

Table S2: Structural and functional annotation of 8673 GBS-based SNPs in <i>kabuli</i> chickpea genome						
SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP1	Ca-Kabuli-Chr1	462	[G/C]	-	Intergenic	-
CWSNP2	Ca-Kabuli-Chr1	523	[G/C]	-	Intergenic	-
CWSNP3	Ca-Kabuli-Chr1	548	[G/C]	-	Intergenic	-
CWSNP4	Ca-Kabuli-Chr1	578	[G/A]	-	Intergenic	-
CWSNP5	Ca-Kabuli-Chr1	579	[T/C]	-	Intergenic	-
CWSNP6	Ca-Kabuli-Chr1	589	[A/C]	-	Intergenic	-
CWSNP7	Ca-Kabuli-Chr1	627	[C/A]	-	Intergenic	-
CWSNP8	Ca-Kabuli-Chr1	839	[A/T]	-	Intergenic	-
CWSNP9	Ca-Kabuli-Chr1	903	[G/T]	-	Intergenic	-
CWSNP10	Ca-Kabuli-Chr1	927	[C/A]	-	Intergenic	-
CWSNP11	Ca-Kabuli-Chr1	98992	[G/T]	Ca00007	Intron	RNA recognition motif domain
CWSNP12	Ca-Kabuli-Chr1	108984	[G/A]	Ca00008	Intron	-
CWSNP13	Ca-Kabuli-Chr1	108979	[T/G]	Ca00008	Intron	-
CWSNP14	Ca-Kabuli-Chr1	129401	[A/G]	Ca00009	Intron	Oligopeptide transporter
CWSNP15	Ca-Kabuli-Chr1	215066	[G/T]	Ca00017	Intron	Protein kinase, catalytic domain
CWSNP16	Ca-Kabuli-Chr1	215058	[T/C]	Ca00017	Intron	Protein kinase, catalytic domain

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP17	Ca-Kabuli-Chr1	215053	[G/T]	Ca00017	Intron	Protein kinase, catalytic domain
CWSNP18	Ca-Kabuli-Chr1	215048	[C/T]	Ca00017	Intron	Protein kinase, catalytic domain
CWSNP19	Ca-Kabuli-Chr1	215029	[C/A]	Ca00017	Intron	Protein kinase, catalytic domain
CWSNP20	Ca-Kabuli-Chr1	215027	[T/C]	Ca00017	Intron	Protein kinase, catalytic domain
CWSNP21	Ca-Kabuli-Chr1	215006	[C/T]	Ca00017	Intron	Protein kinase, catalytic domain
CWSNP22	Ca-Kabuli-Chr1	292962	[T/C]	Ca00028	Synonymous-CDS	Proteasome component (PCI) domain
CWSNP23	Ca-Kabuli-Chr1	292972	[G/A]	Ca00028	Non-Synonymous-CDS	Proteasome component (PCI) domain
CWSNP24	Ca-Kabuli-Chr1	292998	[T/C]	Ca00028	Synonymous-CDS	Proteasome component (PCI) domain
CWSNP25	Ca-Kabuli-Chr1	347620	[A/C]	-	Intergenic	-
CWSNP26	Ca-Kabuli-Chr1	372530	[A/G]	Ca00038	Intron	Protein of unknown function DUF803
CWSNP27	Ca-Kabuli-Chr1	406570	[A/G]	Ca00043	Synonymous-CDS	Glycosyl-phosphatidylinositol-anchored
CWSNP28	Ca-Kabuli-Chr1	425149	[T/C]	-	Intergenic	-
CWSNP29	Ca-Kabuli-Chr1	425076	[A/G]	-	Intergenic	-
CWSNP30	Ca-Kabuli-Chr1	435259	[A/G]	-	URR	-
CWSNP31	Ca-Kabuli-Chr1	435274	[G/T]	-	URR	-
CWSNP32	Ca-Kabuli-Chr1	435280	[T/C]	-	URR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP33	Ca-Kabuli-Chr1	435297	[G/A]	-	URR	-
CWSNP34	Ca-Kabuli-Chr1	435304	[G/T]	-	URR	-
CWSNP35	Ca-Kabuli-Chr1	435343	[C/A]	-	URR	-
CWSNP36	Ca-Kabuli-Chr1	435338	[T/C]	-	URR	-
CWSNP37	Ca-Kabuli-Chr1	435264	[G/T]	-	URR	-
CWSNP38	Ca-Kabuli-Chr1	441286	[C/T]	Ca00050	Intron	Thiamine monophosphate synthase
CWSNP39	Ca-Kabuli-Chr1	441288	[T/A]	Ca00050	Intron	Thiamine monophosphate synthase
CWSNP40	Ca-Kabuli-Chr1	441343	[T/A]	Ca00050	Synonymous-CDS	Thiamine monophosphate synthase
CWSNP41	Ca-Kabuli-Chr1	446409	[T/C]	Ca00051	Synonymous-CDS	Helicase,C-terminal
CWSNP42	Ca-Kabuli-Chr1	446443	[A/G]	Ca00051	Non-Synonymous-CDS	Helicase,C-terminal
CWSNP43	Ca-Kabuli-Chr1	446484	[C/T]	Ca00051	Synonymous-CDS	Helicase,C-terminal
CWSNP44	Ca-Kabuli-Chr1	446558	[G/T]	Ca00051	Intron	Helicase,C-terminal
CWSNP45	Ca-Kabuli-Chr1	459968	[T/G]	Ca00053	Intron	CMP/dCMPdeaminase,zinc-binding
CWSNP46	Ca-Kabuli-Chr1	464039	[A/C]	Ca00053	Synonymous-CDS	CMP/dCMPdeaminase,zinc-binding
CWSNP47	Ca-Kabuli-Chr1	464040	[G/C]	Ca00053	Synonymous-CDS	CMP/dCMPdeaminase,zinc-binding
CWSNP48	Ca-Kabuli-Chr1	464043	[C/G]	Ca00053	Synonymous-CDS	CMP/dCMPdeaminase,zinc-binding

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP49	Ca-Kabuli-Chr1	554677	[G/A]	Ca00064	Intron	Glycosyltransferase,family8
CWSNP50	Ca-Kabuli-Chr1	571020	[T/G]	Ca00064	Intron	Glycosyltransferase,family8
CWSNP51	Ca-Kabuli-Chr1	591609	[T/C]	Ca00066	Intron	PeptidaseS16,Lonprotease,C-terminal
CWSNP52	Ca-Kabuli-Chr1	712110	[T/C]	Ca00086	Non-Synonymous-CDS	PeptidaseC50,separase
CWSNP53	Ca-Kabuli-Chr1	741514	[G/T]	-	DRR	-
CWSNP54	Ca-Kabuli-Chr1	741535	[C/T]	-	DRR	-
CWSNP55	Ca-Kabuli-Chr1	742043	[G/A]	-	DRR	-
CWSNP56	Ca-Kabuli-Chr1	742026	[T/G]	-	DRR	-
CWSNP57	Ca-Kabuli-Chr1	750693	[C/T]	-	URR	-
CWSNP58	Ca-Kabuli-Chr1	777273	[C/T]	-	DRR	-
CWSNP59	Ca-Kabuli-Chr1	777240	[G/A]	-	DRR	-
CWSNP60	Ca-Kabuli-Chr1	790000	[C/T]	-	URR	-
CWSNP61	Ca-Kabuli-Chr1	790102	[G/T]	-	URR	-
CWSNP62	Ca-Kabuli-Chr1	864382	[T/C]	-	Intergenic	-
CWSNP63	Ca-Kabuli-Chr1	864381	[G/A]	-	Intergenic	-
CWSNP64	Ca-Kabuli-Chr1	864351	[T/C]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP65	Ca-Kabuli-Chr1	866872	[T/C]	-	URR	-
CWSNP66	Ca-Kabuli-Chr1	876633	[T/A]	-	DRR	-
CWSNP67	Ca-Kabuli-Chr1	881543	[C/A]	-	DRR	-
CWSNP68	Ca-Kabuli-Chr1	881703	[G/T]	-	DRR	-
CWSNP69	Ca-Kabuli-Chr1	890948	[C/T]	Ca00110	Intron	Calcium-binding EF-hand
CWSNP70	Ca-Kabuli-Chr1	910486	[T/A]	-	URR	-
CWSNP71	Ca-Kabuli-Chr1	996439	[T/C]	-	Intergenic	-
CWSNP72	Ca-Kabuli-Chr1	1008895	[A/G]	-	Intergenic	-
CWSNP73	Ca-Kabuli-Chr1	1009058	[A/C]	-	DRR	-
CWSNP74	Ca-Kabuli-Chr1	1018966	[C/G]	-	Intergenic	-
CWSNP75	Ca-Kabuli-Chr1	1023550	[C/T]	-	Intergenic	-
CWSNP76	Ca-Kabuli-Chr1	1032734	[A/T]	Ca00128	Non-Synonymous-CDS	K+ potassium transporter
CWSNP77	Ca-Kabuli-Chr1	1059209	[A/G]	Ca00129	Non-Synonymous-CDS	IQ motif, EF-hand binding site
CWSNP78	Ca-Kabuli-Chr1	1059311	[A/G]	Ca00129	Non-Synonymous-CDS	IQ motif, EF-hand binding site
CWSNP79	Ca-Kabuli-Chr1	1083388	[G/A]	-	URR	-
CWSNP80	Ca-Kabuli-Chr1	1083403	[C/T]	-	URR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP81	Ca-Kabuli-Chr1	1085228	[A/C]	Ca00134	Intron	Peptidase C14,caspase catalytic
CWSNP82	Ca-Kabuli-Chr1	1085230	[T/G]	Ca00134	Intron	Peptidase C14,caspase catalytic
CWSNP83	Ca-Kabuli-Chr1	1085238	[A/G]	Ca00134	Intron	Peptidase C14,caspase catalytic
CWSNP84	Ca-Kabuli-Chr1	1085254	[A/C]	Ca00134	Intron	Peptidase C14,caspase catalytic
CWSNP85	Ca-Kabuli-Chr1	1085263	[A/C]	Ca00134	Intron	Peptidase C14,caspase catalytic
CWSNP86	Ca-Kabuli-Chr1	1085293	[G/A]	Ca00134	Intron	Peptidase C14,caspase catalytic
CWSNP87	Ca-Kabuli-Chr1	1091548	[T/A]	-	URR	-
CWSNP88	Ca-Kabuli-Chr1	1091534	[A/C]	-	URR	-
CWSNP89	Ca-Kabuli-Chr1	1091504	[C/T]	-	URR	-
CWSNP90	Ca-Kabuli-Chr1	1098703	[C/G]	-	Intergenic	-
CWSNP91	Ca-Kabuli-Chr1	1098789	[A/G]	-	Intergenic	-
CWSNP92	Ca-Kabuli-Chr1	1115668	[C/T]	-	URR	-
CWSNP93	Ca-Kabuli-Chr1	1116043	[C/T]	-	URR	-
CWSNP94	Ca-Kabuli-Chr1	1140313	[A/C]	-	DRR	-
CWSNP95	Ca-Kabuli-Chr1	1140405	[A/T]	-	DRR	-
CWSNP96	Ca-Kabuli-Chr1	1150973	[C/T]	-	DRR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP97	Ca-Kabuli-Chr1	1159383	[C/A]	-	DRR	-
CWSNP98	Ca-Kabuli-Chr1	1215024	[T/C]	-	DRR	-
CWSNP99	Ca-Kabuli-Chr1	1269180	[C/A]	Ca00155	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP100	Ca-Kabuli-Chr1	1278884	[G/T]	-	Intergenic	-
CWSNP101	Ca-Kabuli-Chr1	1278997	[T/A]	-	Intergenic	-
CWSNP102	Ca-Kabuli-Chr1	1295527	[T/G]	-	URR	-
CWSNP103	Ca-Kabuli-Chr1	1335518	[A/C]	-	Intergenic	-
CWSNP104	Ca-Kabuli-Chr1	1385553	[C/A]	-	Intergenic	-
CWSNP105	Ca-Kabuli-Chr1	1385554	[G/T]	-	Intergenic	-
CWSNP106	Ca-Kabuli-Chr1	1390073	[A/G]	-	Intergenic	-
CWSNP107	Ca-Kabuli-Chr1	1411501	[C/T]	-	URR	-
CWSNP108	Ca-Kabuli-Chr1	1411498	[T/A]	-	URR	-
CWSNP109	Ca-Kabuli-Chr1	1411495	[A/G]	-	URR	-
CWSNP110	Ca-Kabuli-Chr1	1428222	[C/G]	-	DRR	-
CWSNP111	Ca-Kabuli-Chr1	1428251	[T/G]	-	DRR	-
CWSNP112	Ca-Kabuli-Chr1	1428264	[T/G]	-	DRR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP113	Ca-Kabuli-Chr1	1434121	[A/G]	Ca00174	Non-Synonymous-CDS	DNA polymeraseV
CWSNP114	Ca-Kabuli-Chr1	1434883	[A/G]	-	Intergenic	-
CWSNP115	Ca-Kabuli-Chr1	1434875	[A/G]	-	Intergenic	-
CWSNP116	Ca-Kabuli-Chr1	1449848	[G/A]	Ca00177	Synonymous-CDS	Phox/Bem1p
CWSNP117	Ca-Kabuli-Chr1	1449913	[T/G]	Ca00177	Non-Synonymous-CDS	Phox/Bem1p
CWSNP118	Ca-Kabuli-Chr1	1449949	[G/A]	Ca00177	Non-Synonymous-CDS	Phox/Bem1p
CWSNP119	Ca-Kabuli-Chr1	1449980	[A/G]	Ca00177	Synonymous-CDS	Phox/Bem1p
CWSNP120	Ca-Kabuli-Chr1	1461574	[T/A]	-	URR	-
CWSNP121	Ca-Kabuli-Chr1	1461600	[T/C]	-	URR	-
CWSNP122	Ca-Kabuli-Chr1	1467056	[A/G]	-	DRR	-
CWSNP123	Ca-Kabuli-Chr1	1528325	[G/A]	Ca00185	Intron	Inorganic pyrophosphatase
CWSNP124	Ca-Kabuli-Chr1	1546679	[G/C]	Ca00187	Synonymous-CDS	-
CWSNP125	Ca-Kabuli-Chr1	1655018	[G/A]	Ca00203	Non-Synonymous-CDS	Kinesin , motor domain
CWSNP126	Ca-Kabuli-Chr1	1655012	[G/T]	Ca00203	Non-Synonymous-CDS	Kinesin , motor domain
CWSNP127	Ca-Kabuli-Chr1	1738179	[G/C]	-	DRR	-
CWSNP128	Ca-Kabuli-Chr1	1772813	[T/C]	-	DRR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP129	Ca-Kabuli-Chr1	1782760	[G/A]	Ca00224	Intron	Zinc finger,RING-type
CWSNP130	Ca-Kabuli-Chr1	1782793	[G/T]	Ca00224	Intron	Zinc finger,RING-type
CWSNP131	Ca-Kabuli-Chr1	1782808	[G/C]	Ca00224	Intron	Zinc finger,RING-type
CWSNP132	Ca-Kabuli-Chr1	1782953	[G/A]	Ca00224	Intron	Zinc finger,RING-type
CWSNP133	Ca-Kabuli-Chr1	1782948	[T/C]	Ca00224	Intron	Zinc finger,RING-type
CWSNP134	Ca-Kabuli-Chr1	1782930	[G/A]	Ca00224	Intron	Zinc finger,RING-type
CWSNP135	Ca-Kabuli-Chr1	1782929	[C/T]	Ca00224	Intron	Zinc finger,RING-type
CWSNP136	Ca-Kabuli-Chr1	1783207	[G/A]	Ca00224	Intron	Zinc finger,RING-type
CWSNP137	Ca-Kabuli-Chr1	1783277	[G/A]	Ca00224	Intron	Zinc finger,RING-type
CWSNP138	Ca-Kabuli-Chr1	1783280	[A/C]	Ca00224	Intron	Zinc finger,RING-type
CWSNP139	Ca-Kabuli-Chr1	1783923	[C/A]	Ca00224	Non-Synonymous-CDS	Zinc finger,RING-type
CWSNP140	Ca-Kabuli-Chr1	1784006	[T/C]	Ca00224	Synonymous-CDS	Zinc finger,RING-type
CWSNP141	Ca-Kabuli-Chr1	1788958	[T/A]	-	DRR	-
CWSNP142	Ca-Kabuli-Chr1	1789087	[T/C]	-	DRR	-
CWSNP143	Ca-Kabuli-Chr1	1802992	[C/G]	-	DRR	-
CWSNP144	Ca-Kabuli-Chr1	1858073	[C/T]	Ca00233	Intron	Inositol monophosphatase

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CWSNP145	Ca-Kabuli-Chr1	1858078	[T/C]	Ca00233	Intron	Inositol monophosphatase
CWSNP146	Ca-Kabuli-Chr1	1858084	[C/T]	Ca00233	Intron	Inositol monophosphatase
CWSNP147	Ca-Kabuli-Chr1	1858132	[T/A]	Ca00233	Intron	Inositol monophosphatase
CWSNP148	Ca-Kabuli-Chr1	1858156	[C/T]	Ca00233	Intron	Inositol monophosphatase
CWSNP149	Ca-Kabuli-Chr1	1858177	[T/C]	Ca00233	Synonymous-CDS	Inositol monophosphatase
CWSNP150	Ca-Kabuli-Chr1	1858159	[A/G]	Ca00233	Intron	Inositol monophosphatase
CWSNP151	Ca-Kabuli-Chr1	1858509	[C/T]	Ca00233	Synonymous-CDS	Inositol monophosphatase
CWSNP152	Ca-Kabuli-Chr1	1858608	[T/A]	Ca00233	Intron	Inositol monophosphatase
CWSNP153	Ca-Kabuli-Chr1	1858600	[G/A]	Ca00233	Intron	Inositol monophosphatase
CWSNP154	Ca-Kabuli-Chr1	1859789	[C/T]	Ca00233	Intron	Inositol monophosphatase
CWSNP155	Ca-Kabuli-Chr1	1859857	[A/G]	Ca00233	Intron	Inositol monophosphatase
CWSNP156	Ca-Kabuli-Chr1	1859914	[G/A]	Ca00233	Intron	Inositol monophosphatase
CWSNP157	Ca-Kabuli-Chr1	1859902	[G/A]	Ca00233	Intron	Inositol monophosphatase
CWSNP158	Ca-Kabuli-Chr1	1861696	[C/T]	Ca00233	Synonymous-CDS	Inositol monophosphatase
CWSNP159	Ca-Kabuli-Chr1	1861707	[T/G]	Ca00233	Intron	Inositol monophosphatase
CWSNP160	Ca-Kabuli-Chr1	1861722	[T/A]	Ca00233	Intron	Inositol monophosphatase

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP161	Ca-Kabuli-Chr1	1861729	[T/C]	Ca00233	Intron	Inositol monophosphatase
CWSNP162	Ca-Kabuli-Chr1	1861837	[T/G]	Ca00233	Synonymous-CDS	Inositol monophosphatase
CWSNP163	Ca-Kabuli-Chr1	1904233	[T/C]	Ca00238	Intron	Reverse transcriptase
CWSNP164	Ca-Kabuli-Chr1	1904230	[G/T]	Ca00238	Intron	Reverse transcriptase
CWSNP165	Ca-Kabuli-Chr1	1904365	[G/A]	Ca00238	Intron	Reverse transcriptase
CWSNP166	Ca-Kabuli-Chr1	1904391	[A/G]	Ca00238	Intron	Reverse transcriptase
CWSNP167	Ca-Kabuli-Chr1	1935729	[A/G]	-	Intergenic	-
CWSNP168	Ca-Kabuli-Chr1	1962876	[A/G]	Ca00244	Non-Synonymous-CDS	Transcriptional factor B3
CWSNP169	Ca-Kabuli-Chr1	1968828	[G/A]	-	Intergenic	-
CWSNP170	Ca-Kabuli-Chr1	2002844	[G/A]	-	URR	-
CWSNP171	Ca-Kabuli-Chr1	2002922	[G/T]	-	URR	-
CWSNP172	Ca-Kabuli-Chr1	2040943	[C/T]	-	Intergenic	-
CWSNP173	Ca-Kabuli-Chr1	2040946	[G/T]	-	Intergenic	-
CWSNP174	Ca-Kabuli-Chr1	2041027	[C/G]	-	Intergenic	-
CWSNP175	Ca-Kabuli-Chr1	2041190	[A/C]	-	DRR	-
CWSNP176	Ca-Kabuli-Chr1	2041180	[T/C]	-	DRR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP177	Ca-Kabuli-Chr1	2041178	[A/C]	-	DRR	-
CWSNP178	Ca-Kabuli-Chr1	2041174	[C/T]	-	DRR	-
CWSNP179	Ca-Kabuli-Chr1	2041154	[G/C]	-	DRR	-
CWSNP180	Ca-Kabuli-Chr1	2041132	[C/T]	-	Intergenic	-
CWSNP181	Ca-Kabuli-Chr1	2042071	[C/G]	-	DRR	-
CWSNP182	Ca-Kabuli-Chr1	2042185	[T/C]	-	DRR	-
CWSNP183	Ca-Kabuli-Chr1	2042152	[G/C]	-	DRR	-
CWSNP184	Ca-Kabuli-Chr1	2042149	[G/T]	-	DRR	-
CWSNP185	Ca-Kabuli-Chr1	2044289	[A/G]	-	Intergenic	-
CWSNP186	Ca-Kabuli-Chr1	2044263	[A/C]	-	Intergenic	-
CWSNP187	Ca-Kabuli-Chr1	2044359	[C/T]	-	Intergenic	-
CWSNP188	Ca-Kabuli-Chr1	2044380	[G/C]	-	Intergenic	-
CWSNP189	Ca-Kabuli-Chr1	2044408	[A/C]	-	Intergenic	-
CWSNP190	Ca-Kabuli-Chr1	2044414	[G/A]	-	Intergenic	-
CWSNP191	Ca-Kabuli-Chr1	2044474	[A/G]	-	Intergenic	-
CWSNP192	Ca-Kabuli-Chr1	2050232	[A/T]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP193	Ca-Kabuli-Chr1	2050187	[C/G]	-	Intergenic	-
CWSNP194	Ca-Kabuli-Chr1	2050479	[A/C]	-	URR	-
CWSNP195	Ca-Kabuli-Chr1	2050469	[T/C]	-	URR	-
CWSNP196	Ca-Kabuli-Chr1	2050467	[A/C]	-	URR	-
CWSNP197	Ca-Kabuli-Chr1	2050465	[A/G]	-	URR	-
CWSNP198	Ca-Kabuli-Chr1	2050463	[C/T]	-	URR	-
CWSNP199	Ca-Kabuli-Chr1	2050421	[C/T]	-	URR	-
CWSNP200	Ca-Kabuli-Chr1	2051360	[A/G]	-	URR	-
CWSNP201	Ca-Kabuli-Chr1	2051379	[C/T]	-	URR	-
CWSNP202	Ca-Kabuli-Chr1	2053732	[C/T]	Ca00260	Non-Synonymous-CDS	Disease resistance protein
CWSNP203	Ca-Kabuli-Chr1	2053744	[C/A]	Ca00260	Non-Synonymous-CDS	Disease resistance protein
CWSNP204	Ca-Kabuli-Chr1	2053749	[T/A]	Ca00260	Non-Synonymous-CDS	Disease resistance protein
CWSNP205	Ca-Kabuli-Chr1	2053756	[G/T]	Ca00260	Non-Synonymous-CDS	Disease resistance protein
CWSNP206	Ca-Kabuli-Chr1	2053758	[A/G]	Ca00260	Non-Synonymous-CDS	Disease resistance protein
CWSNP207	Ca-Kabuli-Chr1	2053784	[C/A]	Ca00260	Non-Synonymous-CDS	Disease resistance protein
CWSNP208	Ca-Kabuli-Chr1	2053788	[A/G]	Ca00260	Non-Synonymous-CDS	Disease resistance protein

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP209	Ca-Kabuli-Chr1	2053790	[G/A]	Ca00260	Synonymous-CDS	Disease resistance protein
CWSNP210	Ca-Kabuli-Chr1	2053808	[G/T]	Ca00260	Synonymous-CDS	Disease resistance protein
CWSNP211	Ca-Kabuli-Chr1	2053856	[T/G]	Ca00260	Synonymous-CDS	Disease resistance protein
CWSNP212	Ca-Kabuli-Chr1	2053833	[T/G]	Ca00260	Synonymous-CDS	Disease resistance protein
CWSNP213	Ca-Kabuli-Chr1	2053830	[A/G]	Ca00260	Synonymous-CDS	Disease resistance protein
CWSNP214	Ca-Kabuli-Chr1	2053819	[C/A]	Ca00260	Synonymous-CDS	Disease resistance protein
CWSNP215	Ca-Kabuli-Chr1	2053818	[G/C]	Ca00260	Non-Synonymous-CDS	Disease resistance protein
CWSNP216	Ca-Kabuli-Chr1	2071456	[T/A]	-	Intergenic	-
CWSNP217	Ca-Kabuli-Chr1	2071448	[A/T]	-	URR	-
CWSNP218	Ca-Kabuli-Chr1	2071424	[T/A]	-	Intergenic	-
CWSNP219	Ca-Kabuli-Chr1	2071708	[C/G]	-	Intergenic	-
CWSNP220	Ca-Kabuli-Chr1	2071703	[A/C]	-	Intergenic	-
CWSNP221	Ca-Kabuli-Chr1	2071699	[T/C]	-	Intergenic	-
CWSNP222	Ca-Kabuli-Chr1	2071693	[T/C]	-	Intergenic	-
CWSNP223	Ca-Kabuli-Chr1	2071691	[A/C]	-	Intergenic	-
CWSNP224	Ca-Kabuli-Chr1	2071689	[A/G]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP225	Ca-Kabuli-Chr1	2071687	[C/T]	-	Intergenic	-
CWSNP226	Ca-Kabuli-Chr1	2071645	[C/T]	-	Intergenic	-
CWSNP227	Ca-Kabuli-Chr1	2072613	[G/A]	-	Intergenic	-
CWSNP228	Ca-Kabuli-Chr1	2072627	[A/T]	-	Intergenic	-
CWSNP229	Ca-Kabuli-Chr1	2075087	[A/T]	-	URR	-
CWSNP230	Ca-Kabuli-Chr1	2075057	[G/T]	-	URR	-
CWSNP231	Ca-Kabuli-Chr1	2075045	[C/A]	-	URR	-
CWSNP232	Ca-Kabuli-Chr1	2075044	[A/G]	-	URR	-
CWSNP233	Ca-Kabuli-Chr1	2075043	[C/A]	-	URR	-
CWSNP234	Ca-Kabuli-Chr1	2075015	[G/A]	-	URR	-
CWSNP235	Ca-Kabuli-Chr1	2075013	[A/G]	-	URR	-
CWSNP236	Ca-Kabuli-Chr1	2075009	[C/A]	-	URR	-
CWSNP237	Ca-Kabuli-Chr1	2082760	[C/G]	Ca00265	Intron	Protein of unknown function DUF707
CWSNP238	Ca-Kabuli-Chr1	2082801	[G/A]	Ca00265	Intron	Protein of unknown function DUF707
CWSNP239	Ca-Kabuli-Chr1	2083003	[G/C]	Ca00265	Intron	Protein of unknown function DUF707
CWSNP240	Ca-Kabuli-Chr1	2083059	[A/T]	Ca00265	Intron	Protein of unknown function DUF707

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP241	Ca-Kabuli-Chr1	2126267	[G/A]	Ca00268	Intron	Protein kinase, catalytic domain
CWSNP242	Ca-Kabuli-Chr1	2148583	[T/G]	-	Intergenic	-
CWSNP243	Ca-Kabuli-Chr1	2170090	[G/C]	-	Intergenic	-
CWSNP244	Ca-Kabuli-Chr1	2170935	[A/C]	-	Intergenic	-
CWSNP245	Ca-Kabuli-Chr1	2172076	[T/C]	-	Intergenic	-
CWSNP246	Ca-Kabuli-Chr1	2172113	[G/A]	-	Intergenic	-
CWSNP247	Ca-Kabuli-Chr1	2172143	[T/G]	-	Intergenic	-
CWSNP248	Ca-Kabuli-Chr1	2183544	[A/G]	Ca00274	Intron	SNF2-related
CWSNP249	Ca-Kabuli-Chr1	2232779	[A/G]	Ca00279	Intron	Amidohydrolase1
CWSNP250	Ca-Kabuli-Chr1	2252270	[C/T]	Ca00281	Intron	Zinc finger,RING-type
CWSNP251	Ca-Kabuli-Chr1	2252343	[G/T]	Ca00281	Intron	Zinc finger,RING-type
CWSNP252	Ca-Kabuli-Chr1	2252513	[C/T]	Ca00281	Intron	Zinc finger,RING-type
CWSNP253	Ca-Kabuli-Chr1	2269319	[T/G]	-	DRR	-
CWSNP254	Ca-Kabuli-Chr1	2269489	[A/C]	-	DRR	-
CWSNP255	Ca-Kabuli-Chr1	2277459	[G/A]	Ca00285	Intron	RNA recognition motif domain
CWSNP256	Ca-Kabuli-Chr1	2285879	[G/A]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP257	Ca-Kabuli-Chr1	2287408	[A/T]	Ca00287	Non-Synonymous-CDS	-
CWSNP258	Ca-Kabuli-Chr1	2366413	[T/C]	-	URR	-
CWSNP259	Ca-Kabuli-Chr1	2366409	[T/A]	-	URR	-
CWSNP260	Ca-Kabuli-Chr1	2373862	[G/A]	Ca00301	Intron	Ribosomal RNA methyltransferase RrmJ/FtsJ
CWSNP261	Ca-Kabuli-Chr1	2373910	[C/T]	Ca00301	Intron	Ribosomal RNA methyltransferase RrmJ/FtsJ
CWSNP262	Ca-Kabuli-Chr1	2373954	[G/T]	Ca00301	Intron	Ribosomal RNA methyltransferase RrmJ/FtsJ
CWSNP263	Ca-Kabuli-Chr1	2400799	[T/G]	-	Intergenic	-
CWSNP264	Ca-Kabuli-Chr1	2428531	[A/G]	-	Intergenic	-
CWSNP265	Ca-Kabuli-Chr1	2439915	[A/G]	-	Intergenic	-
CWSNP266	Ca-Kabuli-Chr1	2439917	[G/A]	-	Intergenic	-
CWSNP267	Ca-Kabuli-Chr1	2473309	[T/C]	-	DRR	-
CWSNP268	Ca-Kabuli-Chr1	2513516	[T/A]	Ca00314	Non-Synonymous-CDS	Telomerase activating protein Est1
CWSNP269	Ca-Kabuli-Chr1	2513535	[T/C]	Ca00314	Non-Synonymous-CDS	Telomerase activating protein Est2
CWSNP270	Ca-Kabuli-Chr1	2513737	[T/C]	Ca00314	Synonymous-CDS	Telomerase activating protein Est3
CWSNP271	Ca-Kabuli-Chr1	2513860	[G/A]	Ca00314	Synonymous-CDS	Telomerase activating protein Est6
CWSNP272	Ca-Kabuli-Chr1	2513854	[G/A]	Ca00314	Synonymous-CDS	Telomerase activating protein Est5

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP273	Ca-Kabuli-Chr1	2513792	[A/G]	Ca00314	Non-Synonymous-CDS	Telomerase activating protein Est4
CWSNP274	Ca-Kabuli-Chr1	2542652	[G/A]	-	DRR	-
CWSNP275	Ca-Kabuli-Chr1	2649864	[C/A]	Ca00326	Synonymous-CDS	Pathogenesis-related transcriptional factor/ERF, DNA-binding
CWSNP276	Ca-Kabuli-Chr1	2649974	[A/C]	Ca00326	Synonymous-CDS	Pathogenesis-related transcriptional factor/ERF, DNA-binding
CWSNP277	Ca-Kabuli-Chr1	2671403	[G/T]	Ca00327	Synonymous-CDS	Pathogenesis-related transcriptional factor/ERF, DNA-binding
CWSNP278	Ca-Kabuli-Chr1	2745499	[C/A]	-	URR	-
CWSNP279	Ca-Kabuli-Chr1	2745514	[A/C]	-	Intergenic	-
CWSNP280	Ca-Kabuli-Chr1	2745519	[G/C]	-	Intergenic	-
CWSNP281	Ca-Kabuli-Chr1	2745486	[C/T]	-	URR	-
CWSNP282	Ca-Kabuli-Chr1	2754998	[C/T]	Ca00340	Synonymous-CDS	Disease resistance protein
CWSNP283	Ca-Kabuli-Chr1	2755012	[C/T]	Ca00340	Synonymous-CDS	Disease resistance protein
CWSNP284	Ca-Kabuli-Chr1	2755015	[T/C]	Ca00340	Synonymous-CDS	Disease resistance protein
CWSNP285	Ca-Kabuli-Chr1	2755443	[T/A]	Ca00340	Non-Synonymous-CDS	Disease resistance protein
CWSNP286	Ca-Kabuli-Chr1	2755455	[G/A]	Ca00340	Synonymous-CDS	Disease resistance protein
CWSNP287	Ca-Kabuli-Chr1	2755457	[C/T]	Ca00340	Non-Synonymous-CDS	Disease resistance protein
CWSNP288	Ca-Kabuli-Chr1	2755459	[T/G]	Ca00340	Synonymous-CDS	Disease resistance protein

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP289	Ca-Kabuli-Chr1	2755465	[T/A]	Ca00340	Synonymous-CDS	Disease resistance protein
CWSNP290	Ca-Kabuli-Chr1	2755466	[C/G]	Ca00340	Synonymous-CDS	Disease resistance protein
CWSNP291	Ca-Kabuli-Chr1	2755470	[A/T]	Ca00340	Synonymous-CDS	Disease resistance protein
CWSNP292	Ca-Kabuli-Chr1	2755471	[C/A]	Ca00340	Synonymous-CDS	Disease resistance protein
CWSNP293	Ca-Kabuli-Chr1	2755489	[G/A]	Ca00340	Non-Synonymous-CDS	Disease resistance protein
CWSNP294	Ca-Kabuli-Chr1	2755494	[T/C]	Ca00340	Synonymous-CDS	Disease resistance protein
CWSNP295	Ca-Kabuli-Chr1	2755496	[A/G]	Ca00340	Non-Synonymous-CDS	Disease resistance protein
CWSNP296	Ca-Kabuli-Chr1	2755613	[G/T]	Ca00340	Non-Synonymous-CDS	Disease resistance protein
CWSNP297	Ca-Kabuli-Chr1	2755604	[A/C]	Ca00340	Non-Synonymous-CDS	Disease resistance protein
CWSNP298	Ca-Kabuli-Chr1	2755596	[C/A]	Ca00340	Non-Synonymous-CDS	Disease resistance protein
CWSNP299	Ca-Kabuli-Chr1	2757711	[T/G]	Ca00340	Synonymous-CDS	Disease resistance protein
CWSNP300	Ca-Kabuli-Chr1	2757696	[A/G]	Ca00340	Synonymous-CDS	Disease resistance protein
CWSNP301	Ca-Kabuli-Chr1	2757693	[C/T]	Ca00340	Synonymous-CDS	Disease resistance protein
CWSNP302	Ca-Kabuli-Chr1	2757678	[A/G]	Ca00340	Synonymous-CDS	Disease resistance protein
CWSNP303	Ca-Kabuli-Chr1	2758781	[G/C]	Ca00340	Non-Synonymous-CDS	Disease resistance protein
CWSNP304	Ca-Kabuli-Chr1	2758759	[G/C]	Ca00340	Non-Synonymous-CDS	Disease resistance protein

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP305	Ca-Kabuli-Chr1	2758750	[A/G]	Ca00340	Non-Synonymous-CDS	Disease resistance protein
CWSNP306	Ca-Kabuli-Chr1	2758746	[G/A]	Ca00340	Synonymous-CDS	Disease resistance protein
CWSNP307	Ca-Kabuli-Chr1	2758739	[A/T]	Ca00340	Non-Synonymous-CDS	Disease resistance protein
CWSNP308	Ca-Kabuli-Chr1	2758738	[T/G]	Ca00340	Non-Synonymous-CDS	Disease resistance protein
CWSNP309	Ca-Kabuli-Chr1	2758859	[A/T]	-	Intergenic	-
CWSNP310	Ca-Kabuli-Chr1	2758835	[T/A]	-	Intergenic	-
CWSNP311	Ca-Kabuli-Chr1	2758827	[A/T]	Ca00340	Non-Synonymous-CDS	Disease resistance protein
CWSNP312	Ca-Kabuli-Chr1	2786994	[A/C]	-	DRR	-
CWSNP313	Ca-Kabuli-Chr1	2786989	[T/C]	-	DRR	-
CWSNP314	Ca-Kabuli-Chr1	2786976	[A/C]	-	DRR	-
CWSNP315	Ca-Kabuli-Chr1	2786974	[T/C]	-	DRR	-
CWSNP316	Ca-Kabuli-Chr1	2786970	[T/A]	-	DRR	-
CWSNP317	Ca-Kabuli-Chr1	2807605	[G/C]	Ca00345	Non-Synonymous-CDS	-
CWSNP318	Ca-Kabuli-Chr1	2807616	[G/A]	Ca00345	Non-Synonymous-CDS	-
CWSNP319	Ca-Kabuli-Chr1	2832792	[G/A]	-	Intergenic	-
CWSNP320	Ca-Kabuli-Chr1	2832969	[G/A]	Ca00347	Synonymous-CDS	Transcriptional factor B3

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP321	Ca-Kabuli-Chr1	2832939	[G/T]	Ca00347	Non-Synonymous-CDS	Transcriptional factor B3
CWSNP322	Ca-Kabuli-Chr1	2833448	[C/A]	Ca00347	Non-Synonymous-CDS	Transcriptional factor B3
CWSNP323	Ca-Kabuli-Chr1	2855927	[T/A]	-	Intergenic	-
CWSNP324	Ca-Kabuli-Chr1	2856003	[T/C]	-	Intergenic	-
CWSNP325	Ca-Kabuli-Chr1	2856045	[C/T]	-	Intergenic	-
CWSNP326	Ca-Kabuli-Chr1	2856079	[T/G]	-	Intergenic	-
CWSNP327	Ca-Kabuli-Chr1	2856094	[T/G]	-	Intergenic	-
CWSNP328	Ca-Kabuli-Chr1	2856120	[T/G]	-	Intergenic	-
CWSNP329	Ca-Kabuli-Chr1	2856534	[T/A]	-	Intergenic	-
CWSNP330	Ca-Kabuli-Chr1	2858263	[A/G]	-	Intergenic	-
CWSNP331	Ca-Kabuli-Chr1	2858299	[C/A]	-	Intergenic	-
CWSNP332	Ca-Kabuli-Chr1	2868942	[G/A]	-	DRR	-
CWSNP333	Ca-Kabuli-Chr1	2881422	[T/C]	Ca00351	Synonymous-CDS	Disease resistance protein
CWSNP334	Ca-Kabuli-Chr1	2881389	[G/C]	Ca00351	Non-Synonymous-CDS	Disease resistance protein
CWSNP335	Ca-Kabuli-Chr1	2881386	[G/T]	Ca00351	Non-Synonymous-CDS	Disease resistance protein
CWSNP336	Ca-Kabuli-Chr1	2883625	[T/A]	Ca00351	Non-Synonymous-CDS	Disease resistance protein

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP337	Ca-Kabuli-Chr1	2883634	[T/A]	-	Intergenic	-
CWSNP338	Ca-Kabuli-Chr1	2883635	[A/G]	-	Intergenic	-
CWSNP339	Ca-Kabuli-Chr1	2883660	[C/G]	-	Intergenic	-
CWSNP340	Ca-Kabuli-Chr1	2883666	[G/A]	-	Intergenic	-
CWSNP341	Ca-Kabuli-Chr1	2883684	[G/T]	-	Intergenic	-
CWSNP342	Ca-Kabuli-Chr1	2883717	[C/A]	-	Intergenic	-
CWSNP343	Ca-Kabuli-Chr1	2883716	[A/C]	-	Intergenic	-
CWSNP344	Ca-Kabuli-Chr1	2885508	[T/C]	-	Intergenic	-
CWSNP345	Ca-Kabuli-Chr1	2885525	[T/C]	-	Intergenic	-
CWSNP346	Ca-Kabuli-Chr1	2885531	[C/T]	-	Intergenic	-
CWSNP347	Ca-Kabuli-Chr1	2885626	[A/G]	-	Intergenic	-
CWSNP348	Ca-Kabuli-Chr1	2885673	[G/C]	-	DRR	-
CWSNP349	Ca-Kabuli-Chr1	2885892	[T/A]	-	DRR	-
CWSNP350	Ca-Kabuli-Chr1	2885923	[C/G]	-	DRR	-
CWSNP351	Ca-Kabuli-Chr1	2886025	[A/G]	-	DRR	-
CWSNP352	Ca-Kabuli-Chr1	2886005	[G/A]	-	DRR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP353	Ca-Kabuli-Chr1	2885997	[G/A]	-	DRR	-
CWSNP354	Ca-Kabuli-Chr1	2885988	[C/G]	-	DRR	-
CWSNP355	Ca-Kabuli-Chr1	2885987	[T/A]	-	DRR	-
CWSNP356	Ca-Kabuli-Chr1	2948211	[C/T]	-	DRR	-
CWSNP357	Ca-Kabuli-Chr1	3032061	[C/A]	-	DRR	-
CWSNP358	Ca-Kabuli-Chr1	3081851	[T/G]	Ca00376	Intron	Lipase,GDSL
CWSNP359	Ca-Kabuli-Chr1	3081850	[C/A]	Ca00376	Intron	Lipase,GDSL
CWSNP360	Ca-Kabuli-Chr1	3082280	[G/A]	Ca00376	Synonymous-CDS	Lipase,GDSL
CWSNP361	Ca-Kabuli-Chr1	3151007	[G/A]	-	Intergenic	-
CWSNP362	Ca-Kabuli-Chr1	3150986	[T/C]	-	Intergenic	-
CWSNP363	Ca-Kabuli-Chr1	3150964	[C/G]	-	Intergenic	-
CWSNP364	Ca-Kabuli-Chr1	3298327	[C/G]	-	URR	-
CWSNP365	Ca-Kabuli-Chr1	3364952	[A/C]	-	DRR	-
CWSNP366	Ca-Kabuli-Chr1	3503059	[C/A]	Ca00425	Non-Synonymous-CDS	Armadillo
CWSNP367	Ca-Kabuli-Chr1	3542263	[A/C]	-	DRR	-
CWSNP368	Ca-Kabuli-Chr1	3611231	[C/A]	-	DRR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP369	Ca-Kabuli-Chr1	3711498	[T/G]	-	DRR	-
CWSNP370	Ca-Kabuli-Chr1	3711525	[T/G]	-	DRR	-
CWSNP371	Ca-Kabuli-Chr1	3852035	[A/C]	Ca00467	Intron	AUX/IAA protein
CWSNP372	Ca-Kabuli-Chr1	3852476	[A/C]	Ca00467	Intron	AUX/IAA protein
CWSNP373	Ca-Kabuli-Chr1	4073941	[A/C]	-	Intergenic	-
CWSNP374	Ca-Kabuli-Chr1	4189333	[C/T]	-	DRR	-
CWSNP375	Ca-Kabuli-Chr1	4245058	[C/G]	-	Intergenic	-
CWSNP376	Ca-Kabuli-Chr1	4245073	[C/G]	-	Intergenic	-
CWSNP377	Ca-Kabuli-Chr1	4245176	[G/T]	-	Intergenic	-
CWSNP378	Ca-Kabuli-Chr1	4292981	[G/C]	-	Intergenic	-
CWSNP379	Ca-Kabuli-Chr1	4302669	[G/C]	-	URR	-
CWSNP380	Ca-Kabuli-Chr1	4302770	[A/C]	-	URR	-
CWSNP381	Ca-Kabuli-Chr1	4302751	[T/C]	-	URR	-
CWSNP382	Ca-Kabuli-Chr1	4334299	[A/T]	Ca00517	Intron	Tetratricopeptide repeat-containing
CWSNP383	Ca-Kabuli-Chr1	4334336	[A/G]	Ca00517	Intron	Tetratricopeptide repeat-containing
CWSNP384	Ca-Kabuli-Chr1	4375710	[T/C]	Ca00522	Synonymous-CDS	Protein kinase, catalytic domain

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP385	Ca-Kabuli-Chr1	4386114	[T/G]	Ca00523	Intron	SNF2-related
CWSNP386	Ca-Kabuli-Chr1	4386111	[T/C]	Ca00523	Intron	SNF2-related
CWSNP387	Ca-Kabuli-Chr1	4392680	[A/G]	Ca00524	Intron	Lipase,class3
CWSNP388	Ca-Kabuli-Chr1	4414410	[A/T]	-	DRR	-
CWSNP389	Ca-Kabuli-Chr1	4429044	[C/T]	Ca00530	Non-Synonymous-CDS	DNA-directed RNA polymerase, subunit 2,domain 6
CWSNP390	Ca-Kabuli-Chr1	4456662	[G/A]	Ca00531	Non-Synonymous-CDS	DNA-directed RNA polymerase, subunit 2,domain 6
CWSNP391	Ca-Kabuli-Chr1	4456654	[A/C]	Ca00531	Synonymous-CDS	DNA-directed RNA polymerase, subunit 2,domain 6
CWSNP392	Ca-Kabuli-Chr1	4456648	[T/C]	Ca00531	Non-Synonymous-CDS	DNA-directed RNA polymerase, subunit 2,domain 6
CWSNP393	Ca-Kabuli-Chr1	4457588	[A/G]	Ca00531	Intron	DNA-directed RNA polymerase, subunit 2,domain 6
CWSNP394	Ca-Kabuli-Chr1	4460112	[A/T]	Ca00531	Intron	DNA-directed RNA polymerase, subunit 2,domain 6
CWSNP395	Ca-Kabuli-Chr1	4494270	[C/T]	Ca00534	Synonymous-CDS	Protein kinase, catalytic domain
CWSNP396	Ca-Kabuli-Chr1	4494467	[A/G]	Ca00534	Intron	Protein kinase, catalytic domain
CWSNP397	Ca-Kabuli-Chr1	4512566	[T/C]	-	DRR	-
CWSNP398	Ca-Kabuli-Chr1	4528117	[A/G]	Ca00537	Intron	-
CWSNP399	Ca-Kabuli-Chr1	4528184	[C/T]	Ca00537	Intron	-
CWSNP400	Ca-Kabuli-Chr1	4530304	[T/C]	Ca00537	Synonymous-CDS	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP401	Ca-Kabuli-Chr1	4560792	[C/T]	Ca00541	Synonymous-CDS	Protein kinase, catalytic domain
CWSNP402	Ca-Kabuli-Chr1	4560920	[G/A]	Ca00541	Non-Synonymous-CDS	Protein kinase, catalytic domain
CWSNP403	Ca-Kabuli-Chr1	4571540	[C/G]	-	Intergenic	-
CWSNP404	Ca-Kabuli-Chr1	4571539	[G/A]	-	Intergenic	-
CWSNP405	Ca-Kabuli-Chr1	4576888	[A/G]	Ca00543	Non-Synonymous-CDS	BRCT
CWSNP406	Ca-Kabuli-Chr1	4578967	[T/G]	Ca00543	Intron	BRCT
CWSNP407	Ca-Kabuli-Chr1	4578999	[T/A]	Ca00543	Intron	BRCT
CWSNP408	Ca-Kabuli-Chr1	4582189	[C/T]	-	DRR	-
CWSNP409	Ca-Kabuli-Chr1	4626099	[T/G]	-	URR	-
CWSNP410	Ca-Kabuli-Chr1	4631467	[G/A]	-	URR	-
CWSNP411	Ca-Kabuli-Chr1	4632188	[G/A]	-	URR	-
CWSNP412	Ca-Kabuli-Chr1	4632965	[G/A]	-	URR	-
CWSNP413	Ca-Kabuli-Chr1	4634413	[C/T]	Ca00548	Synonymous-CDS	Dehydrogenase,E1component
CWSNP414	Ca-Kabuli-Chr1	4662564	[A/G]	Ca00550	Intron	Transcription factor,SBP-box
CWSNP415	Ca-Kabuli-Chr1	4672439	[G/A]	Ca00551	Non-Synonymous-CDS	Sugar/inositol transporter
CWSNP416	Ca-Kabuli-Chr1	4715563	[T/C]	Ca00555	Non-Synonymous-CDS	Protein kinase, catalytic domain

