
Ca7_P1_9386132	Ca7	9386132	G/GC	TCCTCCAGTGGAATC ATGTC	TTTTTCTCATGGCCCA TTGT	60.1	509	DRR	Ca_17321	--	WRKY
Ca7_P1_9398486	Ca7	9398486	TCC/TCCC	TAACACGGTTGTACCC AGCA	TTTGGAGGATTATTGA GGCG	60.0	332	INTRON	Ca_17320	F	--
Ca7_P1_9401010	Ca7	9401010	CATATATATATATAT/CATATATATA T	AATAGGGTCCGGATGT TTCC	TTGAACGGAGAAAACT CGCT	60.0	345	INTERGENIC	--	--	--
Ca7_P1_9401104	Ca7	9401104	AT/ATTT	AATAGGGTCCGGATGT TTCC	TTGAACGGAGAAAACT CGCT	60.0	345	INTERGENIC	--	--	--
Ca7_P1_9404460	Ca7	9404460	ATTTT/ATTTTT	CATTATTCGCTCCACA ACGA	GACACATTGGAAATT GGTTAAT	59.7	538	INTERGENIC	--	--	--
Ca7_P1_9406189	Ca7	9406189	AAATAATAATAATAATAA/AAATAA TAATAATAATAA	CGCTCAATACTCTTCA AAGTTCA	TTCCCTTGTGCATTT AGTG	58.7	545	INTERGENIC	--	--	--
Ca7_P1_9410756	Ca7	9410756	ATT/ATTTTTTT	AAATCCCAACCCCAA ATGT	GGAAAAGACGACGCA GAAAG	60.3	183	INTERGENIC	--	--	--
Ca7_P1_9413541	Ca7	9413541	CTGTG/CTG	GCAGCCATGCTTACTG TTGA	TGCCCATTTGACATTCG TAGA	60.0	662	INTRON	Ca_17319	O	MYB_related
Ca7_P1_9421127	Ca7	9421127	TGGG/TGG	ATTGTGATGAAATGGG GACA	GTGGGTGGGATGCAT AATTC	58.6	569	INTERGENIC	--	--	--
Ca7_P1_9421758	Ca7	9421758	A/AT	CTTCGCAAAATGCGA AACT	GCTATCGCGCTATTCC AAAC	60.4	486	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_9422013	Ca7	9422013	AATAT/AATATAT	CTTCGCAAAATGCGA AACT	CATGATGATGCAGAAA ACGG	60.4	573	INTERGENIC	--	--	--
Ca7_P1_9424693	Ca7	9424693	TAAAA/TAAAAA	GCTGCAGCTCATGGAT TGTA	GGGCCAATTTTCTTT TTCCTT	60.0	664	DRR	Ca_17317	R	--
Ca7_P1_9424811	Ca7	9424811	T/TAG	AGAATCCTGCCTCAAC CCTT	AGAATTTGGAGAATTG CCGA	60.1	936	DRR	Ca_17317	R	--
Ca7_P1_9435225	Ca7	9435225	CT/CTAT	TGTGGAGTTTCATGGT CCAA	AGGTTGTTGCCCTTC CTTT	59.9	328	INTRON	Ca_17316	O	MYB_related
Ca7_P1_9440061	Ca7	9440061	TTACT/TTACTACT	GGGTGTTGATTTCCCT TGATT	ATTTCCAGTTGGAGTG GTCTG	60.0	867	DRR	Ca_17315	O	TCP
Ca7_P1_9446630	Ca7	9446630	GAATAATAATAATAATAATAAT/G AATAATAATAATA	AACAAAAATGCAGACT ACACGC	TTATGAGCTGGAGAGT GGGG	59.3	252	DRR	Ca_17313	--	--
Ca7_P1_9452345	Ca7	9452345	CTTCA/CTTCAATTCA	GCTTCACATTAGGCCT CTGC	CCACGAGTAAGCTAAA GCCG	60.0	129	CDS (FRAME SHIFT)	Ca_17312	--	--
Ca7_P1_9454549	Ca7	9454549	AATA/AATATATA	CGAGCATCATTTGGTC CATT	GAATTCATAATTCGG CATCG	60.9	530	INTERGENIC	--	--	--
Ca7_P1_9457084	Ca7	9457084	AATATATAT/AATATATATATATATA TAT	TCTTTCTCGGAATGGA TTGG	CCTGCACCATCAAACC CTAC	60.0	543	INTRON	Ca_17311	--	--
Ca7_P1_9459566	Ca7	9459566	ATT/ATTT	TGGCGATAATGTTTGC ATGT	AGAGCAACCGGAAA GTGTG	60.0	131	DRR	Ca_17311	--	--
Ca7_P1_9465063	Ca7	9465063	TAAAA/TAAA	TGAGTGGGATTGGTAG GGAG	GCAACCATGACACGAA ATTG	59.9	917	DRR	Ca_17310	C	bHLH
Ca7_P1_9465375	Ca7	9465375	T/TTC	AATTGCCTGATGGTGT CTAAAA	ATTGCAACCATGACAC GAAA	58.6	416	DRR	Ca_17310	C	bHLH

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_9465432	Ca7	9465432	CA/CAA	AATTGCCTGATGGTGT CTAAAA	ATTGCAACCATGACAC GAAA	58.6	416	DRR	Ca_17310	C	bHLH
Ca7_P1_9467123	Ca7	9467123	T/TAAAAA	CACACGCTCGAACCTA CTCA	CACGAGTATGCATGTG GGTC	60.0	798	INTERGENIC	--	--	--
Ca7_P1_9468329	Ca7	9468329	TTA/T	TTGGAGCAATGTTCCC AAAT	TTTGAGGAGTGGCCTC AAGT	60.3	642	INTERGENIC	--	--	--
Ca7_P1_9468413	Ca7	9468413	AAGTAA/AAGTAAGAGACTGAGAGTAA	CCTCCGAATAAAACAC CACA	TTGAGGAGTGGCCTCA AGTT	58.5	547	INTERGENIC	--	--	--
Ca7_P1_9481721	Ca7	9481721	TACTGAATCCACATGAA/TA	AGAGTCAATGGACGTG GGAG	GGGGAGGACCAGTAT GTGAA	60.1	668	INTERGENIC	--	--	--
Ca7_P1_9485623	Ca7	9485623	TA/T	AGTTTTTCATGGGGCTA CGTG	TCAACAAATTGACCTC CACAA	60.0	653	INTERGENIC	--	--	--
Ca7_P1_9490638	Ca7	9490638	AC/A	ATCATGTCGTCCAAGC AACA	TGGTCTGGCCTATTCT CACC	60.1	361	DRR	Ca_17306	--	--
Ca7_P1_9491419	Ca7	9491419	CTGAATATGAA/CTGAATATGAATATG AA	TTTGAAAGGCCTGAGC CTAA	TTGGTGGTTGGAAGG CTATC	60.0	746	DRR	Ca_17306	--	--
Ca7_P1_9493598	Ca7	9493598	TGG/TG	TTGTAACATCGTTGCG TGGT	TAGCACACAGTAGGC TGCG	60.0	713	INTERGENIC	--	--	--
Ca7_P1_9494173	Ca7	9494173	AACA/AACACA	TACGCAGCCTACTGTT GTGC	TTGTTGCTGACCACGC TATC	60.1	594	INTERGENIC	--	--	--
Ca7_P1_9495028	Ca7	9495028	GTATTA/GTATTATTA	TCTCGCTATCCACTTTT GGG	TGCATGCCCATTAAC ACAT	60.2	217	INTERGENIC	--	--	--
Ca7_P1_9495205	Ca7	9495205	TTTATTAT/TTTAT	TCTCGCTATCCACTTTT GGG	CCCCAGAGAACAACCT TCCA	60.2	801	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_9497347	Ca7	9497347	C/CTT	TGCAAGCAGCAGATA ATGC	CGCTGCAATCAGTAGG AACA	60.1	312	INTRON	Ca_17305	O	--
Ca7_P1_9501589	Ca7	9501589	GTTTTTTT/GTTTTTTT	TTGCTCTGACACCATG TTAAGAA	TCTCTTGCGGACACAA TTAAAA	59.8	559	INTERGENIC	--	--	--
Ca7_P1_9502153	Ca7	9502153	AAA/AAATTAA	TTTAAATTGTGTCGCA AGAGA	ACAATTACCGCCAAAT GGAA	59.8	637	INTERGENIC	--	--	--
Ca7_P1_9503648	Ca7	9503648	TA/T	TGCTCCACTTTTTGAG GTGA	TTGTGTGCCCTTTTAA GGAGAA	59.4	536	INTERGENIC	--	--	--
Ca7_P1_9505511	Ca7	9505511	ATT/ATTT	GATGCCGTGGCTCAAA TTAT	CCTCATAGCGCTCATC ATCA	59.9	211	INTRON	Ca_17304	--	--
Ca7_P1_9508961	Ca7	9508961	GAA/GAAA	GTATTCAGGTGGCATT CCGT	TTGCCAACATTAAGCA GCAG	59.8	586	INTRON	Ca_17304	--	--
Ca7_P1_9518702	Ca7	9518702	GAAAAAAAA/GAAAAAAAAA	TAGTTCATGAGGCTTG TCGC	GCGGTGGATAATATGG ATGG	59.0	431	INTERGENIC	--	--	--
Ca7_P1_9538775	Ca7	9538775	TAAAAAAAA/TAAAAAA	AATGCCAACTGGGAA CATC	TTAATTTGATCATTGG GGCG	59.8	937	INTERGENIC	--	--	--
Ca7_P1_9539533	Ca7	9539533	GACA/GACACA	ATGAAAGAAAATCATG CGGC	GCATCTTTTCCAAATA AATCCC	60.0	308	INTERGENIC	--	--	--
Ca7_P1_9540092	Ca7	9540092	TAA/TA	GGATTATTTGGAAAA GATGCG	TTGAAGCCTGGATCAC GAAT	59.8	733	INTERGENIC	--	--	--
Ca7_P1_9542781	Ca7	9542781	ATTT/ATT	ATTTTGGCCTCGTTTT CCT	TTGAAGTTGGTGAATG ATGGA	59.9	759	INTERGENIC	--	--	--
Ca7_P1_9544132	Ca7	9544132	ATTTTT/ATTTTTTT	TGCCTTAAATTTGGCA AAGG	TTCAATGCACATGAGC AACA	60.1	224	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_9549082	Ca7	9549082	CTTTT/CTTTT	TCTGGAGGCGCTTTTA GGTA	AGGATTGGCAAACGCA TATC	60.0	918	INTRON	Ca_17299	--	--
Ca7_P1_9553672	Ca7	9553672	TTTAAATTTAAAT/TTTAAAT	GGGACGAACCTACTCT AAGGC	CCGTAGACGGATTCA GAAA	59.3	549	DRR	Ca_17298	--	--
Ca7_P1_9557619	Ca7	9557619	C/CG	GTATGATTTGCGTGC TTCG	GAGCTTAAGTCATGGG AGCG	59.3	172	INTERGENIC	--	--	--
Ca7_P1_9558439	Ca7	9558439	TAAA/TAA	TTCACCTGTGTGGACA ATCG	GAAATGGTTAAAGGG GGAGA	60.6	656	INTERGENIC	--	--	--
Ca7_P1_9558642	Ca7	9558642	AA/AAAAGCA	GGCATGCATTTCTGTC CTTA	CAACCTTTGTCGGAG TTGT	61.0	811	INTERGENIC	--	--	--
Ca7_P1_9559628	Ca7	9559628	A/AAAC	CCAAATTGTAAACCGT AAAATGAA	TTTTATCCAATCTTCC GCGT	59.3	420	INTERGENIC	--	--	--
Ca7_P1_9560958	Ca7	9560958	GA/GAA	ACACCGGCAAAAAGTC AATC	ACAATCAGAGGCCCAT CAAG	60.0	662	DRR	Ca_17297	--	--
Ca7_P1_9568338	Ca7	9568338	TAAAAAA/TAAAAAA	TGCTATCAATTCGCAC AAAAA	GGCTTTGCAAGAGAAG ATCG	59.3	222	INTERGENIC	--	--	--
Ca7_P1_9579896	Ca7	9579896	TAAAAAA/TAAAAAA	CATTGTCGTGTCAAC GTCA	CGGACAACAATATGT GGCA	59.1	547	INTERGENIC	--	--	--
Ca7_P1_9580180	Ca7	9580180	TAGGC/TAGGCAGGC	TGCCACATAGTTGTTG TCCG	AATCCTGGTGCCCTAT TTCC	60.6	402	INTERGENIC	--	--	--
Ca7_P1_9583643	Ca7	9583643	A/ACGTGAACT	CGCAATTCAGTTCAC GTACA	TCTCAGACCGAATTGG AACC	59.8	497	INTERGENIC	--	--	--
Ca7_P1_9586429	Ca7	9586429	AA/AAGGA	ACATGCGCATTTGTGT GTTT	GAAGTTTTTCCGAAG AGGG	60.0	439	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_9587301	Ca7	9587301	TTCT/TT	CACGTAAGGGAAAGGC ACAT	CGAAAGCAATATGTCT CGCA	60.0	219	INTERGENIC	--	--	--
Ca7_P1_9593254	Ca7	9593254	TA/TAA	CTCCTTGTGGCAAAAT GGTT	GGTGACCGGTTGTTA TGCC	60.0	586	INTERGENIC	--	--	--
Ca7_P1_9605809	Ca7	9605809	AT/ATT	CCTTTATGGTTGTTC GTTTT	CCACAATGTTTCACTT GGCTT	59.0	496	INTRON	Ca_17295	I	FAR1
Ca7_P1_9606520	Ca7	9606520	TTATATATATAT/TTATATATAT	AAGCCAAGTGAAACAT TGTGG	CCCCATCCATTTTCTC TGAA	60.0	858	INTRON	Ca_17295	I	FAR1
Ca7_P1_9619349	Ca7	9619349	GAAA/GAA	GGTTGTACCGTTGAAC CCAA	GCCCGGATACATCACA TCTT	60.6	502	INTERGENIC	--	--	--