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP417	Ca-Kabuli-Chr1	4780345	[G/T]	Ca00562	Non-Synonymous-CDS	Zinc finger,RING-type
CWSNP418	Ca-Kabuli-Chr1	4781362	[C/T]	Ca00562	Synonymous-CDS	Zinc finger,RING-type
CWSNP419	Ca-Kabuli-Chr1	4781416	[G/A]	Ca00562	Synonymous-CDS	Zinc finger,RING-type
CWSNP420	Ca-Kabuli-Chr1	4781704	[G/A]	Ca00562	Synonymous-CDS	Zinc finger,RING-type
CWSNP421	Ca-Kabuli-Chr1	4808910	[A/T]	Ca00566	Intron	SAC3/GANP/Nin1/mts3/eIF-3p25
CWSNP422	Ca-Kabuli-Chr1	4878683	[T/C]	-	Intergenic	-
CWSNP423	Ca-Kabuli-Chr1	4878691	[A/C]	-	Intergenic	-
CWSNP424	Ca-Kabuli-Chr1	4878695	[T/C]	-	Intergenic	-
CWSNP425	Ca-Kabuli-Chr1	4878823	[A/G]	-	Intergenic	-
CWSNP426	Ca-Kabuli-Chr1	4903185	[T/A]	-	DRR	-
CWSNP427	Ca-Kabuli-Chr1	4906816	[A/G]	-	Intergenic	-
CWSNP428	Ca-Kabuli-Chr1	4906859	[T/C]	-	Intergenic	-
CWSNP429	Ca-Kabuli-Chr1	4906854	[A/G]	-	Intergenic	-
CWSNP430	Ca-Kabuli-Chr1	4909286	[T/G]	Ca00577	Synonymous-CDS	Disease resistance protein
CWSNP431	Ca-Kabuli-Chr1	4909271	[A/G]	Ca00577	Synonymous-CDS	Disease resistance protein
CWSNP432	Ca-Kabuli-Chr1	4909268	[C/T]	Ca00577	Synonymous-CDS	Disease resistance protein

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP433	Ca-Kabuli-Chr1	4909253	[A/G]	Ca00577	Synonymous-CDS	Disease resistance protein
CWSNP434	Ca-Kabuli-Chr1	4910497	[A/G]	Ca00577	Synonymous-CDS	Disease resistance protein
CWSNP435	Ca-Kabuli-Chr1	4910494	[C/A]	Ca00577	Synonymous-CDS	Disease resistance protein
CWSNP436	Ca-Kabuli-Chr1	4948740	[A/T]	-	Intergenic	-
CWSNP437	Ca-Kabuli-Chr1	4949578	[A/T]	-	DRR	-
CWSNP438	Ca-Kabuli-Chr1	4950726	[G/T]	-	DRR	-
CWSNP439	Ca-Kabuli-Chr1	4959562	[A/C]	-	URR	-
CWSNP440	Ca-Kabuli-Chr1	4996404	[A/C]	Ca00587	Synonymous-CDS	-
CWSNP441	Ca-Kabuli-Chr1	4996459	[T/C]	Ca00587	Synonymous-CDS	-
CWSNP442	Ca-Kabuli-Chr1	4996476	[G/A]	Ca00587	Synonymous-CDS	-
CWSNP443	Ca-Kabuli-Chr1	4996536	[C/T]	Ca00587	Synonymous-CDS	-
CWSNP444	Ca-Kabuli-Chr1	5071158	[G/A]	Ca00593	Intron	RNA recognition motif domain
CWSNP445	Ca-Kabuli-Chr1	5072022	[C/A]	Ca00593	Synonymous-CDS	RNA recognition motif domain
CWSNP446	Ca-Kabuli-Chr1	5080358	[G/A]	-	URR	-
CWSNP447	Ca-Kabuli-Chr1	5087428	[T/C]	-	DRR	-
CWSNP448	Ca-Kabuli-Chr1	5122663	[A/G]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP449	Ca-Kabuli-Chr1	5140801	[C/A]	-	Intergenic	-
CWSNP450	Ca-Kabuli-Chr1	5141009	[G/C]	-	Intergenic	-
CWSNP451	Ca-Kabuli-Chr1	5146658	[C/A]	-	Intergenic	-
CWSNP452	Ca-Kabuli-Chr1	5146696	[T/A]	-	Intergenic	-
CWSNP453	Ca-Kabuli-Chr1	5164127	[A/G]	-	Intergenic	-
CWSNP454	Ca-Kabuli-Chr1	5164136	[C/T]	-	Intergenic	-
CWSNP455	Ca-Kabuli-Chr1	5164198	[C/A]	-	Intergenic	-
CWSNP456	Ca-Kabuli-Chr1	5197461	[C/T]	Ca00608	Intron	Uncharacterised protein family,carbohydratekinase related
CWSNP457	Ca-Kabuli-Chr1	5197475	[T/A]	Ca00608	Intron	Uncharacterised protein family,carbohydratekinase related
CWSNP458	Ca-Kabuli-Chr1	5200250	[T/G]	Ca00608	Intron	Uncharacterised protein family,carbohydratekinase related
CWSNP459	Ca-Kabuli-Chr1	5200289	[G/T]	Ca00608	Intron	Uncharacterised protein family,carbohydratekinase related
CWSNP460	Ca-Kabuli-Chr1	5249839	[G/A]	Ca00613	Non-Synonymous-CDS	Protein of unknown function DUF584
CWSNP461	Ca-Kabuli-Chr1	5249846	[A/C]	Ca00613	Synonymous-CDS	Protein of unknown function DUF585
CWSNP462	Ca-Kabuli-Chr1	5249868	[G/A]	Ca00613	Synonymous-CDS	Protein of unknown function DUF586
CWSNP463	Ca-Kabuli-Chr1	5288421	[A/C]	Ca00616	Synonymous-CDS	Heavy metal transport/detoxification protein
CWSNP464	Ca-Kabuli-Chr1	5321398	[A/G]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP465	Ca-Kabuli-Chr1	5430700	[A/C]	Ca00628	Synonymous-CDS	Protein of unknown function DUF584
CWSNP466	Ca-Kabuli-Chr1	5430703	[T/G]	Ca00628	Synonymous-CDS	Protein of unknown function DUF584
CWSNP467	Ca-Kabuli-Chr1	5430809	[G/A]	Ca00628	Non-Synonymous-CDS	Protein of unknown function DUF584
CWSNP468	Ca-Kabuli-Chr1	5444130	[A/C]	-	Intergenic	-
CWSNP469	Ca-Kabuli-Chr1	5444142	[A/T]	-	Intergenic	-
CWSNP470	Ca-Kabuli-Chr1	5487535	[A/G]	Ca00634	Non-Synonymous-CDS	-
CWSNP471	Ca-Kabuli-Chr1	5489806	[C/G]	Ca00634	Intron	-
CWSNP472	Ca-Kabuli-Chr1	5637388	[T/A]	-	URR	-
CWSNP473	Ca-Kabuli-Chr1	5637442	[C/T]	-	URR	-
CWSNP474	Ca-Kabuli-Chr1	5666178	[A/C]	Ca00656	Synonymous-CDS	DNA-binding WRKY
CWSNP475	Ca-Kabuli-Chr1	5666217	[C/A]	Ca00656	Non-Synonymous-CDS	DNA-binding WRKY
CWSNP476	Ca-Kabuli-Chr1	5666260	[T/G]	Ca00656	Synonymous-CDS	DNA-binding WRKY
CWSNP477	Ca-Kabuli-Chr1	5666266	[T/G]	Ca00656	Non-Synonymous-CDS	DNA-binding WRKY
CWSNP478	Ca-Kabuli-Chr1	5666263	[T/G]	Ca00656	Synonymous-CDS	DNA-binding WRKY
CWSNP479	Ca-Kabuli-Chr1	5666355	[T/G]	Ca00656	Non-Synonymous-CDS	DNA-binding WRKY
CWSNP480	Ca-Kabuli-Chr1	5667605	[G/A]	Ca00656	Synonymous-CDS	DNA-binding WRKY

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP481	Ca-Kabuli-Chr1	5706858	[A/T]	-	Intergenic	-
CWSNP482	Ca-Kabuli-Chr1	5706961	[G/T]	-	Intergenic	-
CWSNP483	Ca-Kabuli-Chr1	5706948	[A/T]	-	Intergenic	-
CWSNP484	Ca-Kabuli-Chr1	5706944	[T/G]	-	Intergenic	-
CWSNP485	Ca-Kabuli-Chr1	5706920	[G/A]	-	Intergenic	-
CWSNP486	Ca-Kabuli-Chr1	5721616	[A/T]	Ca00664	Intron	Protein kinase, catalytic domain
CWSNP487	Ca-Kabuli-Chr1	5749456	[C/T]	-	Intergenic	-
CWSNP488	Ca-Kabuli-Chr1	5791118	[T/G]	-	DRR	-
CWSNP489	Ca-Kabuli-Chr1	5796146	[C/T]	-	DRR	-
CWSNP490	Ca-Kabuli-Chr1	5796886	[A/G]	Ca00670	Intron	UBX
CWSNP491	Ca-Kabuli-Chr1	5807492	[T/C]	-	Intergenic	-
CWSNP492	Ca-Kabuli-Chr1	5812283	[G/T]	-	URR	-
CWSNP493	Ca-Kabuli-Chr1	5862565	[C/T]	-	Intergenic	-
CWSNP494	Ca-Kabuli-Chr1	6011697	[T/G]	-	Intergenic	-
CWSNP495	Ca-Kabuli-Chr1	6011689	[G/A]	-	Intergenic	-
CWSNP496	Ca-Kabuli-Chr1	6011761	[C/T]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP497	Ca-Kabuli-Chr1	6066972	[C/T]	Ca00693	Intron	RHO protein GDP dissociation inhibitor
CWSNP498	Ca-Kabuli-Chr1	6066936	[A/G]	Ca00693	Intron	RHO protein GDP dissociation inhibitor
CWSNP499	Ca-Kabuli-Chr1	6066933	[C/T]	Ca00693	Intron	RHO protein GDP dissociation inhibitor
CWSNP500	Ca-Kabuli-Chr1	6067846	[T/C]	Ca00693	Intron	RHO protein GDP dissociation inhibitor
CWSNP501	Ca-Kabuli-Chr1	6088283	[C/T]	-	Intergenic	-
CWSNP502	Ca-Kabuli-Chr1	6126772	[G/A]	Ca00697	Intron	Ribosomal proteinL14b/L23e
CWSNP503	Ca-Kabuli-Chr1	6257653	[C/G]	Ca07885	Intron	Thymidinekinase
CWSNP504	Ca-Kabuli-Chr1	6257712	[A/T]	Ca07885	Intron	Thymidinekinase
CWSNP505	Ca-Kabuli-Chr1	6262461	[A/G]	-	DRR	-
CWSNP506	Ca-Kabuli-Chr1	6262529	[T/G]	-	DRR	-
CWSNP507	Ca-Kabuli-Chr1	6262577	[A/G]	-	DRR	-
CWSNP508	Ca-Kabuli-Chr1	6278572	[T/C]	-	Intergenic	-
CWSNP509	Ca-Kabuli-Chr1	6278625	[T/C]	-	Intergenic	-
CWSNP510	Ca-Kabuli-Chr1	6279644	[G/T]	-	Intergenic	-
CWSNP511	Ca-Kabuli-Chr1	6296858	[G/A]	Ca07890	Intron	Uncharacterised protein familyUPF0497,trans-membraneplant
CWSNP512	Ca-Kabuli-Chr1	6296986	[C/A]	Ca07890	Intron	Uncharacterised protein familyUPF0497,trans-membraneplant

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP513	Ca-Kabuli-Chr1	6315337	[G/T]	Ca07892	Intron	Zinc finger,ZZ-type
CWSNP514	Ca-Kabuli-Chr1	6315402	[C/T]	Ca07892	Intron	Zinc finger,ZZ-type
CWSNP515	Ca-Kabuli-Chr1	6315399	[T/G]	Ca07892	Intron	Zinc finger,ZZ-type
CWSNP516	Ca-Kabuli-Chr1	6315397	[C/G]	Ca07892	Intron	Zinc finger,ZZ-type
CWSNP517	Ca-Kabuli-Chr1	6328801	[T/A]	-	Intergenic	-
CWSNP518	Ca-Kabuli-Chr1	6328957	[C/T]	-	Intergenic	-
CWSNP519	Ca-Kabuli-Chr1	6328963	[A/G]	-	Intergenic	-
CWSNP520	Ca-Kabuli-Chr1	6329814	[T/A]	Ca07893	Synonymous-CDS	Bromo adjacent homology (BAH) domain
CWSNP521	Ca-Kabuli-Chr1	6329847	[A/G]	Ca07893	Synonymous-CDS	Bromo adjacent homology (BAH) domain
CWSNP522	Ca-Kabuli-Chr1	6381191	[T/C]	-	Intergenic	-
CWSNP523	Ca-Kabuli-Chr1	6390541	[T/A]	-	Intergenic	-
CWSNP524	Ca-Kabuli-Chr1	6390849	[G/A]	-	URR	-
CWSNP525	Ca-Kabuli-Chr1	6391017	[T/C]	-	URR	-
CWSNP526	Ca-Kabuli-Chr1	6433592	[T/G]	-	Intergenic	-
CWSNP527	Ca-Kabuli-Chr1	6433826	[G/A]	Ca07907	Synonymous-CDS	NUDIX hydrolase domain
CWSNP528	Ca-Kabuli-Chr1	6433838	[C/T]	Ca07907	Synonymous-CDS	NUDIX hydrolase domain

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP529	Ca-Kabuli-Chr1	6433841	[C/T]	Ca07907	Synonymous-CDS	NUDIX hydrolase domain
CWSNP530	Ca-Kabuli-Chr1	6433883	[A/G]	Ca07907	Synonymous-CDS	NUDIX hydrolase domain
CWSNP531	Ca-Kabuli-Chr1	6433934	[T/A]	Ca07907	Synonymous-CDS	NUDIX hydrolase domain
CWSNP532	Ca-Kabuli-Chr1	6433925	[C/T]	Ca07907	Synonymous-CDS	NUDIX hydrolase domain
CWSNP533	Ca-Kabuli-Chr1	6478736	[A/G]	-	Intergenic	-
CWSNP534	Ca-Kabuli-Chr1	6478758	[A/G]	-	Intergenic	-
CWSNP535	Ca-Kabuli-Chr1	6486446	[G/C]	Ca07911	Intron	-
CWSNP536	Ca-Kabuli-Chr1	6490978	[A/T]	Ca07911	Intron	-
CWSNP537	Ca-Kabuli-Chr1	6491008	[A/T]	Ca07911	Intron	-
CWSNP538	Ca-Kabuli-Chr1	6491030	[T/G]	Ca07911	Intron	-
CWSNP539	Ca-Kabuli-Chr1	6491017	[T/C]	Ca07911	Intron	-
CWSNP540	Ca-Kabuli-Chr1	6521670	[C/T]	-	DRR	-
CWSNP541	Ca-Kabuli-Chr1	6521673	[G/A]	-	DRR	-
CWSNP542	Ca-Kabuli-Chr1	6521856	[A/G]	-	DRR	-
CWSNP543	Ca-Kabuli-Chr1	6521859	[T/A]	-	DRR	-
CWSNP544	Ca-Kabuli-Chr1	6521970	[C/T]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP545	Ca-Kabuli-Chr1	6540056	[C/T]	-	Intergenic	-
CWSNP546	Ca-Kabuli-Chr1	6540170	[G/A]	-	Intergenic	-
CWSNP547	Ca-Kabuli-Chr1	6553107	[A/C]	Ca07920	Intron	-
CWSNP548	Ca-Kabuli-Chr1	6564716	[C/T]	Ca07921	Synonymous-CDS	Polyprenylsynthetase
CWSNP549	Ca-Kabuli-Chr1	6591506	[G/C]	-	DRR	-
CWSNP550	Ca-Kabuli-Chr1	6599917	[C/A]	-	Intergenic	-
CWSNP551	Ca-Kabuli-Chr1	6634482	[G/C]	-	DRR	-
CWSNP552	Ca-Kabuli-Chr1	6635366	[T/C]	-	DRR	-
CWSNP553	Ca-Kabuli-Chr1	6679253	[A/G]	Ca07932	Synonymous-CDS	WD40 repeat
CWSNP554	Ca-Kabuli-Chr1	6679329	[A/G]	Ca07932	Non-Synonymous-CDS	WD40 repeat
CWSNP555	Ca-Kabuli-Chr1	6803364	[G/A]	-	URR	-
CWSNP556	Ca-Kabuli-Chr1	6804110	[A/T]	-	URR	-
CWSNP557	Ca-Kabuli-Chr1	6849437	[C/T]	Ca07951	Intron	Vps53-like,N-terminal
CWSNP558	Ca-Kabuli-Chr1	6849512	[G/C]	Ca07951	Intron	Vps53-like,N-terminal
CWSNP559	Ca-Kabuli-Chr1	6880837	[A/G]	-	URR	-
CWSNP560	Ca-Kabuli-Chr1	6904278	[A/C]	Ca07956	Non-Synonymous-CDS	Protein kinase, catalytic domain

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP561	Ca-Kabuli-Chr1	6904338	[C/T]	Ca07956	Intron	Protein kinase, catalytic domain
CWSNP562	Ca-Kabuli-Chr1	7050825	[G/A]	-	Intergenic	-
CWSNP563	Ca-Kabuli-Chr1	7050958	[C/T]	-	Intergenic	-
CWSNP564	Ca-Kabuli-Chr1	7050953	[C/T]	-	Intergenic	-
CWSNP565	Ca-Kabuli-Chr1	7104985	[G/T]	-	Intergenic	-
CWSNP566	Ca-Kabuli-Chr1	7127843	[A/G]	Ca07973	Synonymous-CDS	Sec8 exocystcomplex component specific domain
CWSNP567	Ca-Kabuli-Chr1	7136677	[T/C]	-	Intergenic	-
CWSNP568	Ca-Kabuli-Chr1	7147651	[T/A]	Ca07974	Intron	-
CWSNP569	Ca-Kabuli-Chr1	7155344	[A/G]	Ca07974	Intron	-
CWSNP570	Ca-Kabuli-Chr1	7157057	[A/C]	Ca07974	Intron	-
CWSNP571	Ca-Kabuli-Chr1	7157112	[T/C]	Ca07974	Intron	-
CWSNP572	Ca-Kabuli-Chr1	7160649	[T/C]	Ca07974	Intron	-
CWSNP573	Ca-Kabuli-Chr1	7160695	[G/A]	Ca07974	Intron	-
CWSNP574	Ca-Kabuli-Chr1	7160754	[A/T]	Ca07974	Intron	-
CWSNP575	Ca-Kabuli-Chr1	7160781	[A/C]	Ca07974	Intron	-
CWSNP576	Ca-Kabuli-Chr1	7160773	[G/A]	Ca07974	Intron	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP577	Ca-Kabuli-Chr1	7184813	[A/C]	Ca07975	Synonymous-CDS	Root hair defective 3GTP-binding
CWSNP578	Ca-Kabuli-Chr1	7187934	[A/G]	-	Intergenic	-
CWSNP579	Ca-Kabuli-Chr1	7196570	[T/C]	-	URR	-
CWSNP580	Ca-Kabuli-Chr1	7196601	[T/C]	-	URR	-
CWSNP581	Ca-Kabuli-Chr1	7231750	[A/C]	-	DRR	-
CWSNP582	Ca-Kabuli-Chr1	7325164	[T/A]	-	DRR	-
CWSNP583	Ca-Kabuli-Chr1	7417788	[G/A]	Ca07994	Intron	Homeobox
CWSNP584	Ca-Kabuli-Chr1	7467280	[A/G]	Ca07999	Intron	AMP-dependent synthetase/ligase
CWSNP585	Ca-Kabuli-Chr1	7478022	[G/A]	Ca08000	Synonymous-CDS	-
CWSNP586	Ca-Kabuli-Chr1	7478046	[T/G]	Ca08000	Non-Synonymous-CDS	-
CWSNP587	Ca-Kabuli-Chr1	7486102	[C/T]	-	URR	-
CWSNP588	Ca-Kabuli-Chr1	7486273	[T/C]	-	URR	-
CWSNP589	Ca-Kabuli-Chr1	7486282	[G/A]	-	URR	-
CWSNP590	Ca-Kabuli-Chr1	7497334	[C/A]	-	Intergenic	-
CWSNP591	Ca-Kabuli-Chr1	7497362	[T/C]	-	Intergenic	-
CWSNP592	Ca-Kabuli-Chr1	7500494	[T/G]	Ca08003	Synonymous-CDS	Protein kinase, catalytic domain

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP593	Ca-Kabuli-Chr1	7500524	[T/C]	Ca08003	Synonymous-CDS	Protein kinase, catalytic domain
CWSNP594	Ca-Kabuli-Chr1	7505779	[A/T]	-	DRR	-
CWSNP595	Ca-Kabuli-Chr1	7515002	[T/C]	-	URR	-
CWSNP596	Ca-Kabuli-Chr1	7515605	[T/C]	-	URR	-
CWSNP597	Ca-Kabuli-Chr1	7515578	[A/C]	-	URR	-
CWSNP598	Ca-Kabuli-Chr1	7557751	[T/G]	Ca08009	Intron	Histidinoldehydrogenase, conserved site
CWSNP599	Ca-Kabuli-Chr1	7557811	[A/T]	Ca08009	Intron	Histidinoldehydrogenase, conserved site
CWSNP600	Ca-Kabuli-Chr1	7690613	[T/G]	Ca08021	Non-Synonymous-CDS	-
CWSNP601	Ca-Kabuli-Chr1	7690620	[T/G]	Ca08021	Non-Synonymous-CDS	-
CWSNP602	Ca-Kabuli-Chr1	7690625	[A/C]	Ca08021	Synonymous-CDS	-
CWSNP603	Ca-Kabuli-Chr1	7695844	[T/C]	Ca08021	Intron	-
CWSNP604	Ca-Kabuli-Chr1	7811388	[C/T]	-	DRR	-
CWSNP605	Ca-Kabuli-Chr1	7925666	[A/C]	Ca08042	Synonymous-CDS	Biopterin transport-related protein BT1
CWSNP606	Ca-Kabuli-Chr1	7925774	[C/T]	Ca08042	Synonymous-CDS	Biopterin transport-related protein BT1
CWSNP607	Ca-Kabuli-Chr1	7969202	[A/C]	-	DRR	-
CWSNP608	Ca-Kabuli-Chr1	8036666	[C/T]	Ca08051	Intron	NAD-dependent epimerase/dehydratase

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP609	Ca-Kabuli-Chr1	8036706	[A/G]	Ca08051	Intron	NAD-dependent epimerase/dehydratase
CWSNP610	Ca-Kabuli-Chr1	8036917	[T/G]	Ca08051	Intron	NAD-dependent epimerase/dehydratase
CWSNP611	Ca-Kabuli-Chr1	8036903	[A/T]	Ca08051	Intron	NAD-dependent epimerase/dehydratase
CWSNP612	Ca-Kabuli-Chr1	8107967	[A/C]	Ca08057	Non-Synonymous-CDS	RNA helicase, ATP-dependent, DEAD-box, conserved site
CWSNP613	Ca-Kabuli-Chr1	8108014	[C/T]	Ca08057	Non-Synonymous-CDS	RNA helicase, ATP-dependent, DEAD-box, conserved site
CWSNP614	Ca-Kabuli-Chr1	8111588	[G/A]	Ca08057	Intron	RNA helicase, ATP-dependent, DEAD-box, conserved site
CWSNP615	Ca-Kabuli-Chr1	8112343	[C/T]	Ca08057	Synonymous-CDS	RNA helicase, ATP-dependent, DEAD-box, conserved site
CWSNP616	Ca-Kabuli-Chr1	8113235	[G/T]	Ca08057	Non-Synonymous-CDS	RNA helicase, ATP-dependent, DEAD-box, conserved site
CWSNP617	Ca-Kabuli-Chr1	8113449	[T/A]	Ca08057	Synonymous-CDS	RNA helicase, ATP-dependent, DEAD-box, conserved site
CWSNP618	Ca-Kabuli-Chr1	8113403	[A/T]	Ca08057	Non-Synonymous-CDS	RNA helicase, ATP-dependent, DEAD-box, conserved site
CWSNP619	Ca-Kabuli-Chr1	8113398	[C/G]	Ca08057	Non-Synonymous-CDS	RNA helicase, ATP-dependent, DEAD-box, conserved site
CWSNP620	Ca-Kabuli-Chr1	8123033	[A/G]	-	URR	-
CWSNP621	Ca-Kabuli-Chr1	8123257	[A/G]	-	URR	-
CWSNP622	Ca-Kabuli-Chr1	8123481	[A/G]	-	URR	-
CWSNP623	Ca-Kabuli-Chr1	8134368	[T/C]	-	DRR	-
CWSNP624	Ca-Kabuli-Chr1	8192580	[T/C]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP625	Ca-Kabuli-Chr1	8464621	[C/G]	Ca08082	Intron	-
CWSNP626	Ca-Kabuli-Chr1	8665705	[T/G]	Ca02944	Intron	ATPase,P-type,K/Mg/Cd/Cu/Zn/Na/Ca/Na/H-transporter
CWSNP627	Ca-Kabuli-Chr1	8697177	[G/T]	Ca02942	Intron	Sodium/calcium exchanger membrane region
CWSNP628	Ca-Kabuli-Chr1	8735740	[G/T]	Ca02937	Intron	Ubiquitin-associated/translation elongation factor EF1B, N-terminal
CWSNP629	Ca-Kabuli-Chr1	8735727	[G/C]	Ca02937	Intron	Ubiquitin-associated/translation elongation factor EF1B, N-terminal
CWSNP630	Ca-Kabuli-Chr1	8736733	[G/A]	Ca02937	Intron	Ubiquitin-associated/translation elongation factor EF1B, N-terminal
CWSNP631	Ca-Kabuli-Chr1	8736711	[G/T]	Ca02937	Intron	Ubiquitin-associated/translation elongation factor EF1B, N-terminal
CWSNP632	Ca-Kabuli-Chr1	8737380	[A/G]	Ca02937	Synonymous-CDS	Ubiquitin-associated/translation elongation factor EF1B, N-terminal
CWSNP633	Ca-Kabuli-Chr1	8767122	[T/A]	Ca02933	Intron	Pentatrigo peptide repeat
CWSNP634	Ca-Kabuli-Chr1	8767121	[A/T]	Ca02933	Intron	Pentatrigo peptide repeat
CWSNP635	Ca-Kabuli-Chr1	8799685	[T/G]	-	Intergenic	-
CWSNP636	Ca-Kabuli-Chr1	8799701	[T/C]	-	Intergenic	-
CWSNP637	Ca-Kabuli-Chr1	8799708	[T/C]	-	Intergenic	-
CWSNP638	Ca-Kabuli-Chr1	8809188	[T/A]	Ca02928	Intron	ABC transporter, transmembrane domain
CWSNP639	Ca-Kabuli-Chr1	8809191	[C/T]	Ca02928	Intron	ABC transporter, transmembrane domain
CWSNP640	Ca-Kabuli-Chr1	8809295	[A/T]	Ca02928	Intron	ABC transporter, transmembrane domain

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP641	Ca-Kabuli-Chr1	8809517	[C/G]	Ca02928	Intron	ABC transporter, transmembrane domain
CWSNP642	Ca-Kabuli-Chr1	8822375	[G/A]	-	DRR	-
CWSNP643	Ca-Kabuli-Chr1	8822366	[T/A]	-	DRR	-
CWSNP644	Ca-Kabuli-Chr1	8852863	[G/T]	-	Intergenic	-
CWSNP645	Ca-Kabuli-Chr1	8852928	[T/A]	-	Intergenic	-
CWSNP646	Ca-Kabuli-Chr1	8852981	[C/A]	-	Intergenic	-
CWSNP647	Ca-Kabuli-Chr1	8852943	[C/A]	-	Intergenic	-
CWSNP648	Ca-Kabuli-Chr1	8853010	[A/G]	-	Intergenic	-
CWSNP649	Ca-Kabuli-Chr1	8854211	[G/T]	Ca02923	Intron	Natural resistance-associated macrophage protein
CWSNP650	Ca-Kabuli-Chr1	8891438	[T/G]	Ca02918	Synonymous-CDS	ATPase ,P-type, H+transporting proton pump
CWSNP651	Ca-Kabuli-Chr1	8891485	[T/G]	Ca02918	Intron	ATPase ,P-type, H+transporting proton pump
CWSNP652	Ca-Kabuli-Chr1	8893985	[G/A]	-	DRR	-
CWSNP653	Ca-Kabuli-Chr1	8901769	[C/A]	-	DRR	-
CWSNP654	Ca-Kabuli-Chr1	8901842	[T/A]	-	DRR	-
CWSNP655	Ca-Kabuli-Chr1	8941004	[A/C]	-	Intergenic	-
CWSNP656	Ca-Kabuli-Chr1	8941029	[G/A]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP657	Ca-Kabuli-Chr1	8941031	[G/C]	-	Intergenic	-
CWSNP658	Ca-Kabuli-Chr1	8942137	[T/C]	Ca02909	Non-Synonymous-CDS	Zinc finger,UBP-type
CWSNP659	Ca-Kabuli-Chr1	8942131	[T/C]	Ca02909	Non-Synonymous-CDS	Zinc finger,UBP-type
CWSNP660	Ca-Kabuli-Chr1	8942198	[A/G]	Ca02909	Synonymous-CDS	Zinc finger,UBP-type
CWSNP661	Ca-Kabuli-Chr1	8942179	[C/G]	Ca02909	Non-Synonymous-CDS	Zinc finger,UBP-type
CWSNP662	Ca-Kabuli-Chr1	8949723	[G/T]	-	URR	-
CWSNP663	Ca-Kabuli-Chr1	8960630	[T/C]	-	DRR	-
CWSNP664	Ca-Kabuli-Chr1	8969321	[C/T]	Ca02904	Intron	-
CWSNP665	Ca-Kabuli-Chr1	8971718	[C/G]	Ca02904	Non-Synonymous-CDS	-
CWSNP666	Ca-Kabuli-Chr1	8976169	[A/T]	Ca02904	Non-Synonymous-CDS	-
CWSNP667	Ca-Kabuli-Chr1	9031825	[G/T]	-	Intergenic	-
CWSNP668	Ca-Kabuli-Chr1	9035744	[G/A]	-	URR	-
CWSNP669	Ca-Kabuli-Chr1	9040419	[T/A]	-	DRR	-
CWSNP670	Ca-Kabuli-Chr1	9048675	[A/T]	-	DRR	-
CWSNP671	Ca-Kabuli-Chr1	9065933	[T/C]	-	Intergenic	-
CWSNP672	Ca-Kabuli-Chr1	9093812	[C/G]	-	URR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP673	Ca-Kabuli-Chr1	9093964	[T/A]	-	URR	-
CWSNP674	Ca-Kabuli-Chr1	9097885	[A/G]	-	Intergenic	-
CWSNP675	Ca-Kabuli-Chr1	9097881	[C/G]	-	Intergenic	-
CWSNP676	Ca-Kabuli-Chr1	9097879	[C/A]	-	Intergenic	-
CWSNP677	Ca-Kabuli-Chr1	9097878	[A/G]	-	Intergenic	-
CWSNP678	Ca-Kabuli-Chr1	9097877	[C/A]	-	Intergenic	-
CWSNP679	Ca-Kabuli-Chr1	9097869	[G/T]	-	Intergenic	-
CWSNP680	Ca-Kabuli-Chr1	9097949	[A/C]	-	Intergenic	-
CWSNP681	Ca-Kabuli-Chr1	9098003	[C/T]	-	Intergenic	-
CWSNP682	Ca-Kabuli-Chr1	9105432	[C/T]	Ca02885	Synonymous-CDS	Initiation factor2B-related
CWSNP683	Ca-Kabuli-Chr1	9195312	[G/A]	-	DRR	-
CWSNP684	Ca-Kabuli-Chr1	9237766	[T/G]	-	Intergenic	-
CWSNP685	Ca-Kabuli-Chr1	9237813	[G/T]	-	Intergenic	-
CWSNP686	Ca-Kabuli-Chr1	9269888	[T/A]	Ca02867	Non-Synonymous-CDS	Nucleoporininte racting component Nup93/Nic96
CWSNP687	Ca-Kabuli-Chr1	9603896	[T/A]	Ca02837	Synonymous-CDS	WD40 repeat
CWSNP688	Ca-Kabuli-Chr1	9634823	[C/T]	Ca02835	Synonymous-CDS	Peptidase C14,caspasenon-catalytic subunit p10

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP689	Ca-Kabuli-Chr1	9659316	[C/T]	-	DRR	-
CWSNP690	Ca-Kabuli-Chr1	9705162	[A/C]	-	DRR	-
CWSNP691	Ca-Kabuli-Chr1	10191578	[A/C]	-	Intergenic	-
CWSNP692	Ca-Kabuli-Chr1	10213111	[T/C]	-	DRR	-
CWSNP693	Ca-Kabuli-Chr1	10364986	[C/G]	-	Intergenic	-
CWSNP694	Ca-Kabuli-Chr1	10365024	[G/A]	-	Intergenic	-
CWSNP695	Ca-Kabuli-Chr1	10365029	[T/A]	-	DRR	-
CWSNP696	Ca-Kabuli-Chr1	10377700	[G/C]	Ca02740	Intron	Glycosidehydrolase,family35
CWSNP697	Ca-Kabuli-Chr1	10377698	[T/C]	Ca02740	Intron	Glycosidehydrolase,family35
CWSNP698	Ca-Kabuli-Chr1	10377691	[T/C]	Ca02740	Intron	Glycosidehydrolase,family35
CWSNP699	Ca-Kabuli-Chr1	10377860	[T/A]	Ca02740	Intron	Glycosidehydrolase,family35
CWSNP700	Ca-Kabuli-Chr1	10527733	[A/G]	-	DRR	-
CWSNP701	Ca-Kabuli-Chr1	10601318	[T/G]	Ca02710	Non-Synonymous-CDS	Pentatrigo peptide repeat
CWSNP702	Ca-Kabuli-Chr1	10623359	[T/G]	-	Intergenic	-
CWSNP703	Ca-Kabuli-Chr1	10655633	[G/T]	Ca02700	Intron	Protein of unknown function DUF3755
CWSNP704	Ca-Kabuli-Chr1	10710672	[T/G]	-	DRR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP705	Ca-Kabuli-Chr1	10713001	[T/A]	-	Intergenic	-
CWSNP706	Ca-Kabuli-Chr1	10761609	[G/T]	-	DRR	-
CWSNP707	Ca-Kabuli-Chr1	10837203	[C/T]	-	DRR	-
CWSNP708	Ca-Kabuli-Chr1	10861332	[C/G]	Ca02673	Intron	Glycosidehydrolase,family1
CWSNP709	Ca-Kabuli-Chr1	10861326	[T/G]	Ca02673	Intron	Glycosidehydrolase,family1
CWSNP710	Ca-Kabuli-Chr1	10869336	[G/A]	Ca02671	Intron	Oxidoreductase,N-terminal
CWSNP711	Ca-Kabuli-Chr1	11103176	[T/C]	-	DRR	-
CWSNP712	Ca-Kabuli-Chr1	11193334	[G/C]	-	DRR	-
CWSNP713	Ca-Kabuli-Chr1	11225828	[T/C]	-	URR	-
CWSNP714	Ca-Kabuli-Chr1	11227614	[T/C]	-	URR	-
CWSNP715	Ca-Kabuli-Chr1	11230109	[T/C]	Ca02632	Non-Synonymous-CDS	Pumilio RNA-binding repeat
CWSNP716	Ca-Kabuli-Chr1	11230115	[G/C]	Ca02632	Non-Synonymous-CDS	Pumilio RNA-binding repeat
CWSNP717	Ca-Kabuli-Chr1	11230116	[T/C]	Ca02632	Synonymous-CDS	Pumilio RNA-binding repeat
CWSNP718	Ca-Kabuli-Chr1	11230118	[A/T]	Ca02632	Non-Synonymous-CDS	Pumilio RNA-binding repeat
CWSNP719	Ca-Kabuli-Chr1	11230125	[A/C]	Ca02632	Synonymous-CDS	Pumilio RNA-binding repeat
CWSNP720	Ca-Kabuli-Chr1	11230126	[G/T]	Ca02632	Non-Synonymous-CDS	Pumilio RNA-binding repeat

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP721	Ca-Kabuli-Chr1	11230127	[G/T]	Ca02632	Non-Synonymous-CDS	Pumilio RNA-binding repeat
CWSNP722	Ca-Kabuli-Chr1	11230128	[T/G]	Ca02632	Synonymous-CDS	Pumilio RNA-binding repeat
CWSNP723	Ca-Kabuli-Chr1	11230133	[G/A]	Ca02632	Non-Synonymous-CDS	Pumilio RNA-binding repeat
CWSNP724	Ca-Kabuli-Chr1	11230998	[A/T]	Ca02632	Synonymous-CDS	Pumilio RNA-binding repeat
CWSNP725	Ca-Kabuli-Chr1	11231064	[A/G]	Ca02632	Synonymous-CDS	Pumilio RNA-binding repeat
CWSNP726	Ca-Kabuli-Chr1	11231077	[T/C]	Ca02632	Non-Synonymous-CDS	Pumilio RNA-binding repeat
CWSNP727	Ca-Kabuli-Chr1	11235211	[C/T]	-	URR	-
CWSNP728	Ca-Kabuli-Chr1	11265367	[T/C]	-	Intergenic	-
CWSNP729	Ca-Kabuli-Chr1	11277703	[T/A]	-	DRR	-
CWSNP730	Ca-Kabuli-Chr1	11277964	[C/T]	-	DRR	-
CWSNP731	Ca-Kabuli-Chr1	11284183	[T/C]	-	Intergenic	-
CWSNP732	Ca-Kabuli-Chr1	11285192	[G/A]	Ca02625	Synonymous-CDS	Transcription factor GRAS
CWSNP733	Ca-Kabuli-Chr1	11285247	[T/C]	Ca02625	Synonymous-CDS	Transcription factor GRAS
CWSNP734	Ca-Kabuli-Chr1	11291516	[G/A]	-	URR	-
CWSNP735	Ca-Kabuli-Chr1	11291741	[A/C]	Ca02624	Intron	SANT domain, DNA binding
CWSNP736	Ca-Kabuli-Chr1	11291740	[T/A]	Ca02624	Intron	SANT domain, DNA binding

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP737	Ca-Kabuli-Chr1	11291737	[C/A]	Ca02624	Intron	SANT domain, DNA binding
CWSNP738	Ca-Kabuli-Chr1	11319264	[A/C]	-	DRR	-
CWSNP739	Ca-Kabuli-Chr1	11321670	[G/C]	-	Intergenic	-
CWSNP740	Ca-Kabuli-Chr1	11324018	[C/A]	-	DRR	-
CWSNP741	Ca-Kabuli-Chr1	11324023	[C/T]	-	DRR	-
CWSNP742	Ca-Kabuli-Chr1	11324035	[C/T]	-	DRR	-
CWSNP743	Ca-Kabuli-Chr1	11324050	[G/T]	-	DRR	-
CWSNP744	Ca-Kabuli-Chr1	11342388	[T/C]	-	DRR	-
CWSNP745	Ca-Kabuli-Chr1	11361588	[T/G]	Ca02617	Non-Synonymous-CDS	Protein kinase, catalytic domain
CWSNP746	Ca-Kabuli-Chr1	11361583	[T/C]	Ca02617	Synonymous-CDS	Protein kinase, catalytic domain
CWSNP747	Ca-Kabuli-Chr1	11405015	[A/G]	Ca02611	Non-Synonymous-CDS	Protein kinase, catalytic domain
CWSNP748	Ca-Kabuli-Chr1	11502148	[C/A]	-	DRR	-
CWSNP749	Ca-Kabuli-Chr1	11514888	[T/A]	Ca02599	Intron	Histone H2A
CWSNP750	Ca-Kabuli-Chr1	11522875	[C/T]	Ca02598	Synonymous-CDS	Histone H2A
CWSNP751	Ca-Kabuli-Chr1	11601347	[T/C]	Ca02586	Intron	RNA recognition motif domain
CWSNP752	Ca-Kabuli-Chr1	11624419	[C/G]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP753	Ca-Kabuli-Chr1	11624464	[C/T]	-	Intergenic	-
CWSNP754	Ca-Kabuli-Chr1	11669794	[T/G]	Ca02583	Synonymous-CDS	Ankyrin repeat
CWSNP755	Ca-Kabuli-Chr1	11673478	[A/C]	-	Intergenic	-
CWSNP756	Ca-Kabuli-Chr1	11677097	[C/A]	-	Intergenic	-
CWSNP757	Ca-Kabuli-Chr1	11685769	[A/G]	Ca02582	Synonymous-CDS	Protein kinase, catalytic domain
CWSNP758	Ca-Kabuli-Chr1	11685790	[T/C]	Ca02582	Synonymous-CDS	Protein kinase, catalytic domain
CWSNP759	Ca-Kabuli-Chr1	11793443	[C/A]	Ca02573	Non-Synonymous-CDS	Alcohol dehydrogenase superfamily, zinc-containing
CWSNP760	Ca-Kabuli-Chr1	11822305	[G/T]	-	Intergenic	-
CWSNP761	Ca-Kabuli-Chr1	11822309	[C/A]	-	Intergenic	-
CWSNP762	Ca-Kabuli-Chr1	12189822	[T/G]	Ca02538	Synonymous-CDS	Double-stranded RNA-binding
CWSNP763	Ca-Kabuli-Chr1	12326230	[A/G]	-	URR	-
CWSNP764	Ca-Kabuli-Chr1	12413012	[G/T]	Ca02509	Non-Synonymous-CDS	-
CWSNP765	Ca-Kabuli-Chr1	12413016	[T/A]	Ca02509	Non-Synonymous-CDS	-
CWSNP766	Ca-Kabuli-Chr1	12413025	[G/C]	Ca02509	Non-Synonymous-CDS	-
CWSNP767	Ca-Kabuli-Chr1	12588525	[A/G]	Ca02496	Intron	-
CWSNP768	Ca-Kabuli-Chr1	12688435	[A/C]	-	DRR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP769	Ca-Kabuli-Chr1	12736353	[A/C]	-	DRR	-
CWSNP770	Ca-Kabuli-Chr1	12800610	[A/C]	-	URR	-
CWSNP771	Ca-Kabuli-Chr1	12800607	[T/A]	-	URR	-
CWSNP772	Ca-Kabuli-Chr1	12800601	[T/A]	-	URR	-
CWSNP773	Ca-Kabuli-Chr1	12800597	[G/T]	-	URR	-
CWSNP774	Ca-Kabuli-Chr1	12845445	[A/C]	-	URR	-
CWSNP775	Ca-Kabuli-Chr1	12880408	[G/A]	-	Intergenic	-
CWSNP776	Ca-Kabuli-Chr1	12992445	[A/C]	-	Intergenic	-
CWSNP777	Ca-Kabuli-Chr1	12992423	[A/C]	-	Intergenic	-
CWSNP778	Ca-Kabuli-Chr1	12992569	[A/G]	-	Intergenic	-
CWSNP779	Ca-Kabuli-Chr1	13034708	[T/G]	-	URR	-
CWSNP780	Ca-Kabuli-Chr1	13076695	[G/A]	Ca14071	Non-Synonymous-CDS	Zinc finger,RING-type
CWSNP781	Ca-Kabuli-Chr1	13156473	[A/C]	-	Intergenic	-
CWSNP782	Ca-Kabuli-Chr1	13158244	[C/T]	-	Intergenic	-
CWSNP783	Ca-Kabuli-Chr1	13158201	[C/T]	-	Intergenic	-
CWSNP784	Ca-Kabuli-Chr1	13158192	[T/C]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP785	Ca-Kabuli-Chr1	13497572	[G/T]	Ca14116	Intron	Photosystem IIPsp29, biogenesis
CWSNP786	Ca-Kabuli-Chr1	13549635	[T/C]	Ca14121	Synonymous-CDS	Kinesin , motor domain
CWSNP787	Ca-Kabuli-Chr1	13550600	[G/A]	Ca14121	Intron	Kinesin , motor domain
CWSNP788	Ca-Kabuli-Chr1	13560364	[T/G]	-	Intergenic	-
CWSNP789	Ca-Kabuli-Chr1	13590903	[G/T]	Ca14125	Synonymous-CDS	Protein kinase, catalytic domain
CWSNP790	Ca-Kabuli-Chr1	13591177	[G/A]	Ca14125	Non-Synonymous-CDS	Protein kinase, catalytic domain
CWSNP791	Ca-Kabuli-Chr1	13591203	[C/G]	Ca14125	Non-Synonymous-CDS	Protein kinase, catalytic domain
CWSNP792	Ca-Kabuli-Chr1	13596411	[G/T]	-	DRR	-
CWSNP793	Ca-Kabuli-Chr1	13596528	[T/A]	-	DRR	-
CWSNP794	Ca-Kabuli-Chr1	13596539	[A/G]	-	DRR	-
CWSNP795	Ca-Kabuli-Chr1	13596659	[T/A]	-	DRR	-
CWSNP796	Ca-Kabuli-Chr1	13596631	[C/T]	-	DRR	-
CWSNP797	Ca-Kabuli-Chr1	13596621	[C/T]	-	DRR	-
CWSNP798	Ca-Kabuli-Chr1	13607486	[A/C]	Ca14127	Synonymous-CDS	Protein kinase, catalytic domain
CWSNP799	Ca-Kabuli-Chr1	13668759	[T/A]	-	Intergenic	-
CWSNP800	Ca-Kabuli-Chr1	13680008	[G/C]	-	URR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP801	Ca-Kabuli-Chr1	13762410	[C/A]	Ca14138	Non-Synonymous-CDS	SET domain
CWSNP802	Ca-Kabuli-Chr1	13769805	[C/T]	-	URR	-
CWSNP803	Ca-Kabuli-Chr1	13769771	[T/C]	-	URR	-
CWSNP804	Ca-Kabuli-Chr1	13782049	[C/T]	Ca14141	Synonymous-CDS	Glycosidehydrolase, family 14B, plant
CWSNP805	Ca-Kabuli-Chr1	13828744	[A/T]	Ca14148	Intron	CCT domain
CWSNP806	Ca-Kabuli-Chr1	14015757	[T/C]	Ca07128	Non-Synonymous-CDS	Ionotropic glutamate receptor
CWSNP807	Ca-Kabuli-Chr1	14237273	[A/T]	Ca07112	Non-Synonymous-CDS	Cellulo sesynthase
CWSNP808	Ca-Kabuli-Chr1	14623271	[T/C]	-	Intergenic	-
CWSNP809	Ca-Kabuli-Chr1	14916633	[G/C]	-	Intergenic	-
CWSNP810	Ca-Kabuli-Chr1	15253285	[A/G]	-	Intergenic	-
CWSNP811	Ca-Kabuli-Chr1	15319181	[T/C]	Ca07002	Synonymous-CDS	Zinc finger, PHD-type
CWSNP812	Ca-Kabuli-Chr1	15613071	[A/C]	Ca06983	Intron	Ras GTPase
CWSNP813	Ca-Kabuli-Chr1	15683101	[A/C]	-	Intergenic	-
CWSNP814	Ca-Kabuli-Chr1	15683117	[G/T]	-	Intergenic	-
CWSNP815	Ca-Kabuli-Chr1	15760638	[C/A]	Ca06971	Intron	Domain of unknown function DUF1692
CWSNP816	Ca-Kabuli-Chr1	15960425	[A/C]	Ca06958	Intron	Glycosyltransferase, family8

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP817	Ca-Kabuli-Chr1	15965278	[G/A]	-	URR	-
CWSNP818	Ca-Kabuli-Chr1	16061385	[A/G]	-	Intergenic	-
CWSNP819	Ca-Kabuli-Chr1	16099437	[T/G]	-	Intergenic	-
CWSNP820	Ca-Kabuli-Chr1	16099438	[G/A]	-	Intergenic	-
CWSNP821	Ca-Kabuli-Chr1	16099468	[G/A]	-	Intergenic	-
CWSNP822	Ca-Kabuli-Chr1	16099444	[T/C]	-	Intergenic	-
CWSNP823	Ca-Kabuli-Chr1	16099459	[T/C]	-	Intergenic	-
CWSNP824	Ca-Kabuli-Chr1	16099457	[T/C]	-	Intergenic	-
CWSNP825	Ca-Kabuli-Chr1	16104255	[G/T]	-	Intergenic	-
CWSNP826	Ca-Kabuli-Chr1	16104351	[G/A]	-	Intergenic	-
CWSNP827	Ca-Kabuli-Chr1	16104334	[T/G]	-	Intergenic	-
CWSNP828	Ca-Kabuli-Chr1	16104298	[C/T]	-	Intergenic	-
CWSNP829	Ca-Kabuli-Chr1	16114607	[C/A]	Ca06940	Non-Synonymous-CDS	General substrate transporter
CWSNP830	Ca-Kabuli-Chr1	16196930	[A/G]	-	Intergenic	-
CWSNP831	Ca-Kabuli-Chr1	16228049	[C/A]	Ca06935	Intron	NADPH-dependentFMNreductase
CWSNP832	Ca-Kabuli-Chr1	16228039	[C/A]	Ca06935	Intron	NADPH-dependentFMNreductase

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP833	Ca-Kabuli-Chr1	16329161	[G/A]	-	Intergenic	-
CWSNP834	Ca-Kabuli-Chr1	16376254	[G/T]	Ca06927	Non-Synonymous-CDS	Ubiquitin-associated/translation elongation factor EF1B, N-terminal
CWSNP835	Ca-Kabuli-Chr1	16379239	[A/G]	Ca06927	Intron	Ubiquitin-associated/translation elongation factor EF1B, N-terminal
CWSNP836	Ca-Kabuli-Chr1	16379258	[C/T]	Ca06927	Intron	Ubiquitin-associated/translation elongation factor EF1B, N-terminal
CWSNP837	Ca-Kabuli-Chr1	16454432	[C/T]	-	DRR	-
CWSNP838	Ca-Kabuli-Chr1	16493894	[A/G]	Ca06914	Synonymous-CDS	PeptidaseS54,rhomboid
CWSNP839	Ca-Kabuli-Chr1	16575167	[A/G]	Ca06906	Intron	Protein phosphatase2C-like
CWSNP840	Ca-Kabuli-Chr1	16933431	[T/G]	-	URR	-
CWSNP841	Ca-Kabuli-Chr1	17023111	[G/C]	Ca06866	Non-Synonymous-CDS	Protein kinase, catalytic domain
CWSNP842	Ca-Kabuli-Chr1	17093640	[T/C]	Ca06863	Non-Synonymous-CDS	-
CWSNP843	Ca-Kabuli-Chr1	17167019	[G/A]	-	Intergenic	-
CWSNP844	Ca-Kabuli-Chr1	17170727	[T/C]	-	URR	-
CWSNP845	Ca-Kabuli-Chr1	17194835	[C/T]	-	URR	-
CWSNP846	Ca-Kabuli-Chr1	17328721	[G/A]	Ca22781	Synonymous-CDS	Bromodomain
CWSNP847	Ca-Kabuli-Chr1	17359688	[A/C]	Ca22785	Intron	Domain of unknown function DUF625
CWSNP848	Ca-Kabuli-Chr1	17359686	[C/T]	Ca22785	Intron	Domain of unknown function DUF625

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP849	Ca-Kabuli-Chr1	17395543	[C/A]	Ca22785	Non-Synonymous-CDS	Domain of unknown function DUF625
CWSNP850	Ca-Kabuli-Chr1	17437336	[G/C]	Ca14789	Synonymous-CDS	Glycosidehydrolase,family19,catalytic
CWSNP851	Ca-Kabuli-Chr1	17983301	[T/G]	Ca14744	Synonymous-CDS	RAG1-activating protein-1-related
CWSNP852	Ca-Kabuli-Chr1	17983310	[T/G]	Ca14744	Synonymous-CDS	RAG1-activating protein-1-related
CWSNP853	Ca-Kabuli-Chr1	18064930	[C/T]	Ca14736	Non-Synonymous-CDS	-
CWSNP854	Ca-Kabuli-Chr1	18065239	[T/C]	Ca14736	Non-Synonymous-CDS	-
CWSNP855	Ca-Kabuli-Chr1	18092704	[T/G]	-	Intergenic	-
CWSNP856	Ca-Kabuli-Chr1	18131516	[T/G]	-	URR	-
CWSNP857	Ca-Kabuli-Chr1	18156634	[A/G]	-	Intergenic	-
CWSNP858	Ca-Kabuli-Chr1	18172762	[G/T]	-	DRR	-
CWSNP859	Ca-Kabuli-Chr1	18198444	[C/T]	Ca14723	Intron	-
CWSNP860	Ca-Kabuli-Chr1	18488172	[G/A]	-	URR	-
CWSNP861	Ca-Kabuli-Chr1	18763916	[G/A]	Ca17380	Intron	SET domain
CWSNP862	Ca-Kabuli-Chr1	18763911	[C/A]	Ca17380	Intron	SET domain
CWSNP863	Ca-Kabuli-Chr1	18764225	[C/T]	Ca17380	Intron	SET domain
CWSNP864	Ca-Kabuli-Chr1	18890616	[G/A]	Ca17371	Synonymous-CDS	Parallelbeta-helixrepeat

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP865	Ca-Kabuli-Chr1	18910202	[G/A]	-	DRR	-
CWSNP866	Ca-Kabuli-Chr1	19000445	[T/C]	-	Intergenic	-
CWSNP867	Ca-Kabuli-Chr1	19130894	[T/C]	-	Intergenic	-
CWSNP868	Ca-Kabuli-Chr1	19130884	[C/A]	-	Intergenic	-
CWSNP869	Ca-Kabuli-Chr1	19130883	[C/A]	-	Intergenic	-
CWSNP870	Ca-Kabuli-Chr1	19130872	[G/A]	-	Intergenic	-
CWSNP871	Ca-Kabuli-Chr1	19218067	[G/A]	-	Intergenic	-
CWSNP872	Ca-Kabuli-Chr1	19218093	[T/G]	-	Intergenic	-
CWSNP873	Ca-Kabuli-Chr1	19254161	[G/A]	Ca17349	Intron	-
CWSNP874	Ca-Kabuli-Chr1	19359812	[A/C]	Ca17340	Synonymous-CDS	Pentatrico peptide repeat
CWSNP875	Ca-Kabuli-Chr1	19359844	[C/A]	Ca17340	Non-Synonymous-CDS	Pentatrico peptide repeat
CWSNP876	Ca-Kabuli-Chr1	19526320	[T/C]	Ca08868	Non-Synonymous-CDS	Aldose1-epimerase
CWSNP877	Ca-Kabuli-Chr1	19526652	[G/T]	Ca08868	Intron	Aldose1-epimerase
CWSNP878	Ca-Kabuli-Chr1	19572408	[C/T]	Ca08866	Intron	Pumilio RNA-binding repeat
CWSNP879	Ca-Kabuli-Chr1	19572494	[G/C]	Ca08866	Intron	Pumilio RNA-binding repeat
CWSNP880	Ca-Kabuli-Chr1	19591671	[A/G]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP881	Ca-Kabuli-Chr1	19903665	[A/G]	Ca08847	Intron	RNA polymerase I associated factor, A49-like
CWSNP882	Ca-Kabuli-Chr1	19903683	[G/A]	Ca08847	Intron	RNA polymerase I associated factor, A49-like
CWSNP883	Ca-Kabuli-Chr1	19903686	[T/A]	Ca08847	Intron	RNA polymerase I associated factor, A49-like
CWSNP884	Ca-Kabuli-Chr1	19903690	[A/G]	Ca08847	Intron	RNA polymerase I associated factor, A49-like
CWSNP885	Ca-Kabuli-Chr1	19903693	[G/T]	Ca08847	Intron	RNA polymerase I associated factor, A49-like
CWSNP886	Ca-Kabuli-Chr1	19903701	[G/A]	Ca08847	Intron	RNA polymerase I associated factor, A49-like
CWSNP887	Ca-Kabuli-Chr1	19903704	[G/A]	Ca08847	Intron	RNA polymerase I associated factor, A49-like
CWSNP888	Ca-Kabuli-Chr1	20016525	[C/T]	-	Intergenic	-
CWSNP889	Ca-Kabuli-Chr1	20091291	[T/G]	Ca08834	Non-Synonymous-CDS	BRCT
CWSNP890	Ca-Kabuli-Chr1	22465555	[C/T]	-	Intergenic	-
CWSNP891	Ca-Kabuli-Chr1	22719581	[T/G]	-	Intergenic	-
CWSNP892	Ca-Kabuli-Chr1	22743361	[T/G]	Ca20613	Non-Synonymous-CDS	Nucleosome assembly protein(NAP)
CWSNP893	Ca-Kabuli-Chr1	23129094	[C/T]	Ca22358	Intron	Helicase,C-terminal
CWSNP894	Ca-Kabuli-Chr1	23131178	[A/C]	Ca22358	Intron	Helicase,C-terminal
CWSNP895	Ca-Kabuli-Chr1	23148736	[A/C]	Ca22359	Synonymous-CDS	Initiation factor2B-related
CWSNP896	Ca-Kabuli-Chr1	23149053	[A/G]	Ca22359	Synonymous-CDS	Initiation factor2B-related

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP897	Ca-Kabuli-Chr1	23149096	[A/C]	Ca22359	Non-Synonymous-CDS	Initiation factor2B-related
CWSNP898	Ca-Kabuli-Chr1	23382483	[T/A]	-	Intergenic	-
CWSNP899	Ca-Kabuli-Chr1	23941438	[G/A]	-	Intergenic	-
CWSNP900	Ca-Kabuli-Chr1	24071014	[T/G]	Ca19289	Intron	AUX/IAA protein
CWSNP901	Ca-Kabuli-Chr1	24173273	[A/G]	-	Intergenic	-
CWSNP902	Ca-Kabuli-Chr1	24450415	[T/C]	Ca18343	Intron	Ribulose-phosphate3-epimerase
CWSNP903	Ca-Kabuli-Chr1	24450511	[A/G]	Ca18343	Intron	Ribulose-phosphate3-epimerase
CWSNP904	Ca-Kabuli-Chr1	24450483	[T/G]	Ca18343	Intron	Ribulose-phosphate3-epimerase
CWSNP905	Ca-Kabuli-Chr1	24693571	[G/A]	-	DRR	-
CWSNP906	Ca-Kabuli-Chr1	24693550	[G/A]	-	DRR	-
CWSNP907	Ca-Kabuli-Chr1	24693533	[G/A]	-	DRR	-
CWSNP908	Ca-Kabuli-Chr1	24693521	[G/A]	-	DRR	-
CWSNP909	Ca-Kabuli-Chr1	24828245	[A/C]	-	DRR	-
CWSNP910	Ca-Kabuli-Chr1	24845148	[A/C]	Ca18325	Synonymous-CDS	Zinc finger,RING-type
CWSNP911	Ca-Kabuli-Chr1	25083482	[A/C]	Ca18313	Intron	Pectinesterase,catalytic
CWSNP912	Ca-Kabuli-Chr1	25524382	[C/T]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP913	Ca-Kabuli-Chr1	25524425	[C/T]	-	Intergenic	-
CWSNP914	Ca-Kabuli-Chr1	25524441	[T/C]	-	Intergenic	-
CWSNP915	Ca-Kabuli-Chr1	25524519	[C/T]	-	Intergenic	-
CWSNP916	Ca-Kabuli-Chr1	25524481	[T/A]	-	Intergenic	-
CWSNP917	Ca-Kabuli-Chr1	25524480	[G/A]	-	Intergenic	-
CWSNP918	Ca-Kabuli-Chr1	25524473	[C/T]	-	Intergenic	-
CWSNP919	Ca-Kabuli-Chr1	25524465	[A/G]	-	Intergenic	-
CWSNP920	Ca-Kabuli-Chr1	25524460	[G/A]	-	Intergenic	-
CWSNP921	Ca-Kabuli-Chr1	25524458	[G/A]	-	Intergenic	-
CWSNP922	Ca-Kabuli-Chr1	25524456	[C/T]	-	Intergenic	-
CWSNP923	Ca-Kabuli-Chr1	25524455	[G/A]	-	Intergenic	-
CWSNP924	Ca-Kabuli-Chr1	25524453	[C/T]	-	Intergenic	-
CWSNP925	Ca-Kabuli-Chr1	25524451	[A/T]	-	Intergenic	-
CWSNP926	Ca-Kabuli-Chr1	25524450	[C/T]	-	Intergenic	-
CWSNP927	Ca-Kabuli-Chr1	25524478	[C/A]	-	Intergenic	-
CWSNP928	Ca-Kabuli-Chr1	25524488	[G/T]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP929	Ca-Kabuli-Chr1	25524505	[A/G]	-	Intergenic	-
CWSNP930	Ca-Kabuli-Chr1	25524520	[C/T]	-	Intergenic	-
CWSNP931	Ca-Kabuli-Chr1	25524524	[C/T]	-	Intergenic	-
CWSNP932	Ca-Kabuli-Chr1	25887539	[G/A]	-	Intergenic	-
CWSNP933	Ca-Kabuli-Chr1	26574146	[C/T]	Ca18614	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP934	Ca-Kabuli-Chr1	26579621	[A/C]	-	Intergenic	-
CWSNP935	Ca-Kabuli-Chr1	26807401	[A/G]	-	URR	-
CWSNP936	Ca-Kabuli-Chr1	26807395	[T/G]	-	URR	-
CWSNP937	Ca-Kabuli-Chr1	26856541	[A/T]	Ca20289	Non-Synonymous-CDS	-
CWSNP938	Ca-Kabuli-Chr1	26856691	[G/A]	Ca20289	Synonymous-CDS	-
CWSNP939	Ca-Kabuli-Chr1	26921471	[C/T]	-	Intergenic	-
CWSNP940	Ca-Kabuli-Chr1	26922011	[T/G]	-	DRR	-
CWSNP941	Ca-Kabuli-Chr1	26953535	[C/T]	-	Intergenic	-
CWSNP942	Ca-Kabuli-Chr1	27012495	[C/T]	-	DRR	-
CWSNP943	Ca-Kabuli-Chr1	27012660	[G/C]	-	DRR	-
CWSNP944	Ca-Kabuli-Chr1	27014895	[T/G]	-	DRR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP945	Ca-Kabuli-Chr1	27014981	[A/G]	-	DRR	-
CWSNP946	Ca-Kabuli-Chr1	27014951	[A/C]	-	DRR	-
CWSNP947	Ca-Kabuli-Chr1	27016101	[G/A]	-	DRR	-
CWSNP948	Ca-Kabuli-Chr1	27016206	[T/A]	-	DRR	-
CWSNP949	Ca-Kabuli-Chr1	27017559	[G/A]	Ca20299	Intron	Cystathioninebeta-synthase,core
CWSNP950	Ca-Kabuli-Chr1	27017560	[G/A]	Ca20299	Intron	Cystathioninebeta-synthase,core
CWSNP951	Ca-Kabuli-Chr1	27017570	[A/G]	Ca20299	Intron	Cystathioninebeta-synthase,core
CWSNP952	Ca-Kabuli-Chr1	27017604	[T/G]	Ca20299	Intron	Cystathioninebeta-synthase,core
CWSNP953	Ca-Kabuli-Chr1	27017606	[C/T]	Ca20299	Intron	Cystathioninebeta-synthase,core
CWSNP954	Ca-Kabuli-Chr1	27017617	[G/A]	Ca20299	Intron	Cystathioninebeta-synthase,core
CWSNP955	Ca-Kabuli-Chr1	27017626	[A/C]	Ca20299	Intron	Cystathioninebeta-synthase,core
CWSNP956	Ca-Kabuli-Chr1	27017628	[C/A]	Ca20299	Intron	Cystathioninebeta-synthase,core
CWSNP957	Ca-Kabuli-Chr1	27017734	[T/C]	Ca20299	Intron	Cystathioninebeta-synthase,core
CWSNP958	Ca-Kabuli-Chr1	27017765	[A/T]	Ca20299	Intron	Cystathioninebeta-synthase,core
CWSNP959	Ca-Kabuli-Chr1	27017771	[G/A]	Ca20299	Intron	Cystathioninebeta-synthase,core
CWSNP960	Ca-Kabuli-Chr1	27020193	[T/C]	Ca20299	Intron	Cystathioninebeta-synthase,core

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP961	Ca-Kabuli-Chr1	27020354	[C/A]	Ca20299	Intron	Cystathioninebeta-synthase,core
CWSNP962	Ca-Kabuli-Chr1	28088501	[T/C]	Ca18523	Synonymous-CDS	Vps54-like
CWSNP963	Ca-Kabuli-Chr1	28106756	[G/A]	-	Intergenic	-
CWSNP964	Ca-Kabuli-Chr1	28133847	[A/G]	Ca18521	Intron	Leucine-rich repeat
CWSNP965	Ca-Kabuli-Chr1	28133830	[A/T]	Ca18521	Intron	Leucine-rich repeat
CWSNP966	Ca-Kabuli-Chr1	28133814	[C/T]	Ca18521	Intron	Leucine-rich repeat
CWSNP967	Ca-Kabuli-Chr1	28143955	[G/A]	Ca18521	Intron	Leucine-rich repeat
CWSNP968	Ca-Kabuli-Chr1	28152260	[A/G]	Ca18521	Intron	Leucine-rich repeat
CWSNP969	Ca-Kabuli-Chr1	28656197	[C/A]	-	Intergenic	-
CWSNP970	Ca-Kabuli-Chr1	28907617	[G/A]	Ca18486	Non-Synonymous-CDS	Sugar/inositol transporter
CWSNP971	Ca-Kabuli-Chr1	28909059	[T/A]	Ca18486	Non-Synonymous-CDS	Sugar/inositol transporter
CWSNP972	Ca-Kabuli-Chr1	29020220	[T/G]	-	Intergenic	-
CWSNP973	Ca-Kabuli-Chr1	29460440	[C/A]	Ca22559	Non-Synonymous-CDS	-
CWSNP974	Ca-Kabuli-Chr1	29637509	[A/C]	Ca24382	Intron	K Homology,type1
CWSNP975	Ca-Kabuli-Chr1	29637526	[C/T]	Ca24382	Intron	K Homology,type1
CWSNP976	Ca-Kabuli-Chr1	29637572	[T/G]	Ca24382	Intron	K Homology,type1

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP977	Ca-Kabuli-Chr1	29637571	[T/G]	Ca24382	Intron	K Homology,type1
CWSNP978	Ca-Kabuli-Chr1	30262124	[A/G]	Ca22465	Non-Synonymous-CDS	Kinesin , motor domain
CWSNP979	Ca-Kabuli-Chr1	31080673	[T/G]	Ca25827	Intron	Enolase
CWSNP980	Ca-Kabuli-Chr1	31080792	[T/C]	Ca25827	Intron	Enolase
CWSNP981	Ca-Kabuli-Chr1	31240370	[A/G]	-	Intergenic	-
CWSNP982	Ca-Kabuli-Chr1	31369599	[T/C]	Ca21855	Intron	PeptidaseC13,legumain
CWSNP983	Ca-Kabuli-Chr1	31590263	[C/G]	Ca21868	Intron	Orotidine5'-phosphate decarboxylase domain
CWSNP984	Ca-Kabuli-Chr1	31590510	[G/A]	Ca21868	Synonymous-CDS	Orotidine5'-phosphate decarboxylase domain
CWSNP985	Ca-Kabuli-Chr1	31590548	[C/T]	Ca21868	Non-Synonymous-CDS	Orotidine5'-phosphate decarboxylase domain
CWSNP986	Ca-Kabuli-Chr1	32286538	[C/T]	-	DRR	-
CWSNP987	Ca-Kabuli-Chr1	32286534	[G/C]	-	DRR	-
CWSNP988	Ca-Kabuli-Chr1	32286518	[C/A]	-	DRR	-
CWSNP989	Ca-Kabuli-Chr1	32286517	[G/A]	-	DRR	-
CWSNP990	Ca-Kabuli-Chr1	32286469	[G/A]	-	DRR	-
CWSNP991	Ca-Kabuli-Chr1	32286466	[A/G]	-	DRR	-
CWSNP992	Ca-Kabuli-Chr1	32286568	[A/C]	-	DRR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP993	Ca-Kabuli-Chr1	32286558	[A/G]	-	DRR	-
CWSNP994	Ca-Kabuli-Chr1	32286550	[G/A]	-	DRR	-
CWSNP995	Ca-Kabuli-Chr1	32286536	[G/A]	-	DRR	-
CWSNP996	Ca-Kabuli-Chr1	32286551	[C/T]	-	DRR	-
CWSNP997	Ca-Kabuli-Chr1	32286567	[C/T]	-	DRR	-
CWSNP998	Ca-Kabuli-Chr1	32468053	[A/C]	-	Intergenic	-
CWSNP999	Ca-Kabuli-Chr1	32468080	[A/T]	-	Intergenic	-
CWSNP1000	Ca-Kabuli-Chr1	32468105	[C/G]	-	Intergenic	-
CWSNP1001	Ca-Kabuli-Chr1	32468116	[A/G]	-	Intergenic	-
CWSNP1002	Ca-Kabuli-Chr1	32468119	[T/C]	-	Intergenic	-
CWSNP1003	Ca-Kabuli-Chr1	33058743	[T/C]	Ca19437	Intron	Argonaute/Dicerprotein,PAZ
CWSNP1004	Ca-Kabuli-Chr1	33063207	[C/T]	Ca19437	Intron	Argonaute/Dicerprotein,PAZ
CWSNP1005	Ca-Kabuli-Chr1	33194600	[T/C]	Ca19440	Intron	Helicase,C-terminal
CWSNP1006	Ca-Kabuli-Chr1	33804152	[C/T]	Ca19463	Non-Synonymous-CDS	-
CWSNP1007	Ca-Kabuli-Chr1	33804153	[C/T]	Ca19463	Synonymous-CDS	-
CWSNP1008	Ca-Kabuli-Chr1	33804189	[C/T]	Ca19463	Non-Synonymous-CDS	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP1009	Ca-Kabuli-Chr1	33804201	[C/T]	Ca19463	Non-Synonymous-CDS	-
CWSNP1010	Ca-Kabuli-Chr1	33804232	[T/G]	Ca19463	Synonymous-CDS	-
CWSNP1011	Ca-Kabuli-Chr1	33804247	[A/G]	Ca19463	Synonymous-CDS	-
CWSNP1012	Ca-Kabuli-Chr1	33804262	[C/G]	Ca19463	Synonymous-CDS	-
CWSNP1013	Ca-Kabuli-Chr1	34161921	[G/A]	-	Intergenic	-
CWSNP1014	Ca-Kabuli-Chr1	34261166	[C/A]	Ca25475	Intron	Glycosyltransferase,family48
CWSNP1015	Ca-Kabuli-Chr1	34261158	[C/A]	Ca25475	Intron	Glycosyltransferase,family48
CWSNP1016	Ca-Kabuli-Chr1	34311145	[T/G]	Ca25478	Synonymous-CDS	GTP-binding protein,HSR1-related
CWSNP1017	Ca-Kabuli-Chr1	34727251	[T/G]	Ca21419	Synonymous-CDS	Zinc finger,CCCH-type
CWSNP1018	Ca-Kabuli-Chr1	34772813	[T/A]	Ca21416	Non-Synonymous-CDS	-
CWSNP1019	Ca-Kabuli-Chr1	34866709	[C/A]	-	DRR	-
CWSNP1020	Ca-Kabuli-Chr1	34948934	[A/G]	Ca21408	Intron	Proteasome,alpha-subunit,conserved site
CWSNP1021	Ca-Kabuli-Chr1	35041241	[T/G]	-	Intergenic	-
CWSNP1022	Ca-Kabuli-Chr1	35041324	[G/T]	-	Intergenic	-
CWSNP1023	Ca-Kabuli-Chr1	35313277	[A/G]	-	Intergenic	-
CWSNP1024	Ca-Kabuli-Chr1	35315381	[T/A]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP1025	Ca-Kabuli-Chr1	35315379	[A/T]	-	Intergenic	-
CWSNP1026	Ca-Kabuli-Chr1	35315347	[C/T]	-	Intergenic	-
CWSNP1027	Ca-Kabuli-Chr1	35315327	[T/A]	-	Intergenic	-
CWSNP1028	Ca-Kabuli-Chr1	35315436	[G/A]	-	Intergenic	-
CWSNP1029	Ca-Kabuli-Chr1	35708841	[C/T]	Ca24110	Synonymous-CDS	Mediator complex,subunit Med10
CWSNP1030	Ca-Kabuli-Chr1	36126090	[C/T]	-	Intergenic	-
CWSNP1031	Ca-Kabuli-Chr1	36794731	[A/G]	Ca21700	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP1032	Ca-Kabuli-Chr1	36794797	[G/A]	Ca21700	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP1033	Ca-Kabuli-Chr1	36794800	[G/T]	Ca21700	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP1034	Ca-Kabuli-Chr1	36794806	[G/T]	Ca21700	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP1035	Ca-Kabuli-Chr1	36794813	[C/T]	Ca21700	Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP1036	Ca-Kabuli-Chr1	36794887	[G/A]	Ca21700	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP1037	Ca-Kabuli-Chr1	36794870	[C/T]	Ca21700	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP1038	Ca-Kabuli-Chr1	36794906	[A/C]	Ca21700	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP1039	Ca-Kabuli-Chr1	36794912	[G/T]	Ca21700	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP1040	Ca-Kabuli-Chr1	37026302	[C/T]	-	Intergenic	-

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CWSNP1041	Ca-Kabuli-Chr1	37642546	[G/A]	-	URR	-
CWSNP1042	Ca-Kabuli-Chr1	37690416	[G/A]	Ca23533	Intron	Myb,DNA-binding
CWSNP1043	Ca-Kabuli-Chr1	37690465	[T/C]	Ca23533	Intron	Myb,DNA-binding
CWSNP1044	Ca-Kabuli-Chr1	37690498	[C/A]	Ca23533	Intron	Myb,DNA-binding
CWSNP1045	Ca-Kabuli-Chr1	37690497	[A/T]	Ca23533	Intron	Myb,DNA-binding
CWSNP1046	Ca-Kabuli-Chr1	37699039	[T/G]	-	Intergenic	-
CWSNP1047	Ca-Kabuli-Chr1	37699036	[T/C]	-	Intergenic	-
CWSNP1048	Ca-Kabuli-Chr1	37722095	[G/A]	Ca23534	Synonymous-CDS	Protein of unknown function DUF620
CWSNP1049	Ca-Kabuli-Chr1	37722143	[G/C]	Ca23534	Synonymous-CDS	Protein of unknown function DUF620
CWSNP1050	Ca-Kabuli-Chr1	37768179	[T/A]	-	Intergenic	-
CWSNP1051	Ca-Kabuli-Chr1	37768333	[C/T]	-	Intergenic	-
CWSNP1052	Ca-Kabuli-Chr1	37768299	[A/G]	-	Intergenic	-
CWSNP1053	Ca-Kabuli-Chr1	37880995	[T/C]	Ca23539	Intron	Zinc finger,PHD-type
CWSNP1054	Ca-Kabuli-Chr1	37892088	[A/C]	-	Intergenic	-
CWSNP1055	Ca-Kabuli-Chr1	37892089	[C/T]	-	Intergenic	-
CWSNP1056	Ca-Kabuli-Chr1	37892139	[A/T]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP1057	Ca-Kabuli-Chr1	38049721	[C/T]	Ca27444	Non-Synonymous-CDS	Cation efflux protein
CWSNP1058	Ca-Kabuli-Chr1	38877670	[T/C]	-	Intergenic	-
CWSNP1059	Ca-Kabuli-Chr1	39436291	[T/C]	Ca13931	Intron	IQ motif, EF-hand binding site
CWSNP1060	Ca-Kabuli-Chr1	39601982	[T/G]	-	Intergenic	-
CWSNP1061	Ca-Kabuli-Chr1	39602029	[G/T]	-	Intergenic	-
CWSNP1062	Ca-Kabuli-Chr1	39616139	[A/C]	Ca13924	Synonymous-CDS	CTPsynthase,N-terminal
CWSNP1063	Ca-Kabuli-Chr1	39663432	[C/G]	Ca13922	Intron	ABC transporter-like
CWSNP1064	Ca-Kabuli-Chr1	40224835	[T/A]	-	Intergenic	-
CWSNP1065	Ca-Kabuli-Chr1	40224834	[C/G]	-	Intergenic	-
CWSNP1066	Ca-Kabuli-Chr1	40224804	[A/G]	-	Intergenic	-
CWSNP1067	Ca-Kabuli-Chr1	40343216	[G/T]	Ca13893	Intron	Tetratricopeptide,MLP1/MLP2-like
CWSNP1068	Ca-Kabuli-Chr1	40346280	[A/C]	Ca13893	Intron	Tetratricopeptide,MLP1/MLP2-like
CWSNP1069	Ca-Kabuli-Chr1	40358693	[C/T]	Ca13893	Intron	Tetratricopeptide,MLP1/MLP2-like
CWSNP1070	Ca-Kabuli-Chr1	40358747	[T/G]	Ca13893	Intron	Tetratricopeptide,MLP1/MLP2-like
CWSNP1071	Ca-Kabuli-Chr1	40367940	[G/A]	Ca13893	Intron	Tetratricopeptide,MLP1/MLP2-like
CWSNP1072	Ca-Kabuli-Chr1	41029732	[C/T]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP1073	Ca-Kabuli-Chr1	41169218	[G/T]	-	Intergenic	-
CWSNP1074	Ca-Kabuli-Chr1	41185512	[T/G]	-	Intergenic	-
CWSNP1075	Ca-Kabuli-Chr1	41380061	[G/T]	Ca23111	Synonymous-CDS	GlutathioneS-transferase,N-terminal
CWSNP1076	Ca-Kabuli-Chr1	41564809	[T/C]	-	URR	-
CWSNP1077	Ca-Kabuli-Chr1	41827388	[T/C]	-	DRR	-
CWSNP1078	Ca-Kabuli-Chr1	41867035	[C/T]	-	URR	-
CWSNP1079	Ca-Kabuli-Chr1	41897216	[C/A]	Ca22528	Intron	-
CWSNP1080	Ca-Kabuli-Chr1	41946005	[A/G]	-	Intergenic	-
CWSNP1081	Ca-Kabuli-Chr1	42452939	[G/T]	Ca13620	Non-Synonymous-CDS	Transcription factorCBF/NF-Y/archaealhistone
CWSNP1082	Ca-Kabuli-Chr1	42551585	[C/A]	-	DRR	-
CWSNP1083	Ca-Kabuli-Chr1	42552658	[A/C]	-	Intergenic	-
CWSNP1084	Ca-Kabuli-Chr1	42605239	[T/G]	-	DRR	-
CWSNP1085	Ca-Kabuli-Chr1	42613060	[T/G]	-	DRR	-
CWSNP1086	Ca-Kabuli-Chr1	43053424	[G/C]	-	Intergenic	-
CWSNP1087	Ca-Kabuli-Chr1	43273910	[G/T]	-	Intergenic	-
CWSNP1088	Ca-Kabuli-Chr1	43273922	[T/C]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP1089	Ca-Kabuli-Chr1	43273925	[A/G]	-	Intergenic	-
CWSNP1090	Ca-Kabuli-Chr1	43273931	[G/A]	-	Intergenic	-
CWSNP1091	Ca-Kabuli-Chr1	43273941	[C/G]	-	Intergenic	-
CWSNP1092	Ca-Kabuli-Chr1	43273943	[A/G]	-	Intergenic	-
CWSNP1093	Ca-Kabuli-Chr1	43273961	[C/T]	-	Intergenic	-
CWSNP1094	Ca-Kabuli-Chr1	43273962	[A/G]	-	Intergenic	-
CWSNP1095	Ca-Kabuli-Chr1	43273968	[T/G]	-	Intergenic	-
CWSNP1096	Ca-Kabuli-Chr1	43273972	[C/T]	-	Intergenic	-
CWSNP1097	Ca-Kabuli-Chr1	43273981	[G/T]	-	Intergenic	-
CWSNP1098	Ca-Kabuli-Chr1	43273985	[G/A]	-	Intergenic	-
CWSNP1099	Ca-Kabuli-Chr1	43792565	[G/A]	-	Intergenic	-
CWSNP1100	Ca-Kabuli-Chr1	43930143	[A/T]	-	Intergenic	-
CWSNP1101	Ca-Kabuli-Chr1	43930138	[T/C]	-	Intergenic	-
CWSNP1102	Ca-Kabuli-Chr1	44085069	[C/T]	Ca13530	Intron	Endosulphine
CWSNP1103	Ca-Kabuli-Chr1	44349004	[T/C]	Ca23498	Non-Synonymous-CDS	Ribonucleasell/R
CWSNP1104	Ca-Kabuli-Chr1	44350953	[G/T]	Ca23498	Intron	Ribonucleasell/R

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP1105	Ca-Kabuli-Chr1	44635939	[T/C]	-	Intergenic	-
CWSNP1106	Ca-Kabuli-Chr1	44635926	[A/G]	-	Intergenic	-
CWSNP1107	Ca-Kabuli-Chr1	44635893	[A/G]	-	Intergenic	-
CWSNP1108	Ca-Kabuli-Chr1	44976738	[T/A]	Ca25713	Intron	Protein kinase, catalytic domain
CWSNP1109	Ca-Kabuli-Chr1	44976735	[C/T]	Ca25713	Intron	Protein kinase, catalytic domain
CWSNP1110	Ca-Kabuli-Chr1	44988344	[A/G]	-	Intergenic	-
CWSNP1111	Ca-Kabuli-Chr1	45003190	[G/A]	Ca25714	Non-Synonymous-CDS	-
CWSNP1112	Ca-Kabuli-Chr1	45003514	[G/A]	Ca25714	Non-Synonymous-CDS	-
CWSNP1113	Ca-Kabuli-Chr1	45003509	[C/A]	Ca25714	Intron	-
CWSNP1114	Ca-Kabuli-Chr1	45003505	[A/C]	Ca25714	Intron	-
CWSNP1115	Ca-Kabuli-Chr1	45003938	[A/G]	Ca25714	Intron	-
CWSNP1116	Ca-Kabuli-Chr1	45003939	[T/A]	Ca25714	Intron	-
CWSNP1117	Ca-Kabuli-Chr1	45003940	[T/G]	Ca25714	Intron	-
CWSNP1118	Ca-Kabuli-Chr1	45003944	[C/T]	Ca25714	Intron	-
CWSNP1119	Ca-Kabuli-Chr1	45003945	[T/A]	Ca25714	Intron	-
CWSNP1120	Ca-Kabuli-Chr1	45003946	[T/G]	Ca25714	Intron	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP1121	Ca-Kabuli-Chr1	45003947	[C/A]	Ca25714	Intron	-
CWSNP1122	Ca-Kabuli-Chr1	45003973	[T/C]	Ca25714	Intron	-
CWSNP1123	Ca-Kabuli-Chr1	45003985	[G/T]	Ca25714	Intron	-
CWSNP1124	Ca-Kabuli-Chr1	45003998	[G/A]	Ca25714	Intron	-
CWSNP1125	Ca-Kabuli-Chr1	45004001	[C/T]	Ca25714	Intron	-
CWSNP1126	Ca-Kabuli-Chr1	45007032	[A/C]	Ca25714	Intron	-
CWSNP1127	Ca-Kabuli-Chr1	45007227	[T/C]	Ca25714	Intron	-
CWSNP1128	Ca-Kabuli-Chr1	45007259	[A/G]	Ca25714	Intron	-
CWSNP1129	Ca-Kabuli-Chr1	45007331	[C/T]	Ca25714	Intron	-
CWSNP1130	Ca-Kabuli-Chr1	45008076	[G/A]	Ca25714	Intron	-
CWSNP1131	Ca-Kabuli-Chr1	45008075	[T/C]	Ca25714	Intron	-
CWSNP1132	Ca-Kabuli-Chr1	45008073	[T/G]	Ca25714	Intron	-
CWSNP1133	Ca-Kabuli-Chr1	45008071	[G/C]	Ca25714	Intron	-
CWSNP1134	Ca-Kabuli-Chr1	45008050	[C/G]	Ca25714	Intron	-
CWSNP1135	Ca-Kabuli-Chr1	45008044	[T/C]	Ca25714	Intron	-
CWSNP1136	Ca-Kabuli-Chr1	45008016	[T/A]	Ca25714	Intron	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP1137	Ca-Kabuli-Chr1	45008015	[G/A]	Ca25714	Intron	-
CWSNP1138	Ca-Kabuli-Chr1	45008009	[C/T]	Ca25714	Intron	-
CWSNP1139	Ca-Kabuli-Chr1	45008006	[C/A]	Ca25714	Intron	-
CWSNP1140	Ca-Kabuli-Chr1	45008004	[C/T]	Ca25714	Intron	-
CWSNP1141	Ca-Kabuli-Chr1	45250874	[G/A]	-	URR	-
CWSNP1142	Ca-Kabuli-Chr1	45250872	[G/T]	-	URR	-
CWSNP1143	Ca-Kabuli-Chr1	45250869	[G/A]	-	URR	-
CWSNP1144	Ca-Kabuli-Chr1	45250863	[C/T]	-	URR	-
CWSNP1145	Ca-Kabuli-Chr1	45250862	[A/T]	-	URR	-
CWSNP1146	Ca-Kabuli-Chr1	45250834	[A/G]	-	URR	-
CWSNP1147	Ca-Kabuli-Chr1	45250828	[G/C]	-	URR	-
CWSNP1148	Ca-Kabuli-Chr1	45250807	[C/G]	-	URR	-
CWSNP1149	Ca-Kabuli-Chr1	45250805	[A/C]	-	URR	-
CWSNP1150	Ca-Kabuli-Chr1	45250803	[A/G]	-	URR	-
CWSNP1151	Ca-Kabuli-Chr1	45250802	[C/T]	-	URR	-
CWSNP1152	Ca-Kabuli-Chr1	46437023	[T/G]	Ca21547	Synonymous-CDS	Adenylatekinase

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CWSNP1153	Ca-Kabuli-Chr1	46523221	[C/T]	Ca21550	Synonymous-CDS	-
CWSNP1154	Ca-Kabuli-Chr1	46597131	[T/G]	-	Intergenic	-
CWSNP1155	Ca-Kabuli-Chr1	46745628	[C/A]	Ca25111	Intron	Protein of unknown function DUF3754
CWSNP1156	Ca-Kabuli-Chr1	46778814	[A/C]	Ca25114	Non-Synonymous-CDS	Protein kinase, catalytic domain
CWSNP1157	Ca-Kabuli-Chr1	46791939	[T/G]	-	Intergenic	-
CWSNP1158	Ca-Kabuli-Chr1	46793357	[T/C]	-	Intergenic	-
CWSNP1159	Ca-Kabuli-Chr1	46816041	[A/T]	-	Intergenic	-
CWSNP1160	Ca-Kabuli-Chr1	46825211	[G/A]	Ca25116	Intron	-
CWSNP1161	Ca-Kabuli-Chr1	46829662	[C/T]	Ca25116	Intron	-
CWSNP1162	Ca-Kabuli-Chr1	46832306	[T/G]	Ca25116	Intron	-
CWSNP1163	Ca-Kabuli-Chr1	46832395	[A/G]	Ca25116	Intron	-
CWSNP1164	Ca-Kabuli-Chr1	46832383	[T/C]	Ca25116	Intron	-
CWSNP1165	Ca-Kabuli-Chr1	46920524	[C/T]	Ca12949	Intron	-
CWSNP1166	Ca-Kabuli-Chr1	46936201	[C/T]	-	URR	-
CWSNP1167	Ca-Kabuli-Chr1	46969221	[T/A]	Ca12942	Intron	Glycosyltransferase, family20
CWSNP1168	Ca-Kabuli-Chr1	47042798	[T/A]	Ca12938	Non-Synonymous-CDS	Protein of unknown function DUF92, TMEM19

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CWSNP1169	Ca-Kabuli-Chr1	47331082	[T/C]	-	Intergenic	-
CWSNP1170	Ca-Kabuli-Chr1	47331080	[T/C]	-	Intergenic	-
CWSNP1171	Ca-Kabuli-Chr1	47897914	[C/T]	Ca12887	Intron	GPImannosyltransferase
CWSNP1172	Ca-Kabuli-Chr1	47938884	[T/G]	Ca12883	Intron	Ubiquitin-conjugating enzyme,E2
CWSNP1173	Ca-Kabuli-Chr1	48026664	[G/T]	-	Intergenic	-
CWSNP1174	Ca-Kabuli-Chr1	48026727	[A/C]	-	Intergenic	-
CWSNP1175	Ca-Kabuli-Chr1	48028094	[G/A]	-	URR	-
CWSNP1176	Ca-Kabuli-Chr1	48132521	[A/C]	-	DRR	-
CWSNP1177	Ca-Kabuli-Chr1	48265590	[T/G]	Ca12856	Synonymous-CDS	-
CWSNP1178	Ca-Kabuli-Chr2	233589	[C/T]	-	Intergenic	-
CWSNP1179	Ca-Kabuli-Chr2	522943	[A/G]	-	URR	-
CWSNP1180	Ca-Kabuli-Chr2	737183	[T/G]	Ca17000	Synonymous-CDS	-
CWSNP1181	Ca-Kabuli-Chr2	770164	[A/C]	Ca17001	Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP1182	Ca-Kabuli-Chr2	770183	[C/T]	Ca17001	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP1183	Ca-Kabuli-Chr2	770234	[C/T]	Ca17001	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP1184	Ca-Kabuli-Chr2	770237	[C/T]	Ca17001	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP1185	Ca-Kabuli-Chr2	770225	[C/T]	Ca17001	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP1186	Ca-Kabuli-Chr2	770260	[C/T]	Ca17001	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP1187	Ca-Kabuli-Chr2	770266	[C/A]	Ca17001	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP1188	Ca-Kabuli-Chr2	1231500	[A/G]	-	Intergenic	-
CWSNP1189	Ca-Kabuli-Chr2	1231618	[G/A]	-	Intergenic	-
CWSNP1190	Ca-Kabuli-Chr2	1234932	[C/T]	-	Intergenic	-
CWSNP1191	Ca-Kabuli-Chr2	1234983	[T/C]	-	Intergenic	-
CWSNP1192	Ca-Kabuli-Chr2	1368911	[A/G]	-	URR	-
CWSNP1193	Ca-Kabuli-Chr2	1389661	[A/G]	-	URR	-
CWSNP1194	Ca-Kabuli-Chr2	1493971	[A/G]	-	Intergenic	-
CWSNP1195	Ca-Kabuli-Chr2	1610477	[G/T]	Ca12629	Non-Synonymous-CDS	Diacylglycerol kinase,catalytic domain
CWSNP1196	Ca-Kabuli-Chr2	1668116	[A/G]	-	Intergenic	-
CWSNP1197	Ca-Kabuli-Chr2	1713343	[T/C]	-	Intergenic	-
CWSNP1198	Ca-Kabuli-Chr2	1828406	[G/A]	Ca12602	Non-Synonymous-CDS	Protein of unknown function DUF1421
CWSNP1199	Ca-Kabuli-Chr2	1867041	[C/A]	Ca12598	Intron	Bacteriallg-like,group2
CWSNP1200	Ca-Kabuli-Chr2	2230056	[T/C]	-	DRR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP1201	Ca-Kabuli-Chr2	2311915	[C/A]	-	URR	-
CWSNP1202	Ca-Kabuli-Chr2	2311917	[A/C]	-	URR	-
CWSNP1203	Ca-Kabuli-Chr2	2312104	[C/T]	-	URR	-
CWSNP1204	Ca-Kabuli-Chr2	2312037	[T/G]	-	URR	-
CWSNP1205	Ca-Kabuli-Chr2	2344777	[G/A]	Ca12544	Synonymous-CDS	Oligopeptide transporter
CWSNP1206	Ca-Kabuli-Chr2	2344778	[A/G]	Ca12544	Non-Synonymous-CDS	Oligopeptide transporter
CWSNP1207	Ca-Kabuli-Chr2	2344786	[G/A]	Ca12544	Synonymous-CDS	Oligopeptide transporter
CWSNP1208	Ca-Kabuli-Chr2	2344835	[G/T]	Ca12544	Non-Synonymous-CDS	Oligopeptide transporter
CWSNP1209	Ca-Kabuli-Chr2	2416422	[C/T]	-	DRR	-
CWSNP1210	Ca-Kabuli-Chr2	2650375	[T/C]	-	URR	-
CWSNP1211	Ca-Kabuli-Chr2	2650373	[A/T]	-	URR	-
CWSNP1212	Ca-Kabuli-Chr2	2697688	[G/C]	Ca10574	Non-Synonymous-CDS	RNA-binding,CRM domain
CWSNP1213	Ca-Kabuli-Chr2	2708805	[G/C]	-	URR	-
CWSNP1214	Ca-Kabuli-Chr2	2783727	[G/A]	-	DRR	-
CWSNP1215	Ca-Kabuli-Chr2	2846667	[T/C]	Ca10559	Intron	Phospho glucose isomerase(PGI)
CWSNP1216	Ca-Kabuli-Chr2	2846774	[C/A]	Ca10559	Non-Synonymous-CDS	Phospho glucose isomerase(PGI)

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP1217	Ca-Kabuli-Chr2	2965867	[G/A]	-	DRR	-
CWSNP1218	Ca-Kabuli-Chr2	3100116	[A/G]	-	DRR	-
CWSNP1219	Ca-Kabuli-Chr2	3113560	[G/A]	Ca10538	Intron	Auxin efflux carrier
CWSNP1220	Ca-Kabuli-Chr2	3141128	[A/C]	-	Intergenic	-
CWSNP1221	Ca-Kabuli-Chr2	3164404	[A/G]	-	Intergenic	-
CWSNP1222	Ca-Kabuli-Chr2	3164355	[G/A]	-	Intergenic	-
CWSNP1223	Ca-Kabuli-Chr2	3450904	[C/A]	Ca10514	Synonymous-CDS	ZF-HD homeobox protein,Cys/His-rich dimerisation domain
CWSNP1224	Ca-Kabuli-Chr2	3503763	[T/G]	-	DRR	-
CWSNP1225	Ca-Kabuli-Chr2	3503759	[T/A]	-	DRR	-
CWSNP1226	Ca-Kabuli-Chr2	3503753	[C/G]	-	DRR	-
CWSNP1227	Ca-Kabuli-Chr2	3503750	[C/G]	-	DRR	-
CWSNP1228	Ca-Kabuli-Chr2	3789808	[G/T]	-	DRR	-
CWSNP1229	Ca-Kabuli-Chr2	3941397	[A/T]	-	Intergenic	-
CWSNP1230	Ca-Kabuli-Chr2	3994150	[A/C]	-	Intergenic	-
CWSNP1231	Ca-Kabuli-Chr2	4039854	[G/A]	-	Intergenic	-
CWSNP1232	Ca-Kabuli-Chr2	4404813	[C/T]	Ca21106	Intron	Glycosylhydrolase, family13, catalytic domain