Ca7_P1_9620874	Ca7	9620874	AATTTT/A	TGCTTCCAACAGTTCA GTCG	GAAAAAGTTTGTCTCA CATACATTGAA	60.0	707	INTERGENIC	--	--	--
Ca7_P1_9624778	Ca7	9624778	GA/G	GAACAGCCAGTGCTTC TTCC	TGGGTCATGTTGGCA GTTTA	60.0	580	INTRON	Ca_17293	--	--
Ca7_P1_9624815	Ca7	9624815	CG/C	GAACAGCCAGTGCTTC TTCC	TGGGTCATGTTGGCA GTTTA	60.0	580	INTRON	Ca_17293	--	--
Ca7_P1_9625452	Ca7	9625452	TTG/T	TAAACTGCCAACATGA CCCA	GCAGTCATCATCTCCA AGCA	60.0	557	INTRON	Ca_17293	--	--
Ca7_P1_9629057	Ca7	9629057	ATGTATT/AT	TGCATGGTTGTGGCT TTTA	CTCCACCTCTCCATCC ACAT	60.1	594	INTRON	Ca_17293	--	--
Ca7_P1_9635230	Ca7	9635230	AGATGTGGATG/AGATG	AACAAGGCTGAGCCAA AGAA	GATGCCAACACCTTCA CCTT	60.0	222	CDS (large-effect mutations)	Ca_17292	A	--
Ca7_P1_9639157	Ca7	9639157	T/TTA	ATTTACCCAATTCTGG CCC	AAATGGTGGGTAGCCT TCCT	60.0	123	INTRON	Ca_17292	A	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_9643525	Ca7	9643525	AAACAAC/AAACAACTAACAAC	GGGACCATGGAAGCA GAATA	AGATGTGGCCATGATG TGAA	59.9	561	INTRON	Ca_17291	S	--
Ca7_P1_9648140	Ca7	9648140	CA/CAA	CAAGTTCGTGCTTGCA TCAT	TTCTACGGGTCGTATT TGCC	59.9	694	INTERGENIC	--	--	--
Ca7_P1_9655480	Ca7	9655480	TA/TAA	GAGTTGGACTTGATGC ACGA	ACATAGGCAAAGCTAG GCGA	59.8	508	INTRON	Ca_17290	--	TALE
Ca7_P1_9657910	Ca7	9657910	ATGTGTGTGT/ATGTGTGT	AAAACAAAGTCCCATG CAGT	CACATCGTCAAAGTAG CGGA	57.2	353	INTRON	Ca_17290	--	TALE
Ca7_P1_9663705	Ca7	9663705	A/AG	GGGCTCCTTTTATGG GAAA	CGCATAAATGCATCAA CCAC	60.3	402	INTRON	Ca_17290	--	TALE
Ca7_P1_9665800	Ca7	9665800	TA/T	CTGGGGTGGCAACATC TTAT	TTGCATAGCTCACAA TGCC	59.8	223	INTRON	Ca_17290	--	TALE
Ca7_P1_9666187	Ca7	9666187	CAAGTA/C	GCCAGTTGTGAGCTAT GCAA	TCTTTTCACTGCTTG CCTT	60.0	791	INTRON	Ca_17290	--	TALE
Ca7_P1_9672464	Ca7	9672464	TAAA/TAA	TAATGGAATGTGCGTG TGGT	ACTTGTGTCGCCATTT TCCT	59.8	294	INTERGENIC	--	--	--
Ca7_P1_9675042	Ca7	9675042	CGG/CG	CCCTTGGTGAAGGCAA AATA	TGTACCTTCTCCCTTG GCTG	59.9	317	INTERGENIC	--	--	--
Ca7_P1_9676622	Ca7	9676622	CAA/CAAA	CCGTTAGGAACTTGT GGGA	GGGACTGAGGCTTTAA GCAAA	60.0	113	INTERGENIC	--	--	--
Ca7_P1_9676904	Ca7	9676904	CAA/CAAAA	TCCGTTAGGAACTTG TGGG	AATGCTGAGGCAATTA GTGCT	60.0	612	INTERGENIC	--	--	--
Ca7_P1_9682912	Ca7	9682912	TG/T	CACAGCATCTTTTCC CCAT	CACAGATTGTAGCTG TCATCA	59.9	444	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_9683024	Ca7	9683024	TATTTTAAATT/TATTTTAAATTTTAAAT T	CACAGCATCTTTTCC CCAT	CACAGGATTGTAGCTG TCATCA	59.9	444	INTERGENIC	--	--	--
Ca7_P1_9686061	Ca7	9686061	TGAACG/TG	TGAGCTTGGCCAAGTC CTTT	TAAAGCAAATGCTCC CAGC	60.0	317	DRR	Ca_17288	U	--
Ca7_P1_9691758	Ca7	9691758	AT/A	GATCTGTGCTGGGTC CTTC	GGGATTTGGGAAGTTC CATT	59.7	280	INTERGENIC	--	--	--
Ca7_P1_9699894	Ca7	9699894	TA/T	AACTCTATCCCCACAC GCAC	CAACACGTCGGATTCC GTAA	60.0	476	INTERGENIC	--	--	--
Ca7_P1_9701171	Ca7	9701171	GAAA/GAAA	CCCAAACACACACACA CAAA	ATGCAATTGTTGACG TGAC	58.9	817	INTERGENIC	--	--	--
Ca7_P1_9705402	Ca7	9705402	GAAAAA/GAAAAAA	TGGAGACATACAGTTA AGAAAACAA	CACATGTGCTGATTGC CATA	57.2	240	INTERGENIC	--	--	--
Ca7_P1_9710850	Ca7	9710850	ACCCC/ACCC	TGAACCAAATTGGAA CCCT	GAATTGTGCACGATGG ATTG	59.3	595	INTERGENIC	--	--	--
Ca7_P1_9711096	Ca7	9711096	TG/TGG	CTGAACCAAATTGGAA ACCC	ATAGGCATGCAATGAT GCAA	59.3	667	INTERGENIC	--	--	--
Ca7_P1_9716197	Ca7	9716197	GTTTT/GTTT	ATGTCATGATTTCTTCC GCC	TGCCAACAAACAAGG GTCA	59.9	519	INTERGENIC	--	--	--
Ca7_P1_9726764	Ca7	9726764	TAAAAAA/TAAAAA	TGGTTGACCACTCATC AAAAA	TTTTGGGCTAGCATAT TGCC	59.0	685	INTERGENIC	--	--	--
Ca7_P1_9728419	Ca7	9728419	TAAAAA/TAAAAA	TCTCGCCATATGTTGT TTGG	CACTCACCCCTATGCC AACT	59.5	722	INTERGENIC	--	--	--
Ca7_P1_9729475	Ca7	9729475	GTTT/GTTT	TTATATCTCGGTCCTT GCCG	AAATTCCGGGTGGTA CTCC	60.1	617	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_9745135	Ca7	9745135	TTTATTATTATTATT/TTTATTATTATTA TTATT	TGATGATGCTGGGATT TCAA	AAATCCGAGACAAGAA ATTCAA	60.0	783	INTERGENIC	--	--	--
Ca7_P1_9746387	Ca7	9746387	TG/TGG	ACCCTTGGCTCCTTG TACT	TCATTTGATTGGGTGT GCAA	60.3	660	INTERGENIC	--	--	--
Ca7_P1_9753540	Ca7	9753540	AATAT/AAT	CATACATCTTGTGCC GTTG	TTTACTCCCTTTCAC CCACA	60.0	653	INTERGENIC	--	--	--
Ca7_P1_9753770	Ca7	9753770	GA/G	CAAACGGACCCCTTGA TATTGT	AGCAACCATACGAAAC CCTG	60.1	558	INTERGENIC	--	--	--
Ca7_P1_9755453	Ca7	9755453	GTCAAT/GT	CGGCAAAAACAACTTT TGGT	TCAGATTCATTTTCGG TTGATCT	60.0	765	INTERGENIC	--	--	--
Ca7_P1_9755686	Ca7	9755686	TTAGTTTTAAATA/TTAGTTTTAAATAG TTTTAAATA	TGGTTTACCTGTGTGG CTGA	GGTGCAATTTGAATCG GTTT	60.2	641	INTERGENIC	--	--	--
Ca7_P1_9760023	Ca7	9760023	A/AG	AGAGAATTGGATACCG CACG	TCCCAACCAAACTCA CACA	60.1	779	INTRON	Ca_17282	R	NAC
Ca7_P1_9762607	Ca7	9762607	ATAGGGA/ATAGGGAGTTAGGGA	TACTTCCCCTCCCCTC TGTT	GGTTCGCATTGCTCAG GTAT	59.9	826	INTRON	Ca_17282	R	NAC
Ca7_P1_9767755	Ca7	9767755	CAAAAA/CAAAAAAAA	CTTCTCTCGTGATGGA AGCC	AGACTGCATATGTGGG GGTC	60.0	616	INTRON	Ca_17282	R	NAC
Ca7_P1_9768326	Ca7	9768326	GAAA/GAAAA	GACCCCCACATATGCA GTCT	TGCACGACCAACCATA GGTA	59.8	558	INTRON	Ca_17282	R	NAC
Ca7_P1_9771339	Ca7	9771339	ATTT/ATT	ATCTGGCAAATTGGAG CATC	CACAACCTCATTGTGC CGTC	60.0	699	INTRON	Ca_17282	R	NAC
Ca7_P1_9772005	Ca7	9772005	CTTTGATCAA/C	CAGGTCGCTCACAAC CAGA	GAGGCTCAAGAGATCA AACTGAA	60.2	495	DRR	Ca_17282	R	NAC

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_9774600	Ca7	9774600	GGTT/G	GAAGTCCACTTTTCAA ATGACG	GGAAGTCCACTTTTAA AATGACG	58.7	299	INTERGENIC	--	--	--
Ca7_P1_9807315	Ca7	9807315	TTTAATT/TTT	GTCTCGTCTCTTCCA CTCG	GGTAGGACTTTTGCAT AGAACCA	60.0	197	DRR	Ca_12745	--	--
Ca7_P1_9807496	Ca7	9807496	AC/ACTC	TCCTCGTCTCTTCCAC TCGT	TGAATTTTATGCGTTTT GTTTGA	60.0	609	DRR	Ca_12745	--	--
Ca7_P1_9808644	Ca7	9808644	CA/C	GTGTGTGCAACTGCAA CGAT	CCTCCACGTAAACTC TTCCTTC	60.8	780	INTERGENIC	--	--	--
Ca7_P1_9813176	Ca7	9813176	TATATATCATA/TATATATCATATATCA TA	TCTTGTTGAGGACAGA TGCG	CATTCTGATGGTGTGTC GTTG	60.0	682	INTRON	Ca_12746	S	--
Ca7_P1_9813944	Ca7	9813944	TTTAGAAAA/T	CAACGACACCATCAGG AATG	TTTGACAAACAGGCTC AACG	60.0	898	DRR	Ca_12746	S	--
Ca7_P1_9814381	Ca7	9814381	CTA/CTATA	TGCTTTATGGTTGCGT TGAG	TGACAAATTGTGATTG GTTGG	59.9	109	DRR	Ca_12746	S	--
Ca7_P1_9814956	Ca7	9814956	TAAAAA/TAAAA	GAACGCAACCTTTAA AACGA	TGACTGTTCCAACACG GAAG	59.3	252	DRR	Ca_12746	S	--
Ca7_P1_9815697	Ca7	9815697	GCTTGTGTGAGGAC/GC	GCTTGTGTCCATTACG ACCA	CACCAACCCTAAACCT AAATCC	59.6	514	INTERGENIC	--	--	--
Ca7_P1_9818432	Ca7	9818432	GA/G	TGATTACAGTGTGAAC AAACA	CCCTCATTCTCGCTTT GCTA	58.6	661	INTERGENIC	--	--	--
Ca7_P1_9818649	Ca7	9818649	A/AATAT	TGATTACAGTGTGAAC AAACA	CCCTCATTCTCGCTTT GCTA	58.6	661	INTERGENIC	--	--	--
Ca7_P1_9821392	Ca7	9821392	CCTCT/CCTCTCT	ATTGCTTCCGTTGATG TTCC	CATCCCCACAAACCCA TAAG	59.9	402	INTRON	Ca_12747	G	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_9822172	Ca7	9822172	TTT/TTTCTT	GGGATGGGTGACCAG ACTAC	ACGCAATCCAAGCG TTAC	59.2	627	INTRON	Ca_12747	G	--
Ca7_P1_9822692	Ca7	9822692	TG/T	TCGGCGTTTGACTTT CCTT	GCAATGTCGACGGGA ATAAT	59.7	721	INTRON	Ca_12747	G	--
Ca7_P1_9822967	Ca7	9822967	TTTTGTTT/TTTT	ATTATTCCCGTCGACA TTGC	GAGGCAACGAGGTTT GAACT	59.8	252	INTRON	Ca_12747	G	--
Ca7_P1_9824460	Ca7	9824460	CTTTTTTT/CTTTTTTTT	ACCCACATGTAGGGG AAAT	GCATGTGCGAATTGG AATA	60.3	547	INTRON	Ca_12747	G	--
Ca7_P1_9824820	Ca7	9824820	TCCCCC/TCCCCC	AGAAAAGACGGTCTGG CCTT	GTGTGAAAACGCAA GGATT	60.2	458	INTRON	Ca_12747	G	--
Ca7_P1_984175	Ca7	984175	ATTTTTTTTTTTTT/ATTTTTTTTTTT	TGCATTGGCAAATTG TTATTTA	AGAAAATCGTCGTTG AAATG	59.4	490	INTERGENIC	--	--	--
Ca7_P1_9843413	Ca7	9843413	C/CCTGATTA	TGACAAGGGTGTTCAA CTGC	TGGCTTTGAGGACT GAATC	59.7	532	INTERGENIC	--	--	--