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP1233	Ca-Kabuli-Chr2	4966216	[C/T]	Ca14714	Non-Synonymous-CDS	DNA ligase, ATP-dependent, N-terminal
CWSNP1234	Ca-Kabuli-Chr2	4981626	[A/G]	-	DRR	-
CWSNP1235	Ca-Kabuli-Chr2	4981666	[G/C]	-	DRR	-
CWSNP1236	Ca-Kabuli-Chr2	5079639	[C/T]	Ca14702	Non-Synonymous-CDS	Zinc finger, RING-type
CWSNP1237	Ca-Kabuli-Chr2	5247557	[A/C]	-	Intergenic	-
CWSNP1238	Ca-Kabuli-Chr2	5247558	[G/T]	-	Intergenic	-
CWSNP1239	Ca-Kabuli-Chr2	5259254	[T/C]	Ca14682	Non-Synonymous-CDS	-
CWSNP1240	Ca-Kabuli-Chr2	5342864	[C/A]	-	Intergenic	-
CWSNP1241	Ca-Kabuli-Chr2	5342923	[A/G]	-	Intergenic	-
CWSNP1242	Ca-Kabuli-Chr2	5449978	[T/C]	-	URR	-
CWSNP1243	Ca-Kabuli-Chr2	5475344	[A/G]	Ca14660	Intron	Proteasome component (PCI) domain
CWSNP1244	Ca-Kabuli-Chr2	5787862	[G/A]	Ca19683	Synonymous-CDS	Plant specific mitochondrial import receptor subunit TOM20
CWSNP1245	Ca-Kabuli-Chr2	5787887	[A/C]	Ca19683	Intron	Plant specific mitochondrial import receptor subunit TOM20
CWSNP1246	Ca-Kabuli-Chr2	6162378	[T/G]	Ca19714	Intron	Amino acid/polyamine transporter I
CWSNP1247	Ca-Kabuli-Chr2	6213582	[T/A]	Ca20925	Non-Synonymous-CDS	-
CWSNP1248	Ca-Kabuli-Chr2	6213566	[C/T]	Ca20925	Non-Synonymous-CDS	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP1249	Ca-Kabuli-Chr2	6213530	[C/A]	Ca20925	Non-Synonymous-CDS	-
CWSNP1250	Ca-Kabuli-Chr2	6213520	[G/T]	Ca20925	Non-Synonymous-CDS	-
CWSNP1251	Ca-Kabuli-Chr2	6349208	[T/G]	Ca20931	Intron	Helicase/RNaseDC-terminal,HRDCdomain
CWSNP1252	Ca-Kabuli-Chr2	6367704	[A/G]	-	DRR	-
CWSNP1253	Ca-Kabuli-Chr2	6408406	[C/A]	Ca20937	Intron	Double-stranded RNA-binding
CWSNP1254	Ca-Kabuli-Chr2	6534776	[C/A]	Ca20948	Intron	TargetSNAREcoiled-coildomain
CWSNP1255	Ca-Kabuli-Chr2	6728716	[A/T]	Ca19158	Intron	Glutamate/phenylalanine/leucine/valine dehydrogenase
CWSNP1256	Ca-Kabuli-Chr2	6728719	[C/T]	Ca19158	Intron	Glutamate/phenylalanine/leucine/valine dehydrogenase
CWSNP1257	Ca-Kabuli-Chr2	7027093	[G/A]	Ca19136	Intron	RNA recognition motif domain
CWSNP1258	Ca-Kabuli-Chr2	7125992	[T/G]	Ca19128	Non-Synonymous-CDS	Oxidoreductase,N-terminal
CWSNP1259	Ca-Kabuli-Chr2	7507259	[C/A]	Ca18111	Non-Synonymous-CDS	Peptidase C19,ubiquitin carboxyl-terminalhydrolase 2
CWSNP1260	Ca-Kabuli-Chr2	7633520	[G/A]	-	Intergenic	-
CWSNP1261	Ca-Kabuli-Chr2	7633547	[C/T]	-	Intergenic	-
CWSNP1262	Ca-Kabuli-Chr2	7633564	[G/T]	-	Intergenic	-
CWSNP1263	Ca-Kabuli-Chr2	7633572	[T/C]	-	Intergenic	-
CWSNP1264	Ca-Kabuli-Chr2	7633592	[G/A]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP1265	Ca-Kabuli-Chr2	7633585	[G/A]	-	Intergenic	-
CWSNP1266	Ca-Kabuli-Chr2	7633869	[G/A]	-	Intergenic	-
CWSNP1267	Ca-Kabuli-Chr2	7633826	[G/A]	-	Intergenic	-
CWSNP1268	Ca-Kabuli-Chr2	7633818	[G/A]	-	Intergenic	-
CWSNP1269	Ca-Kabuli-Chr2	7633816	[G/A]	-	Intergenic	-
CWSNP1270	Ca-Kabuli-Chr2	7633813	[G/T]	-	Intergenic	-
CWSNP1271	Ca-Kabuli-Chr2	7633793	[C/T]	-	Intergenic	-
CWSNP1272	Ca-Kabuli-Chr2	7679627	[A/T]	Ca18121	Non-Synonymous-CDS	Multiantimicrobial extrusion protein
CWSNP1273	Ca-Kabuli-Chr2	7679693	[C/G]	Ca18121	Non-Synonymous-CDS	Multiantimicrobial extrusion protein
CWSNP1274	Ca-Kabuli-Chr2	7701189	[T/G]	Ca18123	Non-Synonymous-CDS	Multiantimicrobial extrusion protein
CWSNP1275	Ca-Kabuli-Chr2	7701199	[T/G]	Ca18123	Non-Synonymous-CDS	Multiantimicrobial extrusion protein
CWSNP1276	Ca-Kabuli-Chr2	7701230	[T/G]	Ca18123	Synonymous-CDS	Multiantimicrobial extrusion protein
CWSNP1277	Ca-Kabuli-Chr2	7702468	[A/T]	Ca18123	Intron	Multiantimicrobial extrusion protein
CWSNP1278	Ca-Kabuli-Chr2	7708663	[T/C]	-	Intergenic	-
CWSNP1279	Ca-Kabuli-Chr2	7708660	[G/A]	-	Intergenic	-
CWSNP1280	Ca-Kabuli-Chr2	7708630	[C/A]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP1281	Ca-Kabuli-Chr2	7708596	[T/C]	-	Intergenic	-
CWSNP1282	Ca-Kabuli-Chr2	7708678	[C/T]	-	Intergenic	-
CWSNP1283	Ca-Kabuli-Chr2	7712181	[C/T]	-	Intergenic	-
CWSNP1284	Ca-Kabuli-Chr2	7714392	[G/A]	Ca18124	Non-Synonymous-CDS	-
CWSNP1285	Ca-Kabuli-Chr2	7714454	[A/G]	Ca18124	Synonymous-CDS	-
CWSNP1286	Ca-Kabuli-Chr2	7714463	[T/C]	Ca18124	Synonymous-CDS	-
CWSNP1287	Ca-Kabuli-Chr2	7753419	[G/C]	-	DRR	-
CWSNP1288	Ca-Kabuli-Chr2	7753425	[T/C]	-	DRR	-
CWSNP1289	Ca-Kabuli-Chr2	7753440	[C/T]	-	DRR	-
CWSNP1290	Ca-Kabuli-Chr2	7819281	[T/C]	-	DRR	-
CWSNP1291	Ca-Kabuli-Chr2	7870919	[G/T]	-	DRR	-
CWSNP1292	Ca-Kabuli-Chr2	7870943	[T/G]	-	DRR	-
CWSNP1293	Ca-Kabuli-Chr2	7938890	[T/C]	Ca18144	Synonymous-CDS	Allinase,C-terminal
CWSNP1294	Ca-Kabuli-Chr2	8337517	[C/T]	Ca21468	Intron	Phosphatidyl inositol 3-/4-kinase, catalytic
CWSNP1295	Ca-Kabuli-Chr2	8484840	[A/T]	-	URR	-
CWSNP1296	Ca-Kabuli-Chr2	8487331	[T/A]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP1297	Ca-Kabuli-Chr2	8487343	[C/T]	-	Intergenic	-
CWSNP1298	Ca-Kabuli-Chr2	8489241	[C/A]	-	URR	-
CWSNP1299	Ca-Kabuli-Chr2	8489237	[G/A]	-	URR	-
CWSNP1300	Ca-Kabuli-Chr2	8489172	[C/A]	-	URR	-
CWSNP1301	Ca-Kabuli-Chr2	9621953	[A/C]	Ca25089	Synonymous-CDS	Actin-binding FH2/DRF auto regulatory
CWSNP1302	Ca-Kabuli-Chr2	9740010	[A/G]	-	Intergenic	-
CWSNP1303	Ca-Kabuli-Chr2	9740007	[A/G]	-	Intergenic	-
CWSNP1304	Ca-Kabuli-Chr2	9739980	[G/C]	-	Intergenic	-
CWSNP1305	Ca-Kabuli-Chr2	9739974	[T/C]	-	Intergenic	-
CWSNP1306	Ca-Kabuli-Chr2	9739959	[T/C]	-	Intergenic	-
CWSNP1307	Ca-Kabuli-Chr2	9739965	[A/G]	-	Intergenic	-
CWSNP1308	Ca-Kabuli-Chr2	9756955	[G/A]	-	Intergenic	-
CWSNP1309	Ca-Kabuli-Chr2	9756910	[G/A]	-	Intergenic	-
CWSNP1310	Ca-Kabuli-Chr2	9862794	[A/G]	Ca20401	Intron	Protein kinase, catalytic domain
CWSNP1311	Ca-Kabuli-Chr2	10060196	[G/T]	-	Intergenic	-
CWSNP1312	Ca-Kabuli-Chr2	10060200	[G/T]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP1313	Ca-Kabuli-Chr2	10060207	[C/T]	-	Intergenic	-
CWSNP1314	Ca-Kabuli-Chr2	10067195	[T/A]	Ca20380	Intron	SANT domain, DNA binding
CWSNP1315	Ca-Kabuli-Chr2	10067451	[A/T]	Ca20380	Intron	SANT domain, DNA binding
CWSNP1316	Ca-Kabuli-Chr2	10220396	[T/C]	-	DRR	-
CWSNP1317	Ca-Kabuli-Chr2	10294635	[T/C]	Ca17594	Intron	ATPase,P-type,K/Mg/Cd/Cu/Zn/Na/Ca/Na/H-transporter
CWSNP1318	Ca-Kabuli-Chr2	10540735	[C/T]	Ca17577	Non-Synonymous-CDS	-
CWSNP1319	Ca-Kabuli-Chr2	10705982	[C/T]	-	Intergenic	-
CWSNP1320	Ca-Kabuli-Chr2	10760939	[G/A]	-	URR	-
CWSNP1321	Ca-Kabuli-Chr2	10761036	[C/G]	-	URR	-
CWSNP1322	Ca-Kabuli-Chr2	11799472	[G/A]	-	Intergenic	-
CWSNP1323	Ca-Kabuli-Chr2	12252370	[A/G]	-	Intergenic	-
CWSNP1324	Ca-Kabuli-Chr2	12389166	[G/T]	-	Intergenic	-
CWSNP1325	Ca-Kabuli-Chr2	12389112	[G/A]	-	Intergenic	-
CWSNP1326	Ca-Kabuli-Chr2	12528825	[C/G]	Ca18079	Non-Synonymous-CDS	Zinc finger,Dof-type
CWSNP1327	Ca-Kabuli-Chr2	12794438	[G/A]	Ca18093	Non-Synonymous-CDS	EF-HAND2
CWSNP1328	Ca-Kabuli-Chr2	13079445	[T/G]	Ca11686	Synonymous-CDS	Protein of unknown function DUF3110

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP1329	Ca-Kabuli-Chr2	13355018	[T/G]	-	URR	-
CWSNP1330	Ca-Kabuli-Chr2	13355022	[G/T]	-	URR	-
CWSNP1331	Ca-Kabuli-Chr2	13355033	[A/T]	-	URR	-
CWSNP1332	Ca-Kabuli-Chr2	13355615	[T/G]	-	URR	-
CWSNP1333	Ca-Kabuli-Chr2	13434995	[A/C]	Ca11665	Intron	Glutamyl-tRNA(Gln)amidotransferase,subunitB/E,N-terminal
CWSNP1334	Ca-Kabuli-Chr2	13437317	[A/G]	Ca11665	Intron	Glutamyl-tRNA(Gln)amidotransferase,subunitB/E,N-terminal
CWSNP1335	Ca-Kabuli-Chr2	13529057	[G/A]	-	URR	-
CWSNP1336	Ca-Kabuli-Chr2	13782906	[C/A]	Ca11639	Intron	Remorin,C-terminal
CWSNP1337	Ca-Kabuli-Chr2	14136013	[T/G]	-	Intergenic	-
CWSNP1338	Ca-Kabuli-Chr2	14136223	[A/C]	-	Intergenic	-
CWSNP1339	Ca-Kabuli-Chr2	15234951	[C/A]	Ca18564	Synonymous-CDS	Protein of unknown function DUF1675
CWSNP1340	Ca-Kabuli-Chr2	15390673	[A/G]	Ca18558	Intron	Protein kinase, catalytic domain
CWSNP1341	Ca-Kabuli-Chr2	16460174	[G/A]	-	Intergenic	-
CWSNP1342	Ca-Kabuli-Chr2	16460142	[A/G]	-	Intergenic	-
CWSNP1343	Ca-Kabuli-Chr2	16460097	[C/A]	-	Intergenic	-
CWSNP1344	Ca-Kabuli-Chr2	16460175	[C/A]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP1345	Ca-Kabuli-Chr2	16462095	[A/G]	-	Intergenic	-
CWSNP1346	Ca-Kabuli-Chr2	16462089	[C/T]	-	Intergenic	-
CWSNP1347	Ca-Kabuli-Chr2	16555733	[C/T]	Ca22041	Intron	BSD
CWSNP1348	Ca-Kabuli-Chr2	16555790	[C/G]	Ca22041	Intron	BSD
CWSNP1349	Ca-Kabuli-Chr2	16563117	[A/T]	Ca22041	Intron	BSD
CWSNP1350	Ca-Kabuli-Chr2	16563121	[A/T]	Ca22041	Intron	BSD
CWSNP1351	Ca-Kabuli-Chr2	16563123	[C/T]	Ca22041	Intron	BSD
CWSNP1352	Ca-Kabuli-Chr2	16563125	[A/T]	Ca22041	Intron	BSD
CWSNP1353	Ca-Kabuli-Chr2	16563133	[A/T]	Ca22041	Intron	BSD
CWSNP1354	Ca-Kabuli-Chr2	16705119	[C/T]	-	Intergenic	-
CWSNP1355	Ca-Kabuli-Chr2	17578623	[G/A]	-	Intergenic	-
CWSNP1356	Ca-Kabuli-Chr2	17578633	[C/G]	-	Intergenic	-
CWSNP1357	Ca-Kabuli-Chr2	17578689	[G/A]	-	Intergenic	-
CWSNP1358	Ca-Kabuli-Chr2	17578676	[T/C]	-	Intergenic	-
CWSNP1359	Ca-Kabuli-Chr2	17578701	[A/C]	-	Intergenic	-
CWSNP1360	Ca-Kabuli-Chr2	17578706	[A/T]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP1361	Ca-Kabuli-Chr2	17578740	[A/G]	-	Intergenic	-
CWSNP1362	Ca-Kabuli-Chr2	17681915	[C/T]	-	Intergenic	-
CWSNP1363	Ca-Kabuli-Chr2	18312200	[T/C]	-	Intergenic	-
CWSNP1364	Ca-Kabuli-Chr2	18395410	[T/C]	-	Intergenic	-
CWSNP1365	Ca-Kabuli-Chr2	18631522	[A/C]	-	Intergenic	-
CWSNP1366	Ca-Kabuli-Chr2	18671692	[C/A]	-	Intergenic	-
CWSNP1367	Ca-Kabuli-Chr2	18671672	[T/A]	-	Intergenic	-
CWSNP1368	Ca-Kabuli-Chr2	18671666	[C/T]	-	Intergenic	-
CWSNP1369	Ca-Kabuli-Chr2	18671637	[G/A]	-	Intergenic	-
CWSNP1370	Ca-Kabuli-Chr2	18671618	[T/G]	-	Intergenic	-
CWSNP1371	Ca-Kabuli-Chr2	18671723	[C/G]	-	Intergenic	-
CWSNP1372	Ca-Kabuli-Chr2	18671746	[C/T]	-	Intergenic	-
CWSNP1373	Ca-Kabuli-Chr2	18671756	[T/A]	-	Intergenic	-
CWSNP1374	Ca-Kabuli-Chr2	18671765	[C/A]	-	Intergenic	-
CWSNP1375	Ca-Kabuli-Chr2	20392224	[A/G]	Ca25924	Synonymous-CDS	-
CWSNP1376	Ca-Kabuli-Chr2	20762205	[A/T]	Ca23762	Synonymous-CDS	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP1377	Ca-Kabuli-Chr2	21000509	[C/T]	-	Intergenic	-
CWSNP1378	Ca-Kabuli-Chr2	21000466	[C/T]	-	Intergenic	-
CWSNP1379	Ca-Kabuli-Chr2	21000463	[C/T]	-	Intergenic	-
CWSNP1380	Ca-Kabuli-Chr2	21849874	[A/T]	Ca23059	Intron	-
CWSNP1381	Ca-Kabuli-Chr2	21965365	[T/C]	-	Intergenic	-
CWSNP1382	Ca-Kabuli-Chr2	22158602	[C/T]	Ca15007	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP1383	Ca-Kabuli-Chr2	22190743	[C/T]	-	Intergenic	-
CWSNP1384	Ca-Kabuli-Chr2	22190748	[G/T]	-	Intergenic	-
CWSNP1385	Ca-Kabuli-Chr2	22190751	[C/T]	-	Intergenic	-
CWSNP1386	Ca-Kabuli-Chr2	22190753	[C/T]	-	Intergenic	-
CWSNP1387	Ca-Kabuli-Chr2	22190815	[C/T]	-	Intergenic	-
CWSNP1388	Ca-Kabuli-Chr2	22347405	[C/T]	Ca15004	Intron	Cyclin,C-terminal
CWSNP1389	Ca-Kabuli-Chr2	22457234	[G/A]	-	URR	-
CWSNP1390	Ca-Kabuli-Chr2	22457215	[G/A]	-	URR	-
CWSNP1391	Ca-Kabuli-Chr2	22457233	[C/T]	-	URR	-
CWSNP1392	Ca-Kabuli-Chr2	22457263	[G/A]	-	URR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP1393	Ca-Kabuli-Chr2	22457257	[G/A]	-	URR	-
CWSNP1394	Ca-Kabuli-Chr2	22483072	[C/T]	-	Intergenic	-
CWSNP1395	Ca-Kabuli-Chr2	22483067	[G/A]	-	Intergenic	-
CWSNP1396	Ca-Kabuli-Chr2	22483052	[C/T]	-	Intergenic	-
CWSNP1397	Ca-Kabuli-Chr2	22483019	[A/T]	-	Intergenic	-
CWSNP1398	Ca-Kabuli-Chr2	22703091	[A/C]	Ca14990	Intron	RhoGTPase-activating protein domain
CWSNP1399	Ca-Kabuli-Chr2	22820616	[C/G]	Ca14985	Intron	Peptidase C19,ubiquitin carboxyl-terminalhydrolase 2
CWSNP1400	Ca-Kabuli-Chr2	22820588	[A/C]	Ca14985	Intron	Peptidase C19,ubiquitin carboxyl-terminalhydrolase 2
CWSNP1401	Ca-Kabuli-Chr2	22897694	[G/A]	-	Intergenic	-
CWSNP1402	Ca-Kabuli-Chr2	22897647	[T/C]	-	Intergenic	-
CWSNP1403	Ca-Kabuli-Chr2	23247801	[C/T]	-	Intergenic	-
CWSNP1404	Ca-Kabuli-Chr2	23282374	[T/C]	-	Intergenic	-
CWSNP1405	Ca-Kabuli-Chr2	23329424	[C/T]	-	Intergenic	-
CWSNP1406	Ca-Kabuli-Chr2	23329440	[G/A]	-	Intergenic	-
CWSNP1407	Ca-Kabuli-Chr2	23439966	[T/C]	Ca14960	Non-Synonymous-CDS	Ubiquitin-associated/translation elongation factor EF1B, N-terminal
CWSNP1408	Ca-Kabuli-Chr2	23910254	[T/C]	-	DRR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP1409	Ca-Kabuli-Chr2	24048087	[A/C]	Ca21673	Intron	PUCcprotein
CWSNP1410	Ca-Kabuli-Chr2	24511053	[G/A]	-	Intergenic	-
CWSNP1411	Ca-Kabuli-Chr2	24511114	[G/A]	-	Intergenic	-
CWSNP1412	Ca-Kabuli-Chr2	24511121	[G/A]	-	Intergenic	-
CWSNP1413	Ca-Kabuli-Chr2	24511119	[T/G]	-	Intergenic	-
CWSNP1414	Ca-Kabuli-Chr2	24511116	[C/A]	-	Intergenic	-
CWSNP1415	Ca-Kabuli-Chr2	24709295	[G/A]	Ca22892	Intron	DNA mismatch repair protein MutS, C-terminaldomain
CWSNP1416	Ca-Kabuli-Chr2	24741195	[C/T]	-	URR	-
CWSNP1417	Ca-Kabuli-Chr2	24817957	[G/A]	-	Intergenic	-
CWSNP1418	Ca-Kabuli-Chr2	24817945	[C/T]	-	Intergenic	-
CWSNP1419	Ca-Kabuli-Chr2	24817940	[G/A]	-	Intergenic	-
CWSNP1420	Ca-Kabuli-Chr2	24817934	[A/G]	-	Intergenic	-
CWSNP1421	Ca-Kabuli-Chr2	24817921	[G/A]	-	Intergenic	-
CWSNP1422	Ca-Kabuli-Chr2	25022971	[A/G]	Ca14236	Non-Synonymous-CDS	Zinc finger,B-box
CWSNP1423	Ca-Kabuli-Chr2	25163062	[C/G]	Ca14248	Intron	Glycosidehydrolase,family3,N-terminal
CWSNP1424	Ca-Kabuli-Chr2	25317391	[A/G]	Ca14265	Synonymous-CDS	ABC transporter-like

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP1425	Ca-Kabuli-Chr2	25493973	[T/G]	Ca14279	Synonymous-CDS	Chaperonin ClpA/B
CWSNP1426	Ca-Kabuli-Chr2	25508679	[A/G]	Ca14280	Non-Synonymous-CDS	Zinc finger,CCCH-type
CWSNP1427	Ca-Kabuli-Chr2	25930490	[G/A]	Ca14304	Non-Synonymous-CDS	Phospho glycerate/bisphosphoglycerate mutase, active site
CWSNP1428	Ca-Kabuli-Chr2	26051667	[T/G]	-	Intergenic	-
CWSNP1429	Ca-Kabuli-Chr2	26092881	[C/G]	-	Intergenic	-
CWSNP1430	Ca-Kabuli-Chr2	26092913	[C/A]	-	Intergenic	-
CWSNP1431	Ca-Kabuli-Chr2	26092928	[T/G]	-	Intergenic	-
CWSNP1432	Ca-Kabuli-Chr2	26121495	[A/C]	Ca14316	Synonymous-CDS	-
CWSNP1433	Ca-Kabuli-Chr2	26121491	[T/G]	Ca14316	Synonymous-CDS	-
CWSNP1434	Ca-Kabuli-Chr2	26461867	[C/G]	Ca17247	Non-Synonymous-CDS	Metallo-dependent phosphatase
CWSNP1435	Ca-Kabuli-Chr2	26502153	[T/C]	-	Intergenic	-
CWSNP1436	Ca-Kabuli-Chr2	26706849	[A/G]	-	DRR	-
CWSNP1437	Ca-Kabuli-Chr2	27057582	[C/T]	Ca15636	Intron	-
CWSNP1438	Ca-Kabuli-Chr2	27063749	[C/A]	Ca15636	Non-Synonymous-CDS	-
CWSNP1439	Ca-Kabuli-Chr2	27134574	[A/G]	-	Intergenic	-
CWSNP1440	Ca-Kabuli-Chr2	27134560	[G/T]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP1441	Ca-Kabuli-Chr2	27182855	[T/C]	-	Intergenic	-
CWSNP1442	Ca-Kabuli-Chr2	27724425	[G/T]	Ca15674	Synonymous-CDS	BTB/POZ-like
CWSNP1443	Ca-Kabuli-Chr2	27766561	[T/A]	Ca15677	Non-Synonymous-CDS	Cation efflux protein
CWSNP1444	Ca-Kabuli-Chr2	27766605	[A/C]	Ca15677	Synonymous-CDS	Cation efflux protein
CWSNP1445	Ca-Kabuli-Chr2	27766594	[C/A]	Ca15677	Non-Synonymous-CDS	Cation efflux protein
CWSNP1446	Ca-Kabuli-Chr2	27835871	[G/A]	-	DRR	-
CWSNP1447	Ca-Kabuli-Chr2	27835850	[G/A]	-	DRR	-
CWSNP1448	Ca-Kabuli-Chr2	27835843	[C/A]	-	DRR	-
CWSNP1449	Ca-Kabuli-Chr2	27835837	[C/T]	-	DRR	-
CWSNP1450	Ca-Kabuli-Chr2	27835832	[C/T]	-	DRR	-
CWSNP1451	Ca-Kabuli-Chr2	28018158	[T/C]	-	DRR	-
CWSNP1452	Ca-Kabuli-Chr2	28061049	[G/T]	Ca14397	Non-Synonymous-CDS	Uncharacterised protein familyUPF0497,trans-membraneplant
CWSNP1453	Ca-Kabuli-Chr2	28084953	[C/T]	-	DRR	-
CWSNP1454	Ca-Kabuli-Chr2	28407316	[T/C]	-	Intergenic	-
CWSNP1455	Ca-Kabuli-Chr2	28407324	[C/T]	-	Intergenic	-
CWSNP1456	Ca-Kabuli-Chr2	28534235	[T/C]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP1457	Ca-Kabuli-Chr2	28741764	[T/C]	-	Intergenic	-
CWSNP1458	Ca-Kabuli-Chr2	28944712	[T/C]	-	DRR	-
CWSNP1459	Ca-Kabuli-Chr2	28944707	[A/C]	-	DRR	-
CWSNP1460	Ca-Kabuli-Chr2	28949911	[A/C]	Ca14342	Non-Synonymous-CDS	Glycosidehydrolase,family17
CWSNP1461	Ca-Kabuli-Chr2	28949919	[A/T]	Ca14342	Non-Synonymous-CDS	Glycosidehydrolase,family17
CWSNP1462	Ca-Kabuli-Chr2	29122589	[T/G]	Ca14327	Non-Synonymous-CDS	PeptidaseA1
CWSNP1463	Ca-Kabuli-Chr2	30335160	[T/C]	-	Intergenic	-
CWSNP1464	Ca-Kabuli-Chr2	30335212	[T/A]	-	Intergenic	-
CWSNP1465	Ca-Kabuli-Chr2	30335194	[A/G]	-	Intergenic	-
CWSNP1466	Ca-Kabuli-Chr2	30363957	[C/A]	-	Intergenic	-
CWSNP1467	Ca-Kabuli-Chr2	30364073	[T/A]	-	Intergenic	-
CWSNP1468	Ca-Kabuli-Chr2	30364042	[A/G]	-	Intergenic	-
CWSNP1469	Ca-Kabuli-Chr2	30364025	[T/C]	-	Intergenic	-
CWSNP1470	Ca-Kabuli-Chr2	30370411	[T/C]	-	DRR	-
CWSNP1471	Ca-Kabuli-Chr2	30467551	[A/T]	Ca12503	Intron	Mov34/MPN/PAD-1
CWSNP1472	Ca-Kabuli-Chr2	30508454	[T/C]	Ca12501	Intron	EXTL2, alpha-1,4-N-acetyl hexosaminyl transferase

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP1473	Ca-Kabuli-Chr2	30530642	[A/T]	Ca12498	Synonymous-CDS	Ribosomal protein L10/acidic P0
CWSNP1474	Ca-Kabuli-Chr2	30537667	[A/T]	-	URR	-
CWSNP1475	Ca-Kabuli-Chr2	30537673	[A/G]	-	URR	-
CWSNP1476	Ca-Kabuli-Chr2	30537687	[T/C]	-	URR	-
CWSNP1477	Ca-Kabuli-Chr2	30537701	[T/A]	-	URR	-
CWSNP1478	Ca-Kabuli-Chr2	30537953	[T/C]	-	URR	-
CWSNP1479	Ca-Kabuli-Chr2	30686920	[C/T]	Ca12488	Intron	HAD-superfamily hydrolase,subfamily IG, 5'-nucleotidase
CWSNP1480	Ca-Kabuli-Chr2	30867547	[G/A]	-	DRR	-
CWSNP1481	Ca-Kabuli-Chr2	30880148	[A/G]	Ca12473	Intron	Synaptobrevin
CWSNP1482	Ca-Kabuli-Chr2	30880243	[G/C]	Ca12473	Intron	Synaptobrevin
CWSNP1483	Ca-Kabuli-Chr2	30880246	[G/A]	Ca12473	Intron	Synaptobrevin
CWSNP1484	Ca-Kabuli-Chr2	30880303	[T/A]	Ca12473	Intron	Synaptobrevin
CWSNP1485	Ca-Kabuli-Chr2	30880302	[T/C]	Ca12473	Intron	Synaptobrevin
CWSNP1486	Ca-Kabuli-Chr2	30880282	[A/G]	Ca12473	Intron	Synaptobrevin
CWSNP1487	Ca-Kabuli-Chr2	30921092	[C/A]	Ca12470	Synonymous-CDS	-
CWSNP1488	Ca-Kabuli-Chr2	30921758	[C/T]	Ca12470	Intron	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP1489	Ca-Kabuli-Chr2	30921917	[C/A]	Ca12470	Intron	-
CWSNP1490	Ca-Kabuli-Chr2	30921923	[A/G]	Ca12470	Intron	-
CWSNP1491	Ca-Kabuli-Chr2	30954317	[G/A]	Ca12469	Intron	Clathrin,heavy chain/VPS,7-fold repeat
CWSNP1492	Ca-Kabuli-Chr2	30954305	[T/G]	Ca12469	Intron	Clathrin,heavy chain/VPS,7-fold repeat
CWSNP1493	Ca-Kabuli-Chr2	30977572	[A/G]	-	Intergenic	-
CWSNP1494	Ca-Kabuli-Chr2	30977528	[C/T]	-	Intergenic	-
CWSNP1495	Ca-Kabuli-Chr2	30977522	[A/T]	-	Intergenic	-
CWSNP1496	Ca-Kabuli-Chr2	30977508	[A/T]	-	Intergenic	-
CWSNP1497	Ca-Kabuli-Chr2	30997769	[T/A]	Ca12465	Synonymous-CDS	Pathogenesis-related transcriptional factor/ERF, DNA-binding
CWSNP1498	Ca-Kabuli-Chr2	30997780	[A/C]	Ca12465	Synonymous-CDS	Pathogenesis-related transcriptional factor/ERF, DNA-binding
CWSNP1499	Ca-Kabuli-Chr2	30997784	[T/A]	Ca12465	Synonymous-CDS	Pathogenesis-related transcriptional factor/ERF, DNA-binding
CWSNP1500	Ca-Kabuli-Chr2	31005847	[T/G]	Ca12464	Synonymous-CDS	Lateral organ boundaries, LOB
CWSNP1501	Ca-Kabuli-Chr2	31005845	[C/T]	Ca12464	Synonymous-CDS	Lateral organ boundaries, LOB
CWSNP1502	Ca-Kabuli-Chr2	31055007	[G/A]	Ca12459	Intron	Rad21/Rec8-like protein,C-terminal,eukaryotic
CWSNP1503	Ca-Kabuli-Chr2	31088681	[G/T]	-	DRR	-
CWSNP1504	Ca-Kabuli-Chr2	31088676	[G/C]	-	DRR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP1505	Ca-Kabuli-Chr2	31088670	[C/T]	-	DRR	-
CWSNP1506	Ca-Kabuli-Chr2	31088648	[A/G]	-	DRR	-
CWSNP1507	Ca-Kabuli-Chr2	31088645	[A/C]	-	DRR	-
CWSNP1508	Ca-Kabuli-Chr2	31088778	[A/T]	-	DRR	-
CWSNP1509	Ca-Kabuli-Chr2	31088800	[T/C]	-	DRR	-
CWSNP1510	Ca-Kabuli-Chr2	31088882	[A/G]	-	DRR	-
CWSNP1511	Ca-Kabuli-Chr2	31109311	[G/T]	-	URR	-
CWSNP1512	Ca-Kabuli-Chr2	31109358	[C/T]	-	URR	-
CWSNP1513	Ca-Kabuli-Chr2	31109481	[G/A]	-	URR	-
CWSNP1514	Ca-Kabuli-Chr2	31109441	[C/G]	-	URR	-
CWSNP1515	Ca-Kabuli-Chr2	31109435	[G/A]	-	URR	-
CWSNP1516	Ca-Kabuli-Chr2	31109427	[C/T]	-	URR	-
CWSNP1517	Ca-Kabuli-Chr2	31141019	[G/A]	-	DRR	-
CWSNP1518	Ca-Kabuli-Chr2	31188355	[A/G]	Ca12445	Synonymous-CDS	Multi copper oxidase, type1
CWSNP1519	Ca-Kabuli-Chr2	31201872	[T/C]	Ca12444	Intron	Phox homologous domain
CWSNP1520	Ca-Kabuli-Chr2	31201859	[T/A]	Ca12444	Intron	Phox homologous domain

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP1521	Ca-Kabuli-Chr2	31203154	[G/A]	Ca12444	Synonymous-CDS	Phox homologous domain
CWSNP1522	Ca-Kabuli-Chr2	31427861	[A/G]	Ca12419	Non-Synonymous-CDS	Protein of unknown function DUF827,plant
CWSNP1523	Ca-Kabuli-Chr2	31427902	[G/C]	Ca12419	Non-Synonymous-CDS	Protein of unknown function DUF827,plant
CWSNP1524	Ca-Kabuli-Chr2	31428024	[T/G]	Ca12419	Non-Synonymous-CDS	Protein of unknown function DUF827,plant
CWSNP1525	Ca-Kabuli-Chr2	31428132	[G/A]	Ca12419	Synonymous-CDS	Protein of unknown function DUF827,plant
CWSNP1526	Ca-Kabuli-Chr2	31428405	[T/C]	Ca12419	Synonymous-CDS	Protein of unknown function DUF827,plant
CWSNP1527	Ca-Kabuli-Chr2	31428429	[T/G]	Ca12419	Non-Synonymous-CDS	Protein of unknown function DUF827,plant
CWSNP1528	Ca-Kabuli-Chr2	31534265	[A/C]	-	Intergenic	-
CWSNP1529	Ca-Kabuli-Chr2	31534283	[A/G]	-	Intergenic	-
CWSNP1530	Ca-Kabuli-Chr2	31534455	[T/C]	-	Intergenic	-
CWSNP1531	Ca-Kabuli-Chr2	31686714	[C/T]	-	Intergenic	-
CWSNP1532	Ca-Kabuli-Chr2	31756777	[G/T]	-	Intergenic	-
CWSNP1533	Ca-Kabuli-Chr2	31847033	[A/C]	-	Intergenic	-
CWSNP1534	Ca-Kabuli-Chr2	31881918	[G/T]	Ca17830	Non-Synonymous-CDS	RZZcomplex,subunitZw10
CWSNP1535	Ca-Kabuli-Chr2	31885934	[A/G]	-	DRR	-
CWSNP1536	Ca-Kabuli-Chr2	31908694	[G/A]	Ca17826	Synonymous-CDS	Zinc finger,RING-type

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP1537	Ca-Kabuli-Chr2	31908742	[G/A]	Ca17826	Synonymous-CDS	Zinc finger,RING-type
CWSNP1538	Ca-Kabuli-Chr2	31908803	[C/T]	Ca17826	Intron	Zinc finger,RING-type
CWSNP1539	Ca-Kabuli-Chr2	31908787	[G/A]	Ca17826	Intron	Zinc finger,RING-type
CWSNP1540	Ca-Kabuli-Chr2	31908845	[T/A]	Ca17826	Intron	Zinc finger,RING-type
CWSNP1541	Ca-Kabuli-Chr2	31908857	[C/T]	Ca17826	Intron	Zinc finger,RING-type
CWSNP1542	Ca-Kabuli-Chr2	31941463	[T/C]	Ca17823	Synonymous-CDS	Zinc finger,CCCH-type
CWSNP1543	Ca-Kabuli-Chr2	31941554	[A/T]	Ca17823	Intron	Zinc finger,CCCH-type
CWSNP1544	Ca-Kabuli-Chr2	32003536	[G/T]	-	Intergenic	-
CWSNP1545	Ca-Kabuli-Chr2	32017361	[G/A]	-	Intergenic	-
CWSNP1546	Ca-Kabuli-Chr2	32049523	[C/A]	Ca17817	Non-Synonymous-CDS	-
CWSNP1547	Ca-Kabuli-Chr2	32049525	[A/C]	Ca17817	Synonymous-CDS	-
CWSNP1548	Ca-Kabuli-Chr2	32058591	[T/C]	Ca17816	Synonymous-CDS	Ankyrin repeat
CWSNP1549	Ca-Kabuli-Chr2	32061053	[C/T]	Ca17816	Intron	Ankyrin repeat
CWSNP1550	Ca-Kabuli-Chr2	32061054	[T/C]	Ca17816	Intron	Ankyrin repeat
CWSNP1551	Ca-Kabuli-Chr2	32062010	[A/C]	Ca17816	Synonymous-CDS	Ankyrin repeat
CWSNP1552	Ca-Kabuli-Chr2	32071107	[C/G]	-	DRR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP1553	Ca-Kabuli-Chr2	32080002	[T/C]	-	Intergenic	-
CWSNP1554	Ca-Kabuli-Chr2	32080007	[T/C]	-	Intergenic	-
CWSNP1555	Ca-Kabuli-Chr2	32080010	[G/C]	-	Intergenic	-
CWSNP1556	Ca-Kabuli-Chr2	32080016	[A/T]	-	Intergenic	-
CWSNP1557	Ca-Kabuli-Chr2	32080022	[C/A]	-	Intergenic	-
CWSNP1558	Ca-Kabuli-Chr2	32080037	[A/G]	-	Intergenic	-
CWSNP1559	Ca-Kabuli-Chr2	32096192	[A/C]	-	Intergenic	-
CWSNP1560	Ca-Kabuli-Chr2	32096186	[T/A]	-	Intergenic	-
CWSNP1561	Ca-Kabuli-Chr2	32096180	[C/G]	-	Intergenic	-
CWSNP1562	Ca-Kabuli-Chr2	32096177	[C/T]	-	Intergenic	-
CWSNP1563	Ca-Kabuli-Chr2	32096172	[C/T]	-	Intergenic	-
CWSNP1564	Ca-Kabuli-Chr2	32099907	[T/C]	-	Intergenic	-
CWSNP1565	Ca-Kabuli-Chr2	32109805	[G/A]	-	Intergenic	-
CWSNP1566	Ca-Kabuli-Chr2	32109811	[G/A]	-	Intergenic	-
CWSNP1567	Ca-Kabuli-Chr2	32109813	[C/T]	-	Intergenic	-
CWSNP1568	Ca-Kabuli-Chr2	32109821	[G/A]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP1569	Ca-Kabuli-Chr2	32109827	[T/C]	-	Intergenic	-
CWSNP1570	Ca-Kabuli-Chr2	32109859	[A/C]	-	Intergenic	-
CWSNP1571	Ca-Kabuli-Chr2	32109904	[T/A]	-	Intergenic	-
CWSNP1572	Ca-Kabuli-Chr2	32109895	[A/G]	-	Intergenic	-
CWSNP1573	Ca-Kabuli-Chr2	32109892	[T/A]	-	Intergenic	-
CWSNP1574	Ca-Kabuli-Chr2	32119094	[A/T]	-	Intergenic	-
CWSNP1575	Ca-Kabuli-Chr2	32119268	[T/A]	-	Intergenic	-
CWSNP1576	Ca-Kabuli-Chr2	32119274	[T/C]	-	Intergenic	-
CWSNP1577	Ca-Kabuli-Chr2	32119331	[A/T]	-	Intergenic	-
CWSNP1578	Ca-Kabuli-Chr2	32129272	[T/C]	-	Intergenic	-
CWSNP1579	Ca-Kabuli-Chr2	32129395	[C/G]	-	Intergenic	-
CWSNP1580	Ca-Kabuli-Chr2	32140939	[A/T]	-	DRR	-
CWSNP1581	Ca-Kabuli-Chr2	32140948	[A/C]	-	DRR	-
CWSNP1582	Ca-Kabuli-Chr2	32140987	[A/G]	-	DRR	-
CWSNP1583	Ca-Kabuli-Chr2	32141047	[A/G]	-	DRR	-
CWSNP1584	Ca-Kabuli-Chr2	32141038	[T/C]	-	DRR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP1585	Ca-Kabuli-Chr2	32141019	[G/A]	-	DRR	-
CWSNP1586	Ca-Kabuli-Chr2	32141013	[G/C]	-	DRR	-
CWSNP1587	Ca-Kabuli-Chr2	32141002	[A/T]	-	DRR	-
CWSNP1588	Ca-Kabuli-Chr2	32140998	[G/T]	-	DRR	-
CWSNP1589	Ca-Kabuli-Chr2	32140990	[G/A]	-	DRR	-
CWSNP1590	Ca-Kabuli-Chr2	32203032	[A/G]	Ca10295	Synonymous-CDS	PeptidaseS8/S53,subtilisin/kexin/sedolisin
CWSNP1591	Ca-Kabuli-Chr2	32203036	[A/T]	Ca10295	Non-Synonymous-CDS	PeptidaseS8/S53,subtilisin/kexin/sedolisin
CWSNP1592	Ca-Kabuli-Chr2	32242818	[T/G]	-	DRR	-
CWSNP1593	Ca-Kabuli-Chr2	32348054	[T/A]	Ca10283	Intron	-
CWSNP1594	Ca-Kabuli-Chr2	32348087	[A/C]	Ca10283	Intron	-
CWSNP1595	Ca-Kabuli-Chr2	32348119	[G/T]	Ca10283	Intron	-
CWSNP1596	Ca-Kabuli-Chr2	32348793	[G/A]	Ca10283	Intron	-
CWSNP1597	Ca-Kabuli-Chr2	32348870	[T/C]	Ca10283	Intron	-
CWSNP1598	Ca-Kabuli-Chr2	32411994	[G/T]	-	URR	-
CWSNP1599	Ca-Kabuli-Chr2	32412000	[G/T]	-	URR	-
CWSNP1600	Ca-Kabuli-Chr2	32481969	[C/T]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP1601	Ca-Kabuli-Chr2	32481983	[G/T]	-	Intergenic	-
CWSNP1602	Ca-Kabuli-Chr2	32545320	[A/G]	Ca10268	Synonymous-CDS	Zinc finger,CCHC-type
CWSNP1603	Ca-Kabuli-Chr2	32564427	[T/C]	Ca10266	Intron	RecF/RecN/SMC
CWSNP1604	Ca-Kabuli-Chr2	32564480	[G/A]	Ca10266	Intron	RecF/RecN/SMC
CWSNP1605	Ca-Kabuli-Chr2	32564770	[G/T]	Ca10266	Intron	RecF/RecN/SMC
CWSNP1606	Ca-Kabuli-Chr2	32564796	[A/T]	Ca10266	Intron	RecF/RecN/SMC
CWSNP1607	Ca-Kabuli-Chr2	32570394	[G/A]	Ca10266	Intron	RecF/RecN/SMC
CWSNP1608	Ca-Kabuli-Chr2	32570429	[G/A]	Ca10266	Intron	RecF/RecN/SMC
CWSNP1609	Ca-Kabuli-Chr2	32570504	[G/C]	Ca10266	Intron	RecF/RecN/SMC
CWSNP1610	Ca-Kabuli-Chr2	32579849	[T/C]	Ca10266	Synonymous-CDS	RecF/RecN/SMC
CWSNP1611	Ca-Kabuli-Chr2	32579900	[C/G]	Ca10266	Synonymous-CDS	RecF/RecN/SMC
CWSNP1612	Ca-Kabuli-Chr2	32611624	[C/T]	Ca10261	Synonymous-CDS	Aldehyde oxidase/xanthine dehydrogenase,a/bhammer head
CWSNP1613	Ca-Kabuli-Chr2	32611601	[G/T]	Ca10261	Non-Synonymous-CDS	Aldehyde oxidase/xanthine dehydrogenase,a/bhammer head
CWSNP1614	Ca-Kabuli-Chr2	32670181	[T/G]	Ca10254	Non-Synonymous-CDS	BTB/POZ-like
CWSNP1615	Ca-Kabuli-Chr2	32844754	[T/G]	Ca10238	Non-Synonymous-CDS	Late embryogenesis abundant protein, group2
CWSNP1616	Ca-Kabuli-Chr2	32936908	[G/A]	Ca10230	Non-Synonymous-CDS	Protein of unknown functionDM15

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP1617	Ca-Kabuli-Chr2	32958034	[C/G]	-	Intergenic	-
CWSNP1618	Ca-Kabuli-Chr2	32989205	[G/T]	-	DRR	-
CWSNP1619	Ca-Kabuli-Chr2	33103766	[G/A]	-	URR	-
CWSNP1620	Ca-Kabuli-Chr2	33184262	[T/C]	Ca10203	Non-Synonymous-CDS	-
CWSNP1621	Ca-Kabuli-Chr2	33326510	[C/G]	-	Intergenic	-
CWSNP1622	Ca-Kabuli-Chr2	33398561	[C/T]	-	Intergenic	-
CWSNP1623	Ca-Kabuli-Chr2	33398550	[G/A]	-	Intergenic	-
CWSNP1624	Ca-Kabuli-Chr2	33398549	[T/C]	-	Intergenic	-
CWSNP1625	Ca-Kabuli-Chr2	33398527	[T/G]	-	Intergenic	-
CWSNP1626	Ca-Kabuli-Chr2	33399045	[A/C]	Ca10186	Synonymous-CDS	Disease resistance protein
CWSNP1627	Ca-Kabuli-Chr2	33399098	[G/A]	Ca10186	Non-Synonymous-CDS	Disease resistance protein
CWSNP1628	Ca-Kabuli-Chr2	33399063	[C/T]	Ca10186	Synonymous-CDS	Disease resistance protein
CWSNP1629	Ca-Kabuli-Chr2	33399405	[C/T]	Ca10186	Synonymous-CDS	Disease resistance protein
CWSNP1630	Ca-Kabuli-Chr2	33399404	[C/A]	Ca10186	Non-Synonymous-CDS	Disease resistance protein
CWSNP1631	Ca-Kabuli-Chr2	33399397	[C/T]	Ca10186	Non-Synonymous-CDS	Disease resistance protein
CWSNP1632	Ca-Kabuli-Chr2	33399393	[C/A]	Ca10186	Non-Synonymous-CDS	Disease resistance protein

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP1633	Ca-Kabuli-Chr2	33399381	[C/T]	Ca10186	Synonymous-CDS	Disease resistance protein
CWSNP1634	Ca-Kabuli-Chr2	33399342	[A/C]	Ca10186	Non-Synonymous-CDS	Disease resistance protein
CWSNP1635	Ca-Kabuli-Chr2	33401608	[A/G]	Ca10186	Synonymous-CDS	Disease resistance protein
CWSNP1636	Ca-Kabuli-Chr2	33490058	[C/A]	Ca10183	Non-Synonymous-CDS	Telomerase activating protein Est1
CWSNP1637	Ca-Kabuli-Chr2	33575286	[A/C]	-	Intergenic	-
CWSNP1638	Ca-Kabuli-Chr2	33582948	[G/A]	Ca10177	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP1639	Ca-Kabuli-Chr2	33582900	[G/A]	Ca10177	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP1640	Ca-Kabuli-Chr2	33650447	[A/T]	-	Intergenic	-
CWSNP1641	Ca-Kabuli-Chr2	33651426	[G/A]	Ca10173	Synonymous-CDS	Pentatrigo peptide repeat
CWSNP1642	Ca-Kabuli-Chr2	33651408	[A/G]	-	Intergenic	-
CWSNP1643	Ca-Kabuli-Chr2	33661177	[C/T]	Ca10172	Synonymous-CDS	-
CWSNP1644	Ca-Kabuli-Chr2	33713018	[G/A]	-	Intergenic	-
CWSNP1645	Ca-Kabuli-Chr2	33786243	[G/A]	-	Intergenic	-
CWSNP1646	Ca-Kabuli-Chr2	33788913	[A/C]	-	DRR	-
CWSNP1647	Ca-Kabuli-Chr2	34152352	[T/C]	Ca15238	Intron	-
CWSNP1648	Ca-Kabuli-Chr2	34155090	[A/G]	Ca15238	Intron	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP1649	Ca-Kabuli-Chr2	34288116	[G/C]	-	Intergenic	-
CWSNP1650	Ca-Kabuli-Chr2	34299074	[A/C]	-	Intergenic	-
CWSNP1651	Ca-Kabuli-Chr2	34299079	[A/C]	-	Intergenic	-
CWSNP1652	Ca-Kabuli-Chr2	34343478	[C/G]	-	DRR	-
CWSNP1653	Ca-Kabuli-Chr2	34343705	[G/A]	-	DRR	-
CWSNP1654	Ca-Kabuli-Chr2	34346849	[C/T]	-	DRR	-
CWSNP1655	Ca-Kabuli-Chr2	34346842	[T/C]	-	DRR	-
CWSNP1656	Ca-Kabuli-Chr2	34372503	[T/G]	-	DRR	-
CWSNP1657	Ca-Kabuli-Chr2	34428978	[C/A]	-	Intergenic	-
CWSNP1658	Ca-Kabuli-Chr2	34428979	[G/C]	-	Intergenic	-
CWSNP1659	Ca-Kabuli-Chr2	34551849	[A/C]	-	Intergenic	-
CWSNP1660	Ca-Kabuli-Chr2	34554164	[A/C]	-	Intergenic	-
CWSNP1661	Ca-Kabuli-Chr2	34601444	[C/A]	Ca15284	Synonymous-CDS	Lipocalin
CWSNP1662	Ca-Kabuli-Chr2	34638955	[T/A]	-	URR	-
CWSNP1663	Ca-Kabuli-Chr2	34734379	[G/A]	Ca16897	Synonymous-CDS	Heat shock protein Hsp70
CWSNP1664	Ca-Kabuli-Chr2	34820075	[C/T]	-	URR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP1665	Ca-Kabuli-Chr2	34830995	[A/G]	-	Intergenic	-
CWSNP1666	Ca-Kabuli-Chr2	34847681	[C/A]	Ca16883	Synonymous-CDS	Bromodomain
CWSNP1667	Ca-Kabuli-Chr2	34848053	[G/A]	Ca16883	Synonymous-CDS	Bromodomain
CWSNP1668	Ca-Kabuli-Chr2	34848480	[T/C]	Ca16883	Non-Synonymous-CDS	Bromodomain
CWSNP1669	Ca-Kabuli-Chr2	34862276	[C/G]	Ca16882	Non-Synonymous-CDS	Lipase,GDSL
CWSNP1670	Ca-Kabuli-Chr2	34888414	[T/C]	-	Intergenic	-
CWSNP1671	Ca-Kabuli-Chr2	35013088	[G/C]	-	Intergenic	-
CWSNP1672	Ca-Kabuli-Chr2	35013084	[T/C]	-	Intergenic	-
CWSNP1673	Ca-Kabuli-Chr2	35052930	[C/A]	Ca16868	Intron	Aspartate carbamoyltransferase,eukaryotic
CWSNP1674	Ca-Kabuli-Chr2	35054244	[C/A]	Ca16868	Intron	Aspartate carbamoyltransferase,eukaryotic
CWSNP1675	Ca-Kabuli-Chr2	35059446	[A/T]	-	DRR	-
CWSNP1676	Ca-Kabuli-Chr2	35059434	[T/C]	-	DRR	-
CWSNP1677	Ca-Kabuli-Chr2	35060171	[A/G]	-	DRR	-
CWSNP1678	Ca-Kabuli-Chr2	35060178	[A/T]	-	DRR	-
CWSNP1679	Ca-Kabuli-Chr2	35060228	[T/C]	-	DRR	-
CWSNP1680	Ca-Kabuli-Chr2	35060273	[G/A]	-	DRR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP1681	Ca-Kabuli-Chr2	35060264	[A/T]	-	DRR	-
CWSNP1682	Ca-Kabuli-Chr2	35066138	[G/A]	-	URR	-
CWSNP1683	Ca-Kabuli-Chr2	35120761	[G/A]	Ca16857	Synonymous-CDS	Metallo-dependent phosphatase
CWSNP1684	Ca-Kabuli-Chr2	35122109	[C/G]	Ca16857	Intron	Metallo-dependent phosphatase
CWSNP1685	Ca-Kabuli-Chr2	35154629	[C/A]	-	Intergenic	-
CWSNP1686	Ca-Kabuli-Chr2	35154603	[G/A]	-	Intergenic	-
CWSNP1687	Ca-Kabuli-Chr2	35171882	[T/G]	Ca16849	Synonymous-CDS	Glycerophosphoryldiester phosphodiesterase
CWSNP1688	Ca-Kabuli-Chr2	35189471	[C/T]	-	DRR	-
CWSNP1689	Ca-Kabuli-Chr2	35209940	[C/T]	Ca16844	Non-Synonymous-CDS	C2 calcium-dependent membrane targeting
CWSNP1690	Ca-Kabuli-Chr2	35362587	[A/G]	-	Intergenic	-
CWSNP1691	Ca-Kabuli-Chr2	35362642	[A/G]	-	Intergenic	-
CWSNP1692	Ca-Kabuli-Chr2	35362729	[A/G]	Ca09693	Synonymous-CDS	Frigida-like
CWSNP1693	Ca-Kabuli-Chr2	35363501	[T/C]	Ca09693	Non-Synonymous-CDS	Frigida-like
CWSNP1694	Ca-Kabuli-Chr2	35365029	[C/T]	Ca09693	Non-Synonymous-CDS	Frigida-like
CWSNP1695	Ca-Kabuli-Chr2	35413400	[T/A]	-	DRR	-
CWSNP1696	Ca-Kabuli-Chr2	35441180	[A/G]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP1697	Ca-Kabuli-Chr2	35441174	[T/G]	-	Intergenic	-
CWSNP1698	Ca-Kabuli-Chr2	35447976	[A/G]	-	DRR	-
CWSNP1699	Ca-Kabuli-Chr2	35449653	[G/A]	Ca09705	Intron	ABC transporter, transmembrane domain
CWSNP1700	Ca-Kabuli-Chr2	35473250	[C/T]	-	Intergenic	-
CWSNP1701	Ca-Kabuli-Chr2	35505791	[C/G]	-	DRR	-
CWSNP1702	Ca-Kabuli-Chr2	35505874	[T/G]	-	DRR	-
CWSNP1703	Ca-Kabuli-Chr2	35593797	[G/T]	Ca09728	Synonymous-CDS	Bacterial Fmu(Sun)/eukaryotic nucleolar NOL1/Nop2p
CWSNP1704	Ca-Kabuli-Chr2	35593824	[A/C]	Ca09728	Synonymous-CDS	Bacterial Fmu(Sun)/eukaryotic nucleolar NOL1/Nop2p
CWSNP1705	Ca-Kabuli-Chr2	35593827	[A/G]	Ca09728	Synonymous-CDS	Bacterial Fmu(Sun)/eukaryotic nucleolar NOL1/Nop2p
CWSNP1706	Ca-Kabuli-Chr2	35594018	[A/T]	Ca09728	Intron	Bacterial Fmu(Sun)/eukaryotic nucleolar NOL1/Nop2p
CWSNP1707	Ca-Kabuli-Chr2	35594013	[C/T]	Ca09728	Intron	Bacterial Fmu(Sun)/eukaryotic nucleolar NOL1/Nop2p
CWSNP1708	Ca-Kabuli-Chr2	35593985	[A/G]	Ca09728	Intron	Bacterial Fmu(Sun)/eukaryotic nucleolar NOL1/Nop2p
CWSNP1709	Ca-Kabuli-Chr2	35593965	[C/T]	Ca09728	Intron	Bacterial Fmu(Sun)/eukaryotic nucleolar NOL1/Nop2p
CWSNP1710	Ca-Kabuli-Chr2	35593956	[A/G]	Ca09728	Intron	Bacterial Fmu(Sun)/eukaryotic nucleolar NOL1/Nop2p
CWSNP1711	Ca-Kabuli-Chr2	35601566	[T/C]	-	Intergenic	-
CWSNP1712	Ca-Kabuli-Chr2	35601571	[A/C]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP1713	Ca-Kabuli-Chr2	35601578	[C/T]	-	Intergenic	-
CWSNP1714	Ca-Kabuli-Chr2	35601691	[A/G]	-	Intergenic	-
CWSNP1715	Ca-Kabuli-Chr2	35601657	[T/C]	-	Intergenic	-
CWSNP1716	Ca-Kabuli-Chr2	35601632	[G/T]	-	Intergenic	-
CWSNP1717	Ca-Kabuli-Chr2	35612587	[C/A]	Ca09731	Synonymous-CDS	Protein of unknown function DUF827,plant
CWSNP1718	Ca-Kabuli-Chr2	35612644	[G/A]	Ca09731	Synonymous-CDS	Protein of unknown function DUF827,plant
CWSNP1719	Ca-Kabuli-Chr2	35612895	[T/C]	Ca09731	Non-Synonymous-CDS	Protein of unknown function DUF827,plant
CWSNP1720	Ca-Kabuli-Chr2	35612900	[C/T]	Ca09731	Non-Synonymous-CDS	Protein of unknown function DUF827,plant
CWSNP1721	Ca-Kabuli-Chr2	35613135	[T/C]	-	Intergenic	-
CWSNP1722	Ca-Kabuli-Chr2	35658537	[T/C]	Ca09735	Synonymous-CDS	Oligopeptide transporterOPTsuperfamily
CWSNP1723	Ca-Kabuli-Chr2	35661053	[C/T]	Ca09735	Non-Synonymous-CDS	Oligopeptide transporterOPTsuperfamily
CWSNP1724	Ca-Kabuli-Chr2	35670478	[A/G]	Ca09737	Intron	Protein of unknown function DUF1296
CWSNP1725	Ca-Kabuli-Chr2	35704018	[A/G]	-	URR	-
CWSNP1726	Ca-Kabuli-Chr2	35704069	[G/A]	-	URR	-
CWSNP1727	Ca-Kabuli-Chr2	35704228	[C/A]	-	URR	-
CWSNP1728	Ca-Kabuli-Chr2	35704213	[A/G]	-	URR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP1729	Ca-Kabuli-Chr2	35704204	[T/C]	-	URR	-
CWSNP1730	Ca-Kabuli-Chr2	35704200	[T/C]	-	URR	-
CWSNP1731	Ca-Kabuli-Chr2	35704180	[A/G]	-	URR	-
CWSNP1732	Ca-Kabuli-Chr2	35704178	[G/A]	-	URR	-
CWSNP1733	Ca-Kabuli-Chr2	35728285	[T/A]	-	Intergenic	-
CWSNP1734	Ca-Kabuli-Chr2	35754617	[G/T]	-	Intergenic	-
CWSNP1735	Ca-Kabuli-Chr2	35754557	[C/T]	-	Intergenic	-
CWSNP1736	Ca-Kabuli-Chr2	35754680	[C/A]	-	Intergenic	-
CWSNP1737	Ca-Kabuli-Chr2	35754682	[A/G]	-	Intergenic	-
CWSNP1738	Ca-Kabuli-Chr2	35754806	[G/C]	-	Intergenic	-
CWSNP1739	Ca-Kabuli-Chr2	35754757	[G/C]	-	Intergenic	-
CWSNP1740	Ca-Kabuli-Chr2	35759932	[A/T]	Ca09749	Intron	Regulatory protein RecX
CWSNP1741	Ca-Kabuli-Chr2	35759940	[T/C]	Ca09749	Intron	Regulatory protein RecX
CWSNP1742	Ca-Kabuli-Chr2	35759981	[G/A]	Ca09749	Intron	Regulatory protein RecX
CWSNP1743	Ca-Kabuli-Chr2	35760062	[G/C]	Ca09749	Intron	Regulatory protein RecX
CWSNP1744	Ca-Kabuli-Chr2	35760073	[A/T]	Ca09749	Intron	Regulatory protein RecX

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP1745	Ca-Kabuli-Chr2	35760170	[A/G]	Ca09749	Intron	Regulatory protein RecX
CWSNP1746	Ca-Kabuli-Chr2	35760155	[G/A]	Ca09749	Intron	Regulatory protein RecX
CWSNP1747	Ca-Kabuli-Chr2	35795395	[A/G]	Ca09754	Synonymous-CDS	PeptidaseS8/S53,subtilisin/kexin/sedolisin
CWSNP1748	Ca-Kabuli-Chr2	35795494	[G/A]	Ca09754	Synonymous-CDS	PeptidaseS8/S53,subtilisin/kexin/sedolisin
CWSNP1749	Ca-Kabuli-Chr2	35795496	[G/T]	Ca09754	Non-Synonymous-CDS	PeptidaseS8/S53,subtilisin/kexin/sedolisin
CWSNP1750	Ca-Kabuli-Chr2	35795521	[T/C]	Ca09754	Synonymous-CDS	PeptidaseS8/S53,subtilisin/kexin/sedolisin
CWSNP1751	Ca-Kabuli-Chr2	35862878	[T/G]	Ca09762	Intron	Armadillo
CWSNP1752	Ca-Kabuli-Chr2	35930699	[T/G]	-	Intergenic	-
CWSNP1753	Ca-Kabuli-Chr2	35993178	[G/A]	Ca09773	Synonymous-CDS	Disease resistance protein
CWSNP1754	Ca-Kabuli-Chr2	36013809	[A/G]	Ca09776	Intron	Nucleoporin,Nup133/Nup155-like,C-terminal
CWSNP1755	Ca-Kabuli-Chr2	36039428	[C/T]	-	Intergenic	-
CWSNP1756	Ca-Kabuli-Chr2	36039364	[G/T]	-	Intergenic	-
CWSNP1757	Ca-Kabuli-Chr2	36046593	[G/T]	-	Intergenic	-
CWSNP1758	Ca-Kabuli-Chr2	36046595	[T/G]	-	Intergenic	-
CWSNP1759	Ca-Kabuli-Chr2	36046741	[G/A]	-	Intergenic	-
CWSNP1760	Ca-Kabuli-Chr2	36046720	[T/A]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP1761	Ca-Kabuli-Chr2	36046767	[T/A]	-	Intergenic	-
CWSNP1762	Ca-Kabuli-Chr2	36046820	[T/A]	-	Intergenic	-
CWSNP1763	Ca-Kabuli-Chr2	36069340	[T/C]	Ca09784	Synonymous-CDS	Signal transduction response regulator,receiver domain
CWSNP1764	Ca-Kabuli-Chr2	36072247	[C/A]	-	Intergenic	-
CWSNP1765	Ca-Kabuli-Chr2	36074147	[T/C]	-	DRR	-
CWSNP1766	Ca-Kabuli-Chr2	36088577	[A/T]	-	Intergenic	-
CWSNP1767	Ca-Kabuli-Chr2	36088676	[T/C]	-	Intergenic	-
CWSNP1768	Ca-Kabuli-Chr2	36088853	[G/A]	-	Intergenic	-
CWSNP1769	Ca-Kabuli-Chr2	36101358	[A/G]	-	URR	-
CWSNP1770	Ca-Kabuli-Chr2	36101379	[A/G]	-	URR	-
CWSNP1771	Ca-Kabuli-Chr2	36117695	[T/A]	-	Intergenic	-
CWSNP1772	Ca-Kabuli-Chr2	36117647	[G/A]	-	Intergenic	-
CWSNP1773	Ca-Kabuli-Chr2	36276791	[G/A]	-	DRR	-
CWSNP1774	Ca-Kabuli-Chr2	36326361	[A/C]	-	URR	-
CWSNP1775	Ca-Kabuli-Chr2	36335252	[A/C]	-	URR	-
CWSNP1776	Ca-Kabuli-Chr2	36346336	[A/G]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP1777	Ca-Kabuli-Chr2	36387245	[T/C]	Ca09828	Non-Synonymous-CDS	GDP-fucose protein O-fucosyltransferase
CWSNP1778	Ca-Kabuli-Chr2	36429512	[T/C]	Ca09832	Non-Synonymous-CDS	Phox/Bem1p
CWSNP1779	Ca-Kabuli-Chr2	36467100	[A/C]	-	URR	-
CWSNP1780	Ca-Kabuli-Chr2	36469921	[A/G]	Ca09835	Intron	EPS15 homology (EH)
CWSNP1781	Ca-Kabuli-Chr2	36505316	[C/A]	-	DRR	-
CWSNP1782	Ca-Kabuli-Chr2	36609730	[T/A]	-	Intergenic	-
CWSNP1783	Ca-Kabuli-Chr2	36609743	[C/T]	-	Intergenic	-
CWSNP1784	Ca-Kabuli-Chr2	36609744	[G/C]	-	Intergenic	-
CWSNP1785	Ca-Kabuli-Chr2	36609950	[C/T]	-	Intergenic	-
CWSNP1786	Ca-Kabuli-Chr2	36609968	[C/T]	-	Intergenic	-
CWSNP1787	Ca-Kabuli-Chr2	36634234	[T/C]	-	Intergenic	-
CWSNP1788	Ca-Kabuli-Chr2	36634297	[C/G]	-	Intergenic	-
CWSNP1789	Ca-Kabuli-Chr3	171675	[T/A]	Ca22938	Synonymous-CDS	NAD-dependent epimerase/dehydratase
CWSNP1790	Ca-Kabuli-Chr3	220568	[A/T]	Ca22935	Intron	Glycosyltransferase, family48
CWSNP1791	Ca-Kabuli-Chr3	220572	[T/C]	Ca22935	Intron	Glycosyltransferase, family48
CWSNP1792	Ca-Kabuli-Chr3	220573	[G/T]	Ca22935	Intron	Glycosyltransferase, family48

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP1793	Ca-Kabuli-Chr3	419715	[T/G]	-	DRR	-
CWSNP1794	Ca-Kabuli-Chr3	988477	[G/A]	-	Intergenic	-
CWSNP1795	Ca-Kabuli-Chr3	1499038	[G/A]	-	Intergenic	-
CWSNP1796	Ca-Kabuli-Chr3	1499006	[A/G]	-	Intergenic	-
CWSNP1797	Ca-Kabuli-Chr3	1746388	[C/A]	Ca19405	Intron	Helicase,C-terminal
CWSNP1798	Ca-Kabuli-Chr3	1746389	[A/G]	Ca19405	Intron	Helicase,C-terminal
CWSNP1799	Ca-Kabuli-Chr3	2097376	[T/G]	-	Intergenic	-
CWSNP1800	Ca-Kabuli-Chr3	2097413	[A/G]	-	Intergenic	-
CWSNP1801	Ca-Kabuli-Chr3	2391515	[T/G]	Ca26372	Synonymous-CDS	NHLrepeat
CWSNP1802	Ca-Kabuli-Chr3	2708703	[C/T]	Ca22148	Non-Synonymous-CDS	Zinc finger,B-box
CWSNP1803	Ca-Kabuli-Chr3	2825546	[G/T]	-	Intergenic	-
CWSNP1804	Ca-Kabuli-Chr3	2927148	[T/A]	-	DRR	-
CWSNP1805	Ca-Kabuli-Chr3	2927150	[A/T]	-	DRR	-
CWSNP1806	Ca-Kabuli-Chr3	2975179	[T/C]	Ca22161	Synonymous-CDS	-
CWSNP1807	Ca-Kabuli-Chr3	3280478	[C/T]	Ca24555	Non-Synonymous-CDS	RNA recognition motif domain
CWSNP1808	Ca-Kabuli-Chr3	3617555	[G/A]	Ca21346	Non-Synonymous-CDS	ZF-HD homeobox protein,Cys/His-rich dimerisation domain

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP1809	Ca-Kabuli-Chr3	3701394	[A/T]	Ca21344	Intron	Gibberellin regulated protein
CWSNP1810	Ca-Kabuli-Chr3	3701396	[C/T]	Ca21344	Intron	Gibberellin regulated protein
CWSNP1811	Ca-Kabuli-Chr3	3701398	[A/T]	Ca21344	Intron	Gibberellin regulated protein
CWSNP1812	Ca-Kabuli-Chr3	3701401	[A/T]	Ca21344	Intron	Gibberellin regulated protein
CWSNP1813	Ca-Kabuli-Chr3	3701405	[G/T]	Ca21344	Intron	Gibberellin regulated protein
CWSNP1814	Ca-Kabuli-Chr3	3701415	[C/T]	Ca21344	Intron	Gibberellin regulated protein
CWSNP1815	Ca-Kabuli-Chr3	3701422	[C/T]	Ca21344	Intron	Gibberellin regulated protein
CWSNP1816	Ca-Kabuli-Chr3	3701426	[T/C]	Ca21344	Intron	Gibberellin regulated protein
CWSNP1817	Ca-Kabuli-Chr3	3701435	[A/T]	Ca21344	Intron	Gibberellin regulated protein
CWSNP1818	Ca-Kabuli-Chr3	3701437	[A/T]	Ca21344	Intron	Gibberellin regulated protein
CWSNP1819	Ca-Kabuli-Chr3	3701440	[G/T]	Ca21344	Intron	Gibberellin regulated protein
CWSNP1820	Ca-Kabuli-Chr3	3701370	[G/A]	Ca21344	Intron	Gibberellin regulated protein
CWSNP1821	Ca-Kabuli-Chr3	4145743	[G/A]	Ca22385	Intron	Domain of unknown function DUF298
CWSNP1822	Ca-Kabuli-Chr3	4178154	[C/T]	-	Intergenic	-
CWSNP1823	Ca-Kabuli-Chr3	4629747	[A/C]	Ca22084	Intron	-
CWSNP1824	Ca-Kabuli-Chr3	5224781	[A/G]	Ca23868	Non-Synonymous-CDS	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP1825	Ca-Kabuli-Chr3	5225108	[T/G]	Ca23868	Non-Synonymous-CDS	-
CWSNP1826	Ca-Kabuli-Chr3	5436267	[A/G]	-	Intergenic	-
CWSNP1827	Ca-Kabuli-Chr3	5436272	[T/C]	-	Intergenic	-
CWSNP1828	Ca-Kabuli-Chr3	5436277	[C/T]	-	Intergenic	-
CWSNP1829	Ca-Kabuli-Chr3	5436288	[G/T]	-	Intergenic	-
CWSNP1830	Ca-Kabuli-Chr3	5436295	[G/A]	-	Intergenic	-
CWSNP1831	Ca-Kabuli-Chr3	5436296	[C/T]	-	Intergenic	-
CWSNP1832	Ca-Kabuli-Chr3	5436299	[A/C]	-	Intergenic	-
CWSNP1833	Ca-Kabuli-Chr3	5436331	[C/A]	-	Intergenic	-
CWSNP1834	Ca-Kabuli-Chr3	5514176	[A/G]	-	Intergenic	-
CWSNP1835	Ca-Kabuli-Chr3	5514287	[C/A]	-	Intergenic	-
CWSNP1836	Ca-Kabuli-Chr3	6169510	[A/C]	-	Intergenic	-
CWSNP1837	Ca-Kabuli-Chr3	6467014	[G/A]	-	Intergenic	-
CWSNP1838	Ca-Kabuli-Chr3	6683646	[A/G]	Ca25772	Intron	-
CWSNP1839	Ca-Kabuli-Chr3	6683587	[T/A]	Ca25772	Intron	-
CWSNP1840	Ca-Kabuli-Chr3	6828181	[A/T]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP1841	Ca-Kabuli-Chr3	6840644	[C/T]	Ca16550	Synonymous-CDS	WD40 repeat
CWSNP1842	Ca-Kabuli-Chr3	7015213	[T/G]	Ca16540	Non-Synonymous-CDS	Zinc finger,ZZ-type
CWSNP1843	Ca-Kabuli-Chr3	7204053	[G/A]	-	Intergenic	-
CWSNP1844	Ca-Kabuli-Chr3	7204071	[T/C]	-	Intergenic	-
CWSNP1845	Ca-Kabuli-Chr3	7204087	[C/T]	-	Intergenic	-
CWSNP1846	Ca-Kabuli-Chr3	7204088	[G/C]	-	Intergenic	-
CWSNP1847	Ca-Kabuli-Chr3	7204098	[G/A]	-	Intergenic	-
CWSNP1848	Ca-Kabuli-Chr3	7204099	[C/T]	-	Intergenic	-
CWSNP1849	Ca-Kabuli-Chr3	7204111	[G/A]	-	Intergenic	-
CWSNP1850	Ca-Kabuli-Chr3	7204112	[G/A]	-	Intergenic	-
CWSNP1851	Ca-Kabuli-Chr3	7204133	[G/T]	-	Intergenic	-
CWSNP1852	Ca-Kabuli-Chr3	7226689	[T/C]	Ca16534	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP1853	Ca-Kabuli-Chr3	7226661	[G/T]	Ca16534	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP1854	Ca-Kabuli-Chr3	7226632	[G/T]	Ca16534	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP1855	Ca-Kabuli-Chr3	7420705	[G/A]	-	Intergenic	-
CWSNP1856	Ca-Kabuli-Chr3	7482871	[C/T]	-	URR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP1857	Ca-Kabuli-Chr3	7606901	[T/C]	-	DRR	-
CWSNP1858	Ca-Kabuli-Chr3	7665123	[G/A]	-	URR	-
CWSNP1859	Ca-Kabuli-Chr3	7665112	[C/T]	-	URR	-
CWSNP1860	Ca-Kabuli-Chr3	7665098	[C/T]	-	URR	-
CWSNP1861	Ca-Kabuli-Chr3	7665090	[C/T]	-	URR	-
CWSNP1862	Ca-Kabuli-Chr3	7665075	[G/A]	-	URR	-
CWSNP1863	Ca-Kabuli-Chr3	7665156	[G/A]	-	URR	-
CWSNP1864	Ca-Kabuli-Chr3	7665149	[T/G]	-	URR	-
CWSNP1865	Ca-Kabuli-Chr3	7665142	[G/A]	-	URR	-
CWSNP1866	Ca-Kabuli-Chr3	7665157	[C/T]	-	URR	-
CWSNP1867	Ca-Kabuli-Chr3	8536213	[T/C]	-	Intergenic	-
CWSNP1868	Ca-Kabuli-Chr3	8536275	[C/T]	-	Intergenic	-
CWSNP1869	Ca-Kabuli-Chr3	8536295	[A/T]	-	Intergenic	-
CWSNP1870	Ca-Kabuli-Chr3	8536301	[G/T]	-	Intergenic	-
CWSNP1871	Ca-Kabuli-Chr3	8536425	[C/A]	-	Intergenic	-
CWSNP1872	Ca-Kabuli-Chr3	8536498	[T/A]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP1873	Ca-Kabuli-Chr3	8668628	[A/C]	-	Intergenic	-
CWSNP1874	Ca-Kabuli-Chr3	8669004	[A/T]	Ca23713	Non-Synonymous-CDS	Protein kinase, catalytic domain
CWSNP1875	Ca-Kabuli-Chr3	8669132	[T/A]	Ca23713	Synonymous-CDS	Protein kinase, catalytic domain
CWSNP1876	Ca-Kabuli-Chr3	8697186	[A/G]	-	DRR	-
CWSNP1877	Ca-Kabuli-Chr3	8933037	[T/C]	Ca25280	Intron	ABC transporter-like
CWSNP1878	Ca-Kabuli-Chr3	8933084	[G/A]	Ca25280	Intron	ABC transporter-like
CWSNP1879	Ca-Kabuli-Chr3	8933086	[C/A]	Ca25280	Intron	ABC transporter-like
CWSNP1880	Ca-Kabuli-Chr3	8933221	[T/A]	Ca25280	Intron	ABC transporter-like
CWSNP1881	Ca-Kabuli-Chr3	8933183	[A/G]	Ca25280	Intron	ABC transporter-like
CWSNP1882	Ca-Kabuli-Chr3	8933255	[A/T]	Ca25280	Intron	ABC transporter-like
CWSNP1883	Ca-Kabuli-Chr3	8933266	[G/T]	Ca25280	Intron	ABC transporter-like
CWSNP1884	Ca-Kabuli-Chr3	8933409	[A/C]	Ca25280	Intron	ABC transporter-like
CWSNP1885	Ca-Kabuli-Chr3	8933370	[A/G]	Ca25280	Intron	ABC transporter-like
CWSNP1886	Ca-Kabuli-Chr3	8933355	[A/T]	Ca25280	Intron	ABC transporter-like
CWSNP1887	Ca-Kabuli-Chr3	9223875	[G/A]	-	Intergenic	-
CWSNP1888	Ca-Kabuli-Chr3	9296469	[T/G]	Ca20960	Synonymous-CDS	Arf GTPase activating protein

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP1889	Ca-Kabuli-Chr3	9577402	[G/A]	Ca20977	Non-Synonymous-CDS	-
CWSNP1890	Ca-Kabuli-Chr3	9579805	[A/T]	-	Intergenic	-
CWSNP1891	Ca-Kabuli-Chr3	9579808	[C/T]	-	Intergenic	-
CWSNP1892	Ca-Kabuli-Chr3	9579811	[G/C]	-	Intergenic	-
CWSNP1893	Ca-Kabuli-Chr3	9579817	[G/A]	-	Intergenic	-
CWSNP1894	Ca-Kabuli-Chr3	9579818	[G/T]	-	Intergenic	-
CWSNP1895	Ca-Kabuli-Chr3	9579824	[A/G]	-	Intergenic	-
CWSNP1896	Ca-Kabuli-Chr3	9579830	[T/A]	-	Intergenic	-
CWSNP1897	Ca-Kabuli-Chr3	9579831	[C/G]	-	Intergenic	-
CWSNP1898	Ca-Kabuli-Chr3	9894316	[C/T]	-	Intergenic	-
CWSNP1899	Ca-Kabuli-Chr3	10142152	[C/A]	Ca18811	Intron	WD40 repeat
CWSNP1900	Ca-Kabuli-Chr3	10159836	[A/C]	-	Intergenic	-
CWSNP1901	Ca-Kabuli-Chr3	10159859	[G/A]	-	Intergenic	-
CWSNP1902	Ca-Kabuli-Chr3	10159941	[C/A]	-	Intergenic	-
CWSNP1903	Ca-Kabuli-Chr3	10159943	[G/A]	-	Intergenic	-
CWSNP1904	Ca-Kabuli-Chr3	10159944	[T/C]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP1905	Ca-Kabuli-Chr3	10186893	[G/C]	Ca18812	Intron	-
CWSNP1906	Ca-Kabuli-Chr3	10186861	[G/T]	Ca18812	Intron	-
CWSNP1907	Ca-Kabuli-Chr3	10186857	[A/G]	Ca18812	Intron	-
CWSNP1908	Ca-Kabuli-Chr3	10186880	[A/G]	Ca18812	Intron	-
CWSNP1909	Ca-Kabuli-Chr3	10186889	[G/A]	Ca18812	Intron	-
CWSNP1910	Ca-Kabuli-Chr3	10186891	[C/G]	Ca18812	Intron	-
CWSNP1911	Ca-Kabuli-Chr3	10201361	[G/T]	Ca18813	Synonymous-CDS	VRR-NUC
CWSNP1912	Ca-Kabuli-Chr3	10722780	[G/T]	Ca18831	Intron	-
CWSNP1913	Ca-Kabuli-Chr3	10722859	[G/A]	Ca18831	Intron	-
CWSNP1914	Ca-Kabuli-Chr3	11143751	[G/A]	Ca19368	Non-Synonymous-CDS	-
CWSNP1915	Ca-Kabuli-Chr3	11143818	[G/A]	Ca19368	Synonymous-CDS	-
CWSNP1916	Ca-Kabuli-Chr3	11378425	[G/T]	Ca19376	Non-Synonymous-CDS	ABC transporter, transmembrane domain
CWSNP1917	Ca-Kabuli-Chr3	11590793	[C/T]	-	DRR	-
CWSNP1918	Ca-Kabuli-Chr3	11590874	[A/G]	-	DRR	-
CWSNP1919	Ca-Kabuli-Chr3	11590860	[G/A]	-	DRR	-
CWSNP1920	Ca-Kabuli-Chr3	11590832	[G/A]	-	DRR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP1921	Ca-Kabuli-Chr3	11590814	[T/C]	-	DRR	-
CWSNP1922	Ca-Kabuli-Chr3	11610500	[A/G]	-	Intergenic	-
CWSNP1923	Ca-Kabuli-Chr3	11610460	[A/G]	-	Intergenic	-
CWSNP1924	Ca-Kabuli-Chr3	11610481	[C/T]	-	Intergenic	-
CWSNP1925	Ca-Kabuli-Chr3	11811685	[A/G]	Ca19392	Intron	Putativezinc-fingerdomain
CWSNP1926	Ca-Kabuli-Chr3	12051826	[A/C]	-	URR	-
CWSNP1927	Ca-Kabuli-Chr3	12058576	[T/C]	Ca22246	Intron	-
CWSNP1928	Ca-Kabuli-Chr3	12067458	[A/C]	Ca22246	Intron	-
CWSNP1929	Ca-Kabuli-Chr3	12069092	[T/G]	Ca22246	Synonymous-CDS	-
CWSNP1930	Ca-Kabuli-Chr3	12095571	[T/G]	Ca22245	Synonymous-CDS	Crotonase,core
CWSNP1931	Ca-Kabuli-Chr3	12124099	[G/A]	-	Intergenic	-
CWSNP1932	Ca-Kabuli-Chr3	12394742	[G/A]	-	Intergenic	-
CWSNP1933	Ca-Kabuli-Chr3	12599496	[A/C]	Ca21021	Synonymous-CDS	Zinc finger,Dof-type
CWSNP1934	Ca-Kabuli-Chr3	12622503	[A/G]	-	Intergenic	-
CWSNP1935	Ca-Kabuli-Chr3	12622534	[C/T]	-	Intergenic	-
CWSNP1936	Ca-Kabuli-Chr3	12622578	[G/A]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP1937	Ca-Kabuli-Chr3	12622567	[A/C]	-	Intergenic	-
CWSNP1938	Ca-Kabuli-Chr3	12622543	[G/A]	-	Intergenic	-
CWSNP1939	Ca-Kabuli-Chr3	12627144	[G/A]	-	Intergenic	-
CWSNP1940	Ca-Kabuli-Chr3	12627143	[T/C]	-	Intergenic	-
CWSNP1941	Ca-Kabuli-Chr3	12809794	[T/C]	Ca21015	Non-Synonymous-CDS	Kinesin , motor domain
CWSNP1942	Ca-Kabuli-Chr3	12814631	[C/T]	-	DRR	-
CWSNP1943	Ca-Kabuli-Chr3	12814603	[T/C]	-	DRR	-
CWSNP1944	Ca-Kabuli-Chr3	12814600	[A/G]	-	DRR	-
CWSNP1945	Ca-Kabuli-Chr3	12814599	[A/T]	-	DRR	-
CWSNP1946	Ca-Kabuli-Chr3	12814597	[T/A]	-	DRR	-
CWSNP1947	Ca-Kabuli-Chr3	12814571	[C/A]	-	DRR	-
CWSNP1948	Ca-Kabuli-Chr3	12814558	[A/G]	-	DRR	-
CWSNP1949	Ca-Kabuli-Chr3	12897831	[C/A]	-	Intergenic	-
CWSNP1950	Ca-Kabuli-Chr3	12897839	[G/A]	-	Intergenic	-
CWSNP1951	Ca-Kabuli-Chr3	12897841	[C/A]	-	Intergenic	-
CWSNP1952	Ca-Kabuli-Chr3	12897881	[C/T]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP1953	Ca-Kabuli-Chr3	12897882	[T/G]	-	Intergenic	-
CWSNP1954	Ca-Kabuli-Chr3	12897926	[A/C]	-	Intergenic	-
CWSNP1955	Ca-Kabuli-Chr3	12897906	[C/A]	-	Intergenic	-
CWSNP1956	Ca-Kabuli-Chr3	12897887	[T/C]	-	Intergenic	-
CWSNP1957	Ca-Kabuli-Chr3	12897884	[C/T]	-	Intergenic	-
CWSNP1958	Ca-Kabuli-Chr3	12897883	[G/T]	-	Intergenic	-
CWSNP1959	Ca-Kabuli-Chr3	12897886	[G/A]	-	Intergenic	-
CWSNP1960	Ca-Kabuli-Chr3	13185541	[G/A]	Ca22687	Non-Synonymous-CDS	-
CWSNP1961	Ca-Kabuli-Chr3	13185530	[C/T]	Ca22687	Non-Synonymous-CDS	-
CWSNP1962	Ca-Kabuli-Chr3	13185490	[G/A]	Ca22687	Non-Synonymous-CDS	-
CWSNP1963	Ca-Kabuli-Chr3	13185493	[G/A]	Ca22687	Non-Synonymous-CDS	-
CWSNP1964	Ca-Kabuli-Chr3	13185508	[C/T]	Ca22687	Non-Synonymous-CDS	-
CWSNP1965	Ca-Kabuli-Chr3	13185516	[C/T]	Ca22687	Synonymous-CDS	-
CWSNP1966	Ca-Kabuli-Chr3	13185574	[G/A]	Ca22687	Non-Synonymous-CDS	-
CWSNP1967	Ca-Kabuli-Chr3	13185560	[G/A]	Ca22687	Non-Synonymous-CDS	-
CWSNP1968	Ca-Kabuli-Chr3	13185575	[C/T]	Ca22687	Non-Synonymous-CDS	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP1969	Ca-Kabuli-Chr3	13185591	[C/T]	Ca22687	Synonymous-CDS	-
CWSNP1970	Ca-Kabuli-Chr3	13396925	[A/T]	Ca22695	Intron	Glycosyltransferase, family2
CWSNP1971	Ca-Kabuli-Chr3	13397207	[A/C]	Ca22695	Intron	Glycosyltransferase, family2
CWSNP1972	Ca-Kabuli-Chr3	13617948	[A/C]	Ca25319	Synonymous-CDS	-
CWSNP1973	Ca-Kabuli-Chr3	14200381	[A/C]	-	Intergenic	-
CWSNP1974	Ca-Kabuli-Chr3	14497374	[C/A]	-	URR	-
CWSNP1975	Ca-Kabuli-Chr3	14653195	[G/T]	Ca22505	Intron	Zinc finger, RING-type
CWSNP1976	Ca-Kabuli-Chr3	14653194	[C/T]	Ca22505	Intron	Zinc finger, RING-type
CWSNP1977	Ca-Kabuli-Chr3	14653193	[T/G]	Ca22505	Intron	Zinc finger, RING-type
CWSNP1978	Ca-Kabuli-Chr3	14653270	[C/A]	Ca22505	Intron	Zinc finger, RING-type
CWSNP1979	Ca-Kabuli-Chr3	14653271	[G/A]	Ca22505	Intron	Zinc finger, RING-type
CWSNP1980	Ca-Kabuli-Chr3	14658175	[A/C]	Ca22505	Intron	Zinc finger, RING-type
CWSNP1981	Ca-Kabuli-Chr3	14812960	[A/C]	Ca22500	Non-Synonymous-CDS	UDP-glucuronosyl/UDP-glucosyltransferase
CWSNP1982	Ca-Kabuli-Chr3	16396673	[A/C]	Ca18261	Synonymous-CDS	Glyoxalase/bleomycin protein/dioxygenase resistance
CWSNP1983	Ca-Kabuli-Chr3	17136071	[G/C]	-	Intergenic	-
CWSNP1984	Ca-Kabuli-Chr3	17136097	[T/C]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP1985	Ca-Kabuli-Chr3	17334924	[G/T]	-	Intergenic	-
CWSNP1986	Ca-Kabuli-Chr3	17460012	[C/A]	-	Intergenic	-
CWSNP1987	Ca-Kabuli-Chr3	17679409	[C/T]	Ca21115	Synonymous-CDS	-
CWSNP1988	Ca-Kabuli-Chr3	17679404	[C/T]	Ca21115	Synonymous-CDS	-
CWSNP1989	Ca-Kabuli-Chr3	17914677	[T/G]	-	Intergenic	-
CWSNP1990	Ca-Kabuli-Chr3	17936842	[A/G]	-	URR	-
CWSNP1991	Ca-Kabuli-Chr3	17984978	[T/G]	Ca21132	Synonymous-CDS	Protein kinase, catalytic domain
CWSNP1992	Ca-Kabuli-Chr3	17986521	[G/C]	Ca21132	Intron	Protein kinase, catalytic domain
CWSNP1993	Ca-Kabuli-Chr3	17986525	[G/T]	Ca21132	Intron	Protein kinase, catalytic domain
CWSNP1994	Ca-Kabuli-Chr3	18215321	[G/C]	Ca19612	Synonymous-CDS	Oligopeptide transporter
CWSNP1995	Ca-Kabuli-Chr3	18215332	[T/C]	Ca19612	Non-Synonymous-CDS	Oligopeptide transporter
CWSNP1996	Ca-Kabuli-Chr3	18355427	[T/C]	Ca19620	Synonymous-CDS	Protein of unknown function DUF3411
CWSNP1997	Ca-Kabuli-Chr3	18355445	[T/C]	Ca19620	Synonymous-CDS	Protein of unknown function DUF3411
CWSNP1998	Ca-Kabuli-Chr3	18375547	[T/C]	-	Intergenic	-
CWSNP1999	Ca-Kabuli-Chr3	18382404	[T/C]	-	Intergenic	-
CWSNP2000	Ca-Kabuli-Chr3	18383884	[T/C]	-	URR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP2001	Ca-Kabuli-Chr3	18476006	[A/G]	-	Intergenic	-
CWSNP2002	Ca-Kabuli-Chr3	18476065	[C/A]	-	Intergenic	-
CWSNP2003	Ca-Kabuli-Chr3	19372722	[G/T]	-	Intergenic	-
CWSNP2004	Ca-Kabuli-Chr3	19442839	[G/A]	-	Intergenic	-
CWSNP2005	Ca-Kabuli-Chr3	19442884	[G/C]	-	Intergenic	-
CWSNP2006	Ca-Kabuli-Chr3	19445925	[A/G]	-	Intergenic	-
CWSNP2007	Ca-Kabuli-Chr3	19445920	[T/A]	-	Intergenic	-
CWSNP2008	Ca-Kabuli-Chr3	19475095	[G/T]	-	Intergenic	-
CWSNP2009	Ca-Kabuli-Chr3	19742600	[G/A]	-	Intergenic	-
CWSNP2010	Ca-Kabuli-Chr3	19742530	[C/T]	-	Intergenic	-
CWSNP2011	Ca-Kabuli-Chr3	19788512	[G/A]	-	Intergenic	-
CWSNP2012	Ca-Kabuli-Chr3	19802763	[C/T]	Ca09383	Intron	Adenosine/AMPdeaminase
CWSNP2013	Ca-Kabuli-Chr3	19804985	[T/C]	Ca09383	Synonymous-CDS	Adenosine/AMPdeaminase
CWSNP2014	Ca-Kabuli-Chr3	19805063	[A/C]	Ca09383	Synonymous-CDS	Adenosine/AMPdeaminase
CWSNP2015	Ca-Kabuli-Chr3	19829510	[G/T]	-	Intergenic	-
CWSNP2016	Ca-Kabuli-Chr3	19850532	[T/C]	-	Intergenic	-

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CWSNP2017	Ca-Kabuli-Chr3	19850589	[C/T]	-	Intergenic	-
CWSNP2018	Ca-Kabuli-Chr3	19857613	[T/A]	Ca09388	Intron	PeptidaseM24,structural domain
CWSNP2019	Ca-Kabuli-Chr3	19883927	[A/G]	Ca09392	Non-Synonymous-CDS	Importin-beta,N-terminal
CWSNP2020	Ca-Kabuli-Chr3	19896800	[C/T]	Ca09393	Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP2021	Ca-Kabuli-Chr3	19907774	[T/C]	-	Intergenic	-
CWSNP2022	Ca-Kabuli-Chr3	19956343	[C/T]	-	DRR	-
CWSNP2023	Ca-Kabuli-Chr3	19956391	[C/T]	Ca09398	Intron	Ubiquitin
CWSNP2024	Ca-Kabuli-Chr3	19978343	[A/C]	Ca09399	Non-Synonymous-CDS	Ammonium transporter
CWSNP2025	Ca-Kabuli-Chr3	19978334	[A/C]	Ca09399	Non-Synonymous-CDS	Ammonium transporter
CWSNP2026	Ca-Kabuli-Chr3	19978407	[C/T]	Ca09399	Synonymous-CDS	Ammonium transporter
CWSNP2027	Ca-Kabuli-Chr3	19979288	[A/T]	Ca09399	Synonymous-CDS	Ammonium transporter
CWSNP2028	Ca-Kabuli-Chr3	19979318	[C/A]	Ca09399	Synonymous-CDS	Ammonium transporter
CWSNP2029	Ca-Kabuli-Chr3	20000967	[C/G]	-	Intergenic	-
CWSNP2030	Ca-Kabuli-Chr3	20030298	[G/A]	-	Intergenic	-
CWSNP2031	Ca-Kabuli-Chr3	20240118	[T/G]	Ca09424	Intron	CCAAT-binding factor
CWSNP2032	Ca-Kabuli-Chr3	20242663	[C/T]	Ca09424	Intron	CCAAT-binding factor

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CWSNP2033	Ca-Kabuli-Chr3	20365442	[A/C]	-	Intergenic	-
CWSNP2034	Ca-Kabuli-Chr3	20415615	[A/G]	-	Intergenic	-
CWSNP2035	Ca-Kabuli-Chr3	20552836	[T/G]	Ca09446	Non-Synonymous-CDS	-
CWSNP2036	Ca-Kabuli-Chr3	20795014	[C/T]	Ca09455	Intron	Integrase,catalyticcore
CWSNP2037	Ca-Kabuli-Chr3	20794976	[A/C]	Ca09455	Intron	Integrase,catalyticcore
CWSNP2038	Ca-Kabuli-Chr3	20794993	[A/G]	Ca09455	Intron	Integrase,catalyticcore
CWSNP2039	Ca-Kabuli-Chr3	20799811	[C/T]	-	Intergenic	-
CWSNP2040	Ca-Kabuli-Chr3	20799841	[C/T]	-	Intergenic	-
CWSNP2041	Ca-Kabuli-Chr3	20799820	[A/G]	-	Intergenic	-
CWSNP2042	Ca-Kabuli-Chr3	20829399	[A/G]	Ca09459	Intron	HEAT
CWSNP2043	Ca-Kabuli-Chr3	21069672	[A/G]	Ca09474	Synonymous-CDS	Aminoacyl-tRNA synthetase,classII(D/K/N)
CWSNP2044	Ca-Kabuli-Chr3	21069714	[G/A]	Ca09474	Intron	Aminoacyl-tRNA synthetase,classII(D/K/N)
CWSNP2045	Ca-Kabuli-Chr3	21069916	[C/T]	Ca09474	Synonymous-CDS	Aminoacyl-tRNA synthetase,classII(D/K/N)
CWSNP2046	Ca-Kabuli-Chr3	21069917	[G/A]	Ca09474	Non-Synonymous-CDS	Aminoacyl-tRNA synthetase,classII(D/K/N)
CWSNP2047	Ca-Kabuli-Chr3	21069959	[G/A]	Ca09474	Intron	Aminoacyl-tRNA synthetase,classII(D/K/N)
CWSNP2048	Ca-Kabuli-Chr3	21069986	[A/C]	Ca09474	Intron	Aminoacyl-tRNA synthetase,classII(D/K/N)