Ca7_P1_9843838	Ca7	9843838	AA/AATAATA	TTGAAATTTCCCGAAG ATGC	CAACTGCCTCCTATT TTATTTTGA	60.0	304	INTERGENIC	--	--	--
Ca7_P1_9843850	Ca7	9843850	AT/A	TTGAAATTTCCCGAAG ATGC	CAACTGCCTCCTATT TTATTTTGA	60.0	304	INTERGENIC	--	--	--
Ca7_P1_9844158	Ca7	9844158	TTTT/TTTTATT	TTGAAATTTCCCGAAG ATGC	GCAACGAGGCCTTAG AACTG	60.0	787	INTERGENIC	--	--	--
Ca7_P1_9844182	Ca7	9844182	T/TAAA	TTGAAATTTCCCGAAG ATGC	GCAACGAGGCCTTAG AACTG	60.0	787	INTERGENIC	--	--	--
Ca7_P1_9844349	Ca7	9844349	ACTACT/A	TCAAATAAAAAATAGGA GGCAGTTG	ACTATCCAATGGCAAC GAGG	59.9	519	DRR	Ca_12750	JO	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_9844646	Ca7	9844646	ATGTT/ATGTTGTT	GCAGTTCTAAGGCCTC GTTG	CCCATCCACCTACGAA CATC	60.0	672	DRR	Ca_12750	JO	--
Ca7_P1_9858173	Ca7	9858173	TTT/TTTATT	CTTTCTCCGGTTCCAA TGAA	CCCAGACCATATCACA ACGA	60.0	685	INTERGENIC	--	--	--
Ca7_P1_9858555	Ca7	9858555	ATATTATTATTATTATT/ATATTATTATT ATT	TCGTTGTGATATGGTC TGGG	TTTGATGTTGTTGGAG ATGAAAA	59.4	474	INTERGENIC	--	--	--
Ca7_P1_9865239	Ca7	9865239	GATATATAT/GATATAT	TGCTTTCAATTGCATTA ATCGT	TGAATTCACCACGTTG TTTGA	59.6	547	DRR	Ca_12752	R	C2H2
Ca7_P1_9867223	Ca7	9867223	CTTCTTGTTCTTGTCTTGTCTT/CTT CTTGTTCTTGTCTTGTCTTGTCTT	ACCAGAACCAACACC TTCG	CTCGTCAACGATCAAA ACGA	60.0	443	CDS (large-effect mutations)	Ca_12752	R	C2H2
Ca7_P1_9868243	Ca7	9868243	TAA/TAAA	CATTCTCTCTCCACC AAAA	ACGCGTATACCACTT TGCC	59.9	568	INTERGENIC	--	--	--
Ca7_P1_9880932	Ca7	9880932	AAAAG/A	CTCTTCTCAAGTGCCC AAGC	TGTTGGTGACATGATT GGCT	60.1	721	INTRON	Ca_12753	--	MYB_related
Ca7_P1_9882086	Ca7	9882086	GGATTA/G	ATGGTGGTGGTGAAT TGAT	GTACAGCCATGCCAAA CCTT	59.9	567	INTRON	Ca_12753	--	MYB_related
Ca7_P1_9886320	Ca7	9886320	TAGAG/TAG	CACCTCAAGAACAGCA ACCA	TAGTCTGGCATGATGG GTGA	59.9	555	DRR	Ca_12754	--	--
Ca7_P1_9921491	Ca7	9921491	TTTT/TTTTATT	TCGTTTTGGTTCAATTT CACA	CAAAATTTGAGGCATT TTACATGA	59.0	408	INTERGENIC	--	--	--
Ca7_P1_9925360	Ca7	9925360	AGCT/A	GAGCCTCCAAGTCCAC TCAG	CCTCACAACACGACCA AATG	60.0	759	DRR	Ca_12757	--	--
Ca7_P1_9927053	Ca7	9927053	AAAAAC/A	TTGGAAATCCATTGCA AACA	TGGGTGTGCGGTTAG TGATA	59.9	339	DRR	Ca_12757	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_9927302	Ca7	9927302	CTT/CT	TATCACTAACCGCACA CCCA	TGGTTGAAAATAGTAC AAGCCG	60.0	525	INTERGENIC	--	--	--
Ca7_P1_9929050	Ca7	9929050	GTTTTTTTTTTTT/GTTTTTTTT	GGATATGGCGTTTGCC TTTA	CAAAAGGTGGTTAGGT GGGA	59.9	274	INTRON	Ca_12758	GQ	--
Ca7_P1_9939871	Ca7	9939871	TATTTTGAAATTT/TATTTGAAATTT GAAATTT	GTTTATCCAGGAAGCC CCTC	GGCCCTTTGATTCTCT TG TG	59.9	379	INTRON	Ca_12759	O	--
Ca7_P1_9941741	Ca7	9941741	TCC/TC	ACGAAGATGGAGCGAA AAGA	AAAGTGAGAAGAATGT CGGTCA	60.0	688	INTERGENIC	--	--	--
Ca7_P1_9945482	Ca7	9945482	TTCTAT/TTCTATCTAT	TGTCACTGAGCAATGC ATGA	GACCAATGTGAGACG GGAT	60.0	678	INTRON	Ca_12760	--	--
Ca7_P1_9948651	Ca7	9948651	GTT/GT	ATAGGTGCGCTCCACA ATTC	TTGAATATGGTATTGG CGCA	60.1	544	INTRON	Ca_12760	--	--
Ca7_P1_9951203	Ca7	9951203	GAAAAA/GAAAAAAA	AATTGCTGTCTCCGA TTGC	TCTTTGGCATGTGTA TTGGA	60.2	865	INTERGENIC	--	--	--
Ca7_P1_9951660	Ca7	9951660	AAT/AATAT	TCCAATACATGCCA AAAGA	ATCGCCCATGTCCCAT ATTA	59.0	458	INTERGENIC	--	--	--
Ca7_P1_9954897	Ca7	9954897	AAAATACA/AAAATACAAATACA	TCGATTTTCACCATAC CGATT	CCATACGTCAAAGAGT GTCGG	59.3	826	INTERGENIC	--	--	--
Ca7_P1_9954957	Ca7	9954957	ATTT/ATTTT	TCGATTTTCACCATAC CGATT	CCATACGTCAAAGAGT GTCGG	59.3	826	INTERGENIC	--	--	--
Ca7_P1_9955616	Ca7	9955616	CAAAA/CAAAAA	TCCATTGGGAAATTTAT GTGG	AGCCACCAATGGAAG TCAC	59.5	583	INTERGENIC	--	--	--
Ca7_P1_9957584	Ca7	9957584	AT/ATCAATT	ACAATTAATGGGTCA AAAGGA	AAAGGAACAATCCTCG CCTT	57.6	825	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P1_9960561	Ca7	9960561	TTCTGAAA/T	GGTTTGAAGCACGGGA AATA	GGTTGGTTGAGTGGTT CTTTG	59.9	359	INTRON	Ca_12761	GMW	ERF
Ca7_P1_9967617	Ca7	9967617	ATTTTTTT/ATTTTTTTTT	TCAATGTAATGTTGGTT CGCA	GAATGCGCCAATACGT TTCT	60.0	576	DRR	Ca_12763	--	MYB
Ca7_P1_9968032	Ca7	9968032	TTAAATATAAAT/TTAAATATAAATATA AAT	GCGGGAGTTTCCTCAA CTAA	GTGCTGCTTCTCTGGG TTTC	59.3	822	DRR	Ca_12763	--	MYB
Ca7_P1_9974261	Ca7	9974261	AAAATAAAT/AAAATAAATAAAT	TTTTTGGATCATGGTC GGTT	CCTCGTTGGTGATGGA AAGT	60.2	676	INTERGENIC	--	--	--
Ca7_P1_9975017	Ca7	9975017	TGG/TG	ACTTCCATCACCAAC GAGG	CGGGGTTAAGCCATCA ACTA	60.0	688	INTERGENIC	--	--	--
Ca7_P1_9979582	Ca7	9979582	TCCCC/TCCCCC	ACCAAAAGTTGTCCCA CGAG	GCGAGATTAAGCCAAA GCAC	60.0	459	DRR	Ca_12764	E	TALE
Ca7_P1_9985685	Ca7	9985685	AAAC/A	GCTTGGTTTCCTTAAC CCGT	ACCATATTGAGGTTT CCAC	60.4	680	INTERGENIC	--	--	--
Ca7_P1_9987210	Ca7	9987210	T/TTTTT	TGATGCGTGCCTTT AATTC	TTTGCTCCTCGTCCAT TAGG	60.1	507	INTERGENIC	--	--	--
Ca7_P1_9989768	Ca7	9989768	AAATTAATT/AAATT	GAAACAAATTGACAAA CGGGA	CCTCGTCTTCTTAAG CCAC	59.8	514	DRR	Ca_12765	--	ERF
Ca7_P1_9991004	Ca7	9991004	TAAAA/TAAAAA	CTTTGTTTCCTCGTGG CATT	AAAAGAGGAACCGGTT GTGA	60.1	660	INTERGENIC	--	--	--
Ca7_P1_9992899	Ca7	9992899	ACCCCC/ACCCC	GATTGTGCGGATGCTT TGGT	GGGGTTTGTGTTGAAAT TTTTG	59.9	406	INTERGENIC	--	--	--
Ca7_P1_9993049	Ca7	9993049	TTAT/TT	GATTGTGCGGATGCTT TGGT	GGGGTTTGTGTTGAAAT TTTTG	59.9	406	INTERGENIC	--	--	--

[illegible]

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_1050452	Ca8	1050452	GTT/GTTT	AAAGCCGAGAAATAG GGGA	TTGAGGCTGAATTGA AGGG	60.0	273	DRR	Ca_15081	--	--
Ca8_P1_10509590	Ca8	10509590	GA/GAA	GCCATGTCAACCGAAG AGAT	ATGCCAAGCGTTTCAC TTTT	60.1	596	DRR	Ca_18435	--	--
Ca8_P1_10590161	Ca8	10590161	ATTTTT/ATTTTTTT	AACGGAGGAGGAACAA ACAC	TTAGAAGGCCTTGCAT ACGA	59.0	212	INTERGENIC	--	--	--
Ca8_P1_10591114	Ca8	10591114	AAA/AAAGAA	TCCCAGCATATCAAC ATCA	TGTGGGAGTTTGTCTT GCAG	60.0	555	INTERGENIC	--	--	--
Ca8_P1_10612849	Ca8	10612849	CTTTT/CTTT	AGTGGGAGTTTCGTCC ATTG	AGCACATGGAACCAAA GAGG	60.0	299	INTERGENIC	--	--	--
Ca8_P1_10641474	Ca8	10641474	AT/ATT	TTGTAGGCTGGGATCA GGTC	TTCAAGAAAGCCATGT GTGC	60.1	597	INTERGENIC	--	--	--
Ca8_P1_10671859	Ca8	10671859	TTGTTGGTG/TTG	TGCGCAACTATTGGT CCTT	TTTGATTCGGTTCAGAA GCAA	60.6	509	INTERGENIC	--	--	--
Ca8_P1_10684139	Ca8	10684139	TAAAA/TAAA	AAAAAGAAAGGAACGG TCATAAA	AAAGTCCACTCTGCAA TATGATCT	58.3	403	INTERGENIC	--	--	--
Ca8_P1_10686546	Ca8	10686546	ATTTT/ATTT	TGCTATCGGTACCAAT TTTGC	TCCGTTGTCTCATTG ATCA	60.0	628	INTERGENIC	--	--	--
Ca8_P1_10701972	Ca8	10701972	ATGTT/AT	TCAACGGTTATACGGC AACA	TTTTATCTATGAAAAAT GCCTCACA	60.0	373	INTERGENIC	--	--	--
Ca8_P1_10713371	Ca8	10713371	CAAAAAAAAA/CAAAAAAAAA	TGCATGCAATGGTACA ACAA	AACATCCAATTCCAAC CCAA	59.6	661	INTERGENIC	--	--	--
Ca8_P1_10727907	Ca8	10727907	GAAAAA/GAAAA	GGTAGGCATTGGAGCA TTGT	CATCTTTTGCAGCATG GCTA	60.0	581	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_10743637	Ca8	10743637	TAATAAATAAATAAATAAATAAAT A/TAATAAATAAATAAATAAATAA	TTGAGCTTGAGCAACA ATGG	AAACACCCCTTCCTTGG CTTT	60.0	815	INTERGENIC	--	--	--
Ca8_P1_10789824	Ca8	10789824	GA/GAA	TGCGAGCATGAGAAGT TGTT	TTTGAAAGAAAATACC CAAATTCA	59.6	212	INTERGENIC	--	--	--
Ca8_P1_1079907	Ca8	1079907	AC/A	ATTAGGTAGCCATGAG CCCC	TTCTCAGATTGGCAT GCTG	60.3	638	INTRON	Ca_15076	CR	NAC
Ca8_P1_1080030	Ca8	1080030	TAAAAAAAAAAAA/TAAAAAAAAA	ACATGATTTGCAAAA GCCC	AAGGTATCCAAACACA GCGG	59.9	457	INTRON	Ca_15076	CR	NAC
Ca8_P1_10916956	Ca8	10916956	GGTGTG/GGTGTGTG	CATGGTACTGGAACA CTGG	CATTCGAGGCTCCGTA AAAG	60.0	341	DRR	Ca_19744	R	NAC
Ca8_P1_10934374	Ca8	10934374	AT/ATT	TCCGATTCATCCTCTT GGTC	AATGAAAAAGCGGGA AACT	60.0	368	DRR	Ca_19747	R	NAC
Ca8_P1_10960216	Ca8	10960216	T/TA	TCGATCTTTGTGGTAA TTGTGAA	AGAAATGATGGACAAA GCCA	59.5	739	INTERGENIC	--	--	--
Ca8_P1_10973766	Ca8	10973766	TATA/TATAAATAAATAAATAA	CGGACGTATGCATCAA ATTG	GGACTCGCTCGATGTA CGTT	59.0	387	INTERGENIC	--	--	--