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CWSNP2049	Ca-Kabuli-Chr3	21421082	[A/G]	-	Intergenic	-
CWSNP2050	Ca-Kabuli-Chr3	21421146	[C/A]	-	Intergenic	-
CWSNP2051	Ca-Kabuli-Chr3	21421162	[G/A]	-	Intergenic	-
CWSNP2052	Ca-Kabuli-Chr3	21421358	[G/A]	-	Intergenic	-
CWSNP2053	Ca-Kabuli-Chr3	21421362	[T/A]	-	Intergenic	-
CWSNP2054	Ca-Kabuli-Chr3	21421369	[G/A]	-	Intergenic	-
CWSNP2055	Ca-Kabuli-Chr3	21421424	[G/A]	-	Intergenic	-
CWSNP2056	Ca-Kabuli-Chr3	21421440	[C/T]	-	Intergenic	-
CWSNP2057	Ca-Kabuli-Chr3	21500178	[G/A]	-	Intergenic	-
CWSNP2058	Ca-Kabuli-Chr3	21500179	[A/T]	-	Intergenic	-
CWSNP2059	Ca-Kabuli-Chr3	21524296	[G/T]	-	Intergenic	-
CWSNP2060	Ca-Kabuli-Chr3	21524379	[A/G]	-	Intergenic	-
CWSNP2061	Ca-Kabuli-Chr3	21558357	[T/G]	-	DRR	-
CWSNP2062	Ca-Kabuli-Chr3	21687966	[C/A]	Ca09523	Non-Synonymous-CDS	-
CWSNP2063	Ca-Kabuli-Chr3	21687961	[C/A]	Ca09523	Non-Synonymous-CDS	-
CWSNP2064	Ca-Kabuli-Chr3	21687960	[G/A]	Ca09523	Non-Synonymous-CDS	-

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CWSNP2065	Ca-Kabuli-Chr3	21687959	[T/C]	Ca09523	Non-Synonymous-CDS	-
CWSNP2066	Ca-Kabuli-Chr3	21687956	[C/T]	Ca09523	Synonymous-CDS	-
CWSNP2067	Ca-Kabuli-Chr3	21687953	[C/T]	Ca09523	Non-Synonymous-CDS	-
CWSNP2068	Ca-Kabuli-Chr3	21809546	[T/A]	-	Intergenic	-
CWSNP2069	Ca-Kabuli-Chr3	21809503	[T/C]	-	Intergenic	-
CWSNP2070	Ca-Kabuli-Chr3	21950053	[C/G]	Ca20431	Intron	Domain of unknown function DUF296
CWSNP2071	Ca-Kabuli-Chr3	22008087	[G/A]	Ca20426	Non-Synonymous-CDS	SEC7-like
CWSNP2072	Ca-Kabuli-Chr3	22026111	[A/G]	Ca20423	Intron	Armadillo
CWSNP2073	Ca-Kabuli-Chr3	22062965	[C/T]	Ca20420	Intron	Forkhead-associated (FHA) domain
CWSNP2074	Ca-Kabuli-Chr3	22200927	[T/C]	Ca20410	Synonymous-CDS	-
CWSNP2075	Ca-Kabuli-Chr3	22253842	[T/C]	Ca20405	Intron	Glycosyltransferase, family8
CWSNP2076	Ca-Kabuli-Chr3	22346294	[T/C]	Ca06276	Non-Synonymous-CDS	PeptidaseS8/S53, subtilisin/kexin/sedolisin
CWSNP2077	Ca-Kabuli-Chr3	22404660	[G/T]	-	URR	-
CWSNP2078	Ca-Kabuli-Chr3	22727393	[G/A]	Ca06238	Non-Synonymous-CDS	Malicoxido reductase
CWSNP2079	Ca-Kabuli-Chr3	22727439	[A/C]	Ca06238	Synonymous-CDS	Malicoxido reductase
CWSNP2080	Ca-Kabuli-Chr3	22765862	[T/C]	-	DRR	-

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CWSNP2081	Ca-Kabuli-Chr3	22765987	[G/T]	-	DRR	-
CWSNP2082	Ca-Kabuli-Chr3	22846051	[G/A]	Ca06225	Intron	RNA helicase, ATP-dependent, DEAD-box, conserved site
CWSNP2083	Ca-Kabuli-Chr3	22990523	[C/T]	Ca06210	Non-Synonymous-CDS	Glycosidehydrolase, family14
CWSNP2084	Ca-Kabuli-Chr3	23042249	[A/C]	Ca06206	Non-Synonymous-CDS	Mediator complex, subunit Med12
CWSNP2085	Ca-Kabuli-Chr3	23053066	[A/C]	-	Intergenic	-
CWSNP2086	Ca-Kabuli-Chr3	23400864	[A/C]	-	Intergenic	-
CWSNP2087	Ca-Kabuli-Chr3	23455008	[A/G]	-	Intergenic	-
CWSNP2088	Ca-Kabuli-Chr3	23455128	[A/G]	-	Intergenic	-
CWSNP2089	Ca-Kabuli-Chr3	23461370	[C/A]	-	URR	-
CWSNP2090	Ca-Kabuli-Chr3	23593288	[G/A]	-	DRR	-
CWSNP2091	Ca-Kabuli-Chr3	23593294	[T/C]	-	DRR	-
CWSNP2092	Ca-Kabuli-Chr3	23593309	[T/C]	-	DRR	-
CWSNP2093	Ca-Kabuli-Chr3	23918105	[T/C]	-	URR	-
CWSNP2094	Ca-Kabuli-Chr3	23966110	[G/A]	Ca06124	Synonymous-CDS	DNA-binding WRKY
CWSNP2095	Ca-Kabuli-Chr3	24024513	[A/C]	-	DRR	-
CWSNP2096	Ca-Kabuli-Chr3	24194574	[C/T]	-	URR	-

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CWSNP2097	Ca-Kabuli-Chr3	24297894	[C/A]	Ca06091	Non-Synonymous-CDS	-
CWSNP2098	Ca-Kabuli-Chr3	24417507	[A/T]	Ca06076	Synonymous-CDS	Actin-binding FH2/DRF auto regulatory
CWSNP2099	Ca-Kabuli-Chr3	24538726	[A/C]	-	DRR	-
CWSNP2100	Ca-Kabuli-Chr3	24637834	[G/T]	-	DRR	-
CWSNP2101	Ca-Kabuli-Chr3	24637837	[A/C]	-	DRR	-
CWSNP2102	Ca-Kabuli-Chr3	24664582	[G/T]	-	DRR	-
CWSNP2103	Ca-Kabuli-Chr3	24664550	[T/G]	-	DRR	-
CWSNP2104	Ca-Kabuli-Chr3	25241115	[G/A]	Ca06005	Non-Synonymous-CDS	DNArepairmetallo-beta-lactamase
CWSNP2105	Ca-Kabuli-Chr3	25244194	[A/C]	Ca06004	Synonymous-CDS	Methyltransferasesmall
CWSNP2106	Ca-Kabuli-Chr3	25462227	[A/C]	Ca05988	Non-Synonymous-CDS	Glycerophosphoryldiester phosphodiesterase
CWSNP2107	Ca-Kabuli-Chr3	25504708	[A/G]	-	Intergenic	-
CWSNP2108	Ca-Kabuli-Chr3	25580072	[A/T]	Ca05977	Non-Synonymous-CDS	Nodulin-like
CWSNP2109	Ca-Kabuli-Chr3	25614515	[T/G]	-	Intergenic	-
CWSNP2110	Ca-Kabuli-Chr3	25688341	[G/A]	-	DRR	-
CWSNP2111	Ca-Kabuli-Chr3	25718829	[C/A]	-	URR	-
CWSNP2112	Ca-Kabuli-Chr3	25718827	[T/A]	-	URR	-

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CWSNP2113	Ca-Kabuli-Chr3	25757693	[C/T]	Ca23882	Synonymous-CDS	SET domain
CWSNP2114	Ca-Kabuli-Chr3	26163449	[G/A]	Ca08289	Non-Synonymous-CDS	Calcium-binding EF-hand
CWSNP2115	Ca-Kabuli-Chr3	26335889	[T/A]	Ca08268	Synonymous-CDS	Exportin-1/Importin-beta-like
CWSNP2116	Ca-Kabuli-Chr3	26339286	[T/C]	Ca08268	Non-Synonymous-CDS	Exportin-1/Importin-beta-like
CWSNP2117	Ca-Kabuli-Chr3	26573902	[A/G]	Ca08252	Non-Synonymous-CDS	NotCCR4-Not complex component, N-terminal
CWSNP2118	Ca-Kabuli-Chr3	26574831	[A/G]	Ca08252	Synonymous-CDS	NotCCR4-Not complex component, N-terminal
CWSNP2119	Ca-Kabuli-Chr3	26627150	[T/G]	Ca08246	Intron	YTH domain
CWSNP2120	Ca-Kabuli-Chr3	26678433	[T/G]	-	DRR	-
CWSNP2121	Ca-Kabuli-Chr3	26726897	[C/A]	-	Intergenic	-
CWSNP2122	Ca-Kabuli-Chr3	26758452	[C/A]	Ca08231	Non-Synonymous-CDS	HEAT
CWSNP2123	Ca-Kabuli-Chr3	26848870	[G/C]	Ca08222	Non-Synonymous-CDS	Regulator of chromosome condensation, RCC1
CWSNP2124	Ca-Kabuli-Chr3	26849288	[T/A]	Ca08222	Non-Synonymous-CDS	Regulator of chromosome condensation, RCC1
CWSNP2125	Ca-Kabuli-Chr3	26878028	[A/T]	-	Intergenic	-
CWSNP2126	Ca-Kabuli-Chr3	26900271	[T/A]	-	URR	-
CWSNP2127	Ca-Kabuli-Chr3	26911443	[A/T]	Ca08214	Intron	Methionine synthase, vitamin-B12 independent
CWSNP2128	Ca-Kabuli-Chr3	26911514	[A/G]	Ca08214	Intron	Methionine synthase, vitamin-B12 independent

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CWSNP2129	Ca-Kabuli-Chr3	26911723	[T/A]	Ca08214	Intron	Methionine synthase, vitamin-B12 independent
CWSNP2130	Ca-Kabuli-Chr3	26911792	[A/G]	Ca08214	Synonymous-CDS	Methionine synthase, vitamin-B12 independent
CWSNP2131	Ca-Kabuli-Chr3	27047847	[A/C]	Ca08199	Synonymous-CDS	BTB/POZ-like
CWSNP2132	Ca-Kabuli-Chr3	27076716	[T/C]	-	DRR	-
CWSNP2133	Ca-Kabuli-Chr3	27076735	[T/G]	-	DRR	-
CWSNP2134	Ca-Kabuli-Chr3	27076744	[C/A]	-	DRR	-
CWSNP2135	Ca-Kabuli-Chr3	27338521	[T/C]	-	URR	-
CWSNP2136	Ca-Kabuli-Chr3	27632100	[G/A]	Ca08144	Non-Synonymous-CDS	Myb, DNA-binding
CWSNP2137	Ca-Kabuli-Chr3	27654798	[A/C]	Ca08142	Synonymous-CDS	RNA recognition motif domain
CWSNP2138	Ca-Kabuli-Chr3	27673727	[C/A]	Ca08139	Non-Synonymous-CDS	-
CWSNP2139	Ca-Kabuli-Chr3	27716396	[C/T]	-	DRR	-
CWSNP2140	Ca-Kabuli-Chr3	27877479	[C/T]	Ca08121	Synonymous-CDS	Ubiquitin-associated/translation elongation factor EF1B, N-terminal
CWSNP2141	Ca-Kabuli-Chr3	27889107	[A/G]	Ca08120	Non-Synonymous-CDS	Ribosomal proteinS1, RNA-binding domain
CWSNP2142	Ca-Kabuli-Chr3	27890849	[C/T]	Ca08120	Synonymous-CDS	Ribosomal proteinS1, RNA-binding domain
CWSNP2143	Ca-Kabuli-Chr3	27969207	[C/T]	Ca08113	Non-Synonymous-CDS	Zinc finger, C2H2-type
CWSNP2144	Ca-Kabuli-Chr3	28176380	[A/C]	-	Intergenic	-

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CWSNP2145	Ca-Kabuli-Chr3	28176333	[C/A]	-	Intergenic	-
CWSNP2146	Ca-Kabuli-Chr3	28375082	[G/A]	Ca07151	Intron	Transcription elongation factor,TFIIS/CRSP70,N-terminal,sub-type
CWSNP2147	Ca-Kabuli-Chr3	28420948	[C/T]	-	URR	-
CWSNP2148	Ca-Kabuli-Chr3	28680858	[C/T]	Ca07175	Intron	Glutamine amidotransferase,class-II
CWSNP2149	Ca-Kabuli-Chr3	28845958	[A/C]	-	URR	-
CWSNP2150	Ca-Kabuli-Chr3	28943989	[G/T]	-	DRR	-
CWSNP2151	Ca-Kabuli-Chr3	29056768	[T/C]	Ca07211	Synonymous-CDS	ATPase,AAA+type,core
CWSNP2152	Ca-Kabuli-Chr3	29107776	[A/G]	Ca07215	Intron	Heat shock protein DnaJ,N-terminal
CWSNP2153	Ca-Kabuli-Chr3	29155741	[C/G]	Ca07220	Intron	Rhoterminationfactor,N-terminal
CWSNP2154	Ca-Kabuli-Chr3	29177885	[A/C]	-	Intergenic	-
CWSNP2155	Ca-Kabuli-Chr3	29207338	[G/A]	-	Intergenic	-
CWSNP2156	Ca-Kabuli-Chr3	29302251	[C/T]	Ca07237	Intron	Pathogenesis-related transcriptional factor/ERF, DNA-binding
CWSNP2157	Ca-Kabuli-Chr3	29303144	[A/C]	Ca07237	Intron	Pathogenesis-related transcriptional factor/ERF, DNA-binding
CWSNP2158	Ca-Kabuli-Chr3	29304116	[A/G]	-	Intergenic	-
CWSNP2159	Ca-Kabuli-Chr3	29508831	[C/T]	Ca07256	Non-Synonymous-CDS	Protein kinase, catalytic domain
CWSNP2160	Ca-Kabuli-Chr3	29509310	[G/T]	Ca07256	Synonymous-CDS	Protein kinase, catalytic domain

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CWSNP2161	Ca-Kabuli-Chr3	29603720	[T/C]	-	DRR	-
CWSNP2162	Ca-Kabuli-Chr3	29666633	[C/T]	-	Intergenic	-
CWSNP2163	Ca-Kabuli-Chr3	29698166	[G/T]	-	Intergenic	-
CWSNP2164	Ca-Kabuli-Chr3	29698289	[G/A]	-	Intergenic	-
CWSNP2165	Ca-Kabuli-Chr3	29698273	[A/C]	-	Intergenic	-
CWSNP2166	Ca-Kabuli-Chr3	29730019	[G/T]	-	Intergenic	-
CWSNP2167	Ca-Kabuli-Chr3	29744878	[T/G]	Ca07282	Synonymous-CDS	-
CWSNP2168	Ca-Kabuli-Chr3	29803866	[C/T]	-	DRR	-
CWSNP2169	Ca-Kabuli-Chr3	29803962	[A/G]	-	DRR	-
CWSNP2170	Ca-Kabuli-Chr3	29807091	[C/G]	-	DRR	-
CWSNP2171	Ca-Kabuli-Chr3	29807248	[A/G]	-	DRR	-
CWSNP2172	Ca-Kabuli-Chr3	29836337	[C/A]	-	Intergenic	-
CWSNP2173	Ca-Kabuli-Chr3	29840029	[C/G]	-	URR	-
CWSNP2174	Ca-Kabuli-Chr3	29840028	[T/C]	-	URR	-
CWSNP2175	Ca-Kabuli-Chr3	29840022	[C/A]	-	URR	-
CWSNP2176	Ca-Kabuli-Chr3	29840012	[A/T]	-	URR	-

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CWSNP2177	Ca-Kabuli-Chr3	29844509	[T/A]	Ca07292	Intron	Basic-leucine zipper (bZIP) Transcription factor
CWSNP2178	Ca-Kabuli-Chr3	29869190	[G/T]	Ca07295	Intron	CARP motif
CWSNP2179	Ca-Kabuli-Chr3	29869381	[G/A]	Ca07295	Non-Synonymous-CDS	CARP motif
CWSNP2180	Ca-Kabuli-Chr3	29869380	[G/A]	Ca07295	Non-Synonymous-CDS	CARP motif
CWSNP2181	Ca-Kabuli-Chr3	29872643	[A/G]	Ca07295	Intron	CARP motif
CWSNP2182	Ca-Kabuli-Chr3	29872682	[G/A]	Ca07295	Intron	CARP motif
CWSNP2183	Ca-Kabuli-Chr3	29912488	[A/G]	-	URR	-
CWSNP2184	Ca-Kabuli-Chr3	29915510	[G/A]	-	Intergenic	-
CWSNP2185	Ca-Kabuli-Chr3	29932378	[C/G]	Ca07304	Intron	Myb,DNA-binding
CWSNP2186	Ca-Kabuli-Chr3	29932504	[T/A]	Ca07304	Intron	Myb,DNA-binding
CWSNP2187	Ca-Kabuli-Chr3	29932502	[G/C]	Ca07304	Intron	Myb,DNA-binding
CWSNP2188	Ca-Kabuli-Chr3	29954498	[G/A]	-	Intergenic	-
CWSNP2189	Ca-Kabuli-Chr3	29954533	[A/G]	-	Intergenic	-
CWSNP2190	Ca-Kabuli-Chr3	29954648	[A/T]	-	Intergenic	-
CWSNP2191	Ca-Kabuli-Chr3	29954612	[T/G]	-	Intergenic	-
CWSNP2192	Ca-Kabuli-Chr3	29974532	[A/G]	Ca07307	Synonymous-CDS	Zinc finger,CCCH-type

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP2193	Ca-Kabuli-Chr3	29974595	[C/T]	Ca07307	Synonymous-CDS	Zinc finger,CCCH-type
CWSNP2194	Ca-Kabuli-Chr3	29982638	[A/G]	-	URR	-
CWSNP2195	Ca-Kabuli-Chr3	29982644	[T/C]	-	URR	-
CWSNP2196	Ca-Kabuli-Chr3	30004311	[T/G]	-	DRR	-
CWSNP2197	Ca-Kabuli-Chr3	30004295	[A/G]	-	DRR	-
CWSNP2198	Ca-Kabuli-Chr3	30009751	[A/C]	-	URR	-
CWSNP2199	Ca-Kabuli-Chr3	30011584	[T/C]	-	URR	-
CWSNP2200	Ca-Kabuli-Chr3	30011669	[A/G]	-	URR	-
CWSNP2201	Ca-Kabuli-Chr3	30011642	[T/A]	-	URR	-
CWSNP2202	Ca-Kabuli-Chr3	30011621	[C/T]	-	URR	-
CWSNP2203	Ca-Kabuli-Chr3	30029858	[T/A]	Ca07318	Non-Synonymous-CDS	NUDIX hydrolase domain
CWSNP2204	Ca-Kabuli-Chr3	30029842	[G/C]	Ca07318	Intron	NUDIX hydrolase domain
CWSNP2205	Ca-Kabuli-Chr3	30029817	[T/G]	Ca07318	Intron	NUDIX hydrolase domain
CWSNP2206	Ca-Kabuli-Chr3	30084154	[T/C]	-	Intergenic	-
CWSNP2207	Ca-Kabuli-Chr3	30101476	[A/C]	Ca07324	Intron	Methyltransferase-related
CWSNP2208	Ca-Kabuli-Chr3	30321177	[C/G]	-	Intergenic	-

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CWSNP2209	Ca-Kabuli-Chr3	30376319	[G/A]	Ca07358	Synonymous-CDS	Short-chain dehydrogenase/reductaseSDR
CWSNP2210	Ca-Kabuli-Chr3	30385153	[T/A]	Ca07359	Intron	-
CWSNP2211	Ca-Kabuli-Chr3	30397262	[A/T]	Ca07359	Intron	-
CWSNP2212	Ca-Kabuli-Chr3	30510333	[C/T]	-	Intergenic	-
CWSNP2213	Ca-Kabuli-Chr3	30675468	[T/G]	-	Intergenic	-
CWSNP2214	Ca-Kabuli-Chr3	30837284	[C/T]	-	DRR	-
CWSNP2215	Ca-Kabuli-Chr3	30837265	[T/C]	-	DRR	-
CWSNP2216	Ca-Kabuli-Chr3	31267639	[T/A]	-	DRR	-
CWSNP2217	Ca-Kabuli-Chr3	31267675	[A/G]	-	DRR	-
CWSNP2218	Ca-Kabuli-Chr3	31267681	[G/A]	-	DRR	-
CWSNP2219	Ca-Kabuli-Chr3	31267828	[A/G]	-	DRR	-
CWSNP2220	Ca-Kabuli-Chr3	31267927	[T/G]	-	DRR	-
CWSNP2221	Ca-Kabuli-Chr3	31268143	[A/G]	-	DRR	-
CWSNP2222	Ca-Kabuli-Chr3	31279616	[T/A]	Ca12224	Intron	Protein of unknown function DUF647
CWSNP2223	Ca-Kabuli-Chr3	31279606	[G/A]	Ca12224	Intron	Protein of unknown function DUF647
CWSNP2224	Ca-Kabuli-Chr3	31279605	[G/A]	Ca12224	Intron	Protein of unknown function DUF647

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP2225	Ca-Kabuli-Chr3	31287909	[A/G]	Ca12225	Synonymous-CDS	General substrate transporter
CWSNP2226	Ca-Kabuli-Chr3	31288143	[T/C]	Ca12225	Synonymous-CDS	General substrate transporter
CWSNP2227	Ca-Kabuli-Chr3	31301783	[A/G]	-	DRR	-
CWSNP2228	Ca-Kabuli-Chr3	31302060	[T/C]	-	DRR	-
CWSNP2229	Ca-Kabuli-Chr3	31313021	[G/T]	-	URR	-
CWSNP2230	Ca-Kabuli-Chr3	31317521	[T/G]	-	URR	-
CWSNP2231	Ca-Kabuli-Chr3	31321725	[A/G]	-	URR	-
CWSNP2232	Ca-Kabuli-Chr3	31321778	[G/A]	-	URR	-
CWSNP2233	Ca-Kabuli-Chr3	31321850	[A/G]	-	URR	-
CWSNP2234	Ca-Kabuli-Chr3	31341335	[C/T]	Ca12234	Synonymous-CDS	Domain of unknown function DUF640
CWSNP2235	Ca-Kabuli-Chr3	31342119	[A/T]	-	Intergenic	-
CWSNP2236	Ca-Kabuli-Chr3	31354988	[G/C]	-	DRR	-
CWSNP2237	Ca-Kabuli-Chr3	31355001	[C/T]	-	DRR	-
CWSNP2238	Ca-Kabuli-Chr3	31355026	[T/C]	-	DRR	-
CWSNP2239	Ca-Kabuli-Chr3	31431216	[C/T]	Ca12240	Intron	Protein kinase, catalytic domain
CWSNP2240	Ca-Kabuli-Chr3	31478804	[T/C]	Ca12246	Synonymous-CDS	Glucose-methanol-cholineoxidoreductase,N-terminal

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP2241	Ca-Kabuli-Chr3	31478882	[C/T]	Ca12246	Synonymous-CDS	Glucose-methanol-cholineoxidoreductase,N-terminal
CWSNP2242	Ca-Kabuli-Chr3	31480603	[T/C]	-	URR	-
CWSNP2243	Ca-Kabuli-Chr3	31516662	[G/T]	-	URR	-
CWSNP2244	Ca-Kabuli-Chr3	31516766	[T/C]	-	URR	-
CWSNP2245	Ca-Kabuli-Chr3	31520119	[C/T]	-	Intergenic	-
CWSNP2246	Ca-Kabuli-Chr3	31520225	[A/T]	-	URR	-
CWSNP2247	Ca-Kabuli-Chr3	31520198	[G/A]	-	URR	-
CWSNP2248	Ca-Kabuli-Chr3	31520190	[T/C]	-	Intergenic	-
CWSNP2249	Ca-Kabuli-Chr3	31521142	[T/C]	-	URR	-
CWSNP2250	Ca-Kabuli-Chr3	31521155	[T/A]	-	URR	-
CWSNP2251	Ca-Kabuli-Chr3	31589355	[A/G]	Ca12258	Intron	SET domain
CWSNP2252	Ca-Kabuli-Chr3	31589329	[C/T]	Ca12258	Intron	SET domain
CWSNP2253	Ca-Kabuli-Chr3	31630195	[T/C]	Ca12262	Intron	RNA recognition motif domain
CWSNP2254	Ca-Kabuli-Chr3	31631451	[A/C]	Ca12262	Non-Synonymous-CDS	RNA recognition motif domain
CWSNP2255	Ca-Kabuli-Chr3	31631561	[G/A]	Ca12262	Synonymous-CDS	RNA recognition motif domain
CWSNP2256	Ca-Kabuli-Chr3	31631534	[A/G]	Ca12262	Synonymous-CDS	RNA recognition motif domain

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP2257	Ca-Kabuli-Chr3	31631622	[G/A]	Ca12262	Intron	RNA recognition motif domain
CWSNP2258	Ca-Kabuli-Chr3	31631644	[A/C]	Ca12262	Intron	RNA recognition motif domain
CWSNP2259	Ca-Kabuli-Chr3	31646802	[G/A]	-	Intergenic	-
CWSNP2260	Ca-Kabuli-Chr3	31683906	[A/G]	Ca12270	Non-Synonymous-CDS	PeptidaseS8/S53,subtilisin/kexin/sedolisin
CWSNP2261	Ca-Kabuli-Chr3	31689128	[C/T]	-	URR	-
CWSNP2262	Ca-Kabuli-Chr3	31698493	[A/C]	Ca12272	Intron	ABC transporter, transmembrane domain
CWSNP2263	Ca-Kabuli-Chr3	31771314	[C/A]	-	URR	-
CWSNP2264	Ca-Kabuli-Chr3	31931014	[A/C]	Ca12294	Synonymous-CDS	-
CWSNP2265	Ca-Kabuli-Chr3	31951994	[G/A]	Ca12295	Synonymous-CDS	HEAT
CWSNP2266	Ca-Kabuli-Chr3	31953466	[G/A]	Ca12295	Intron	HEAT
CWSNP2267	Ca-Kabuli-Chr3	32351052	[C/T]	Ca11958	Synonymous-CDS	Heat shock protein Hsp70
CWSNP2268	Ca-Kabuli-Chr3	32351031	[G/C]	Ca11958	Synonymous-CDS	Heat shock protein Hsp70
CWSNP2269	Ca-Kabuli-Chr3	32357599	[C/T]	Ca11959	Synonymous-CDS	Heat shock protein Hsp70
CWSNP2270	Ca-Kabuli-Chr3	32357578	[G/C]	Ca11959	Synonymous-CDS	Heat shock protein Hsp70
CWSNP2271	Ca-Kabuli-Chr3	32510033	[T/G]	-	Intergenic	-
CWSNP2272	Ca-Kabuli-Chr3	32510090	[A/G]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP2273	Ca-Kabuli-Chr3	32510124	[C/T]	-	Intergenic	-
CWSNP2274	Ca-Kabuli-Chr3	32510111	[C/T]	-	Intergenic	-
CWSNP2275	Ca-Kabuli-Chr3	32510071	[G/T]	-	Intergenic	-
CWSNP2276	Ca-Kabuli-Chr3	32510081	[C/T]	-	Intergenic	-
CWSNP2277	Ca-Kabuli-Chr3	32514908	[A/G]	-	Intergenic	-
CWSNP2278	Ca-Kabuli-Chr3	32514889	[C/T]	-	Intergenic	-
CWSNP2279	Ca-Kabuli-Chr3	32514868	[A/G]	-	Intergenic	-
CWSNP2280	Ca-Kabuli-Chr3	32514867	[C/T]	-	Intergenic	-
CWSNP2281	Ca-Kabuli-Chr3	32514859	[C/T]	-	Intergenic	-
CWSNP2282	Ca-Kabuli-Chr3	32525128	[G/T]	Ca11978	Non-Synonymous-CDS	Ras GTPase
CWSNP2283	Ca-Kabuli-Chr3	32663059	[A/C]	Ca11994	Non-Synonymous-CDS	RNA recognition motif domain
CWSNP2284	Ca-Kabuli-Chr3	32827067	[C/G]	-	URR	-
CWSNP2285	Ca-Kabuli-Chr3	32827065	[T/G]	-	URR	-
CWSNP2286	Ca-Kabuli-Chr3	32845395	[C/A]	-	DRR	-
CWSNP2287	Ca-Kabuli-Chr3	32865530	[C/G]	Ca12023	Intron	Helicase,C-terminal
CWSNP2288	Ca-Kabuli-Chr3	33091737	[A/C]	Ca12046	Intron	SNF2-related

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP2289	Ca-Kabuli-Chr3	33120825	[G/A]	-	DRR	-
CWSNP2290	Ca-Kabuli-Chr3	33520615	[A/C]	Ca23669	Non-Synonymous-CDS	-
CWSNP2291	Ca-Kabuli-Chr3	33522974	[G/A]	Ca23669	Intron	-
CWSNP2292	Ca-Kabuli-Chr3	33627826	[A/C]	-	Intergenic	-
CWSNP2293	Ca-Kabuli-Chr3	33715215	[G/T]	Ca20869	Intron	Alpha/beta hydrolase fold-1
CWSNP2294	Ca-Kabuli-Chr3	33900522	[A/G]	Ca20884	Intron	ABC transporter, transmembrane domain
CWSNP2295	Ca-Kabuli-Chr3	33904394	[T/A]	-	Intergenic	-
CWSNP2296	Ca-Kabuli-Chr3	34247736	[T/G]	Ca00702	Non-Synonymous-CDS	ABC transporter, transmembrane domain
CWSNP2297	Ca-Kabuli-Chr3	34352385	[A/C]	-	URR	-
CWSNP2298	Ca-Kabuli-Chr3	34496982	[G/C]	Ca00725	Synonymous-CDS	WD40 repeat
CWSNP2299	Ca-Kabuli-Chr3	34524656	[C/A]	Ca00726	Non-Synonymous-CDS	-
CWSNP2300	Ca-Kabuli-Chr3	34543039	[C/T]	Ca00726	Non-Synonymous-CDS	-
CWSNP2301	Ca-Kabuli-Chr3	34543111	[A/G]	Ca00726	Non-Synonymous-CDS	-
CWSNP2302	Ca-Kabuli-Chr3	34547052	[A/T]	Ca00726	Non-Synonymous-CDS	-
CWSNP2303	Ca-Kabuli-Chr3	34547069	[G/T]	Ca00726	Non-Synonymous-CDS	-
CWSNP2304	Ca-Kabuli-Chr3	34603669	[T/A]	Ca00732	Non-Synonymous-CDS	Zinc finger,PHD-type

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP2305	Ca-Kabuli-Chr3	34662736	[T/G]	Ca00740	Intron	RNA recognition motif domain
CWSNP2306	Ca-Kabuli-Chr3	34699114	[C/A]	Ca00745	Non-Synonymous-CDS	HECT
CWSNP2307	Ca-Kabuli-Chr3	34699076	[T/C]	Ca00745	Non-Synonymous-CDS	HECT
CWSNP2308	Ca-Kabuli-Chr3	34722508	[A/T]	-	Intergenic	-
CWSNP2309	Ca-Kabuli-Chr3	34722931	[A/G]	-	URR	-
CWSNP2310	Ca-Kabuli-Chr3	34722979	[T/C]	-	URR	-
CWSNP2311	Ca-Kabuli-Chr3	34730463	[T/C]	Ca00748	Intron	Protein of unknown function DUF81
CWSNP2312	Ca-Kabuli-Chr3	34730954	[G/A]	-	Intergenic	-
CWSNP2313	Ca-Kabuli-Chr3	34852030	[G/A]	-	DRR	-
CWSNP2314	Ca-Kabuli-Chr3	34852070	[T/G]	-	DRR	-
CWSNP2315	Ca-Kabuli-Chr3	34889316	[C/G]	Ca00767	Synonymous-CDS	Fructose-bisphosphatealdolase,class-I
CWSNP2316	Ca-Kabuli-Chr3	34911621	[G/A]	Ca00768	Synonymous-CDS	Pathogenesis-related transcriptional factor/ERF, DNA-binding
CWSNP2317	Ca-Kabuli-Chr3	35071821	[A/G]	Ca00779	Intron	Protein kinase, catalytic domain
CWSNP2318	Ca-Kabuli-Chr3	35071852	[T/G]	Ca00779	Intron	Protein kinase, catalytic domain
CWSNP2319	Ca-Kabuli-Chr3	35085559	[T/A]	Ca00781	Synonymous-CDS	PeptidaseS8/S53,subtilisin/kexin/sedolisin
CWSNP2320	Ca-Kabuli-Chr3	35085658	[C/A]	Ca00781	Synonymous-CDS	PeptidaseS8/S53,subtilisin/kexin/sedolisin

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP2321	Ca-Kabuli-Chr3	35126649	[C/G]	Ca00786	Non-Synonymous-CDS	-
CWSNP2322	Ca-Kabuli-Chr3	35126760	[G/A]	Ca00786	Non-Synonymous-CDS	-
CWSNP2323	Ca-Kabuli-Chr3	35332088	[T/A]	Ca00812	Non-Synonymous-CDS	Kinesin , motor domain
CWSNP2324	Ca-Kabuli-Chr3	35383318	[C/T]	Ca00819	Intron	Peptidyl-prolylcis-transisomerase,cyclophilin-type
CWSNP2325	Ca-Kabuli-Chr3	35403074	[A/G]	-	DRR	-
CWSNP2326	Ca-Kabuli-Chr3	35420108	[T/A]	Ca00824	Intron	LETM1-like
CWSNP2327	Ca-Kabuli-Chr3	35424994	[T/C]	-	DRR	-
CWSNP2328	Ca-Kabuli-Chr3	35483932	[T/C]	-	DRR	-
CWSNP2329	Ca-Kabuli-Chr3	35483960	[T/C]	-	DRR	-
CWSNP2330	Ca-Kabuli-Chr3	35484034	[G/C]	-	DRR	-
CWSNP2331	Ca-Kabuli-Chr3	35487736	[T/C]	-	Intergenic	-
CWSNP2332	Ca-Kabuli-Chr3	35488597	[T/C]	-	URR	-
CWSNP2333	Ca-Kabuli-Chr3	35490991	[A/G]	-	URR	-
CWSNP2334	Ca-Kabuli-Chr3	35490951	[C/T]	-	URR	-
CWSNP2335	Ca-Kabuli-Chr3	35543614	[C/T]	-	DRR	-
CWSNP2336	Ca-Kabuli-Chr3	35631679	[C/G]	-	URR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP2337	Ca-Kabuli-Chr3	35631689	[C/A]	-	URR	-
CWSNP2338	Ca-Kabuli-Chr3	35631723	[A/G]	-	URR	-
CWSNP2339	Ca-Kabuli-Chr3	35747394	[C/G]	-	Intergenic	-
CWSNP2340	Ca-Kabuli-Chr3	35807265	[T/C]	-	DRR	-
CWSNP2341	Ca-Kabuli-Chr3	35807407	[A/T]	-	DRR	-
CWSNP2342	Ca-Kabuli-Chr3	35829834	[A/G]	-	URR	-
CWSNP2343	Ca-Kabuli-Chr3	35920684	[A/C]	-	URR	-
CWSNP2344	Ca-Kabuli-Chr3	35948487	[G/A]	-	Intergenic	-
CWSNP2345	Ca-Kabuli-Chr3	35979412	[G/T]	Ca00892	Synonymous-CDS	FAD-linked oxidase, C-terminal
CWSNP2346	Ca-Kabuli-Chr3	36003699	[G/A]	Ca00896	Intron	Protease-associated domain, PA
CWSNP2347	Ca-Kabuli-Chr3	36003682	[G/T]	Ca00896	Intron	Protease-associated domain, PA
CWSNP2348	Ca-Kabuli-Chr3	36004668	[A/G]	Ca00896	Intron	Protease-associated domain, PA
CWSNP2349	Ca-Kabuli-Chr3	36046938	[C/T]	Ca00903	Synonymous-CDS	SWAP/Surp
CWSNP2350	Ca-Kabuli-Chr3	36046956	[A/C]	Ca00903	Synonymous-CDS	SWAP/Surp
CWSNP2351	Ca-Kabuli-Chr3	36050259	[T/G]	Ca00903	Synonymous-CDS	SWAP/Surp
CWSNP2352	Ca-Kabuli-Chr3	36050319	[T/C]	Ca00903	Synonymous-CDS	SWAP/Surp

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP2353	Ca-Kabuli-Chr3	36071033	[A/G]	-	Intergenic	-
CWSNP2354	Ca-Kabuli-Chr3	36085966	[G/A]	-	DRR	-
CWSNP2355	Ca-Kabuli-Chr3	36117521	[A/G]	Ca00911	Synonymous-CDS	-
CWSNP2356	Ca-Kabuli-Chr3	36118120	[T/C]	Ca00911	Intron	-
CWSNP2357	Ca-Kabuli-Chr3	36118156	[C/T]	Ca00911	Intron	-
CWSNP2358	Ca-Kabuli-Chr3	36119592	[T/C]	Ca00911	Non-Synonymous-CDS	-
CWSNP2359	Ca-Kabuli-Chr3	36119602	[C/A]	Ca00911	Non-Synonymous-CDS	-
CWSNP2360	Ca-Kabuli-Chr3	36130561	[T/A]	-	Intergenic	-
CWSNP2361	Ca-Kabuli-Chr3	36130610	[C/A]	-	Intergenic	-
CWSNP2362	Ca-Kabuli-Chr3	36132440	[T/C]	Ca00912	Intron	NPL4
CWSNP2363	Ca-Kabuli-Chr3	36132437	[C/T]	Ca00912	Intron	NPL4
CWSNP2364	Ca-Kabuli-Chr3	36132401	[C/T]	Ca00912	Intron	NPL4
CWSNP2365	Ca-Kabuli-Chr3	36132480	[C/T]	Ca00912	Intron	NPL4
CWSNP2366	Ca-Kabuli-Chr3	36132539	[C/T]	Ca00912	Intron	NPL4
CWSNP2367	Ca-Kabuli-Chr3	36132586	[T/G]	Ca00912	Intron	NPL4
CWSNP2368	Ca-Kabuli-Chr3	36132570	[G/A]	Ca00912	Intron	NPL4

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP2369	Ca-Kabuli-Chr3	36132554	[A/T]	Ca00912	Intron	NPL4
CWSNP2370	Ca-Kabuli-Chr3	36150722	[G/A]	-	URR	-
CWSNP2371	Ca-Kabuli-Chr3	36150717	[T/C]	-	URR	-
CWSNP2372	Ca-Kabuli-Chr3	36167136	[G/T]	-	Intergenic	-
CWSNP2373	Ca-Kabuli-Chr3	36177201	[T/C]	-	Intergenic	-
CWSNP2374	Ca-Kabuli-Chr3	36205806	[T/G]	-	Intergenic	-
CWSNP2375	Ca-Kabuli-Chr3	36205819	[A/G]	-	Intergenic	-
CWSNP2376	Ca-Kabuli-Chr3	36205845	[A/G]	-	Intergenic	-
CWSNP2377	Ca-Kabuli-Chr3	36206615	[A/C]	Ca00925	Intron	rRNA processing
CWSNP2378	Ca-Kabuli-Chr3	36212809	[G/A]	-	URR	-
CWSNP2379	Ca-Kabuli-Chr3	36212843	[T/A]	-	URR	-
CWSNP2380	Ca-Kabuli-Chr3	36217686	[G/A]	Ca00927	Intron	Zinc finger,B-box
CWSNP2381	Ca-Kabuli-Chr3	36227565	[A/T]	-	Intergenic	-
CWSNP2382	Ca-Kabuli-Chr3	36227566	[A/T]	-	Intergenic	-
CWSNP2383	Ca-Kabuli-Chr3	36227948	[A/G]	-	Intergenic	-
CWSNP2384	Ca-Kabuli-Chr3	36228032	[G/T]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP2385	Ca-Kabuli-Chr3	36228121	[T/A]	Ca00929	Intron	Ribosomal proteinS19/S15
CWSNP2386	Ca-Kabuli-Chr3	36242504	[C/T]	-	URR	-
CWSNP2387	Ca-Kabuli-Chr3	36242490	[G/T]	-	URR	-
CWSNP2388	Ca-Kabuli-Chr3	36242480	[G/C]	-	URR	-
CWSNP2389	Ca-Kabuli-Chr3	36247792	[T/C]	-	Intergenic	-
CWSNP2390	Ca-Kabuli-Chr3	36260865	[C/A]	-	URR	-
CWSNP2391	Ca-Kabuli-Chr3	36282091	[T/G]	Ca00938	Non-Synonymous-CDS	Domain of unknown function DUF255
CWSNP2392	Ca-Kabuli-Chr3	36293589	[A/G]	Ca00939	Synonymous-CDS	Zinc finger,CW-type
CWSNP2393	Ca-Kabuli-Chr3	36293625	[C/T]	Ca00939	Synonymous-CDS	Zinc finger,CW-type
CWSNP2394	Ca-Kabuli-Chr3	36293637	[C/T]	Ca00939	Synonymous-CDS	Zinc finger,CW-type
CWSNP2395	Ca-Kabuli-Chr3	36330750	[A/G]	Ca00942	Non-Synonymous-CDS	Homeobox
CWSNP2396	Ca-Kabuli-Chr3	36330815	[T/C]	Ca00942	Synonymous-CDS	Homeobox
CWSNP2397	Ca-Kabuli-Chr3	36345158	[T/C]	Ca00943	Non-Synonymous-CDS	Zinc finger,C2H2-type
CWSNP2398	Ca-Kabuli-Chr3	36361339	[C/T]	-	Intergenic	-
CWSNP2399	Ca-Kabuli-Chr3	36378294	[G/T]	Ca00946	Synonymous-CDS	Protein kinase, catalytic domain
CWSNP2400	Ca-Kabuli-Chr3	36378299	[C/G]	Ca00946	Intron	Protein kinase, catalytic domain

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP2401	Ca-Kabuli-Chr3	36378358	[G/A]	Ca00946	Intron	Protein kinase, catalytic domain
CWSNP2402	Ca-Kabuli-Chr3	36387615	[A/T]	-	DRR	-
CWSNP2403	Ca-Kabuli-Chr3	36387732	[G/A]	-	DRR	-
CWSNP2404	Ca-Kabuli-Chr3	36387718	[C/T]	-	DRR	-
CWSNP2405	Ca-Kabuli-Chr3	36396559	[C/A]	-	URR	-
CWSNP2406	Ca-Kabuli-Chr3	36432389	[A/G]	Ca00957	Synonymous-CDS	Thiamin pyrophosphokinase, catalytic domain
CWSNP2407	Ca-Kabuli-Chr3	36447274	[G/A]	-	DRR	-
CWSNP2408	Ca-Kabuli-Chr3	36447364	[T/A]	-	DRR	-
CWSNP2409	Ca-Kabuli-Chr3	36447520	[T/A]	-	DRR	-
CWSNP2410	Ca-Kabuli-Chr3	36447525	[C/T]	-	DRR	-
CWSNP2411	Ca-Kabuli-Chr3	36488722	[T/A]	-	Intergenic	-
CWSNP2412	Ca-Kabuli-Chr3	36488736	[T/C]	-	Intergenic	-
CWSNP2413	Ca-Kabuli-Chr3	36488853	[A/G]	-	Intergenic	-
CWSNP2414	Ca-Kabuli-Chr3	36503906	[C/T]	Ca00967	Non-Synonymous-CDS	Small-subunit processome,Utp14
CWSNP2415	Ca-Kabuli-Chr3	36503912	[T/C]	Ca00967	Non-Synonymous-CDS	Small-subunit processome,Utp14
CWSNP2416	Ca-Kabuli-Chr3	36524598	[G/C]	-	DRR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP2417	Ca-Kabuli-Chr3	36524635	[A/G]	-	DRR	-
CWSNP2418	Ca-Kabuli-Chr3	36524659	[T/C]	-	DRR	-
CWSNP2419	Ca-Kabuli-Chr3	36531151	[C/A]	-	URR	-
CWSNP2420	Ca-Kabuli-Chr3	36588856	[C/T]	Ca00978	Synonymous-CDS	Pectinesterase,catalytic
CWSNP2421	Ca-Kabuli-Chr3	36588896	[C/G]	Ca00978	Non-Synonymous-CDS	Pectinesterase,catalytic
CWSNP2422	Ca-Kabuli-Chr3	36609043	[G/A]	Ca00980	Non-Synonymous-CDS	Metal-dependentphosphohydrolase,HDdomain
CWSNP2423	Ca-Kabuli-Chr3	36616855	[T/C]	-	DRR	-
CWSNP2424	Ca-Kabuli-Chr3	36644117	[A/T]	Ca00985	Synonymous-CDS	TargetSNAREcoiled-coildomain
CWSNP2425	Ca-Kabuli-Chr3	36733211	[A/G]	Ca00997	Synonymous-CDS	Heat shock protein DnaJ,N-terminal
CWSNP2426	Ca-Kabuli-Chr3	36749775	[T/A]	Ca00998	Synonymous-CDS	Glycosidehydrolase,family3,N-terminal
CWSNP2427	Ca-Kabuli-Chr3	36749826	[G/A]	Ca00998	Synonymous-CDS	Glycosidehydrolase,family3,N-terminal
CWSNP2428	Ca-Kabuli-Chr3	36749829	[T/C]	Ca00998	Non-Synonymous-CDS	Glycosidehydrolase,family3,N-terminal
CWSNP2429	Ca-Kabuli-Chr3	36749831	[T/C]	Ca00998	Non-Synonymous-CDS	Glycosidehydrolase,family3,N-terminal
CWSNP2430	Ca-Kabuli-Chr3	36749871	[T/C]	Ca00998	Synonymous-CDS	Glycosidehydrolase,family3,N-terminal
CWSNP2431	Ca-Kabuli-Chr3	36749916	[C/A]	Ca00998	Non-Synonymous-CDS	Glycosidehydrolase,family3,N-terminal
CWSNP2432	Ca-Kabuli-Chr3	36783494	[T/A]	-	DRR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP2433	Ca-Kabuli-Chr3	36860134	[A/G]	-	Intergenic	-
CWSNP2434	Ca-Kabuli-Chr3	36883268	[T/C]	-	URR	-
CWSNP2435	Ca-Kabuli-Chr3	36883333	[A/T]	-	URR	-
CWSNP2436	Ca-Kabuli-Chr3	36895362	[T/C]	Ca01015	Intron	-
CWSNP2437	Ca-Kabuli-Chr3	36938148	[A/G]	Ca01019	Intron	RNA recognition motif domain
CWSNP2438	Ca-Kabuli-Chr3	36938271	[G/C]	Ca01019	Intron	RNA recognition motif domain
CWSNP2439	Ca-Kabuli-Chr3	36943522	[A/G]	-	Intergenic	-
CWSNP2440	Ca-Kabuli-Chr3	36991718	[C/A]	Ca01027	Intron	Ras small GTPase, Rab type
CWSNP2441	Ca-Kabuli-Chr3	37003976	[C/T]	-	URR	-
CWSNP2442	Ca-Kabuli-Chr3	37004026	[A/G]	-	URR	-
CWSNP2443	Ca-Kabuli-Chr3	37067095	[T/G]	Ca01033	Synonymous-CDS	Zinc finger,RING-type
CWSNP2444	Ca-Kabuli-Chr3	37072312	[T/C]	Ca01034	Intron	WD40 repeat
CWSNP2445	Ca-Kabuli-Chr3	37090968	[T/C]	-	DRR	-
CWSNP2446	Ca-Kabuli-Chr3	37100897	[G/T]	Ca01036	Intron	Transcription factor,SBP-box
CWSNP2447	Ca-Kabuli-Chr3	37101339	[A/T]	Ca01036	Non-Synonymous-CDS	Transcription factor,SBP-box
CWSNP2448	Ca-Kabuli-Chr3	37101433	[T/G]	Ca01036	Non-Synonymous-CDS	Transcription factor,SBP-box

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP2449	Ca-Kabuli-Chr3	37101409	[A/G]	Ca01036	Synonymous-CDS	Transcription factor,SBP-box
CWSNP2450	Ca-Kabuli-Chr3	37108908	[A/G]	Ca01037	Intron	Protein kinase, catalytic domain
CWSNP2451	Ca-Kabuli-Chr3	37108904	[A/T]	Ca01037	Intron	Protein kinase, catalytic domain
CWSNP2452	Ca-Kabuli-Chr3	37110070	[A/G]	Ca01037	Non-Synonymous-CDS	Protein kinase, catalytic domain
CWSNP2453	Ca-Kabuli-Chr3	37110124	[A/T]	Ca01037	Intron	Protein kinase, catalytic domain
CWSNP2454	Ca-Kabuli-Chr3	37146766	[C/G]	Ca01044	Non-Synonymous-CDS	Potassium channel, two pore-domain
CWSNP2455	Ca-Kabuli-Chr3	37146840	[A/G]	Ca01044	Synonymous-CDS	Potassium channel, two pore-domain
CWSNP2456	Ca-Kabuli-Chr3	37154761	[T/G]	-	Intergenic	-
CWSNP2457	Ca-Kabuli-Chr3	37154857	[T/C]	-	Intergenic	-
CWSNP2458	Ca-Kabuli-Chr3	37154938	[A/C]	-	Intergenic	-
CWSNP2459	Ca-Kabuli-Chr3	37155925	[G/A]	-	Intergenic	-
CWSNP2460	Ca-Kabuli-Chr3	37156951	[A/G]	-	DRR	-
CWSNP2461	Ca-Kabuli-Chr3	37160822	[G/T]	Ca01047	Synonymous-CDS	Zinc finger,Sec23/Sec24-type
CWSNP2462	Ca-Kabuli-Chr3	37160939	[A/G]	Ca01047	Synonymous-CDS	Zinc finger,Sec23/Sec24-type
CWSNP2463	Ca-Kabuli-Chr3	37303478	[G/A]	Ca01064	Synonymous-CDS	WD40 repeat
CWSNP2464	Ca-Kabuli-Chr3	37309420	[A/C]	Ca01064	Intron	WD40 repeat

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP2465	Ca-Kabuli-Chr3	37355013	[A/G]	Ca01069	Non-Synonymous-CDS	PAS
CWSNP2466	Ca-Kabuli-Chr3	37444451	[C/A]	-	DRR	-
CWSNP2467	Ca-Kabuli-Chr3	37599142	[T/C]	-	DRR	-
CWSNP2468	Ca-Kabuli-Chr3	37630502	[T/C]	-	URR	-
CWSNP2469	Ca-Kabuli-Chr3	37635909	[G/A]	-	DRR	-
CWSNP2470	Ca-Kabuli-Chr3	37759329	[G/A]	Ca01114	Intron	Armadillo
CWSNP2471	Ca-Kabuli-Chr3	37765767	[A/C]	-	Intergenic	-
CWSNP2472	Ca-Kabuli-Chr3	37908317	[T/C]	-	URR	-
CWSNP2473	Ca-Kabuli-Chr3	37908492	[A/C]	-	URR	-
CWSNP2474	Ca-Kabuli-Chr3	37910881	[A/G]	-	URR	-
CWSNP2475	Ca-Kabuli-Chr3	37942807	[A/G]	-	Intergenic	-
CWSNP2476	Ca-Kabuli-Chr3	37942962	[T/C]	-	Intergenic	-
CWSNP2477	Ca-Kabuli-Chr3	37985776	[T/A]	-	URR	-
CWSNP2478	Ca-Kabuli-Chr3	37985977	[A/G]	-	URR	-
CWSNP2479	Ca-Kabuli-Chr3	37985947	[A/T]	-	URR	-
CWSNP2480	Ca-Kabuli-Chr3	38026539	[A/G]	-	URR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP2481	Ca-Kabuli-Chr3	38026725	[G/A]	-	URR	-
CWSNP2482	Ca-Kabuli-Chr3	38029095	[G/C]	Ca01143	Non-Synonymous-CDS	-
CWSNP2483	Ca-Kabuli-Chr3	38033969	[A/G]	-	URR	-
CWSNP2484	Ca-Kabuli-Chr3	38046510	[T/C]	-	Intergenic	-
CWSNP2485	Ca-Kabuli-Chr3	38049996	[A/G]	-	URR	-
CWSNP2486	Ca-Kabuli-Chr3	38059303	[T/C]	-	URR	-
CWSNP2487	Ca-Kabuli-Chr3	38059311	[T/A]	-	URR	-
CWSNP2488	Ca-Kabuli-Chr3	38060814	[A/G]	-	URR	-
CWSNP2489	Ca-Kabuli-Chr3	38060755	[T/C]	-	URR	-
CWSNP2490	Ca-Kabuli-Chr3	38060742	[C/T]	-	URR	-
CWSNP2491	Ca-Kabuli-Chr3	38074259	[C/A]	-	URR	-
CWSNP2492	Ca-Kabuli-Chr3	38103375	[T/C]	Ca01154	Intron	PeptidaseS1/S6,chymotrypsin/Hap
CWSNP2493	Ca-Kabuli-Chr3	38103378	[C/T]	Ca01154	Intron	PeptidaseS1/S6,chymotrypsin/Hap
CWSNP2494	Ca-Kabuli-Chr3	38103385	[C/T]	Ca01154	Intron	PeptidaseS1/S6,chymotrypsin/Hap
CWSNP2495	Ca-Kabuli-Chr3	38103524	[C/T]	Ca01154	Synonymous-CDS	PeptidaseS1/S6,chymotrypsin/Hap
CWSNP2496	Ca-Kabuli-Chr3	38112801	[C/T]	-	DRR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP2497	Ca-Kabuli-Chr3	38112802	[T/C]	-	DRR	-
CWSNP2498	Ca-Kabuli-Chr3	38112971	[A/G]	-	DRR	-
CWSNP2499	Ca-Kabuli-Chr3	38117169	[T/C]	Ca01156	Intron	Acyl-CoA-binding protein,ACBP
CWSNP2500	Ca-Kabuli-Chr3	38130410	[A/G]	-	Intergenic	-
CWSNP2501	Ca-Kabuli-Chr3	38145115	[C/T]	Ca01158	Synonymous-CDS	Cystathioninebeta-synthase,core
CWSNP2502	Ca-Kabuli-Chr3	38202223	[C/T]	Ca01163	Intron	Creatinase
CWSNP2503	Ca-Kabuli-Chr3	38220910	[T/C]	-	URR	-
CWSNP2504	Ca-Kabuli-Chr3	38220958	[A/G]	-	URR	-
CWSNP2505	Ca-Kabuli-Chr3	38222750	[A/C]	-	DRR	-
CWSNP2506	Ca-Kabuli-Chr3	38222747	[G/A]	-	DRR	-
CWSNP2507	Ca-Kabuli-Chr3	38222733	[C/G]	-	DRR	-
CWSNP2508	Ca-Kabuli-Chr3	38228118	[G/T]	-	URR	-
CWSNP2509	Ca-Kabuli-Chr3	38386392	[T/C]	-	DRR	-
CWSNP2510	Ca-Kabuli-Chr3	38452060	[A/C]	Ca01198	Non-Synonymous-CDS	Heat shock protein DnaJ,N-terminal
CWSNP2511	Ca-Kabuli-Chr3	38539721	[T/G]	Ca01207	Non-Synonymous-CDS	Alpha/beta hydrolase fold-1
CWSNP2512	Ca-Kabuli-Chr3	38551142	[C/T]	Ca01208	Intron	WD40 repeat

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP2513	Ca-Kabuli-Chr3	38672863	[C/A]	-	Intergenic	-
CWSNP2514	Ca-Kabuli-Chr3	38731466	[T/G]	Ca01231	Non-Synonymous-CDS	Ammonium transporter
CWSNP2515	Ca-Kabuli-Chr3	38764390	[A/C]	-	Intergenic	-
CWSNP2516	Ca-Kabuli-Chr3	38766174	[A/G]	-	DRR	-
CWSNP2517	Ca-Kabuli-Chr3	38766311	[A/C]	-	DRR	-
CWSNP2518	Ca-Kabuli-Chr3	38805831	[A/C]	Ca01240	Intron	Ankyrin repeat
CWSNP2519	Ca-Kabuli-Chr3	38821990	[A/G]	-	DRR	-
CWSNP2520	Ca-Kabuli-Chr3	38831533	[T/C]	-	Intergenic	-
CWSNP2521	Ca-Kabuli-Chr3	38848412	[C/G]	Ca01245	Synonymous-CDS	K Homology
CWSNP2522	Ca-Kabuli-Chr3	38913449	[T/C]	-	DRR	-
CWSNP2523	Ca-Kabuli-Chr3	38923321	[C/T]	Ca01252	Synonymous-CDS	Glycosyltransferase, family8
CWSNP2524	Ca-Kabuli-Chr3	38965610	[T/A]	Ca01258	Non-Synonymous-CDS	SANT domain, DNA binding
CWSNP2525	Ca-Kabuli-Chr3	38982481	[A/G]	Ca01260	Intron	-
CWSNP2526	Ca-Kabuli-Chr3	38987916	[A/C]	-	DRR	-
CWSNP2527	Ca-Kabuli-Chr3	39034246	[C/T]	Ca01265	Non-Synonymous-CDS	-
CWSNP2528	Ca-Kabuli-Chr3	39036130	[T/C]	Ca01265	Intron	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP2529	Ca-Kabuli-Chr3	39055529	[C/T]	Ca01268	Intron	EF-Hand1,calcium-binding site
CWSNP2530	Ca-Kabuli-Chr3	39081040	[A/G]	-	Intergenic	-
CWSNP2531	Ca-Kabuli-Chr3	39084916	[T/A]	Ca01271	Non-Synonymous-CDS	Domain of unknown function DUF296
CWSNP2532	Ca-Kabuli-Chr3	39084979	[A/C]	Ca01271	Synonymous-CDS	Domain of unknown function DUF296
CWSNP2533	Ca-Kabuli-Chr3	39093242	[G/A]	-	Intergenic	-
CWSNP2534	Ca-Kabuli-Chr3	39093243	[C/A]	-	Intergenic	-
CWSNP2535	Ca-Kabuli-Chr3	39093245	[T/A]	-	Intergenic	-
CWSNP2536	Ca-Kabuli-Chr3	39093215	[G/A]	-	Intergenic	-
CWSNP2537	Ca-Kabuli-Chr3	39115274	[A/C]	Ca01274	Intron	HEAT
CWSNP2538	Ca-Kabuli-Chr3	39115986	[C/G]	Ca01274	Intron	HEAT
CWSNP2539	Ca-Kabuli-Chr3	39115979	[A/G]	Ca01274	Intron	HEAT
CWSNP2540	Ca-Kabuli-Chr3	39115972	[T/A]	Ca01274	Intron	HEAT
CWSNP2541	Ca-Kabuli-Chr3	39115970	[T/G]	Ca01274	Intron	HEAT
CWSNP2542	Ca-Kabuli-Chr3	39118510	[C/T]	Ca01274	Intron	HEAT
CWSNP2543	Ca-Kabuli-Chr3	39207112	[A/C]	Ca01277	Synonymous-CDS	CytoplasmicFMR1-interacting
CWSNP2544	Ca-Kabuli-Chr3	39215327	[C/T]	Ca01278	Non-Synonymous-CDS	Armadillo

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CWSNP2545	Ca-Kabuli-Chr3	39215476	[G/A]	Ca01278	Synonymous-CDS	Armadillo
CWSNP2546	Ca-Kabuli-Chr3	39254527	[T/G]	-	Intergenic	-
CWSNP2547	Ca-Kabuli-Chr3	39255721	[A/C]	-	Intergenic	-
CWSNP2548	Ca-Kabuli-Chr3	39255715	[G/A]	-	Intergenic	-
CWSNP2549	Ca-Kabuli-Chr3	39255713	[C/A]	-	Intergenic	-
CWSNP2550	Ca-Kabuli-Chr3	39255709	[A/T]	-	Intergenic	-
CWSNP2551	Ca-Kabuli-Chr3	39257226	[A/G]	Ca01285	Intron	-
CWSNP2552	Ca-Kabuli-Chr3	39405252	[C/A]	Ca01306	Non-Synonymous-CDS	Lipase,class3
CWSNP2553	Ca-Kabuli-Chr3	39504242	[A/G]	-	Intergenic	-
CWSNP2554	Ca-Kabuli-Chr3	39592340	[C/T]	-	URR	-
CWSNP2555	Ca-Kabuli-Chr3	39612466	[T/C]	Ca01338	Intron	Profilin/allergen
CWSNP2556	Ca-Kabuli-Chr3	39612458	[C/A]	Ca01338	Intron	Profilin/allergen
CWSNP2557	Ca-Kabuli-Chr3	39612447	[C/A]	Ca01338	Intron	Profilin/allergen
CWSNP2558	Ca-Kabuli-Chr3	39612568	[A/T]	Ca01338	Non-Synonymous-CDS	Profilin/allergen
CWSNP2559	Ca-Kabuli-Chr3	39628916	[G/A]	-	DRR	-
CWSNP2560	Ca-Kabuli-Chr3	39722314	[C/T]	Ca01355	Non-Synonymous-CDS	Dehydrogenase,E1component

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CWSNP2561	Ca-Kabuli-Chr3	39787513	[A/C]	Ca01365	Synonymous-CDS	-
CWSNP2562	Ca-Kabuli-Chr3	39801213	[A/G]	Ca01367	Intron	Ribonucleaselll
CWSNP2563	Ca-Kabuli-Chr3	39817122	[G/A]	Ca01368	Synonymous-CDS	Transcriptional factor B3
CWSNP2564	Ca-Kabuli-Chr3	39839763	[T/G]	Ca01370	Intron	ATPase ,P-type, H+transporting proton pump
CWSNP2565	Ca-Kabuli-Chr3	39890991	[A/T]	Ca01375	Intron	Exportin-1/Importin-beta-like
CWSNP2566	Ca-Kabuli-Chr3	39908983	[C/G]	-	Intergenic	-
CWSNP2567	Ca-Kabuli-Chr3	39909824	[C/G]	-	Intergenic	-
CWSNP2568	Ca-Kabuli-Chr3	39914344	[T/G]	Ca01376	Intron	RNA recognition motif domain
CWSNP2569	Ca-Kabuli-Chr4	20297	[A/G]	Ca27693	Synonymous-CDS	Basic-leucine zipper (bZIP) Transcription factor
CWSNP2570	Ca-Kabuli-Chr4	20495	[G/C]	Ca27693	Intron	Basic-leucine zipper (bZIP) Transcription factor
CWSNP2571	Ca-Kabuli-Chr4	167229	[T/G]	Ca07652	Synonymous-CDS	LNS2,Lipin/Ned1/Smp2
CWSNP2572	Ca-Kabuli-Chr4	338721	[C/T]	-	Intergenic	-
CWSNP2573	Ca-Kabuli-Chr4	349309	[C/T]	Ca07667	Non-Synonymous-CDS	Multiantimicrobial extrusion protein
CWSNP2574	Ca-Kabuli-Chr4	369258	[C/T]	Ca07669	Non-Synonymous-CDS	Multiantimicrobial extrusion protein
CWSNP2575	Ca-Kabuli-Chr4	394661	[C/G]	Ca07671	Non-Synonymous-CDS	Inorganic pyrophosphatase
CWSNP2576	Ca-Kabuli-Chr4	412017	[C/A]	Ca07673	Non-Synonymous-CDS	Arf GTPase activating protein

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP2577	Ca-Kabuli-Chr4	455361	[A/G]	Ca07679	Intron	ArgininebiosynthesisproteinArgJ
CWSNP2578	Ca-Kabuli-Chr4	480138	[C/A]	Ca07682	Non-Synonymous-CDS	-
CWSNP2579	Ca-Kabuli-Chr4	586703	[T/C]	-	DRR	-
CWSNP2580	Ca-Kabuli-Chr4	589191	[A/G]	-	Intergenic	-
CWSNP2581	Ca-Kabuli-Chr4	589204	[G/A]	-	Intergenic	-
CWSNP2582	Ca-Kabuli-Chr4	589220	[A/C]	-	Intergenic	-
CWSNP2583	Ca-Kabuli-Chr4	595982	[C/G]	Ca07691	Synonymous-CDS	Helix-loop-helix DNA-binding domain
CWSNP2584	Ca-Kabuli-Chr4	646567	[C/T]	-	Intergenic	-
CWSNP2585	Ca-Kabuli-Chr4	660034	[A/C]	-	URR	-
CWSNP2586	Ca-Kabuli-Chr4	660029	[T/G]	-	URR	-
CWSNP2587	Ca-Kabuli-Chr4	1190184	[A/C]	Ca07749	Intron	Ribosomal proteinL21e
CWSNP2588	Ca-Kabuli-Chr4	1526270	[T/C]	-	URR	-
CWSNP2589	Ca-Kabuli-Chr4	1687346	[A/G]	-	Intergenic	-
CWSNP2590	Ca-Kabuli-Chr4	1691555	[T/G]	-	Intergenic	-
CWSNP2591	Ca-Kabuli-Chr4	1708370	[C/T]	Ca07797	Synonymous-CDS	BEACH domain
CWSNP2592	Ca-Kabuli-Chr4	1711864	[A/C]	Ca07797	Synonymous-CDS	BEACH domain

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP2593	Ca-Kabuli-Chr4	1711865	[G/A]	Ca07797	Synonymous-CDS	BEACH domain
CWSNP2594	Ca-Kabuli-Chr4	1720642	[A/G]	Ca07797	Intron	BEACH domain
CWSNP2595	Ca-Kabuli-Chr4	1755066	[G/C]	-	Intergenic	-
CWSNP2596	Ca-Kabuli-Chr4	1773886	[C/G]	-	Intergenic	-
CWSNP2597	Ca-Kabuli-Chr4	1773939	[C/T]	-	Intergenic	-
CWSNP2598	Ca-Kabuli-Chr4	1773951	[C/G]	-	Intergenic	-
CWSNP2599	Ca-Kabuli-Chr4	1785705	[G/C]	Ca07801	Intron	Protein kinase, catalytic domain
CWSNP2600	Ca-Kabuli-Chr4	1833725	[C/T]	-	DRR	-
CWSNP2601	Ca-Kabuli-Chr4	1867921	[G/A]	Ca07807	Intron	Sulphate transporter/antisigma-factor antagonist STAS
CWSNP2602	Ca-Kabuli-Chr4	1869577	[C/T]	-	Intergenic	-
CWSNP2603	Ca-Kabuli-Chr4	1870333	[A/G]	-	DRR	-
CWSNP2604	Ca-Kabuli-Chr4	1870317	[T/C]	-	DRR	-
CWSNP2605	Ca-Kabuli-Chr4	1870666	[G/C]	-	DRR	-
CWSNP2606	Ca-Kabuli-Chr4	1870806	[C/A]	-	DRR	-
CWSNP2607	Ca-Kabuli-Chr4	1870802	[C/T]	-	DRR	-
CWSNP2608	Ca-Kabuli-Chr4	1873733	[T/C]	Ca07808	Non-Synonymous-CDS	KIP1-like

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP2609	Ca-Kabuli-Chr4	1941089	[C/T]	-	URR	-
CWSNP2610	Ca-Kabuli-Chr4	2034429	[C/A]	Ca07822	Intron	RNA-processing protein,HAT helix
CWSNP2611	Ca-Kabuli-Chr4	2034398	[C/T]	Ca07822	Intron	RNA-processing protein,HAT helix
CWSNP2612	Ca-Kabuli-Chr4	2034396	[A/G]	Ca07822	Intron	RNA-processing protein,HAT helix
CWSNP2613	Ca-Kabuli-Chr4	2034739	[A/C]	Ca07822	Intron	RNA-processing protein,HAT helix
CWSNP2614	Ca-Kabuli-Chr4	2035797	[G/A]	Ca07822	Synonymous-CDS	RNA-processing protein,HAT helix
CWSNP2615	Ca-Kabuli-Chr4	2035801	[G/A]	Ca07822	Synonymous-CDS	RNA-processing protein,HAT helix
CWSNP2616	Ca-Kabuli-Chr4	2035841	[C/T]	-	Intergenic	-
CWSNP2617	Ca-Kabuli-Chr4	2035894	[C/A]	-	Intergenic	-
CWSNP2618	Ca-Kabuli-Chr4	2125774	[G/A]	Ca07833	Non-Synonymous-CDS	Ras GTPase
CWSNP2619	Ca-Kabuli-Chr4	2213710	[G/A]	-	DRR	-
CWSNP2620	Ca-Kabuli-Chr4	2361088	[T/A]	Ca07858	Intron	ABC transporter-like
CWSNP2621	Ca-Kabuli-Chr4	2380206	[A/G]	-	Intergenic	-
CWSNP2622	Ca-Kabuli-Chr4	2393033	[T/G]	Ca07861	Intron	DNA helicase,UvrD/REP type
CWSNP2623	Ca-Kabuli-Chr4	2411925	[G/T]	Ca07861	Intron	DNA helicase,UvrD/REP type
CWSNP2624	Ca-Kabuli-Chr4	2609945	[C/T]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP2625	Ca-Kabuli-Chr4	2676174	[C/T]	Ca12071	Synonymous-CDS	Signal transduction response regulator,receiver domain
CWSNP2626	Ca-Kabuli-Chr4	2886775	[T/G]	Ca12085	Synonymous-CDS	General substrate transporter
CWSNP2627	Ca-Kabuli-Chr4	3037899	[A/C]	-	URR	-
CWSNP2628	Ca-Kabuli-Chr4	3037986	[T/A]	-	URR	-
CWSNP2629	Ca-Kabuli-Chr4	3037929	[T/G]	-	URR	-
CWSNP2630	Ca-Kabuli-Chr4	3038022	[C/T]	-	URR	-
CWSNP2631	Ca-Kabuli-Chr4	3046920	[A/G]	Ca12103	Intron	TetratricopeptideTPR-1
CWSNP2632	Ca-Kabuli-Chr4	3158321	[A/G]	-	URR	-
CWSNP2633	Ca-Kabuli-Chr4	3158323	[T/G]	-	URR	-
CWSNP2634	Ca-Kabuli-Chr4	3158328	[G/T]	-	URR	-
CWSNP2635	Ca-Kabuli-Chr4	3158331	[A/T]	-	URR	-
CWSNP2636	Ca-Kabuli-Chr4	3158426	[G/A]	-	URR	-
CWSNP2637	Ca-Kabuli-Chr4	3158504	[A/T]	-	URR	-
CWSNP2638	Ca-Kabuli-Chr4	3158549	[A/G]	-	URR	-
CWSNP2639	Ca-Kabuli-Chr4	3164083	[G/A]	-	Intergenic	-
CWSNP2640	Ca-Kabuli-Chr4	3166657	[C/T]	Ca12117	Intron	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP2641	Ca-Kabuli-Chr4	3166663	[C/T]	Ca12117	Intron	-
CWSNP2642	Ca-Kabuli-Chr4	3166674	[G/T]	Ca12117	Intron	-
CWSNP2643	Ca-Kabuli-Chr4	3171162	[G/A]	Ca12117	Synonymous-CDS	-
CWSNP2644	Ca-Kabuli-Chr4	3171385	[A/G]	Ca12117	Intron	-
CWSNP2645	Ca-Kabuli-Chr4	3171428	[T/C]	Ca12117	Intron	-
CWSNP2646	Ca-Kabuli-Chr4	3171551	[C/T]	Ca12117	Intron	-
CWSNP2647	Ca-Kabuli-Chr4	3264351	[T/C]	Ca12126	Synonymous-CDS	Domain of unknown function DUF640
CWSNP2648	Ca-Kabuli-Chr4	3280217	[A/G]	-	URR	-
CWSNP2649	Ca-Kabuli-Chr4	3281050	[T/G]	-	URR	-
CWSNP2650	Ca-Kabuli-Chr4	3290298	[T/G]	-	DRR	-
CWSNP2651	Ca-Kabuli-Chr4	3356252	[C/G]	-	Intergenic	-
CWSNP2652	Ca-Kabuli-Chr4	3356242	[C/G]	-	Intergenic	-
CWSNP2653	Ca-Kabuli-Chr4	3400828	[G/C]	Ca12141	Intron	Glycosidehydrolase, family47
CWSNP2654	Ca-Kabuli-Chr4	3427396	[A/G]	Ca12144	Intron	Castor/Polluxionchannel
CWSNP2655	Ca-Kabuli-Chr4	3429035	[G/A]	Ca12144	Intron	Castor/Polluxionchannel
CWSNP2656	Ca-Kabuli-Chr4	3429059	[C/A]	Ca12144	Intron	Castor/Polluxionchannel

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP2657	Ca-Kabuli-Chr4	3455047	[G/A]	Ca12146	Non-Synonymous-CDS	Armadillo
CWSNP2658	Ca-Kabuli-Chr4	3689840	[T/C]	Ca12165	Intron	ATPase,AAA+type,core
CWSNP2659	Ca-Kabuli-Chr4	3741522	[T/G]	-	URR	-
CWSNP2660	Ca-Kabuli-Chr4	3741539	[T/G]	-	URR	-
CWSNP2661	Ca-Kabuli-Chr4	3762559	[T/C]	-	Intergenic	-
CWSNP2662	Ca-Kabuli-Chr4	3762561	[C/A]	-	Intergenic	-
CWSNP2663	Ca-Kabuli-Chr4	3762585	[G/T]	-	Intergenic	-
CWSNP2664	Ca-Kabuli-Chr4	3794764	[G/A]	-	Intergenic	-
CWSNP2665	Ca-Kabuli-Chr4	3794885	[C/A]	-	Intergenic	-
CWSNP2666	Ca-Kabuli-Chr4	3888185	[A/G]	-	Intergenic	-
CWSNP2667	Ca-Kabuli-Chr4	3888328	[C/T]	-	Intergenic	-
CWSNP2668	Ca-Kabuli-Chr4	3888529	[T/G]	-	Intergenic	-
CWSNP2669	Ca-Kabuli-Chr4	4027829	[A/T]	-	Intergenic	-
CWSNP2670	Ca-Kabuli-Chr4	4027872	[A/C]	-	Intergenic	-
CWSNP2671	Ca-Kabuli-Chr4	4097989	[G/A]	Ca03846	Synonymous-CDS	UBX
CWSNP2672	Ca-Kabuli-Chr4	4097935	[T/C]	Ca03846	Intron	UBX

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP2673	Ca-Kabuli-Chr4	4148061	[T/C]	Ca03841	Synonymous-CDS	Plant specific mitochondrial import receptor subunit TOM20
CWSNP2674	Ca-Kabuli-Chr4	4148250	[A/G]	Ca03841	Intron	Plant specific mitochondrial import receptor subunit TOM20
CWSNP2675	Ca-Kabuli-Chr4	4154507	[G/T]	Ca03840	Intron	-
CWSNP2676	Ca-Kabuli-Chr4	4305891	[A/C]	Ca03829	Synonymous-CDS	Inositol polyphosphate-related phosphatase
CWSNP2677	Ca-Kabuli-Chr4	4410351	[T/C]	Ca03820	Synonymous-CDS	Single-strandednucleicacidbindingR3H
CWSNP2678	Ca-Kabuli-Chr4	4426659	[C/T]	-	DRR	-
CWSNP2679	Ca-Kabuli-Chr4	4452018	[T/A]	-	Intergenic	-
CWSNP2680	Ca-Kabuli-Chr4	4452380	[C/G]	-	Intergenic	-
CWSNP2681	Ca-Kabuli-Chr4	4454305	[A/C]	-	Intergenic	-
CWSNP2682	Ca-Kabuli-Chr4	4454464	[A/G]	-	DRR	-
CWSNP2683	Ca-Kabuli-Chr4	4461562	[G/C]	Ca03811	Intron	TRM13/UPF0224family,U11-48K-likeCHHCZinc fingerdomain
CWSNP2684	Ca-Kabuli-Chr4	4468394	[C/T]	Ca03810	Intron	TetratricopeptideTPR-1
CWSNP2685	Ca-Kabuli-Chr4	4536310	[A/G]	-	DRR	-
CWSNP2686	Ca-Kabuli-Chr4	4536286	[G/C]	-	DRR	-
CWSNP2687	Ca-Kabuli-Chr4	4578836	[C/T]	-	DRR	-
CWSNP2688	Ca-Kabuli-Chr4	4605340	[A/C]	-	DRR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP2689	Ca-Kabuli-Chr4	4628243	[G/A]	-	Intergenic	-
CWSNP2690	Ca-Kabuli-Chr4	4630407	[G/A]	-	URR	-
CWSNP2691	Ca-Kabuli-Chr4	4633913	[T/G]	-	Intergenic	-
CWSNP2692	Ca-Kabuli-Chr4	4634542	[A/T]	-	URR	-
CWSNP2693	Ca-Kabuli-Chr4	4670913	[A/G]	Ca03789	Intron	EF-Hand1,calcium-binding site
CWSNP2694	Ca-Kabuli-Chr4	4675182	[T/G]	-	DRR	-
CWSNP2695	Ca-Kabuli-Chr4	4675177	[T/A]	-	DRR	-
CWSNP2696	Ca-Kabuli-Chr4	4675176	[T/G]	-	DRR	-
CWSNP2697	Ca-Kabuli-Chr4	4675172	[T/A]	-	DRR	-
CWSNP2698	Ca-Kabuli-Chr4	4675171	[T/A]	-	DRR	-
CWSNP2699	Ca-Kabuli-Chr4	4675166	[A/T]	-	DRR	-
CWSNP2700	Ca-Kabuli-Chr4	4679236	[A/G]	Ca03788	Synonymous-CDS	Pentatrico peptide repeat
CWSNP2701	Ca-Kabuli-Chr4	4799122	[C/T]	Ca03778	Non-Synonymous-CDS	SNF2-related
CWSNP2702	Ca-Kabuli-Chr4	4799116	[C/T]	Ca03778	Non-Synonymous-CDS	SNF2-related
CWSNP2703	Ca-Kabuli-Chr4	4907987	[G/A]	-	Intergenic	-
CWSNP2704	Ca-Kabuli-Chr4	4911083	[T/C]	Ca03767	Intron	Phospho ribosylaminoimidazole carboxylase,core

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP2705	Ca-Kabuli-Chr4	4911130	[T/C]	Ca03767	Intron	Phospho ribosylaminoimidazole carboxylase,core
CWSNP2706	Ca-Kabuli-Chr4	4911209	[A/G]	Ca03767	Synonymous-CDS	Phospho ribosylaminoimidazole carboxylase,core
CWSNP2707	Ca-Kabuli-Chr4	4911217	[A/C]	Ca03767	Synonymous-CDS	Phospho ribosylaminoimidazole carboxylase,core
CWSNP2708	Ca-Kabuli-Chr4	4920706	[T/C]	Ca03766	Non-Synonymous-CDS	Zinc finger,PMZ-type
CWSNP2709	Ca-Kabuli-Chr4	4920712	[A/T]	Ca03766	Non-Synonymous-CDS	Zinc finger,PMZ-type
CWSNP2710	Ca-Kabuli-Chr4	4920719	[A/G]	Ca03766	Non-Synonymous-CDS	Zinc finger,PMZ-type
CWSNP2711	Ca-Kabuli-Chr4	4928764	[T/C]	-	Intergenic	-
CWSNP2712	Ca-Kabuli-Chr4	4928890	[A/G]	-	Intergenic	-
CWSNP2713	Ca-Kabuli-Chr4	4953629	[C/A]	-	DRR	-
CWSNP2714	Ca-Kabuli-Chr4	5038300	[G/C]	-	DRR	-
CWSNP2715	Ca-Kabuli-Chr4	5186401	[A/G]	Ca03734	Non-Synonymous-CDS	Pyridoxalphosphate-dependentenzyme,betasubunit
CWSNP2716	Ca-Kabuli-Chr4	5222851	[C/T]	Ca03733	Intron	Domain of unknown function DUF1981,SEC7associated
CWSNP2717	Ca-Kabuli-Chr4	5223100	[G/A]	Ca03733	Intron	Domain of unknown function DUF1981,SEC7associated
CWSNP2718	Ca-Kabuli-Chr4	5232364	[T/C]	-	DRR	-
CWSNP2719	Ca-Kabuli-Chr4	5263199	[A/G]	-	DRR	-
CWSNP2720	Ca-Kabuli-Chr4	5268995	[A/C]	-	URR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP2721	Ca-Kabuli-Chr4	5282131	[T/C]	-	Intergenic	-
CWSNP2722	Ca-Kabuli-Chr4	5390317	[G/A]	-	DRR	-
CWSNP2723	Ca-Kabuli-Chr4	5473174	[C/T]	-	DRR	-
CWSNP2724	Ca-Kabuli-Chr4	5484259	[G/T]	-	Intergenic	-
CWSNP2725	Ca-Kabuli-Chr4	5484257	[G/C]	-	Intergenic	-
CWSNP2726	Ca-Kabuli-Chr4	5484238	[G/A]	-	Intergenic	-
CWSNP2727	Ca-Kabuli-Chr4	5484236	[C/T]	-	Intergenic	-
CWSNP2728	Ca-Kabuli-Chr4	5484220	[A/G]	-	Intergenic	-
CWSNP2729	Ca-Kabuli-Chr4	5485052	[G/T]	-	Intergenic	-
CWSNP2730	Ca-Kabuli-Chr4	5485050	[G/C]	-	Intergenic	-
CWSNP2731	Ca-Kabuli-Chr4	5485031	[G/A]	-	Intergenic	-
CWSNP2732	Ca-Kabuli-Chr4	5485029	[C/T]	-	Intergenic	-
CWSNP2733	Ca-Kabuli-Chr4	5485013	[A/G]	-	Intergenic	-
CWSNP2734	Ca-Kabuli-Chr4	5528421	[T/G]	Ca03702	Synonymous-CDS	Zinc finger,RING-type
CWSNP2735	Ca-Kabuli-Chr4	5701873	[A/C]	-	Intergenic	-
CWSNP2736	Ca-Kabuli-Chr4	5701900	[G/T]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP2737	Ca-Kabuli-Chr4	5701902	[C/T]	-	Intergenic	-
CWSNP2738	Ca-Kabuli-Chr4	5701907	[G/T]	-	Intergenic	-
CWSNP2739	Ca-Kabuli-Chr4	5779698	[A/G]	-	Intergenic	-
CWSNP2740	Ca-Kabuli-Chr4	5787727	[G/A]	-	URR	-
CWSNP2741	Ca-Kabuli-Chr4	5787722	[G/A]	-	URR	-
CWSNP2742	Ca-Kabuli-Chr4	5853798	[T/G]	Ca03664	Intron	Zinc finger,RING-type
CWSNP2743	Ca-Kabuli-Chr4	5900290	[T/C]	-	Intergenic	-
CWSNP2744	Ca-Kabuli-Chr4	5905385	[G/A]	-	URR	-
CWSNP2745	Ca-Kabuli-Chr4	5907409	[T/G]	-	Intergenic	-
CWSNP2746	Ca-Kabuli-Chr4	5907421	[T/G]	-	Intergenic	-
CWSNP2747	Ca-Kabuli-Chr4	5907465	[C/A]	-	Intergenic	-
CWSNP2748	Ca-Kabuli-Chr4	5999964	[T/C]	Ca03648	Intron	WD40 repeat
CWSNP2749	Ca-Kabuli-Chr4	6000010	[T/A]	Ca03648	Intron	WD40 repeat
CWSNP2750	Ca-Kabuli-Chr4	6000013	[A/C]	Ca03648	Intron	WD40 repeat
CWSNP2751	Ca-Kabuli-Chr4	6000037	[T/G]	Ca03648	Intron	WD40 repeat
CWSNP2752	Ca-Kabuli-Chr4	6041134	[A/C]	-	URR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP2753	Ca-Kabuli-Chr4	6041130	[C/A]	-	URR	-
CWSNP2754	Ca-Kabuli-Chr4	6041126	[A/G]	-	URR	-
CWSNP2755	Ca-Kabuli-Chr4	6041120	[G/T]	-	URR	-
CWSNP2756	Ca-Kabuli-Chr4	6041117	[C/T]	-	URR	-
CWSNP2757	Ca-Kabuli-Chr4	6157625	[T/C]	Ca03628	Non-Synonymous-CDS	PeptidaseS16,Lonprotease,C-terminal
CWSNP2758	Ca-Kabuli-Chr4	6201137	[T/C]	-	Intergenic	-
CWSNP2759	Ca-Kabuli-Chr4	6281228	[A/C]	-	DRR	-
CWSNP2760	Ca-Kabuli-Chr4	6387938	[T/G]	-	DRR	-
CWSNP2761	Ca-Kabuli-Chr4	6403910	[A/C]	-	Intergenic	-
CWSNP2762	Ca-Kabuli-Chr4	6408543	[T/G]	-	Intergenic	-
CWSNP2763	Ca-Kabuli-Chr4	6544342	[A/C]	-	Intergenic	-
CWSNP2764	Ca-Kabuli-Chr4	6544337	[A/C]	-	Intergenic	-
CWSNP2765	Ca-Kabuli-Chr4	6688218	[G/A]	-	Intergenic	-
CWSNP2766	Ca-Kabuli-Chr4	6749550	[G/A]	-	URR	-
CWSNP2767	Ca-Kabuli-Chr4	6761778	[C/A]	Ca03565	Non-Synonymous-CDS	Pectinacetylerase
CWSNP2768	Ca-Kabuli-Chr4	6765884	[T/C]	Ca03564	Non-Synonymous-CDS	SANT domain, DNA binding

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP2769	Ca-Kabuli-Chr4	6801632	[C/A]	-	URR	-
CWSNP2770	Ca-Kabuli-Chr4	6841854	[G/A]	-	URR	-
CWSNP2771	Ca-Kabuli-Chr4	6841856	[G/A]	-	URR	-
CWSNP2772	Ca-Kabuli-Chr4	6841858	[G/A]	-	URR	-
CWSNP2773	Ca-Kabuli-Chr4	6841859	[A/C]	-	URR	-
CWSNP2774	Ca-Kabuli-Chr4	6841860	[G/A]	-	URR	-
CWSNP2775	Ca-Kabuli-Chr4	6889964	[T/G]	-	URR	-
CWSNP2776	Ca-Kabuli-Chr4	6889974	[T/G]	-	URR	-
CWSNP2777	Ca-Kabuli-Chr4	6890000	[A/G]	Ca03550	Synonymous-CDS	Pectinesterase,catalytic
CWSNP2778	Ca-Kabuli-Chr4	6890005	[C/T]	Ca03550	Non-Synonymous-CDS	Pectinesterase,catalytic
CWSNP2779	Ca-Kabuli-Chr4	6890014	[G/T]	Ca03550	Non-Synonymous-CDS	Pectinesterase,catalytic
CWSNP2780	Ca-Kabuli-Chr4	6889994	[T/G]	Ca03550	Non-Synonymous-CDS	Pectinesterase,catalytic
CWSNP2781	Ca-Kabuli-Chr4	6895804	[G/A]	Ca03549	Synonymous-CDS	Protein kinase, catalytic domain
CWSNP2782	Ca-Kabuli-Chr4	6919896	[C/T]	Ca03548	Non-Synonymous-CDS	Transcription factor,SBP-box
CWSNP2783	Ca-Kabuli-Chr4	6969799	[T/C]	-	Intergenic	-
CWSNP2784	Ca-Kabuli-Chr4	7142498	[G/A]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP2785	Ca-Kabuli-Chr4	7143238	[C/T]	-	DRR	-
CWSNP2786	Ca-Kabuli-Chr4	7155826	[G/A]	-	Intergenic	-
CWSNP2787	Ca-Kabuli-Chr4	7335587	[C/T]	Ca03503	Non-Synonymous-CDS	BRCT
CWSNP2788	Ca-Kabuli-Chr4	7349958	[T/C]	Ca03501	Non-Synonymous-CDS	Lipase,class3
CWSNP2789	Ca-Kabuli-Chr4	7349948	[T/C]	Ca03501	Synonymous-CDS	Lipase,class3
CWSNP2790	Ca-Kabuli-Chr4	7350192	[G/T]	Ca03501	Non-Synonymous-CDS	Lipase,class3
CWSNP2791	Ca-Kabuli-Chr4	7371708	[T/C]	-	Intergenic	-
CWSNP2792	Ca-Kabuli-Chr4	7819865	[T/C]	Ca03457	Intron	Glycosidehydrolase,family1
CWSNP2793	Ca-Kabuli-Chr4	7868480	[A/T]	-	DRR	-
CWSNP2794	Ca-Kabuli-Chr4	8050770	[T/C]	Ca03429	Non-Synonymous-CDS	Tubby,C-terminal
CWSNP2795	Ca-Kabuli-Chr4	8051306	[T/C]	Ca03429	Intron	Tubby,C-terminal
CWSNP2796	Ca-Kabuli-Chr4	8198702	[T/G]	Ca08309	Non-Synonymous-CDS	WD40 repeat
CWSNP2797	Ca-Kabuli-Chr4	8269099	[T/G]	Ca08315	Intron	Protein of unknown function DUF3595
CWSNP2798	Ca-Kabuli-Chr4	8269347	[C/G]	Ca08315	Intron	Protein of unknown function DUF3595
CWSNP2799	Ca-Kabuli-Chr4	8383890	[G/A]	Ca08327	Intron	BSD
CWSNP2800	Ca-Kabuli-Chr4	8396861	[T/A]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP2801	Ca-Kabuli-Chr4	8396837	[T/G]	-	Intergenic	-
CWSNP2802	Ca-Kabuli-Chr4	8401109	[A/G]	Ca08329	Intron	ChaperoninCpn60
CWSNP2803	Ca-Kabuli-Chr4	8401126	[G/T]	Ca08329	Intron	ChaperoninCpn60
CWSNP2804	Ca-Kabuli-Chr4	8401143	[A/T]	Ca08329	Synonymous-CDS	ChaperoninCpn60
CWSNP2805	Ca-Kabuli-Chr4	8401248	[T/A]	-	Intergenic	-
CWSNP2806	Ca-Kabuli-Chr4	8401230	[A/G]	-	Intergenic	-
CWSNP2807	Ca-Kabuli-Chr4	8404165	[C/A]	-	URR	-
CWSNP2808	Ca-Kabuli-Chr4	8471029	[G/A]	-	Intergenic	-
CWSNP2809	Ca-Kabuli-Chr4	8473120	[G/A]	Ca08339	Intron	Phosphofructokinase domain
CWSNP2810	Ca-Kabuli-Chr4	8473127	[G/A]	Ca08339	Intron	Phosphofructokinase domain
CWSNP2811	Ca-Kabuli-Chr4	8473294	[G/A]	Ca08339	Intron	Phosphofructokinase domain
CWSNP2812	Ca-Kabuli-Chr4	8473288	[A/G]	Ca08339	Intron	Phosphofructokinase domain
CWSNP2813	Ca-Kabuli-Chr4	8473246	[T/C]	Ca08339	Intron	Phosphofructokinase domain
CWSNP2814	Ca-Kabuli-Chr4	8475634	[A/C]	Ca08339	Synonymous-CDS	Phosphofructokinase domain
CWSNP2815	Ca-Kabuli-Chr4	8483482	[T/C]	Ca08340	Synonymous-CDS	WD40 repeat
CWSNP2816	Ca-Kabuli-Chr4	8483494	[T/C]	Ca08340	Synonymous-CDS	WD40 repeat

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP2817	Ca-Kabuli-Chr4	8496641	[C/A]	Ca08341	Synonymous-CDS	WD40 repeat
CWSNP2818	Ca-Kabuli-Chr4	8510011	[A/C]	Ca08343	Synonymous-CDS	-
CWSNP2819	Ca-Kabuli-Chr4	8512095	[G/A]	Ca08343	Synonymous-CDS	-
CWSNP2820	Ca-Kabuli-Chr4	8518979	[G/A]	-	Intergenic	-
CWSNP2821	Ca-Kabuli-Chr4	8601364	[T/G]	Ca08354	Intron	Exo70exocystcomplexsubunit
CWSNP2822	Ca-Kabuli-Chr4	8659774	[G/A]	-	URR	-
CWSNP2823	Ca-Kabuli-Chr4	8660115	[A/T]	-	URR	-
CWSNP2824	Ca-Kabuli-Chr4	8668648	[G/A]	-	URR	-
CWSNP2825	Ca-Kabuli-Chr4	8668753	[A/G]	-	URR	-
CWSNP2826	Ca-Kabuli-Chr4	8668945	[T/C]	-	URR	-
CWSNP2827	Ca-Kabuli-Chr4	8669515	[C/T]	-	URR	-
CWSNP2828	Ca-Kabuli-Chr4	8669513	[G/A]	-	URR	-
CWSNP2829	Ca-Kabuli-Chr4	8669505	[G/T]	-	URR	-
CWSNP2830	Ca-Kabuli-Chr4	8681949	[G/A]	-	URR	-
CWSNP2831	Ca-Kabuli-Chr4	8695562	[C/T]	Ca08365	Intron	Glycosidehydrolase,family13,N-terminal
CWSNP2832	Ca-Kabuli-Chr4	8751638	[A/C]	Ca08371	Synonymous-CDS	No apical meristem (NAM) protein

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP2833	Ca-Kabuli-Chr4	8751629	[T/C]	Ca08371	Synonymous-CDS	No apical meristem (NAM) protein
CWSNP2834	Ca-Kabuli-Chr4	8751618	[A/C]	Ca08371	Non-Synonymous-CDS	No apical meristem (NAM) protein
CWSNP2835	Ca-Kabuli-Chr4	8751591	[A/C]	-	Intergenic	-
CWSNP2836	Ca-Kabuli-Chr4	8782879	[G/C]	-	URR	-
CWSNP2837	Ca-Kabuli-Chr4	8791654	[A/G]	Ca08375	Synonymous-CDS	Kelchrepeatype2
CWSNP2838	Ca-Kabuli-Chr4	8805504	[A/G]	-	DRR	-
CWSNP2839	Ca-Kabuli-Chr4	8805578	[A/C]	-	DRR	-
CWSNP2840	Ca-Kabuli-Chr4	8805667	[C/T]	-	DRR	-
CWSNP2841	Ca-Kabuli-Chr4	8805867	[A/C]	-	DRR	-
CWSNP2842	Ca-Kabuli-Chr4	8805839	[G/A]	-	DRR	-
CWSNP2843	Ca-Kabuli-Chr4	8809032	[C/T]	Ca08378	Intron	K Homology
CWSNP2844	Ca-Kabuli-Chr4	8809064	[T/C]	Ca08378	Synonymous-CDS	K Homology
CWSNP2845	Ca-Kabuli-Chr4	8809456	[A/C]	-	URR	-
CWSNP2846	Ca-Kabuli-Chr4	8844846	[A/G]	Ca08381	Synonymous-CDS	Zinc finger,RING-type
CWSNP2847	Ca-Kabuli-Chr4	8848654	[C/T]	Ca08381	Synonymous-CDS	Zinc finger,RING-type
CWSNP2848	Ca-Kabuli-Chr4	8848653	[T/C]	Ca08381	Non-Synonymous-CDS	Zinc finger,RING-type