Ca8_P1_11019474	Ca8	11019474	TTATATATATATATATATATATAT/ TTATATATATATATATATATATAT AT	CGTCGCACGGATACAA AATA	AAAGAGTGGTGCAGG AGTCG	59.6	234	INTERGENIC	--	--	--
Ca8_P1_11059817	Ca8	11059817	ATTTTTTTTT/ATTTTTTTTTT	ATCTTAGCCAAAAGGC CGAG	ATTGGGCTTGAATTT GTTG	60.7	856	INTERGENIC	--	--	--
Ca8_P1_11070760	Ca8	11070760	AG/A	GCTTCTAGCTGGTGCT GCTT	AGGGAATCAATTGTAG GGGG	59.9	900	INTERGENIC	--	--	--
Ca8_P1_11073427	Ca8	11073427	TAAAAAAAAA/TAAAAAAAAAAAA	GCACCATTTTCCTGTTT TCAG	TCCTTCATTTGATGTC CACCT	59.6	182	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_11075848	Ca8	11075848	CAAAAAAAAA/CAAAAAAAAAAAAA	TAACCCGTTTCTGACTC CTCG	TGGTAGGATCCGTGA GACATT	60.1	883	INTERGENIC	--	--	--
Ca8_P1_11078031	Ca8	11078031	GTTTTTTTTT/GTTTTTTTTT	TTTTTCAGGCAACAA GGCT	CGCGCAGTTGTTTCA AGT	59.9	616	INTERGENIC	--	--	--
Ca8_P1_11079278	Ca8	11079278	GAAAAAAAA/GAAAAAAAA	GTTTTGGGGTGAGTC GTTA	GGTCTAATTGGTGGG GTGA	59.8	667	INTERGENIC	--	--	--
Ca8_P1_11079472	Ca8	11079472	TAAAA/TAA	GTTTTGGGGTGAGTC GTTA	CGGTCACGGTCTAAT TGGT	59.8	675	INTERGENIC	--	--	--
Ca8_P1_11083351	Ca8	11083351	GAAAA/GAAAA	AAAACAACGTGACAAC GCTCT	TCATGGGGATGGTTT GAGT	59.8	204	INTERGENIC	--	--	--
Ca8_P1_11109889	Ca8	11109889	GAAAAAAAA/GAAAAAAAA	GGATGGATCCTAGTGT CGGA	GCACTTTTCAATTCTT GGAGG	59.9	212	INTERGENIC	--	--	--
Ca8_P1_11110511	Ca8	11110511	AAG/AAGTTAG	TCTCATAACGGATTGA CTCTGTG	CAAACCATGGTGATT GTGA	59.3	764	INTERGENIC	--	--	--
Ca8_P1_11113946	Ca8	11113946	G/GAATA	CCAGAAAACGAAACC AAACA	TTTGATTTTGAGGCAG AGCA	60.0	480	INTERGENIC	--	--	--
Ca8_P1_11124508	Ca8	11124508	CATAT/CAT	CAGTGGGAAAAGTCAA CGGT	GGTTCCGACATCACAG GAGT	60.0	536	DRR	Ca_16840	--	WRKY
Ca8_P1_11129593	Ca8	11129593	ATTTTTTTTT/ATTTTTTTTTT	CCATGCAAGCTTAGGT GTTG	CCGATTAGTGGTGGC TTTG	59.3	609	INTERGENIC	--	--	--
Ca8_P1_11132594	Ca8	11132594	TAAGAAGA/TAAGA	CGCGCGGACCATAATC TAGT	CGGATTTGACAACAAA ACTGAA	62.4	382	INTERGENIC	--	--	--
Ca8_P1_11144283	Ca8	11144283	A/ATTTAATC	TTGCCATGCCTACTTA AGGG	AATGACATTGAATTCC CCGA	60.1	292	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_11144526	Ca8	11144526	CATTA/CA	TTGCCATGCCTACTTA AGGG	TCACACCGAGTTTCATC CAAA	60.1	805	INTERGENIC	--	--	--
Ca8_P1_11145618	Ca8	11145618	TTTATTA/TTTATTATTA	TCTTTCTGGTTGCAAAAT TGTTTT	CATGCTTTAAAGAGCC AATGC	60.0	758	INTERGENIC	--	--	--
Ca8_P1_11145831	Ca8	11145831	TCC/TC	TCTTTCTGGTTGCAAAAT TGTTTT	AAATTGAAGCAAACGG AACC	60.0	980	INTERGENIC	--	--	--
Ca8_P1_11146284	Ca8	11146284	TGTGTCTTAGGT/TGT	TGTGATTGAGGCACTA TCAAGC	CCGGGTGAAATGGTTA TTTG	60.3	280	INTERGENIC	--	--	--
Ca8_P1_11146309	Ca8	11146309	ATTTTTTTTT/ATTTTTTTTT	TGGTTTGCTGGAATTG TGTG	CCGGGTGAAATGGTTA TTTG	60.6	167	INTERGENIC	--	--	--
Ca8_P1_11146772	Ca8	11146772	TAAA/TAAAA	TAACCTGTGCGCTATT CGTG	TGCAATAATTCTCTCA TCATTTTT	59.9	329	INTERGENIC	--	--	--
Ca8_P1_11151543	Ca8	11151543	GAAAAAA/GAAAAAA	TCCTATTGCCGCTATG TTGA	TTGAGCATCGTGTGG AGAG	59.3	805	INTERGENIC	--	--	--
Ca8_P1_11151846	Ca8	11151846	AATAT/AATATATAT	TTTGTCCAATGGGAAG AAGAC	TTGAGCATCGTGTGG AGAG	59.0	174	INTERGENIC	--	--	--
Ca8_P1_11155248	Ca8	11155248	TAAAAAA/TAAAAAA	GCGTGAGTGGTAGAGT GCTTC	TGGTGCTGTCAAACGA AAGA	60.1	221	INTERGENIC	--	--	--
Ca8_P1_11158792	Ca8	11158792	GAAAAAA/GAAAAAA	TATCCTGGGACATTG TGGT	TGTGGTTGCACCTTTT TCTG	60.1	489	INTERGENIC	--	--	--
Ca8_P1_11168829	Ca8	11168829	ATAG/ATAGTGAGCTAG	GAAACGTTGCAACTTG GTCA	GACCTTTGGTGGGGA AAAAT	59.7	227	INTERGENIC	--	--	--
Ca8_P1_11193555	Ca8	11193555	ATTTTTTT/AATTTTTTTTT	TAGCCGTAAATGTTTT GGGG	ATTGTGATCACCTTCG CACA	59.8	523	INTERGENIC	--	--	--

[illegible]

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected 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_P1_11576488	Ca8	11576488	AATATATATATATATATATA/AATAT ATATATATATATATATA	CCCTTCTATCTTCCAA GGGC	TGCAAAAGGTCAATCA CTCAA	60.0	536	INTERGENIC	--	--	--
Ca8_P1_11603997	Ca8	11603997	TTTG/TTTGCCTTG	TTGAGCACCAATTTT GACA	CATGTGCTTGTGAGTT GGCT	60.1	408	DRR	Ca_16810	IR	Dof
Ca8_P1_11636108	Ca8	11636108	TGAGAGAGAGAGAGAGAGAGAGA GAGAGAGAGAGAGAGAGAGA/TGAGA GAGAGAGAGAGAGAGAGAGAGAG AGAGAGAGAGAGAGAGA	GCATGTGTGGAACACG ATTT	GGGGGAACATCCTGG TAAGT	59.4	623	INTRON	Ca_16809	R	ERF
Ca8_P1_11678007	Ca8	11678007	AATATATATATATATATATATATAT/ AATATATATATATATATATAT	AGCCTGAGCCTAGACA TGGA	CCTTGCCACACCTTT ATCTG	60.0	789	INTRON	Ca_16804	--	--
Ca8_P1_11722304	Ca8	11722304	TATG/T	GCAGCTCATACAGCTT TCCC	GTTTGCTGCTATTGCG ATGA	60.0	748	CDS (large-effect mutations)	Ca_16801	DL	FAR1
Ca8_P1_11757435	Ca8	11757435	ATTTATTTTATTTTATTTT/ATTTATTTT ATTTTATTTTATTTT	CTACTTAGGCATATGC GCCC	GAAGCCACATTTTCCC TTGA	59.7	754	INTERGENIC	--	--	--
Ca8_P1_11771227	Ca8	11771227	CTATATATATATATATATATATATAT ATATATATATATAT/CTATATATATATA TATATATATATATAT	TGGCTATGTTCCAAGA CTTGTT	TGGTTGGGTGATCTTT CCAT	58.8	597	INTERGENIC	--	--	--
Ca8_P1_1184414	Ca8	1184414	GAAAAAAAAA/GAAAAAAAAA	TTCGTACCGTTCTCTC CTCAA	TTGTACACAACCTCCCT TGCG	59.9	563	INTERGENIC	--	--	--
Ca8_P1_11875731	Ca8	11875731	ATCTCTCTCTCTCTCTCTC/ATCTC TCTCTCTCTCTC	AACGCTTGACGCGAG ACTT	TTTAGGCCCAAATCAT CAGC	60.1	915	INTERGENIC	--	--	--
Ca8_P1_11875776	Ca8	11875776	ATCTCTCTCTCTCTCTCTCTCTCTC TCTCTCT/ATCTCTCTCTCTCTCTCTC CTCTCTCTCTCTCTCTC	GTCAACACTCTTGCC ACCT	TTTAGGCCCAAATCAT CAGC	60.2	483	INTERGENIC	--	--	--
Ca8_P1_11912262	Ca8	11912262	TAAAAAAAAAAAAAAAAAAAAA/TAAAA AAAAAAAAAAAAAAAA	CAATGTGATCATCCTC GCAC	TGTGTACCGGAATGCT TCAA	60.1	564	DRR	Ca_23839	--	NAC
Ca8_P1_11946471	Ca8	11946471	CTTTTTTT/CTTTTTTTTT	AAATGCGAACTTACAT GGCA	TTCCCATGAATCTGC TCTC	59.2	785	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_11955442	Ca8	11955442	T/TG	GGCCGATTACTGCTC ACAT	GTTGCCACTTGGCGTA AAAT	60.1	430	INTERGENIC	--	--	--
Ca8_P1_11955768	Ca8	11955768	CTAATAATAA/CTAATAA	CTAATGCCCCCAACTC ACAT	TGTTTGGTGAAGGCT CTTG	59.8	307	INTERGENIC	--	--	--
Ca8_P1_119746	Ca8	119746	CTCATATCATATCATATCATATCATAT CATATCATATCATATCATATCAT/CTCA TATCATATCATATCATATCATATCATAT TCATATCATATCAT	TGTGCAGCACTCCAGT TTTC	GAACAAGCACTCTCCC TTGC	60.0	811	INTRON	Ca_11930	A	--
Ca8_P1_11975415	Ca8	11975415	T/TCA	TGATCGAATGAGACAA CAAAAA	AGATGCTAACCCGCGT AGTG	58.3	373	INTERGENIC	--	--	--
Ca8_P1_11975713	Ca8	11975713	CT/C	TATACTCGTCACTAC GCGG	GGATGGAGACAATGAT GAGGA	59.9	135	INTERGENIC	--	--	--
Ca8_P1_11975949	Ca8	11975949	AATTTATGTGTAGATGTATTTAT/AATT TATGTGTAGATGTATTTATGTGTAGAT GTATTTAT	TATACTCGTCACTAC GCGG	TTGTTGGGGTGAACCT AATCG	59.9	663	INTERGENIC	--	--	--
Ca8_P1_11976112	Ca8	11976112	AATAT/AAT	TATACTCGTCACTAC GCGG	TTGTTGGGGTGAACCT AATCG	59.9	663	INTERGENIC	--	--	--
Ca8_P1_11976190	Ca8	11976190	TA/T	CACTACGCGGGTTAGC ATCT	TTGTTGGGGTGAACCT AATCG	60.3	653	INTERGENIC	--	--	--
Ca8_P1_11977064	Ca8	11977064	AC/AAACATATTTTC	ATCAAATGTTTCATGCG CAAA	TTCCCATTTCCCAAG TGTA	60.1	256	INTERGENIC	--	--	--
Ca8_P1_12016131	Ca8	12016131	ACCCC/ACCCCC	CAACTCTCGTCGCAAC TCAA	ATGCAACTTGGGAATT GGAG	60.2	362	INTRON	Ca_23846	T	--
Ca8_P1_12046116	Ca8	12046116	GTTTTTTTT/GTTTTTTTTT	GTAGTTTCGATCCTGCA TGGG	TGGATAACTTGCATTT GGGC	60.5	327	INTERGENIC	--	--	--
Ca8_P1_12048031	Ca8	12048031	C/CT	TGTACAAACAGCCCAT GACAA	TGGAAGAAGGTGGGA AAGAA	60.0	641	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_12048312	Ca8	12048312	TA/TTATGGATCCTACA	TTCCCCCTAAACAGA ACCA	TGGAAGAAGGTGGGA AAGAA	59.4	269	INTERGENIC	--	--	--
Ca8_P1_12048375	Ca8	12048375	ACC/ACCC	TTCCCCCTAAACAGA ACCA	GTTGTTGCTGCCCTTT GTTT	59.4	723	INTERGENIC	--	--	--
Ca8_P1_12072367	Ca8	12072367	GAAAAAAAAA/GAAAAAAAAA	TGGAGAGGTTGTGATG TCCC	ACGGGCATCTTGATCT TCTG	60.9	782	INTERGENIC	--	--	--
Ca8_P1_12875576	Ca8	12875576	GGAT/GGATGGAGAT	TGTATGATCGATCTGG GCAA	TGCATGTGCCTTCTGA AATG	60.0	731	INTERGENIC	--	--	--
Ca8_P1_12979016	Ca8	12979016	C/CG	ATATGTTGGGGTGAT GGAA	GGGGTCGGACATTAC TAGC	59.9	921	INTERGENIC	--	--	--
Ca8_P1_12979079	Ca8	12979079	TTTA/TTTAATTA	CGTGCACTTTAGGGAA GGAT	GGGGTCGGACATTAC TAGC	59.2	873	INTERGENIC	--	--	--
Ca8_P1_12980984	Ca8	12980984	TC/T	ATCCACTGCAAACTC CACC	GAAAAATGATGCAAGA GACAAGAA	60.0	659	INTERGENIC	--	--	--
Ca8_P1_12981027	Ca8	12981027	CTTT/CTT	TCGACACGCTGACATG TGTA	GAAAAATGATGCAAGA GACAAGAA	59.9	562	INTERGENIC	--	--	--
Ca8_P1_12983474	Ca8	12983474	ATTTTT/ATTTT	TGCAGATGCACGAATC TCTT	TGCACTAATTTATCGG GACCA	59.6	496	INTERGENIC	--	--	--
Ca8_P1_12983910	Ca8	12983910	TAA/TA	TTGGTCCCATAAATT AGTGC	GCCCCAAGTTAAGACAA CCCA	59.0	442	INTERGENIC	--	--	--
Ca8_P1_12984097	Ca8	12984097	CGTGTGT/CGTGT	AGTGTTAACCGGGATC AAACA	GCCCCAAGTTAAGACAA CCCA	59.3	301	INTERGENIC	--	--	--
Ca8_P1_12988606	Ca8	12988606	AG/A	CTCGCTCAAGATTTCC AAGG	GTTGTGGGAGGATCG AAAGA	59.9	567	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_12990010	Ca8	12990010	CTA/CTATA	TGGCTAATAAATTGTG CCCAT	TCATGTCCCCTCCTTG AATC	59.3	552	INTERGENIC	--	--	--
Ca8_P1_13076511	Ca8	13076511	TTCCCTCCCT/TTCCCT	TGAAGGTGCTGGAAAA CACA	CCAACCTCTCACCCA TAAG	60.3	469	INTERGENIC	--	--	--
Ca8_P1_13142983	Ca8	13142983	TTTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTAT TATTATTATT/TTTATTATTATTATT ATTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTAT	TAAACCTCCATATTG GCC	AGACCCGGTCAGAAAA CGTA	59.9	517	INTERGENIC	--	--	--
Ca8_P1_13144318	Ca8	13144318	TTATATATATATATATATATAT/TTAT ATATATATATATATATAT	TTGGTGCAACAAGGA ACGA	ACGCCACAATAAAGGT GTCA	60.1	633	INTERGENIC	--	--	--
Ca8_P1_13191414	Ca8	13191414	GTTTTTTTTT/GTTTTTTTTT	GCGAAAGCGCTTCATT TTAC	ATATAATGCCGACGCT GAGG	60.0	705	INTERGENIC	--	--	--
Ca8_P1_13274678	Ca8	13274678	AATATATATATATATATATATATA/A ATATATATATATATATATATA	CGCGATTAATTCCGGT AAAA	CACCCAATCCGAGTTA CGTT	59.9	879	INTERGENIC	--	--	--
Ca8_P1_13297997	Ca8	13297997	TA/TAA	AAATTGATTGGATGGT GGGA	AAATGCAGAGGCACCA CTCT	60.0	442	INTERGENIC	--	--	--
Ca8_P1_13300326	Ca8	13300326	TTTATTATTATTATTATTATTATTA TTATTATTATTATTAT/TTTATTATTATT ATTATTATTATTATTATTATTATTA T	CAACCGACGATTATGA ACGA	AGGATGCTCCTATGTG GGGT	59.5	277	INTERGENIC	--	--	--
Ca8_P1_1333930	Ca8	1333930	AATATATATATATATATATATAT/AA TATATATATATATATATATAT	ACACAAATGGGATGAG AGGC	TGGGGTGACACTATAA CCAACA	59.9	452	INTERGENIC	--	--	--
Ca8_P1_1342981	Ca8	1342981	CAAAA/CAAAAA	CCTCTAGGAAACCATC AACATCA	CCTTGCCACCTCATCT CATT	60.4	423	INTERGENIC	--	--	--
Ca8_P1_1343227	Ca8	1343227	AAAAGAAAGAAAGAAA/AAAAGAAAGA AAGAAAGAAA	TGAGAAATTAAGCTTG TGGGG	CCTTGCCACCTCATCT CATT	59.2	206	INTERGENIC	--	--	--
Ca8_P1_13475871	Ca8	13475871	A/AC	AGGAAGAGTGGAGTTG CGAA	TATTTTGGATTTTGGC TCGG	60.0	300	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected 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_P1_13476730	Ca8	13476730	AA/AAGA	GATGTTCCAGCTCTCT TGCC	TGGGAATCGATTAAG CCTG	60.0	504	DRR	Ca_20118	--	--
Ca8_P1_1355185	Ca8	1355185	CTTTTTTTTT/CTTTTTTTTT	TTTATTTCTTCACGTG GGC	ATGTGTTGGGTGGGT CACT	59.9	125	INTERGENIC	--	--	--
Ca8_P1_13728041	Ca8	13728041	AA/AATCGA	CATGATTGTGGCGCAG TATG	AGCAATGAAGGAATGG GTTG	59.9	525	INTERGENIC	--	--	--
Ca8_P1_13738833	Ca8	13738833	AATATATATATATAT/AATATATATA TATATATAT	ATGTTTTGGATTTTGG CTCG	AGGAAGAGTGGAGTT GCGAA	59.9	512	INTERGENIC	--	--	--
Ca8_P1_13751146	Ca8	13751146	AAATAATAATAATAATAATAATAAT AATAATAATA/AAATAATAATAATAATA ATAATAATAATAATAATAATAATA	GATGGAGGGAGAACG TGAAA	CATCTGACCATTGAAT TGCG	60.1	293	INTERGENIC	--	--	--
Ca8_P1_13774	Ca8	13774	CAAAAA/CAAAA	CGAGGCACAACATCAT CATC	TGGTGCTTCAATGAAC TTGG	60.1	616	INTERGENIC	--	--	--
Ca8_P1_13776463	Ca8	13776463	GTT/GT	TACGGTGCTAGGGAAC CAAC	TAATGGTTTTACGCC AACA	60.0	534	INTERGENIC	--	--	--
Ca8_P1_13778712	Ca8	13778712	ATTTT/ATTT	TAGGGGGTTGAGTTGT CAGG	CCAGCTTAGTCCTGGT GAGC	60.0	510	INTERGENIC	--	--	--
Ca8_P1_13799859	Ca8	13799859	ACG/ACGGAGAAGCG	GCTTGGAACAGCCTC AGAC	CGGTGCAAACTCTACG TTCA	60.0	402	INTERGENIC	--	--	--
Ca8_P1_13815012	Ca8	13815012	A/ATAAATAAAT	CACAATTGCCACCAAC ACTC	TTTTTGCCACCATTTTC ACA	60.0	220	INTERGENIC	--	--	--
Ca8_P1_13815063	Ca8	13815063	TG/TGGAAGG	CACAATTGCCACCAAC ACTC	GCACCATCATGTATCC TGCTT	60.0	275	INTERGENIC	--	--	--
Ca8_P1_13817368	Ca8	13817368	AAATAATAATAA/AAATAATAA	TTTTTGCCATTCAAAC ACA	CACCTTTTCTCACCC CCAC	59.9	682	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_13844941	Ca8	13844941	AATATATATATATATA/AATATATATAT ATATATA	GGCTCTTCCATCTCCT CAAA	TTTCTTCGAGAGGTCG CTTC	59.4	607	INTERGENIC	--	--	--
Ca8_P1_13899770	Ca8	13899770	TAAAAAAAA/TAAAAAAAA	GTGCAACGCACCGTT ATAC	ATTTGGCAGACACGTG ACAA	61.3	564	INTERGENIC	--	--	--
Ca8_P1_13902889	Ca8	13902889	TAAAA/TAAAA	AAAGAGTGGTGTAGA GTCATGTTTT	CGTCGCACGGAACTA TCTT	59.9	208	INTERGENIC	--	--	--
Ca8_P1_13934256	Ca8	13934256	CTTATCAATAATTAAATTTATCAATAAT /CTTATCAATAATTAAATTTATCAATAA TTAAATTTATCAATAAT	AATAGGGGACCAAAA GTGC	ATCACATGTGATTGT CACG	60.2	464	INTERGENIC	--	--	--
Ca8_P1_13940610	Ca8	13940610	AG/A	ATTGGGTCAGTTGGT TTGC	TTAGTCGCCTCACTCC ATCA	59.8	924	INTERGENIC	--	--	--
Ca8_P1_13993624	Ca8	13993624	TTG/T	GCACAATTTGGCAAGA ACAA	TTGGGATTGAGGTTGA GGAG	59.7	455	DRR	Ca_22739	K	--
Ca8_P1_13993907	Ca8	13993907	GTTTT/GTTTT	CTCCTCAACCTCAATC CCAA	TCACCGGTCAATCAAT TAAAA	60.0	228	DRR	Ca_22739	K	--
Ca8_P1_14035508	Ca8	14035508	GA/GAATA	TGAAATATTTAAGCAT TCACTGATAA	CATGCCCTTCTGCTTC AACA	57.7	466	INTERGENIC	--	--	--
Ca8_P1_14036987	Ca8	14036987	CATATATATATATATATA/CATATATAT ATATATATATA	TCAAAGCTCCCATGGA TACC	TTGTCTTCTCACTCC CACC	59.9	639	INTERGENIC	--	--	--
Ca8_P1_14042124	Ca8	14042124	ATTTTTTT/ATTTTTTT	TTCGGTCGTTTGTAA GGTG	CTCAACCAACCACCA CTCT	59.4	932	INTERGENIC	--	--	--
Ca8_P1_14048687	Ca8	14048687	ATTTTTTT/ATTTTTTT	CCACCGAAAAATTTCA TCCA	CCGGAACCTTCATTC CAAA	60.7	413	INTERGENIC	--	--	--
Ca8_P1_14064085	Ca8	14064085	CATATATATATATATATA/CATATATAT ATATATA	TGTGTGTGTGTGCCA GAGG	GGTATCCATGGGAGCT TTGA	59.1	804	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_14064157	Ca8	14064157	C/CTTCATAT	TTAACCCTATGGGGT TGATT	GGTATCCATGGGAGCT TTGA	59.4	467	INTERGENIC	--	--	--
Ca8_P1_14073516	Ca8	14073516	A/AT	TTCCTTCTCAACCAACA GGC	GAAGTTGATGAACCCG TCGT	60.2	578	INTERGENIC	--	--	--
Ca8_P1_14074282	Ca8	14074282	CCGCG/CCG	AAACAAAATCCACCG ACTC	TAGGTCCAAAGGTGC CAAC	60.0	606	CDS (FRAME SHIFT)	Ca_22744	U	--
Ca8_P1_14076848	Ca8	14076848	CTT/CTTGCTATTTTT	CCCAGGCCTATAGTGG TGAA	ACCGGGGATGACATAT CAAA	59.9	491	CDS (large-effect mutations)	Ca_22744	U	--
Ca8_P1_14077206	Ca8	14077206	T/TTCCATG	TTGATATGTCATCCCC GGTT	TTCTTTCCACCCCTTC TTCC	60.0	696	DRR	Ca_22744	U	--
Ca8_P1_14077330	Ca8	14077330	TAGAGAAAAGAAGAGAAA/TAGAGAAA	TTGATATGTCATCCCC GGTT	TTCTTTCCACCCCTTC TTCC	60.0	696	DRR	Ca_22744	U	--
Ca8_P1_14077398	Ca8	14077398	GA/GAAA	TTGATATGTCATCCCC GGTT	AGCTGCATCTTCACG ATTT	60.0	940	DRR	Ca_22744	U	--
Ca8_P1_14078454	Ca8	14078454	CATATATATATATATATAT/CATATATA TATATATATATAT	TCTATTGTCATGGGCT GTTTG	TGATTCTTCATCCACC TTCAA	58.6	204	DRR	Ca_22744	U	--
Ca8_P1_14112419	Ca8	14112419	CTTGTTAATTA/CTTGTTAATTAATTG TTAATTA	TGTCAAGATCCGCCAA TGTA	TCATTGCGGTAGACAA ACACA	60.1	382	INTERGENIC	--	--	--
Ca8_P1_14113684	Ca8	14113684	TAAAAA/TAAAAA	AACACGCCTCACACCA CATA	CCAATTCACAAAATCG GTCC	60.0	447	INTERGENIC	--	--	--
Ca8_P1_14119280	Ca8	14119280	ATTTTT/ATTTT	TTGGCCTACCAACCAA AAAG	ATCGAGACCTGAGC GAGT	60.0	947	INTRON	Ca_13048	--	GRAS
Ca8_P1_14120264	Ca8	14120264	TTAT/TTATAT	AGAGCACCTTTGCCTT TCAA	GGACATGGGGTTGCA TTTAC	60.0	456	INTRON	Ca_13048	--	GRAS

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_14121923	Ca8	14121923	GAAAAAAAA/GAAAAAAAAA	TGGTCTTTGATTCCTG ACGA	GCTTTTGTGAGTCCA CTTGC	59.2	690	INTRON	Ca_13048	--	GRAS
Ca8_P1_14127063	Ca8	14127063	A/A/C	TCCAACCTGAAACACAG CACAG	TGGCCTTCTCTGGAGA TTTG	59.9	154	INTRON	Ca_13047	T	B3
Ca8_P1_14129438	Ca8	14129438	CTTTTTTT/CTTTTTT	AGCACAACCCATTCT CCTC	CAAAATTATTCAAGCAA TTTAAATCTCG	59.9	690	INTERGENIC	--	--	--
Ca8_P1_14130339	Ca8	14130339	CATATA/CATA	TTGTCGTTTATTGCTTT TTCA	TTGGACAACGAGCTCA CAAC	59.3	240	INTERGENIC	--	--	--
Ca8_P1_14138805	Ca8	14138805	TAAAAAAA/TAAAAAA	CAAAGAAAAGGAAGAA CCACA	TTCATTTTCATCCTCTC GGC	60.5	290	DRR	Ca_13046	O	--
Ca8_P1_14143537	Ca8	14143537	CTTTTTTTTT/CTTTTTTTTTT	ATGCATGTGAAAGGGA CACA	AAGGGCCCACTATCA CTTC	60.0	497	DRR	Ca_13045	--	--
Ca8_P1_14145714	Ca8	14145714	GAAAAAAAA/GAAAAAAAA	TGGTTTATGATGCATT TTCG	TCTTTGGTCCATTGTA GCCC	58.5	855	INTERGENIC	--	--	--
Ca8_P1_14158321	Ca8	14158321	AT/A	CGACCGTTGACTACTG ACGA	AAATTGGTAAATGGTT GATCCTC	59.9	679	INTERGENIC	--	--	--
Ca8_P1_14159371	Ca8	14159371	CAAAAAAAAA/CAAAAAAAAA	CTGCAGAGTACGATGC CCTA	TGGCATTGATGTTTGC ATTT	59.1	807	INTERGENIC	--	--	--
Ca8_P1_14159529	Ca8	14159529	GAAAAAAAA/GAAAAAAAA	TCATTCTGGTCTTTTTC CTCG	TGGCATTGATGTTTGC ATTT	59.3	708	INTERGENIC	--	--	--
Ca8_P1_14159846	Ca8	14159846	AATATA/AATATATA	AAATGCAACATCAAT GCCA	GAAATTAAGAGGGAG GGAGGA	59.9	290	INTERGENIC	--	--	--
Ca8_P1_14160230	Ca8	14160230	TATGA/TATGATGA	AAATGCAACATCAAT GCCA	TTTTTCATGACCTTTT CACC	59.9	588	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_14162735	Ca8	14162735	AC/A	GGGTTTGACCAAGGA GACA	TAATCATGGCAGTGC TTTG	59.9	308	INTERGENIC	--	--	--
Ca8_P1_14165620	Ca8	14165620	AAATTAA/AAATTAATTAA	TTTTCCGACTTGGTC CTTT	TGGGGGTATTGACAG GTGTT	58.7	752	INTERGENIC	--	--	--
Ca8_P1_14166024	Ca8	14166024	TAAAAAAAA/TAAAAAAAAA	GGAATAAGGACTAAA TCGGGAA	GTGGCCCTATTCATGC CTAA	59.7	566	INTERGENIC	--	--	--
Ca8_P1_14169162	Ca8	14169162	TAAAAAAAA/TAAAAAAAA	TTGGGGGTACATGTT CTGA	GGCCTCATCCATAGTA CTTACTTCTC	58.8	689	INTERGENIC	--	--	--
Ca8_P1_14169427	Ca8	14169427	CTATATA/CTATATATA	TTGGGGGTACATGTT CTGA	CAACAATTAGGCCTCA TCCA	58.8	698	INTERGENIC	--	--	--
Ca8_P1_14169862	Ca8	14169862	CAAAAA/CAAAAA	TGGATGAGGCCTAATT GTTG	TTTTCAGCAACCGGTA ATTTT	58.6	248	INTERGENIC	--	--	--
Ca8_P1_14185636	Ca8	14185636	A/AATT	TTGTCCTCTGCTTTGG AACA	TTGCAACAAGACAAG CTGA	59.4	263	INTERGENIC	--	--	--
Ca8_P1_14187397	Ca8	14187397	CATGT/C	AGGTTGCAATGAGAA ATCAAA	GAAAAAGTTGCTTGCT GGCT	58.7	486	INTERGENIC	--	--	--
Ca8_P1_14191216	Ca8	14191216	ATTCCTTCCTT/ATTCCTT	GGAAGCGCATGTAAGT GTGA	TGACATATGCCATGTG GGTT	59.9	442	DRR	Ca_13042	S	--
Ca8_P1_14210453	Ca8	14210453	ATTTTT/ATTTT	TCGAAGACGTGGTATG GTGA	CCATTCGTAGCACAA ACGA	60.1	155	INTERGENIC	--	--	--
Ca8_P1_14210774	Ca8	14210774	TTTA/T	TCGAAGACGTGGTATG GTGA	GGGACATAGAGATTTG GCGT	60.1	434	INTERGENIC	--	--	--
Ca8_P1_14218237	Ca8	14218237	A/AT	TCTCCACAAATGCAAG GAAA	AAGCCTGGCCCACTA ATTT	59.2	465	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_14222404	Ca8	14222404	AAAAATAAA/AAAA	TGATTCTTCGTGCTCTTCG	GCGGGAGGATCATTGTATTG	59.1	617	INTERGENIC	--	--	--
Ca8_P1_14223143	Ca8	14223143	CAAAAAAAAA/CAAAAAAAAAAAAA	CAATACAATGATCCTCCGCG	GATGGGTTTGCAGTCCATCT	60.3	824	INTERGENIC	--	--	--
Ca8_P1_14231465	Ca8	14231465	T/TATA	TGCGTTTATTTCTTGGTGGTT	AATGGTACTCCCTCCATCCC	59.5	701	INTERGENIC	--	--	--
Ca8_P1_14238334	Ca8	14238334	AT/A	AGGGTTGGAATCCATATGTCAT	TGGCTCGTGAAGAAAAACAA	59.1	713	INTERGENIC	--	--	--
Ca8_P1_14243595	Ca8	14243595	T/TA	AAACGCATTTTATTTGGCG	GAACACAACCCAAGAGAGCA	60.0	820	DRR	Ca_13040	K	G2-like
Ca8_P1_14245101	Ca8	14245101	TAAAAAAAA/TAAAAAAAA	AAAGGGATGGACACCATTTGA	AGCAGAGTGAAACAGGGGA	60.2	786	INTERGENIC	--	--	--
Ca8_P1_14250642	Ca8	14250642	GAAAAAAAA/GAAAAAAAA	TGTCGTTTTGGTGCAACATT	TCTTCAACACTTGCTCGCAG	60.0	642	INTERGENIC	--	--	--
Ca8_P1_14251922	Ca8	14251922	AT/A	ACCCCAAAGGAAAGAAAGGA	GTCGGCGGTGCATATAGATT	59.9	661	INTERGENIC	--	--	--
Ca8_P1_14257669	Ca8	14257669	CTTTTTTT/CTTTTTTT	CCTCGCTTAAAGCAACACCA	GAGTGGCGAAACCCTAATGA	60.4	437	DRR	Ca_13037	O	MYB_related
Ca8_P1_14257769	Ca8	14257769	AG/A	CCTCGCTTAAAGCAACACCA	GAGTGGCGAAACCCTAATGA	60.4	437	DRR	Ca_13037	O	MYB_related
Ca8_P1_14258134	Ca8	14258134	TATTAATTAA/TATTAATTAATTAA	TCATTAGGGTTTCGCCACTC	CGAGCCTTGATGCAACAGTA	60.1	685	DRR	Ca_13038	--	--
Ca8_P1_14261406	Ca8	14261406	ATTTTTTT/ATTTTTTTT	TGGAGATTGTGATTGCGAG	GATTCAACATCCCATTTGATT	59.6	592	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_14264326	Ca8	14264326	GATATATATA/GATATATA	GTTGGTTGGATTGATT TGGG	TGAACCCACGCACAT TAAA	60.0	406	INTERGENIC	--	--	--
Ca8_P1_14265598	Ca8	14265598	TTATA/TTA	TTACCATACGCCGGAA AAAG	CATCCCATAGGTACGC TCAA	60.0	590	INTERGENIC	--	--	--
Ca8_P1_14266037	Ca8	14266037	ATTTTT/ATTTT	TGAGTTTGTGTGTTGC ACGA	CATCCCATAGGTACGC TCAA	59.9	534	INTERGENIC	--	--	--
Ca8_P1_14266103	Ca8	14266103	ATTTTTTT/ATTTTTT	TTGAGCGTACCTATGG GATG	AAATTCCTGAAGAGGT ACGGAA	58.6	540	INTERGENIC	--	--	--
Ca8_P1_14267432	Ca8	14267432	CAAAA/CAAAAAA	CCACACGAGATGGGAA AATC	TGCATGTGTGTTGCTG AGAA	60.3	353	INTERGENIC	--	--	--
Ca8_P1_14286874	Ca8	14286874	GAGTGATAGTGAT/GAGTGATAGTGA TAGTGAT	CGATGAGGAAGCGATA CCAT	GAGCAACCACATTCAC TTGC	60.1	520	CDS (large-effect mutations)	Ca_13035	--	--
Ca8_P1_14287691	Ca8	14287691	CTTTATCTTTTTATCTTTTAT/CTTTA TCTTTTAT	AGTGGTTTTGTTTGG TGGG	GGTTGGCAAAGACTGT GGTT	59.7	467	DRR	Ca_13035	--	--
Ca8_P1_14288974	Ca8	14288974	AC/ACC	CCAAATGCCACTAAGC CAAT	ACACGCCCTCCAATT TACA	60.0	392	INTERGENIC	--	--	--
Ca8_P1_14289021	Ca8	14289021	TA/T	CCAAATGCCACTAAGC CAAT	ACACGCCCTCCAATT TACA	60.0	392	INTERGENIC	--	--	--
Ca8_P1_14289620	Ca8	14289620	TAAAAAAA/TAAAAAAA	TGTAAAGTTGGAGGGC GTGT	GAAATGACACAATGG TATGCCT	60.6	598	INTERGENIC	--	--	--
Ca8_P1_14290716	Ca8	14290716	G/GTA	TTCGACCTAAGTTCTA GCCCA	ATTGGTTTGGGCAATG AGTC	59.0	942	INTERGENIC	--	--	--
Ca8_P1_14290840	Ca8	14290840	G/GAAAAACAAATCAAT	TCAATCTCATGTCCAC ATCGT	GTCCGCACAACTTGT AATG	58.9	628	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_14292048	Ca8	14292048	GTTT/GTT	TTCAAAACGGTGTCTT ATGCC	CCTTCCCACTTTACAA CGTCA	60.0	388	INTERGENIC	--	--	--
Ca8_P1_14292407	Ca8	14292407	ATTTTT/ATTTTTTT	TGACGTTGTAAAGTGG GAAGG	CATTGCAGAAACAAA GCCT	60.0	616	INTERGENIC	--	--	--
Ca8_P1_14302256	Ca8	14302256	GAAAAA/GAAAA	CCCAAGCAATCTCATA ACCC	TCAATACGATCATTGT TGACCA	59.4	524	INTERGENIC	--	--	--
Ca8_P1_14302503	Ca8	14302503	AG/A	CCTAACACCTCACAA CCCC	CGTCTTTGACCAATT GAAAA	59.3	842	INTERGENIC	--	--	--
Ca8_P1_14304208	Ca8	14304208	T/TA	AAGGCAAGGAAAATGT GGTG	GTCTAAGGCGCCAGTT TCAG	60.0	430	INTERGENIC	--	--	--
Ca8_P1_14306794	Ca8	14306794	ATT/AT	TATTGAACTTGGGGAG GCTG	CCCTTTAAATGTGGCA AAAA	60.1	839	INTERGENIC	--	--	--
Ca8_P1_14306850	Ca8	14306850	TAAAAAAAAAAAAAAAAA/TAAAAAAAAA	TATTGAACTTGGGGAG GCTG	CCCTTTAAATGTGGCA AAAA	60.1	839	INTERGENIC	--	--	--
Ca8_P1_14306985	Ca8	14306985	GTTT/GTT	TCAGCATGCACCATTC TAGG	ACTTTGTTGCTGCCCA TGTT	59.8	776	INTERGENIC	--	--	--
Ca8_P1_14307287	Ca8	14307287	CTACAC/CTACACCACCACAATACAC	GGCCTATGATACATT TGACTTTTG	ACTTTGTTGCTGCCCA TGTT	60.1	230	INTERGENIC	--	--	--
Ca8_P1_14307446	Ca8	14307446	ATTT/ATT	CATGGGCAGCAACAAA GTAA	TCTTCATTGCACTACG GTTCA	59.7	450	INTERGENIC	--	--	--
Ca8_P1_14307818	Ca8	14307818	CTTTT/CTTTTT	CATGGGCAGCAACAAA GTAA	GAGGACCAATGAAGG CAAAA	59.7	819	INTERGENIC	--	--	--
Ca8_P1_14307909	Ca8	14307909	TAATCACAATCACAATCACAATC/TAA TCACAATCACAATC	GCAATGAAGAGTGACC TGACC	TCTCCATTCAAACATT GCCA	59.7	511	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_14308135	Ca8	14308135	CATA/CATATATA	GCAATGAAGAGTGACC TGACC	TCTCCATTCAAACATT GCCA	59.7	511	INTERGENIC	--	--	--
Ca8_P1_14310126	Ca8	14310126	CTT/CT	TGGTACCTTTTCCTCC TCCA	GGCACCCTCAACTTAA CTCCA	59.5	248	INTERGENIC	--	--	--
Ca8_P1_14312072	Ca8	14312072	TAAAAA/TAAAAA	CATGATATATCTTTGC GGGTGA	TTTATTTTATCGGTG CCAAAA	59.8	407	INTERGENIC	--	--	--
Ca8_P1_14312153	Ca8	14312153	AAACA/AA	CATGATATATCTTTGC GGGTGA	TTTCTTATGCACCAAG AGCAAA	59.8	721	INTERGENIC	--	--	--
Ca8_P1_14312385	Ca8	14312385	AG/AGGG	CATGATATATCTTTGC GGGTGA	TTTCTTATGCACCAAG AGCAAA	59.8	721	INTERGENIC	--	--	--
Ca8_P1_14312929	Ca8	14312929	TGATCGATC/TGATC	TTTGCTCTTGGTGATC AAGAAA	CATCACTTTTGGGTTG GTCA	59.9	708	INTERGENIC	--	--	--
Ca8_P1_14313181	Ca8	14313181	TAAAA/TAAA	TGCTGCACGAGTATT TACCA	TTGGGTTGGTCAAATG TGATT	59.4	259	INTERGENIC	--	--	--
Ca8_P1_14313290	Ca8	14313290	CATAT/CATATAT	TGCTGCACGAGTATT TACCA	TTGGGTTGGTCAAATG TGATT	59.4	259	INTERGENIC	--	--	--
Ca8_P1_14313473	Ca8	14313473	A/AG	TCACATTTGACCAACC CAAA	TCAAGTTTGAAATCTG TCTTGCAT	59.8	226	INTERGENIC	--	--	--
Ca8_P1_14318543	Ca8	14318543	ATGATATTGATATTG/ATGATATTG	AACCTGCTTGGCGTGCT TAAT	TCAAAAGGAGAAGAA ATTACCA	59.9	461	INTERGENIC	--	--	--
Ca8_P1_14320098	Ca8	14320098	ATA/ATATATTA	CACATTGCACCGAAAA TGAC	GCTGCATGTTACTGCC ATTG	60.0	766	INTERGENIC	--	--	--
Ca8_P1_14329134	Ca8	14329134	ATTTTTTT/ATTTTTTTTT	AACCTGCGGATTGTG ATGC	TGGAAATAGCTCGGTA ACTTGA	61.0	527	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_14329231	Ca8	14329231	ATTTTTTT/ATTTTTT	AACCTGCGATTGTG ATGC	TGAAAGCGAAAAAGA AACC	61.0	933	INTERGENIC	--	--	--
Ca8_P1_14329340	Ca8	14329340	ATTTTTTT/ATTTTTT	TCAAGTTACCGAGCTA TTTCCA	AAGCGCAAAAAGAAAC CGTA	58.9	425	INTERGENIC	--	--	--
Ca8_P1_14330982	Ca8	14330982	C/CCTTACT	GCAGTTTTGGTCCCC TATT	TTTCCAGTTTTGGT CCCT	60.2	268	DRR	Ca_13031	--	--
Ca8_P1_14331114	Ca8	14331114	CAAAAA/CAAAAAAA	GCAGTTTTGGTCCCC TATT	ACTACTGACGTCGGGA TTCG	60.2	696	DRR	Ca_13031	--	--
Ca8_P1_14333536	Ca8	14333536	TC/T	GCTTCATTTCCAGGG ATGA	TATGTTGGTGGTGCTG GTTT	60.0	306	INTRON	Ca_13031	--	--
Ca8_P1_14338122	Ca8	14338122	CAGA/CAGAAGA	TGTAAAGGTGACACGT TGATGA	CCATTAAGGGCCCCAT CTAT	59.1	375	INTERGENIC	--	--	--
Ca8_P1_14338141	Ca8	14338141	TAAA/TAAA	TGTAAAGGTGACACGT TGATGA	CCATTAAGGGCCCCAT CTAT	59.1	375	INTERGENIC	--	--	--
Ca8_P1_14338835	Ca8	14338835	TAAAAAA/TAAAAA	AAAGAGGAAGAAGAGA GAGAACCA	TTTTTAAGACCGGTCG ACAT	59.2	635	DRR	Ca_13030	T	bHLH
Ca8_P1_14341930	Ca8	14341930	GTG/GTGGTAAGATG	CGCCCATCTTTAAGTG TTCC	TCCGTGCTTCGTAGGT TTCT	59.6	945	INTRON	Ca_13030	T	bHLH
Ca8_P1_14343139	Ca8	14343139	T/TTTACCTATTACA	TCACCGATGTTGCATT CATT	TCTCCCTTCATTCCCT CCA	59.9	765	INTRON	Ca_13030	T	bHLH
Ca8_P1_14343773	Ca8	14343773	A/AT	TGGAAGGAAATGAAGG GAGA	TGAGGGAGTCACATG GCTAA	59.6	560	INTRON	Ca_13030	T	bHLH
Ca8_P1_14345244	Ca8	14345244	GAAAAATGAAAAATGAAA/GAAAATGAA AAATGAAAAATGAAAAATGAAA	TTTCCAACCTCCAGCT CAAC	GCAAGGTCGTGGAGA AACAT	60.2	726	INTRON	Ca_13030	T	bHLH

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_14355037	Ca8	14355037	CTTT/CT	TTTGAGGGTTAGGTG TTCG	TGGGAAAATAGTCTCC TTCATGT	60.0	369	INTERGENIC	--	--	--
Ca8_P1_14356106	Ca8	14356106	CT/C	CGCTTAGTTTTCTCTT ACATCCA	TTCTCACATGGGTGAA GTTGA	59.0	567	INTERGENIC	--	--	--
Ca8_P1_14357009	Ca8	14357009	TCAGTC/T	AATGGTCGCACTCTAC CACC	CAAATAATTGAAAGCG ACCGA	60.0	430	INTERGENIC	--	--	--
Ca8_P1_14360256	Ca8	14360256	TATTAATT/TATT	TCTCTCGTGTCTAGCT CCCTCT	CATTGTATTGACCGAT GCACA	59.8	356	INTERGENIC	--	--	--
Ca8_P1_14362355	Ca8	14362355	ATATTATTATTATT/ATATTATTATT	ATCTTTTCGTCGCAATT CACC	TGACAGAGATTAGGAT TGAAAGGA	60.1	506	INTERGENIC	--	--	--
Ca8_P1_14363003	Ca8	14363003	AT/A	AGCGCCCCTAATATTT CGTT	ATTGCATGCTTGTGT TTCG	60.0	423	INTERGENIC	--	--	--
Ca8_P1_14363248	Ca8	14363248	TTTTTATTTTATTTTATT/TTTTTATTT ATTTTATTTTATT	AGCGCCCCTAATATTT CGTT	GTGGGAAAGGAATCC AAGGT	60.0	732	INTERGENIC	--	--	--
Ca8_P1_14363844	Ca8	14363844	CTATATA/CTATA	GTTGCCACTTGACCTT GGAT	TGGACTTCATCCAAAA AGGG	60.0	351	INTERGENIC	--	--	--
Ca8_P1_14364766	Ca8	14364766	GTTT/GCTTATTT	TGGAAGTGTGGTGGT TTGA	TCATGACCCAATATG GCCT	60.0	568	INTERGENIC	--	--	--
Ca8_P1_14369827	Ca8	14369827	T/TGGTA	ATGGCACCTTCACCAT TAGG	AAACGTTACAAACAG GGCA	59.8	731	INTERGENIC	--	--	--
Ca8_P1_14370324	Ca8	14370324	CAAAAAAAAA/CAAAAAAAAAA	GCCCTGTTTGTAACGT TTTG	GCATCAAAATTGATT GGCCT	58.2	312	INTERGENIC	--	--	--
Ca8_P1_14370547	Ca8	14370547	TAA/TAAAAA	GGCCAATCAATTTTG ATGC	TGGGAGATTGGAGCAT GATT	60.3	590	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_14370711	Ca8	14370711	A/AAAT	GGCCAATCAATTTTG ATGC	TGGGAGATTGGAGCAT GATT	60.3	590	INTERGENIC	--	--	--
Ca8_P1_14373850	Ca8	14373850	AGAAAATGAAAATGAAAA/AGAAAATG AAAATGAAAATGAAAATGAAAA	GGAAATTGGCGTGTG ACTT	GTTTCGTTGTTGTGGC AATG	60.0	373	INTERGENIC	--	--	--
Ca8_P1_14397210	Ca8	14397210	AAATAATAATAATAATAATAATAAT AATAATAATAATAA/AAATAATAATAAT AATAATAATAATAATAATAATAATA ATAATAA	TGAAGGAAATCAACCC CTTTT	CAGCTTGACGCAAAA AGCA	59.8	368	INTERGENIC	--	--	--
Ca8_P1_14404073	Ca8	14404073	GTTTTTTTTT/GTTTTTTTTT	AGATGTGTGATTGGGC CTTC	CCACTCCCCTTGTAGC ATCA	59.9	597	INTERGENIC	--	--	--
Ca8_P1_14408424	Ca8	14408424	AT/A	GTTTTGCCACCCCTAC ACAC	GTCCCGTGAAGACTTT CAGC	60.3	684	INTERGENIC	--	--	--
Ca8_P1_1442767	Ca8	1442767	GTATATATATATATAT/GTATATATA TATATAT	ACGACCTGGAATACGA CCTG	CATTCCCAAAGTAAGG CGAA	60.0	562	INTERGENIC	--	--	--
Ca8_P1_14458401	Ca8	14458401	CTATTTATTTATTTATTTATTTAT TTATTTATTTATTTATTT/CTATTTATTTA TTTATTTATTTATTTATTTATTTA TTTATTTATT	GAGGCAGCAAAATGGA AATC	TTTTTCCATGAAACAT GCCA	59.7	267	INTERGENIC	--	--	--
Ca8_P1_14501359	Ca8	14501359	CTTTTTTT/CTTTTTTTTT	TCACTTTCAATGGTTCT GCG	ATCAAGCAGCTGGCAA CTTT	59.8	558	INTERGENIC	--	--	--
Ca8_P1_14516248	Ca8	14516248	GNNNNNNNNN/GNNNNNNN	GGCAAAACATTTCATCC GTTT	ATCTTTGGCTTCTCCT GCAA	59.8	679	INTERGENIC	--	--	--
Ca8_P1_1452383	Ca8	1452383	CAAAAAAAAA/CAAAAAAAAA	TTGCAAGGGAAGGAAA CAAC	CGGGCTACCTAGAATC CCTC	60.1	561	INTERGENIC	--	--	--
Ca8_P1_14564939	Ca8	14564939	AAT/AATGTCTGGAT	TTGATTCGTTCGACCA TTGA	ACTAAGCAAATGTGC GCCT	60.0	599	INTERGENIC	--	--	--
Ca8_P1_14568257	Ca8	14568257	TAAAAAAAAA/TAAAAAAAAA	AACGCGCGGGTTATAT TCTA	GGCAAAGGGTTTTTGC AATC	59.6	599	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_14568462	Ca8	14568462	TATATAT/TATATATATAGATATAGATA TAT	TTGCACCATGTTTGTGA TTCAA	GGCAAAGGGTTTTTGC AATC	59.0	198	INTERGENIC	--	--	--
Ca8_P1_14569590	Ca8	14569590	GTTATTATTATTATTATTATT/GTTATT ATTATTATTATT	TCCAAATAAGCCAAC AAAAA	GGGGCACAATTGAAG ATAATG	57.4	800	INTERGENIC	--	--	--
Ca8_P1_14580122	Ca8	14580122	GAAAAAAAAA/GAAAAAAAAA	TCCAAATCCAAGACCT CCAC	TTTGAATGATGCAGCT GAGG	59.9	499	INTRON	Ca_13009	Z	MYB_related
Ca8_P1_14585853	Ca8	14585853	ATTGAAT/ATTGAATCTCTTGAAT	TGAATTGATTGTCGCT TTCG	ATGATGGTTTTAGGCG ATGC	59.8	405	INTERGENIC	--	--	--
Ca8_P1_14585874	Ca8	14585874	ATTT/ATT	TGAATTGATTGTCGCT TTCG	ATGATGGTTTTAGGCG ATGC	59.8	405	INTERGENIC	--	--	--
Ca8_P1_14587108	Ca8	14587108	CAAAAAAAAA/CAAAAAAAAA	GTGGGTGCTTGTCTG TGTC	GGGTTCTAATGTGCTC AAACAA	60.0	733	INTERGENIC	--	--	--
Ca8_P1_14601586	Ca8	14601586	TG/TGG	CAACACGTGGTATTGG TTGG	CAGCTTATTTCCACAA GCCC	59.7	751	INTRON	Ca_13007	C	--
Ca8_P1_14602070	Ca8	14602070	CTTTTTTTTT/CTTTTTTTTT	AAAGCAGCTTACGGAC GTGT	ATGAAAAATGGAATGC CCAA	59.9	340	INTRON	Ca_13007	C	--
Ca8_P1_14603641	Ca8	14603641	GCA/GCACTATACCA	AATGCCGTTAAGTTGA TGGG	CGTATTGCGGAACAAC AATG	59.8	268	DRR	Ca_13007	C	--
Ca8_P1_14603917	Ca8	14603917	TA/T	CATTGTTGTTCCGCAA TACG	TAAAACTTCCCTGCAC GAGG	60.0	310	DRR	Ca_13007	C	--
Ca8_P1_14609047	Ca8	14609047	TAAAAAA/TAAAAA	CACGCGATTACGCT TTAG	CATTATTGGAGATTG GAAGTGG	59.5	769	INTERGENIC	--	--	--
Ca8_P1_14609307	Ca8	14609307	AT/ATATGAAGGGTAATTT	GAAGGGAAAAATAGAG AGCAAA	CTCATGTGCAATTGGA GAGACT	58.9	700	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_14611038	Ca8	14611038	T/TCCG	GGCGGTCCTCCTTAA AATC	ATTGAGCCACATTAA CCGC	59.9	477	INTRON	Ca_13006	K	C3H
Ca8_P1_14611602	Ca8	14611602	TAG/T	GCGGTTAAATGTGGCT GAAT	TATGCAGCAAAAAGCA CAGG	60.0	613	INTRON	Ca_13006	K	C3H
Ca8_P1_14613573	Ca8	14613573	ATTTTTTT/ATTTTTT	CGTGGTGACATCAAA TTGG	CCAATCCCTCAGACCA GAAA	60.0	144	INTRON	Ca_13006	K	C3H
Ca8_P1_14616352	Ca8	14616352	GAAAAAAA/GAAAAAAA	CCGGTTTACTGGGAA ATCA	CAAAGCATGTAGATGG CAACA	59.8	359	DRR	Ca_13006	K	C3H
Ca8_P1_14617610	Ca8	14617610	CATTAT/CATTATATTTAT	GCTCCAACCGTAAAC CAAA	TGCAGGGAGAAGAGG GAGTA	60.0	670	INTERGENIC	--	--	--
Ca8_P1_14623218	Ca8	14623218	CTTTTTTTTTTT/CTTTTTTTTTT	CAGCAGCAACTTTTGG ATGA	TGCTGCTGCTATTCCT TTGA	60.0	531	INTRON	Ca_13005	U	--
Ca8_P1_14623977	Ca8	14623977	TAAAAA/TAAAAAAA	GCAATTGTGATTGT CCAC	GTGAATGTAAATGGTG GGGG	60.0	695	DRR	Ca_13005	U	--
Ca8_P1_14625324	Ca8	14625324	TC/T	GCGTCAACACTTCCAA CACA	TAAGGACTGGACGTAA CCCG	60.8	682	DRR	Ca_13005	U	--
Ca8_P1_14631000	Ca8	14631000	TC/TCC	GCGAACCAACCAGTCA ATCT	TCGTTTGGAGGAATTT TAAACC	60.1	594	INTERGENIC	--	--	--
Ca8_P1_14632106	Ca8	14632106	GTTTTTTTTTT/GTTTTTTTTTTT	CCAATCCACTCCCTT TTCA	TGTATTGGCCAGGAAC ACAA	59.9	518	INTRON	Ca_13004	--	--
Ca8_P1_14645076	Ca8	14645076	TAAAAAAA/TAAAAAAA	CCCCACCATGTTCTT AGTG	CGGATATGACATTGAT TCTCAATTA	60.2	654	INTERGENIC	--	--	--
Ca8_P1_14645402	Ca8	14645402	A/AAATAATTATAAT	TTTGAGAATCAATGTC ATATCCG	GGACCCTAAGCATTCT GTGC	59.0	568	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected 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_P1_14647157	Ca8	14647157	GTTT/GTTTT	TTGCTTGCCATGACG TAGG	TCTGCAACGAAGATTA AACCAA	59.7	297	INTERGENIC	--	--	--
Ca8_P1_14655036	Ca8	14655036	CAA/CAAGAATAAA	GGTAGTACCGCACATG CAAA	GGAGTAGTGGACAGA GGCCA	59.6	694	INTERGENIC	--	--	--
Ca8_P1_14655534	Ca8	14655534	GCTCCT/GCTCCTCCT	GGCCTCTGTCCACTAC TCCA	GCCCTTAAACCTTCAA TGACC	60.3	300	INTERGENIC	--	--	--
Ca8_P1_14655980	Ca8	14655980	AT/A	TGAAGGTTTAAGGGCA TGTC A	CCAAATTTCCCATCTT GTGG	60.5	714	INTERGENIC	--	--	--
Ca8_P1_14656534	Ca8	14656534	CAAAA/CAAAAAA	CCACAAGATGGGAAT TTGG	TCTCCAGCATCCACTA GCCT	60.2	174	INTERGENIC	--	--	--
Ca8_P1_14656801	Ca8	14656801	TATTTACAT/TAT	AGGCTAGTGGATGCTG GAGA	TTTTGTGTGAATTGGC TTGG	60.0	405	INTERGENIC	--	--	--
Ca8_P1_14657093	Ca8	14657093	GAAA/GAA	CCAAGCCAATTCACAC AAAA	GGTAGAGGTACAACC CCCGT	59.6	626	INTERGENIC	--	--	--
Ca8_P1_14659373	Ca8	14659373	AT/ATT	AATTTGGAAGCACATC GACC	CACACATTTCTTGGCC CTCT	59.9	401	INTERGENIC	--	--	--
Ca8_P1_14659986	Ca8	14659986	TAAAAAAAAA/TAAAAAAAAA	AGAGGGCCAAGAAATG TGTG	GCATGCATAACAATTT TGTGTGA	60.1	551	INTERGENIC	--	--	--
Ca8_P1_14661070	Ca8	14661070	AA/AATATAAGGA	AAAGACCGAACATATC GGTACA	TTTCCAAGGACAAATT TACGC	58.5	664	INTERGENIC	--	--	--
Ca8_P1_14662169	Ca8	14662169	GAA/G	CTTCCTTTGGCCACCT AACA	CATCATAACATTTAGC CCCTCA	60.1	150	INTERGENIC	--	--	--
Ca8_P1_14662220	Ca8	14662220	GTTTTTTTTTTT/GTTTTTTTTT	CTTCCTTTGGCCACCT AACA	TTTAAATGCACTTTTGA TTCTCC	60.1	617	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_14662777	Ca8	14662777	AAA/AAATAA	GAATCAAAAGTGCAAT TAAATCTTCA	CATAACCACTCATCC CCAC	59.9	405	INTERGENIC	--	--	--
Ca8_P1_14668355	Ca8	14668355	CTGACTCAGATG/CTGACTCAGATGA CTCAGATG	CGTGGGTCACAAAGAT GATG	TGATGTGACGAAGCCC TAAA	60.0	177	INTERGENIC	--	--	--
Ca8_P1_14670310	Ca8	14670310	GTTTT/GTTT	CCCAAAAATCCAACCA AAAA	AGTCCCCATTGGAGAT GCTA	59.6	664	INTERGENIC	--	--	--
Ca8_P1_14670812	Ca8	14670812	GTTTTTTTTTT/GTTTTTTTTT	AGCATCTCCAATGGGG ACTT	AAAGGATCAAATCGGG AAGG	60.9	561	INTERGENIC	--	--	--
Ca8_P1_14671080	Ca8	14671080	T/TA	TACAACATGTAGGCTC CGCC	AAAGGATCAAATCGGG AAGG	61.1	477	INTERGENIC	--	--	--
Ca8_P1_14671445	Ca8	14671445	TAAAAA/TAAAAA	CCTTCCCGATTGTATC CTTT	TCGACAATTACATTT CATCATCC	60.3	831	INTERGENIC	--	--	--
Ca8_P1_14674211	Ca8	14674211	TAAAA/TAAAA	CTCATCCCTCTTTCAT GGGA	GATTGGAGTTGGGGA TTGTG	60.0	595	INTERGENIC	--	--	--
Ca8_P1_14674633	Ca8	14674633	GTTTT/GTT	CACAATCCCCAACTCC AATC	ACGTTCCATTGAACC AAGC	60.2	299	INTERGENIC	--	--	--
Ca8_P1_14674938	Ca8	14674938	T/TC	TTGGAAGAGGAAAGAA GGCA	AAAATGGGATGAAAGG GAGAA	59.9	685	INTERGENIC	--	--	--
Ca8_P1_14675237	Ca8	14675237	ATTTTTT/ATTTTTTT	TGTTGCTTGGTTCAAA TGGA	GTCGTGGCATTGGAAA AGTT	60.1	940	INTERGENIC	--	--	--
Ca8_P1_14678752	Ca8	14678752	CATATGGATATG/CATATGGATATGGA TATG	TTCACCGACTATTGTAT TGATGC	CAAAGCGTATCCCCTT TTCA	59.0	270	INTERGENIC	--	--	--
Ca8_P1_14682373	Ca8	14682373	A/AT	GTTTTGTAACGGTGGA TGGG	TGGAAGAAACGTAAGG TGGAA	60.1	556	DRR	Ca_13002	A	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_14688273	Ca8	14688273	AAACA/AA	GATTTAATTTGTTGG GGATTTTT	TGCGTGATCGATGCAT ATAGA	58.7	446	INTERGENIC	--	--	--
Ca8_P1_14698325	Ca8	14698325	CTTT/CTT	GGCAGTTTCATCCCTC AAGA	TTTGGAAGAGAGGAG GCTCA	60.2	792	DRR	Ca_12999	--	--
Ca8_P1_14698653	Ca8	14698653	TCG/T	AGAAGTTCCTCTCAC AACCA	TTATGGGACCAACCCA GGTA	58.8	704	DRR	Ca_13000	--	--
Ca8_P1_14699027	Ca8	14699027	C/CCAT	TACCTGGGTTGGTCCC ATAA	TCAAAGTGGTGTGGG ATGA	60.0	314	CDS (large-effect mutations)	Ca_12999	--	--
Ca8_P1_14701475	Ca8	14701475	A/ATT	CAAAGATCAAGGGGAG ATGG	ATCATTGGCTCATTC AGCC	59.5	618	INTERGENIC	--	--	--
Ca8_P1_14707819	Ca8	14707819	AGT/A	TCATGGCTATGCATGG ATGT	ACCGCATCTGCAATAG GTTC	59.9	407	INTRON	Ca_12998	R	SBP
Ca8_P1_14709477	Ca8	14709477	GTAATTAATTAATTAATTAATTA /GTAATTAATTAATTAATTA	TGCAACTTGATGCGAT CATT	GGGGAGCTAGCAAGT AGCAA	60.2	300	DRR	Ca_12998	R	SBP
Ca8_P1_14712571	Ca8	14712571	ATTTTT/ATTTTT	GAAGGAACTCTCAAG GGGG	GCAAGAAGCCGAACA GAATC	60.0	349	INTRON	Ca_12997	T	--
Ca8_P1_14722366	Ca8	14722366	GCAACAAC/GCAAAC	TCCTCGCAATGAAATG TCTG	ATTCGGAACAAATGG TGGA	59.8	668	INTRON	Ca_12995	O	NAC
Ca8_P1_14722667	Ca8	14722667	TA/TAGA	TTCATTGCACCCACAC TTTC	TCGGAACAAATGGTG GATT	59.5	578	INTRON	Ca_12995	O	NAC
Ca8_P1_14725378	Ca8	14725378	TA/TAA	TGTTACGAAGTTCGA CCAA	GTCCTGATGTCCTGA CTGC	60.3	351	INTRON	Ca_12995	O	NAC
Ca8_P1_14726688	Ca8	14726688	CAAA/CAAAA	TGGGTAGGATTGGATT GGAG	TCCCACTCACACTTCA CAATG	59.7	360	INTRON	Ca_12995	O	NAC

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P1_14727530	Ca8	14727530	GAAAAAAAA/GAAAAAAAAA	CCAATCATAACCACT TAACCAA	TGAGTCGTGCAATTT GATTTTC	60.0	470	INTRON	Ca_12995	O	NAC
Ca8_P1_14727846	Ca8	14727846	ACTCTC/ACTCTCTC	CCAATCATAACCACT TAACCAA	CACCTGTATGATGGT CACCC	60.0	758	INTRON	Ca_12995	O	NAC
Ca8_P1_14733700	Ca8	14733700	ATTTTTTTTT/ATTTTTTTTT	TCTGAACGAAGTTGGA GCAA	GGTATGTTTGTGTTGA AGGGG	59.6	787	INTRON	Ca_12995	O	NAC
Ca8_P1_14734084	Ca8	14734084	CAAAAAAAAA/CAAAAAAAAA	AACAAACAGTTGGCG ATTGA	CCTTCAAACCTTGTC CAAA	59.6	716	INTRON	Ca_12995	O	NAC
Ca8_P1_14735280	Ca8	14735280	A/AG	CGTGTGGCTAGAGTTG ACCTT	GGTGGAAAAGGATTG GGTTT	59.4	739	INTRON	Ca_12995	O	NAC
Ca8_P1_14740921	Ca8	14740921	CAAAAA/CAAAAAA	TGAGGAAGGCTCCCTA GGAT	AGAGCCATCATCCTTT TCCA	60.2	779	INTRON	Ca_12995	O	NAC
Ca8_P1_14741238	Ca8	14741238	TAAAAAAAA/TAAAAAAAAA	CGATGAAATCAACAA AACTCG	AGAGCCATCATCCTTT TCCA	59.6	186	INTRON	Ca_12995	O	NAC
Ca8_P1_14742015	Ca8	14742015	AATATATATATA/AATATATATAT ATATATATA	TTGGTGGTTGATCATA CGAGAG	GCCAAGAAATAGCCAC TTGC	60.0	645	INTRON	Ca_12995	O	NAC
Ca8_P1_14742163	Ca8	14742163	T/TGA	TGGTGGTTGATCATA GAGAG	GCCAAGAAATAGCCAC TTGC	58.6	644	INTRON	Ca_12995	O	NAC
Ca8_P1_14743190	Ca8	14743190	CATATAT/CATATATAT	TTCGGACATGATCCAT TCAA	AATATGGTCGGCGGTA TTTTT	59.9	587	INTRON	Ca_12995	O	NAC
Ca8_P1_14743373	Ca8	14743373	AGAG/A	TCTTCTCCACCATTTG GTCA	GTCAATATGGTCGGCG GTA	59.1	369	INTRON	Ca_12995	O	NAC
Ca8_P1_14746760	Ca8	14746760	ATTCA/ATTCATTATTTCA	TGGATCTCATCTCAT CCCT	TTGAAGTGCTTTGGT GCTG	59.4	573	INTRON	Ca_12994	--	--