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP2849	Ca-Kabuli-Chr4	8852420	[T/C]	Ca08382	Synonymous-CDS	-
CWSNP2850	Ca-Kabuli-Chr4	8919395	[A/G]	-	URR	-
CWSNP2851	Ca-Kabuli-Chr4	8986031	[T/A]	-	DRR	-
CWSNP2852	Ca-Kabuli-Chr4	8986026	[T/A]	-	DRR	-
CWSNP2853	Ca-Kabuli-Chr4	8986024	[T/A]	-	DRR	-
CWSNP2854	Ca-Kabuli-Chr4	8986018	[G/A]	-	DRR	-
CWSNP2855	Ca-Kabuli-Chr4	8986008	[T/A]	-	DRR	-
CWSNP2856	Ca-Kabuli-Chr4	8986002	[T/A]	-	DRR	-
CWSNP2857	Ca-Kabuli-Chr4	8985998	[T/A]	-	DRR	-
CWSNP2858	Ca-Kabuli-Chr4	9075398	[G/A]	-	Intergenic	-
CWSNP2859	Ca-Kabuli-Chr4	9075395	[A/G]	-	Intergenic	-
CWSNP2860	Ca-Kabuli-Chr4	9075459	[C/T]	-	Intergenic	-
CWSNP2861	Ca-Kabuli-Chr4	9075520	[C/T]	-	Intergenic	-
CWSNP2862	Ca-Kabuli-Chr4	9075565	[A/G]	-	Intergenic	-
CWSNP2863	Ca-Kabuli-Chr4	9075543	[T/C]	-	Intergenic	-
CWSNP2864	Ca-Kabuli-Chr4	9075671	[A/G]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP2865	Ca-Kabuli-Chr4	9075677	[T/C]	-	Intergenic	-
CWSNP2866	Ca-Kabuli-Chr4	9075682	[G/A]	-	Intergenic	-
CWSNP2867	Ca-Kabuli-Chr4	9075737	[G/A]	-	Intergenic	-
CWSNP2868	Ca-Kabuli-Chr4	9075744	[T/G]	-	Intergenic	-
CWSNP2869	Ca-Kabuli-Chr4	9187887	[G/C]	Ca08410	Non-Synonymous-CDS	Vps51/Vps67
CWSNP2870	Ca-Kabuli-Chr4	9187973	[T/G]	Ca08410	Synonymous-CDS	Vps51/Vps67
CWSNP2871	Ca-Kabuli-Chr4	9189976	[T/A]	Ca08410	Non-Synonymous-CDS	Vps51/Vps67
CWSNP2872	Ca-Kabuli-Chr4	9331949	[C/T]	-	DRR	-
CWSNP2873	Ca-Kabuli-Chr4	9451895	[T/A]	-	Intergenic	-
CWSNP2874	Ca-Kabuli-Chr4	9451850	[T/G]	-	Intergenic	-
CWSNP2875	Ca-Kabuli-Chr4	9579519	[A/T]	-	Intergenic	-
CWSNP2876	Ca-Kabuli-Chr4	9579517	[T/C]	-	Intergenic	-
CWSNP2877	Ca-Kabuli-Chr4	9614905	[C/A]	Ca08443	Non-Synonymous-CDS	-
CWSNP2878	Ca-Kabuli-Chr4	9706453	[T/G]	-	DRR	-
CWSNP2879	Ca-Kabuli-Chr4	9836559	[G/T]	Ca08462	Intron	VHS
CWSNP2880	Ca-Kabuli-Chr4	10007069	[A/G]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP2881	Ca-Kabuli-Chr4	10116516	[T/G]	Ca08486	Synonymous-CDS	Pleckstrin homology domain
CWSNP2882	Ca-Kabuli-Chr4	10151943	[C/T]	Ca08487	Non-Synonymous-CDS	Zinc finger,GATA-type
CWSNP2883	Ca-Kabuli-Chr4	10184428	[G/T]	Ca08489	Non-Synonymous-CDS	GCN5-relatedN-acetyltransferase (GNAT) domain
CWSNP2884	Ca-Kabuli-Chr4	10184427	[C/A]	Ca08489	Synonymous-CDS	GCN5-relatedN-acetyltransferase (GNAT) domain
CWSNP2885	Ca-Kabuli-Chr4	10294380	[A/G]	Ca08496	Intron	Carbamoyl-phosphatesynthase,GATase domain
CWSNP2886	Ca-Kabuli-Chr4	10305285	[C/A]	Ca08496	Intron	Carbamoyl-phosphatesynthase,GATase domain
CWSNP2887	Ca-Kabuli-Chr4	10411809	[G/A]	-	Intergenic	-
CWSNP2888	Ca-Kabuli-Chr4	10422142	[A/T]	-	Intergenic	-
CWSNP2889	Ca-Kabuli-Chr4	10422469	[C/A]	-	DRR	-
CWSNP2890	Ca-Kabuli-Chr4	10430622	[A/C]	-	URR	-
CWSNP2891	Ca-Kabuli-Chr4	10430617	[A/C]	-	URR	-
CWSNP2892	Ca-Kabuli-Chr4	10430613	[C/A]	-	URR	-
CWSNP2893	Ca-Kabuli-Chr4	10430603	[G/A]	-	URR	-
CWSNP2894	Ca-Kabuli-Chr4	10430595	[A/C]	-	URR	-
CWSNP2895	Ca-Kabuli-Chr4	10430588	[T/C]	-	URR	-
CWSNP2896	Ca-Kabuli-Chr4	10430574	[A/T]	-	URR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP2897	Ca-Kabuli-Chr4	10464927	[T/G]	-	DRR	-
CWSNP2898	Ca-Kabuli-Chr4	10465328	[T/C]	-	DRR	-
CWSNP2899	Ca-Kabuli-Chr4	10901282	[T/C]	-	DRR	-
CWSNP2900	Ca-Kabuli-Chr4	10917717	[C/G]	-	Intergenic	-
CWSNP2901	Ca-Kabuli-Chr4	10925490	[G/A]	Ca04326	Synonymous-CDS	Filamin/ABP280repeat-like
CWSNP2902	Ca-Kabuli-Chr4	10971039	[C/A]	Ca04330	Intron	WD40 repeat
CWSNP2903	Ca-Kabuli-Chr4	10990000	[T/C]	Ca04331	Intron	Protein kinase, catalytic domain
CWSNP2904	Ca-Kabuli-Chr4	10990049	[G/T]	Ca04331	Intron	Protein kinase, catalytic domain
CWSNP2905	Ca-Kabuli-Chr4	10990058	[T/C]	Ca04331	Intron	Protein kinase, catalytic domain
CWSNP2906	Ca-Kabuli-Chr4	10990265	[T/A]	Ca04331	Intron	Protein kinase, catalytic domain
CWSNP2907	Ca-Kabuli-Chr4	10991842	[G/A]	Ca04331	Intron	Protein kinase, catalytic domain
CWSNP2908	Ca-Kabuli-Chr4	10991910	[C/T]	Ca04331	Intron	Protein kinase, catalytic domain
CWSNP2909	Ca-Kabuli-Chr4	11040108	[C/T]	-	Intergenic	-
CWSNP2910	Ca-Kabuli-Chr4	11051335	[C/T]	Ca04337	Non-Synonymous-CDS	No apical meristem (NAM) protein
CWSNP2911	Ca-Kabuli-Chr4	11059403	[T/G]	-	DRR	-
CWSNP2912	Ca-Kabuli-Chr4	11059404	[T/G]	-	DRR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP2913	Ca-Kabuli-Chr4	11059414	[T/G]	-	DRR	-
CWSNP2914	Ca-Kabuli-Chr4	11096225	[A/G]	-	Intergenic	-
CWSNP2915	Ca-Kabuli-Chr4	11096290	[G/A]	-	Intergenic	-
CWSNP2916	Ca-Kabuli-Chr4	11113277	[A/C]	Ca04344	Synonymous-CDS	RNA recognition motif domain
CWSNP2917	Ca-Kabuli-Chr4	11142202	[A/G]	-	Intergenic	-
CWSNP2918	Ca-Kabuli-Chr4	11142227	[C/T]	-	Intergenic	-
CWSNP2919	Ca-Kabuli-Chr4	11230403	[G/T]	-	Intergenic	-
CWSNP2920	Ca-Kabuli-Chr4	11230400	[T/A]	-	Intergenic	-
CWSNP2921	Ca-Kabuli-Chr4	11230397	[G/C]	-	Intergenic	-
CWSNP2922	Ca-Kabuli-Chr4	11231142	[A/G]	-	Intergenic	-
CWSNP2923	Ca-Kabuli-Chr4	11231137	[A/G]	-	Intergenic	-
CWSNP2924	Ca-Kabuli-Chr4	11231135	[C/T]	-	Intergenic	-
CWSNP2925	Ca-Kabuli-Chr4	11244334	[T/G]	-	Intergenic	-
CWSNP2926	Ca-Kabuli-Chr4	11244395	[G/T]	-	Intergenic	-
CWSNP2927	Ca-Kabuli-Chr4	11246093	[G/A]	-	Intergenic	-
CWSNP2928	Ca-Kabuli-Chr4	11246173	[C/T]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP2929	Ca-Kabuli-Chr4	11246164	[G/A]	-	Intergenic	-
CWSNP2930	Ca-Kabuli-Chr4	11273328	[T/C]	Ca04359	Intron	-
CWSNP2931	Ca-Kabuli-Chr4	11273405	[A/T]	Ca04359	Intron	-
CWSNP2932	Ca-Kabuli-Chr4	11274281	[T/C]	Ca04359	Synonymous-CDS	-
CWSNP2933	Ca-Kabuli-Chr4	11275171	[T/C]	Ca04359	Synonymous-CDS	-
CWSNP2934	Ca-Kabuli-Chr4	11276413	[C/G]	Ca04359	Intron	-
CWSNP2935	Ca-Kabuli-Chr4	11276484	[T/C]	Ca04359	Synonymous-CDS	-
CWSNP2936	Ca-Kabuli-Chr4	11277138	[A/G]	Ca04359	Synonymous-CDS	-
CWSNP2937	Ca-Kabuli-Chr4	11277297	[G/A]	Ca04359	Synonymous-CDS	-
CWSNP2938	Ca-Kabuli-Chr4	11277574	[G/C]	Ca04359	Non-Synonymous-CDS	-
CWSNP2939	Ca-Kabuli-Chr4	11334350	[A/G]	-	URR	-
CWSNP2940	Ca-Kabuli-Chr4	11334343	[A/T]	-	URR	-
CWSNP2941	Ca-Kabuli-Chr4	11343257	[T/C]	Ca04368	Intron	Zinc finger,DHHC-type,palmitoyltransferase
CWSNP2942	Ca-Kabuli-Chr4	11343230	[G/C]	Ca04368	Intron	Zinc finger,DHHC-type,palmitoyltransferase
CWSNP2943	Ca-Kabuli-Chr4	11379077	[T/C]	-	Intergenic	-
CWSNP2944	Ca-Kabuli-Chr4	11398699	[A/G]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP2945	Ca-Kabuli-Chr4	11398682	[G/A]	-	Intergenic	-
CWSNP2946	Ca-Kabuli-Chr4	11398889	[A/G]	-	Intergenic	-
CWSNP2947	Ca-Kabuli-Chr4	11435651	[A/G]	-	Intergenic	-
CWSNP2948	Ca-Kabuli-Chr4	11441604	[T/A]	-	DRR	-
CWSNP2949	Ca-Kabuli-Chr4	11465057	[C/G]	-	DRR	-
CWSNP2950	Ca-Kabuli-Chr4	11465075	[T/C]	-	DRR	-
CWSNP2951	Ca-Kabuli-Chr4	11465113	[C/T]	-	DRR	-
CWSNP2952	Ca-Kabuli-Chr4	11490100	[C/T]	Ca04384	Synonymous-CDS	Tubby,C-terminal
CWSNP2953	Ca-Kabuli-Chr4	11490154	[A/T]	Ca04384	Synonymous-CDS	Tubby,C-terminal
CWSNP2954	Ca-Kabuli-Chr4	11490125	[G/T]	Ca04384	Synonymous-CDS	Tubby,C-terminal
CWSNP2955	Ca-Kabuli-Chr4	11490496	[G/A]	Ca04384	Synonymous-CDS	Tubby,C-terminal
CWSNP2956	Ca-Kabuli-Chr4	11517582	[C/T]	-	Intergenic	-
CWSNP2957	Ca-Kabuli-Chr4	11517517	[C/A]	-	Intergenic	-
CWSNP2958	Ca-Kabuli-Chr4	11572051	[C/T]	-	Intergenic	-
CWSNP2959	Ca-Kabuli-Chr4	11646453	[G/A]	Ca04392	Non-Synonymous-CDS	Protein synthesis factor, GTP-binding
CWSNP2960	Ca-Kabuli-Chr4	11658314	[A/G]	-	DRR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP2961	Ca-Kabuli-Chr4	11689611	[C/T]	Ca04395	Non-Synonymous-CDS	Basic-leucine zipper (bZIP) Transcription factor
CWSNP2962	Ca-Kabuli-Chr4	11752862	[A/G]	Ca04400	Synonymous-CDS	-
CWSNP2963	Ca-Kabuli-Chr4	11752855	[A/G]	Ca04400	Non-Synonymous-CDS	-
CWSNP2964	Ca-Kabuli-Chr4	11772023	[G/T]	Ca04401	Non-Synonymous-CDS	Zinc finger,FYVE-type
CWSNP2965	Ca-Kabuli-Chr4	11926352	[G/C]	Ca04414	Intron	ATPase,AAA+type,core
CWSNP2966	Ca-Kabuli-Chr4	12004082	[A/T]	-	DRR	-
CWSNP2967	Ca-Kabuli-Chr4	12004209	[C/T]	-	DRR	-
CWSNP2968	Ca-Kabuli-Chr4	12004205	[A/C]	-	DRR	-
CWSNP2969	Ca-Kabuli-Chr4	12167328	[A/G]	-	DRR	-
CWSNP2970	Ca-Kabuli-Chr4	12167568	[G/A]	-	DRR	-
CWSNP2971	Ca-Kabuli-Chr4	12249494	[T/C]	Ca04448	Intron	Protein kinase, catalytic domain
CWSNP2972	Ca-Kabuli-Chr4	12484911	[A/T]	-	Intergenic	-
CWSNP2973	Ca-Kabuli-Chr4	12506440	[A/G]	-	Intergenic	-
CWSNP2974	Ca-Kabuli-Chr4	12506450	[T/A]	-	Intergenic	-
CWSNP2975	Ca-Kabuli-Chr4	12514728	[G/A]	-	Intergenic	-
CWSNP2976	Ca-Kabuli-Chr4	12514726	[C/T]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP2977	Ca-Kabuli-Chr4	12514724	[T/C]	-	Intergenic	-
CWSNP2978	Ca-Kabuli-Chr4	12514706	[G/A]	-	Intergenic	-
CWSNP2979	Ca-Kabuli-Chr4	12525328	[A/G]	Ca04475	Synonymous-CDS	Cytochrome b561, eukaryote
CWSNP2980	Ca-Kabuli-Chr4	12525639	[T/A]	Ca04475	Intron	Cytochrome b561, eukaryote
CWSNP2981	Ca-Kabuli-Chr4	12534847	[T/C]	-	Intergenic	-
CWSNP2982	Ca-Kabuli-Chr4	12558541	[T/C]	Ca04478	Intron	NUDIX hydrolase domain
CWSNP2983	Ca-Kabuli-Chr4	12558680	[C/T]	Ca04478	Intron	NUDIX hydrolase domain
CWSNP2984	Ca-Kabuli-Chr4	12568707	[G/A]	Ca04479	Synonymous-CDS	Homoserinekinase
CWSNP2985	Ca-Kabuli-Chr4	12568845	[G/T]	Ca04479	Synonymous-CDS	Homoserinekinase
CWSNP2986	Ca-Kabuli-Chr4	12568905	[G/A]	Ca04479	Synonymous-CDS	Homoserinekinase
CWSNP2987	Ca-Kabuli-Chr4	12568944	[A/G]	Ca04479	Synonymous-CDS	Homoserinekinase
CWSNP2988	Ca-Kabuli-Chr4	12574650	[G/A]	Ca04480	Non-Synonymous-CDS	DNA mismatch repair protein MutS, C-terminal domain
CWSNP2989	Ca-Kabuli-Chr4	12578259	[A/G]	Ca04480	Synonymous-CDS	DNA mismatch repair protein MutS, C-terminal domain
CWSNP2990	Ca-Kabuli-Chr4	12578350	[A/G]	Ca04480	Intron	DNA mismatch repair protein MutS, C-terminal domain
CWSNP2991	Ca-Kabuli-Chr4	12581371	[G/T]	Ca04480	Synonymous-CDS	DNA mismatch repair protein MutS, C-terminal domain
CWSNP2992	Ca-Kabuli-Chr4	12740351	[T/G]	Ca04493	Synonymous-CDS	IQ motif, EF-hand binding site

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP2993	Ca-Kabuli-Chr4	12869023	[C/T]	-	URR	-
CWSNP2994	Ca-Kabuli-Chr4	12973657	[C/A]	Ca04519	Non-Synonymous-CDS	GDP-fucose protein O-fucosyltransferase
CWSNP2995	Ca-Kabuli-Chr4	12982420	[G/A]	Ca04520	Intron	Alpha-D-phosphohexomutase
CWSNP2996	Ca-Kabuli-Chr4	13179829	[T/C]	-	DRR	-
CWSNP2997	Ca-Kabuli-Chr4	13203008	[A/T]	-	Intergenic	-
CWSNP2998	Ca-Kabuli-Chr4	13229035	[C/T]	-	Intergenic	-
CWSNP2999	Ca-Kabuli-Chr4	13252015	[A/T]	-	Intergenic	-
CWSNP3000	Ca-Kabuli-Chr4	13252077	[C/G]	-	Intergenic	-
CWSNP3001	Ca-Kabuli-Chr4	13252212	[G/A]	-	Intergenic	-
CWSNP3002	Ca-Kabuli-Chr4	13282984	[A/C]	-	URR	-
CWSNP3003	Ca-Kabuli-Chr4	13588956	[C/T]	Ca04577	Synonymous-CDS	Biopterin transport-related protein BT1
CWSNP3004	Ca-Kabuli-Chr4	13588928	[T/C]	Ca04577	Intron	Biopterin transport-related protein BT1
CWSNP3005	Ca-Kabuli-Chr4	13687456	[G/A]	Ca04589	Intron	Frigida-like
CWSNP3006	Ca-Kabuli-Chr4	13713380	[G/T]	-	Intergenic	-
CWSNP3007	Ca-Kabuli-Chr4	13713367	[G/C]	-	Intergenic	-
CWSNP3008	Ca-Kabuli-Chr4	13724666	[G/C]	Ca04596	Non-Synonymous-CDS	Zinc finger, PHD-type

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP3009	Ca-Kabuli-Chr4	13787448	[A/C]	-	DRR	-
CWSNP3010	Ca-Kabuli-Chr4	13787649	[T/C]	-	Intergenic	-
CWSNP3011	Ca-Kabuli-Chr4	13787720	[G/C]	-	Intergenic	-
CWSNP3012	Ca-Kabuli-Chr4	13838796	[A/G]	Ca04608	Synonymous-CDS	-
CWSNP3013	Ca-Kabuli-Chr4	13839294	[A/G]	Ca04608	Synonymous-CDS	-
CWSNP3014	Ca-Kabuli-Chr4	13839288	[G/A]	Ca04608	Synonymous-CDS	-
CWSNP3015	Ca-Kabuli-Chr4	13840191	[T/A]	Ca04608	Synonymous-CDS	-
CWSNP3016	Ca-Kabuli-Chr4	13840227	[C/A]	Ca04608	Synonymous-CDS	-
CWSNP3017	Ca-Kabuli-Chr4	13840251	[A/G]	Ca04608	Synonymous-CDS	-
CWSNP3018	Ca-Kabuli-Chr4	13840484	[T/C]	Ca04608	Synonymous-CDS	-
CWSNP3019	Ca-Kabuli-Chr4	13841340	[G/T]	Ca04608	Non-Synonymous-CDS	-
CWSNP3020	Ca-Kabuli-Chr4	13845581	[A/T]	-	Intergenic	-
CWSNP3021	Ca-Kabuli-Chr4	13845639	[A/C]	-	Intergenic	-
CWSNP3022	Ca-Kabuli-Chr4	13845675	[T/A]	-	URR	-
CWSNP3023	Ca-Kabuli-Chr4	13900013	[A/G]	-	Intergenic	-
CWSNP3024	Ca-Kabuli-Chr4	13949513	[A/C]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP3025	Ca-Kabuli-Chr4	13949580	[C/G]	-	Intergenic	-
CWSNP3026	Ca-Kabuli-Chr4	13954832	[G/A]	-	Intergenic	-
CWSNP3027	Ca-Kabuli-Chr4	13968291	[C/T]	-	Intergenic	-
CWSNP3028	Ca-Kabuli-Chr4	13968397	[A/G]	-	Intergenic	-
CWSNP3029	Ca-Kabuli-Chr4	13968354	[A/G]	-	Intergenic	-
CWSNP3030	Ca-Kabuli-Chr4	13982970	[G/A]	-	URR	-
CWSNP3031	Ca-Kabuli-Chr4	14031548	[A/G]	-	Intergenic	-
CWSNP3032	Ca-Kabuli-Chr4	14056908	[A/G]	-	DRR	-
CWSNP3033	Ca-Kabuli-Chr4	14073059	[C/T]	-	URR	-
CWSNP3034	Ca-Kabuli-Chr4	14073056	[C/T]	-	URR	-
CWSNP3035	Ca-Kabuli-Chr4	14073045	[G/A]	-	URR	-
CWSNP3036	Ca-Kabuli-Chr4	14073044	[C/T]	-	URR	-
CWSNP3037	Ca-Kabuli-Chr4	14073004	[C/A]	-	URR	-
CWSNP3038	Ca-Kabuli-Chr4	14082157	[C/A]	Ca04635	Intron	PDZ-binding protein,CRIPT
CWSNP3039	Ca-Kabuli-Chr4	14082158	[T/G]	Ca04635	Intron	PDZ-binding protein,CRIPT
CWSNP3040	Ca-Kabuli-Chr4	14082186	[G/A]	Ca04635	Intron	PDZ-binding protein,CRIPT

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP3041	Ca-Kabuli-Chr4	14082210	[T/C]	Ca04635	Intron	PDZ-binding protein,CRIP1
CWSNP3042	Ca-Kabuli-Chr4	14082285	[C/G]	-	Intergenic	-
CWSNP3043	Ca-Kabuli-Chr4	14093027	[A/G]	Ca04636	Synonymous-CDS	Ubiquitin
CWSNP3044	Ca-Kabuli-Chr4	14104096	[A/C]	-	URR	-
CWSNP3045	Ca-Kabuli-Chr4	14112911	[C/A]	-	Intergenic	-
CWSNP3046	Ca-Kabuli-Chr4	14132659	[A/C]	-	Intergenic	-
CWSNP3047	Ca-Kabuli-Chr4	14149589	[G/A]	Ca04645	Non-Synonymous-CDS	Protein kinase, catalytic domain
CWSNP3048	Ca-Kabuli-Chr4	14149588	[A/G]	Ca04645	Non-Synonymous-CDS	Protein kinase, catalytic domain
CWSNP3049	Ca-Kabuli-Chr4	14155978	[A/G]	Ca04646	Synonymous-CDS	Protein kinase, catalytic domain
CWSNP3050	Ca-Kabuli-Chr4	14156014	[C/T]	Ca04646	Synonymous-CDS	Protein kinase, catalytic domain
CWSNP3051	Ca-Kabuli-Chr4	14189356	[A/C]	Ca04652	Non-Synonymous-CDS	Protein kinase, catalytic domain
CWSNP3052	Ca-Kabuli-Chr4	14270763	[G/A]	-	DRR	-
CWSNP3053	Ca-Kabuli-Chr4	14515543	[T/A]	-	URR	-
CWSNP3054	Ca-Kabuli-Chr4	14657743	[C/T]	Ca05639	Intron	Protein of unknown function DUF566
CWSNP3055	Ca-Kabuli-Chr4	14748051	[A/C]	Ca05628	Synonymous-CDS	Protein of unknown function DUF620
CWSNP3056	Ca-Kabuli-Chr4	14785557	[A/C]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP3057	Ca-Kabuli-Chr4	14831204	[A/T]	-	Intergenic	-
CWSNP3058	Ca-Kabuli-Chr4	14870658	[T/G]	Ca05614	Non-Synonymous-CDS	Amino glycosidephospho transferase
CWSNP3059	Ca-Kabuli-Chr4	14870641	[G/A]	Ca05614	Synonymous-CDS	Amino glycosidephospho transferase
CWSNP3060	Ca-Kabuli-Chr4	15240678	[T/C]	-	DRR	-
CWSNP3061	Ca-Kabuli-Chr4	15357695	[A/G]	-	URR	-
CWSNP3062	Ca-Kabuli-Chr4	15394470	[T/C]	-	DRR	-
CWSNP3063	Ca-Kabuli-Chr4	15542597	[A/G]	Ca05547	Synonymous-CDS	Zinc finger,CCCH-type
CWSNP3064	Ca-Kabuli-Chr4	15552690	[C/T]	-	Intergenic	-
CWSNP3065	Ca-Kabuli-Chr4	15697128	[A/G]	Ca05536	Non-Synonymous-CDS	Phox/Bem1p
CWSNP3066	Ca-Kabuli-Chr4	15697303	[G/T]	Ca05536	Synonymous-CDS	Phox/Bem1p
CWSNP3067	Ca-Kabuli-Chr4	15698212	[G/T]	-	DRR	-
CWSNP3068	Ca-Kabuli-Chr4	15698179	[G/A]	-	DRR	-
CWSNP3069	Ca-Kabuli-Chr4	15698233	[A/C]	-	DRR	-
CWSNP3070	Ca-Kabuli-Chr4	15698305	[T/C]	-	DRR	-
CWSNP3071	Ca-Kabuli-Chr4	15698486	[T/C]	-	DRR	-
CWSNP3072	Ca-Kabuli-Chr4	15698456	[T/C]	-	DRR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP3073	Ca-Kabuli-Chr4	15698444	[C/T]	-	DRR	-
CWSNP3074	Ca-Kabuli-Chr4	15698420	[G/C]	-	DRR	-
CWSNP3075	Ca-Kabuli-Chr4	15700603	[A/T]	-	Intergenic	-
CWSNP3076	Ca-Kabuli-Chr4	15736619	[T/G]	Ca05530	Intron	Cytidyltransferase
CWSNP3077	Ca-Kabuli-Chr4	15752567	[G/C]	Ca05529	Non-Synonymous-CDS	Glycosyltransferase, family20
CWSNP3078	Ca-Kabuli-Chr4	15772275	[A/G]	Ca05528	Synonymous-CDS	Reticulon
CWSNP3079	Ca-Kabuli-Chr4	15825621	[A/T]	Ca05524	Intron	Protein of unknown function DUF789
CWSNP3080	Ca-Kabuli-Chr4	15860388	[A/G]	-	DRR	-
CWSNP3081	Ca-Kabuli-Chr4	15860359	[C/A]	-	DRR	-
CWSNP3082	Ca-Kabuli-Chr4	15900602	[G/A]	-	URR	-
CWSNP3083	Ca-Kabuli-Chr4	15925936	[T/G]	-	DRR	-
CWSNP3084	Ca-Kabuli-Chr4	15926160	[A/G]	-	DRR	-
CWSNP3085	Ca-Kabuli-Chr4	15934607	[A/T]	Ca05513	Intron	Beta-lactamase-like
CWSNP3086	Ca-Kabuli-Chr4	15934901	[T/G]	-	URR	-
CWSNP3087	Ca-Kabuli-Chr4	15957070	[T/A]	-	Intergenic	-
CWSNP3088	Ca-Kabuli-Chr4	16045870	[G/A]	Ca05504	Intron	Glutamyl/glutaminyl-tRNA synthetase, classIc

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP3089	Ca-Kabuli-Chr4	16046928	[T/C]	Ca05504	Synonymous-CDS	Glutamyl/glutaminyl-tRNA synthetase,classic
CWSNP3090	Ca-Kabuli-Chr4	16278600	[C/T]	Ca05487	Non-Synonymous-CDS	Zinc finger,B-box
CWSNP3091	Ca-Kabuli-Chr4	16278671	[T/A]	Ca05487	Synonymous-CDS	Zinc finger,B-box
CWSNP3092	Ca-Kabuli-Chr4	16571288	[T/C]	Ca05467	Intron	ATPase,AAA+type,core
CWSNP3093	Ca-Kabuli-Chr4	16622514	[C/A]	Ca05461	Non-Synonymous-CDS	KOW
CWSNP3094	Ca-Kabuli-Chr4	16628559	[T/G]	-	DRR	-
CWSNP3095	Ca-Kabuli-Chr4	16628591	[T/G]	-	DRR	-
CWSNP3096	Ca-Kabuli-Chr4	16628594	[T/G]	-	DRR	-
CWSNP3097	Ca-Kabuli-Chr4	16628540	[G/A]	-	DRR	-
CWSNP3098	Ca-Kabuli-Chr4	16628529	[C/A]	-	DRR	-
CWSNP3099	Ca-Kabuli-Chr4	16629560	[G/T]	-	DRR	-
CWSNP3100	Ca-Kabuli-Chr4	16629559	[T/G]	-	DRR	-
CWSNP3101	Ca-Kabuli-Chr4	16629638	[C/A]	-	DRR	-
CWSNP3102	Ca-Kabuli-Chr4	16749740	[A/G]	-	Intergenic	-
CWSNP3103	Ca-Kabuli-Chr4	16750416	[A/G]	-	Intergenic	-
CWSNP3104	Ca-Kabuli-Chr4	16789476	[G/A]	Ca05446	Synonymous-CDS	Haemerythrin/HHEcation-binding motif

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP3105	Ca-Kabuli-Chr4	16926614	[A/T]	Ca05430	Non-Synonymous-CDS	Zinc finger,C2H2-type
CWSNP3106	Ca-Kabuli-Chr4	17028368	[G/A]	-	Intergenic	-
CWSNP3107	Ca-Kabuli-Chr4	17032676	[T/C]	-	URR	-
CWSNP3108	Ca-Kabuli-Chr4	17032673	[C/T]	-	URR	-
CWSNP3109	Ca-Kabuli-Chr4	17147875	[C/T]	-	Intergenic	-
CWSNP3110	Ca-Kabuli-Chr4	17147926	[T/C]	-	Intergenic	-
CWSNP3111	Ca-Kabuli-Chr4	17187560	[C/G]	-	Intergenic	-
CWSNP3112	Ca-Kabuli-Chr4	17191562	[T/A]	Ca05405	Synonymous-CDS	Protein phosphatase2C,manganese/magnesium aspartate binding site
CWSNP3113	Ca-Kabuli-Chr4	17199316	[T/C]	Ca05404	Synonymous-CDS	Domain of unknown function DUF632
CWSNP3114	Ca-Kabuli-Chr4	17199477	[G/A]	Ca05404	Synonymous-CDS	Domain of unknown function DUF632
CWSNP3115	Ca-Kabuli-Chr4	17202770	[A/G]	-	DRR	-
CWSNP3116	Ca-Kabuli-Chr4	17225334	[G/A]	Ca05400	Synonymous-CDS	HEAT
CWSNP3117	Ca-Kabuli-Chr4	17264248	[C/A]	Ca05398	Synonymous-CDS	Major facilitator superfamily MFS-1
CWSNP3118	Ca-Kabuli-Chr4	17264592	[G/A]	Ca05398	Intron	Major facilitator superfamily MFS-1
CWSNP3119	Ca-Kabuli-Chr4	17264621	[C/G]	Ca05398	Intron	Major facilitator superfamily MFS-1
CWSNP3120	Ca-Kabuli-Chr4	17264637	[C/T]	Ca05398	Intron	Major facilitator superfamily MFS-1

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP3121	Ca-Kabuli-Chr4	17282119	[T/C]	-	URR	-
CWSNP3122	Ca-Kabuli-Chr4	17282148	[G/C]	-	URR	-
CWSNP3123	Ca-Kabuli-Chr4	17282336	[G/T]	-	URR	-
CWSNP3124	Ca-Kabuli-Chr4	17282345	[G/C]	-	URR	-
CWSNP3125	Ca-Kabuli-Chr4	17289594	[G/C]	-	Intergenic	-
CWSNP3126	Ca-Kabuli-Chr4	17297498	[G/T]	Ca05392	Intron	Ankyrin repeat-containing domain
CWSNP3127	Ca-Kabuli-Chr4	17297567	[G/A]	Ca05392	Intron	Ankyrin repeat-containing domain
CWSNP3128	Ca-Kabuli-Chr4	17297563	[A/G]	Ca05392	Intron	Ankyrin repeat-containing domain
CWSNP3129	Ca-Kabuli-Chr4	17309656	[A/C]	Ca05391	Synonymous-CDS	Phosphatidyl inositol 3-/4-kinase, catalytic
CWSNP3130	Ca-Kabuli-Chr4	17345436	[G/T]	Ca05389	Intron	Fibrillarin
CWSNP3131	Ca-Kabuli-Chr4	17345500	[G/A]	Ca05389	Synonymous-CDS	Fibrillarin
CWSNP3132	Ca-Kabuli-Chr4	17345483	[C/A]	Ca05389	Intron	Fibrillarin
CWSNP3133	Ca-Kabuli-Chr4	17358736	[C/T]	Ca05388	Intron	Protein kinase, catalytic domain
CWSNP3134	Ca-Kabuli-Chr4	17361143	[T/A]	Ca05388	Intron	Protein kinase, catalytic domain
CWSNP3135	Ca-Kabuli-Chr4	17396325	[A/G]	Ca05386	Intron	Zinc finger,RING-type
CWSNP3136	Ca-Kabuli-Chr4	17396349	[T/G]	Ca05386	Intron	Zinc finger,RING-type

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP3137	Ca-Kabuli-Chr4	17396352	[T/G]	Ca05386	Intron	Zinc finger,RING-type
CWSNP3138	Ca-Kabuli-Chr4	17429456	[A/T]	Ca05384	Synonymous-CDS	Transcription factor jumonji/aspartyl beta-hydroxylase
CWSNP3139	Ca-Kabuli-Chr4	17429457	[A/T]	Ca05384	Synonymous-CDS	Transcription factor jumonji/aspartyl beta-hydroxylase
CWSNP3140	Ca-Kabuli-Chr4	17429468	[T/C]	Ca05384	Synonymous-CDS	Transcription factor jumonji/aspartyl beta-hydroxylase
CWSNP3141	Ca-Kabuli-Chr4	17429747	[G/A]	Ca05384	Synonymous-CDS	Transcription factor jumonji/aspartyl beta-hydroxylase
CWSNP3142	Ca-Kabuli-Chr4	17429742	[A/G]	Ca05384	Synonymous-CDS	Transcription factor jumonji/aspartyl beta-hydroxylase
CWSNP3143	Ca-Kabuli-Chr4	17429735	[A/G]	Ca05384	Synonymous-CDS	Transcription factor jumonji/aspartyl beta-hydroxylase
CWSNP3144	Ca-Kabuli-Chr4	17429699	[G/C]	Ca05384	Synonymous-CDS	Transcription factor jumonji/aspartyl beta-hydroxylase
CWSNP3145	Ca-Kabuli-Chr4	17433782	[G/A]	Ca05384	Intron	Transcription factor jumonji/aspartyl beta-hydroxylase
CWSNP3146	Ca-Kabuli-Chr4	17433914	[G/A]	Ca05384	Intron	Transcription factor jumonji/aspartyl beta-hydroxylase
CWSNP3147	Ca-Kabuli-Chr4	17444578	[A/C]	-	Intergenic	-
CWSNP3148	Ca-Kabuli-Chr4	17472992	[T/G]	-	DRR	-
CWSNP3149	Ca-Kabuli-Chr4	17473234	[C/A]	-	DRR	-
CWSNP3150	Ca-Kabuli-Chr4	17603613	[T/C]	-	URR	-
CWSNP3151	Ca-Kabuli-Chr4	17621035	[G/T]	Ca05368	Intron	Dihydroorotatede hydrogenase,conserved site
CWSNP3152	Ca-Kabuli-Chr4	17621609	[G/A]	Ca05368	Non-Synonymous-CDS	Dihydroorotatede hydrogenase,conserved site

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP3153	Ca-Kabuli-Chr4	17647558	[G/A]	-	DRR	-
CWSNP3154	Ca-Kabuli-Chr4	17685058	[T/G]	-	Intergenic	-
CWSNP3155	Ca-Kabuli-Chr4	17685113	[C/A]	-	Intergenic	-
CWSNP3156	Ca-Kabuli-Chr4	17718540	[C/T]	-	DRR	-
CWSNP3157	Ca-Kabuli-Chr4	17718536	[C/A]	-	DRR	-
CWSNP3158	Ca-Kabuli-Chr4	17718922	[T/G]	-	DRR	-
CWSNP3159	Ca-Kabuli-Chr4	17718997	[C/A]	-	DRR	-
CWSNP3160	Ca-Kabuli-Chr4	17729988	[A/C]	Ca05352	Intron	SNF2-related
CWSNP3161	Ca-Kabuli-Chr4	17748171	[A/T]	-	Intergenic	-
CWSNP3162	Ca-Kabuli-Chr4	17752013	[C/T]	-	DRR	-
CWSNP3163	Ca-Kabuli-Chr4	17760841	[A/G]	Ca05349	Intron	PeptidaseS9,prolylloleptidase,catalytic domain
CWSNP3164	Ca-Kabuli-Chr4	17760853	[T/G]	Ca05349	Intron	PeptidaseS9,prolylloleptidase,catalytic domain
CWSNP3165	Ca-Kabuli-Chr4	17771708	[C/G]	-	Intergenic	-
CWSNP3166	Ca-Kabuli-Chr4	17784792	[T/A]	Ca05346	Intron	Protein of unknown function DUF639
CWSNP3167	Ca-Kabuli-Chr4	17826472	[G/A]	-	Intergenic	-
CWSNP3168	Ca-Kabuli-Chr4	17826533	[A/C]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP3169	Ca-Kabuli-Chr4	17826601	[T/C]	-	Intergenic	-
CWSNP3170	Ca-Kabuli-Chr4	17826580	[C/G]	-	Intergenic	-
CWSNP3171	Ca-Kabuli-Chr4	17826543	[T/C]	-	Intergenic	-
CWSNP3172	Ca-Kabuli-Chr4	17847854	[T/C]	Ca18621	Intron	Methionyl-tRNA synthetase
CWSNP3173	Ca-Kabuli-Chr4	17856307	[T/C]	Ca18622	Synonymous-CDS	IKI3
CWSNP3174	Ca-Kabuli-Chr4	17856311	[T/G]	Ca18622	Synonymous-CDS	IKI3
CWSNP3175	Ca-Kabuli-Chr4	17856334	[A/G]	Ca18622	Synonymous-CDS	IKI3
CWSNP3176	Ca-Kabuli-Chr4	17857753	[C/T]	Ca18622	Synonymous-CDS	IKI3
CWSNP3177	Ca-Kabuli-Chr4	17858122	[T/G]	Ca18622	Intron	IKI3
CWSNP3178	Ca-Kabuli-Chr4	17858133	[C/T]	Ca18622	Intron	IKI3
CWSNP3179	Ca-Kabuli-Chr4	17858135	[G/A]	Ca18622	Intron	IKI3
CWSNP3180	Ca-Kabuli-Chr4	17858140	[A/C]	Ca18622	Intron	IKI3
CWSNP3181	Ca-Kabuli-Chr4	17858143	[A/T]	Ca18622	Intron	IKI3
CWSNP3182	Ca-Kabuli-Chr4	17858144	[G/C]	Ca18622	Intron	IKI3
CWSNP3183	Ca-Kabuli-Chr4	17858152	[A/T]	Ca18622	Intron	IKI3
CWSNP3184	Ca-Kabuli-Chr4	17858159	[C/A]	Ca18622	Intron	IKI3

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP3185	Ca-Kabuli-Chr4	17858226	[C/T]	Ca18622	Intron	IKI3
CWSNP3186	Ca-Kabuli-Chr4	17871763	[T/C]	-	URR	-
CWSNP3187	Ca-Kabuli-Chr4	17871804	[T/C]	-	URR	-
CWSNP3188	Ca-Kabuli-Chr4	17871828	[A/C]	-	URR	-
CWSNP3189	Ca-Kabuli-Chr4	17871919	[A/G]	-	URR	-
CWSNP3190	Ca-Kabuli-Chr4	17871915	[T/A]	-	URR	-
CWSNP3191	Ca-Kabuli-Chr4	17913731	[A/C]	-	DRR	-
CWSNP3192	Ca-Kabuli-Chr4	17913726	[G/A]	-	DRR	-
CWSNP3193	Ca-Kabuli-Chr4	17913719	[G/C]	-	DRR	-
CWSNP3194	Ca-Kabuli-Chr4	17913698	[C/T]	-	DRR	-
CWSNP3195	Ca-Kabuli-Chr4	17913682	[C/A]	-	DRR	-
CWSNP3196	Ca-Kabuli-Chr4	17920616	[C/G]	Ca18632	Synonymous-CDS	ABC transporter, transmembrane domain
CWSNP3197	Ca-Kabuli-Chr4	18070293	[G/T]	Ca18648	Non-Synonymous-CDS	Ankyrin repeat
CWSNP3198	Ca-Kabuli-Chr4	18071114	[C/A]	Ca18648	Non-Synonymous-CDS	Ankyrin repeat
CWSNP3199	Ca-Kabuli-Chr4	18071324	[G/A]	Ca18648	Non-Synonymous-CDS	Ankyrin repeat
CWSNP3200	Ca-Kabuli-Chr4	18089423	[G/C]	Ca18650	Synonymous-CDS	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP3201	Ca-Kabuli-Chr4	18117833	[T/C]	-	URR	-
CWSNP3202	Ca-Kabuli-Chr4	18231443	[T/C]	Ca18659	Intron	SET domain
CWSNP3203	Ca-Kabuli-Chr4	18231463	[T/C]	Ca18659	Intron	SET domain
CWSNP3204	Ca-Kabuli-Chr4	18231466	[T/C]	Ca18659	Intron	SET domain
CWSNP3205	Ca-Kabuli-Chr4	18242020	[C/G]	Ca18659	Intron	SET domain
CWSNP3206	Ca-Kabuli-Chr4	18241995	[C/G]	Ca18659	Intron	SET domain
CWSNP3207	Ca-Kabuli-Chr4	18427385	[T/G]	Ca21626	Intron	LisHdimerisationmotif
CWSNP3208	Ca-Kabuli-Chr4	18427384	[C/T]	Ca21626	Intron	LisHdimerisationmotif
CWSNP3209	Ca-Kabuli-Chr4	18429139	[C/T]	-	Intergenic	-
CWSNP3210	Ca-Kabuli-Chr4	18489456	[G/C]	-	Intergenic	-
CWSNP3211	Ca-Kabuli-Chr4	18545489	[A/T]	Ca21616	Intron	Protein kinase, catalytic domain
CWSNP3212	Ca-Kabuli-Chr4	18546209	[T/G]	Ca21616	Synonymous-CDS	Protein kinase, catalytic domain
CWSNP3213	Ca-Kabuli-Chr4	18628582	[A/G]	Ca21604	Synonymous-CDS	Glycosyltransferase, family48
CWSNP3214	Ca-Kabuli-Chr4	18710941	[T/G]	Ca13978	Intron	-
CWSNP3215	Ca-Kabuli-Chr4	18719417	[A/G]	Ca13978	Intron	-
CWSNP3216	Ca-Kabuli-Chr4	18812610	[T/C]	-	DRR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP3217	Ca-Kabuli-Chr4	18923641	[G/T]	Ca13991	Intron	Nucleotide-sugartransporter
CWSNP3218	Ca-Kabuli-Chr4	19024699	[T/C]	-	Intergenic	-
CWSNP3219	Ca-Kabuli-Chr4	19227691	[G/C]	Ca14021	Non-Synonymous-CDS	Protein kinase, catalytic domain
CWSNP3220	Ca-Kabuli-Chr4	19263967	[T/G]	Ca14024	Intron	-
CWSNP3221	Ca-Kabuli-Chr4	19267581	[A/G]	Ca14024	Intron	-
CWSNP3222	Ca-Kabuli-Chr4	19540632	[A/C]	Ca14045	Non-Synonymous-CDS	Spo11/DNA topoisomeraseVI,subunitA
CWSNP3223	Ca-Kabuli-Chr4	19579442	[C/A]	-	Intergenic	-
CWSNP3224	Ca-Kabuli-Chr4	19668502	[T/G]	Ca14053	Synonymous-CDS	Pentatrigo peptide repeat
CWSNP3225	Ca-Kabuli-Chr4	19713311	[T/G]	Ca14059	Synonymous-CDS	-
CWSNP3226	Ca-Kabuli-Chr4	19869729	[G/T]	Ca17123	Non-Synonymous-CDS	TargetSNAREcoiled-coildomain
CWSNP3227	Ca-Kabuli-Chr4	20308992	[C/A]	Ca17144	Synonymous-CDS	Phenylalanine/histidineammonia-lyase
CWSNP3228	Ca-Kabuli-Chr4	20398685	[A/C]	Ca17149	Non-Synonymous-CDS	-
CWSNP3229	Ca-Kabuli-Chr4	20599050	[A/G]	-	Intergenic	-
CWSNP3230	Ca-Kabuli-Chr4	20599058	[T/C]	-	Intergenic	-
CWSNP3231	Ca-Kabuli-Chr4	20599081	[C/T]	-	Intergenic	-
CWSNP3232	Ca-Kabuli-Chr4	20599091	[T/G]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP3233	Ca-Kabuli-Chr4	20656170	[T/G]	Ca17165	Synonymous-CDS	NucleoporinNup120/160
CWSNP3234	Ca-Kabuli-Chr4	20669174	[T/C]	Ca17165	Intron	NucleoporinNup120/160
CWSNP3235	Ca-Kabuli-Chr4	20669442	[G/A]	Ca17165	Intron	NucleoporinNup120/160
CWSNP3236	Ca-Kabuli-Chr4	20696952	[G/T]	Ca17166	Synonymous-CDS	ABC transporter, transmembrane domain
CWSNP3237	Ca-Kabuli-Chr4	20774180	[C/T]	Ca17170	Intron	-
CWSNP3238	Ca-Kabuli-Chr4	20905105	[G/A]	Ca19045	Intron	Serine/threoninedehydratase,pyridoxal-phosphate-binding site
CWSNP3239	Ca-Kabuli-Chr4	21385308	[A/T]	Ca19066	Synonymous-CDS	PeptidaseA1
CWSNP3240	Ca-Kabuli-Chr4	21835459	[T/A]	-	Intergenic	-
CWSNP3241	Ca-Kabuli-Chr4	21835457	[T/A]	-	Intergenic	-
CWSNP3242	Ca-Kabuli-Chr4	21835454	[C/A]	-	Intergenic	-
CWSNP3243	Ca-Kabuli-Chr4	21835446	[T/A]	-	Intergenic	-
CWSNP3244	Ca-Kabuli-Chr4	21931559	[A/G]	-	Intergenic	-
CWSNP3245	Ca-Kabuli-Chr4	21931558	[G/A]	-	Intergenic	-
CWSNP3246	Ca-Kabuli-Chr4	21931541	[C/T]	-	Intergenic	-
CWSNP3247	Ca-Kabuli-Chr4	22293495	[T/C]	-	URR	-
CWSNP3248	Ca-Kabuli-Chr4	22850596	[C/G]	Ca14467	Non-Synonymous-CDS	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP3249	Ca-Kabuli-Chr4	22859422	[G/A]	-	DRR	-
CWSNP3250	Ca-Kabuli-Chr4	22860281	[A/C]	-	DRR	-
CWSNP3251	Ca-Kabuli-Chr4	22865436	[A/T]	-	DRR	-
CWSNP3252	Ca-Kabuli-Chr4	22865390	[G/A]	-	DRR	-
CWSNP3253	Ca-Kabuli-Chr4	22865389	[C/T]	-	DRR	-
CWSNP3254	Ca-Kabuli-Chr4	22908360	[A/G]	Ca14463	Synonymous-CDS	Pentatrigo peptide repeat
CWSNP3255	Ca-Kabuli-Chr4	22971660	[G/A]	Ca14460	Non-Synonymous-CDS	-
CWSNP3256	Ca-Kabuli-Chr4	22971766	[A/G]	Ca14460	Non-Synonymous-CDS	-
CWSNP3257	Ca-Kabuli-Chr4	22971746	[G/A]	Ca14460	Synonymous-CDS	-
CWSNP3258	Ca-Kabuli-Chr4	22971744	[A/C]	Ca14460	Non-Synonymous-CDS	-
CWSNP3259	Ca-Kabuli-Chr4	22971847	[C/A]	Ca14460	Non-Synonymous-CDS	-
CWSNP3260	Ca-Kabuli-Chr4	22971853	[C/A]	Ca14460	Non-Synonymous-CDS	-
CWSNP3261	Ca-Kabuli-Chr4	22971884	[G/A]	Ca14460	Synonymous-CDS	-
CWSNP3262	Ca-Kabuli-Chr4	23314665	[A/C]	-	Intergenic	-
CWSNP3263	Ca-Kabuli-Chr4	23337312	[T/G]	-	Intergenic	-
CWSNP3264	Ca-Kabuli-Chr4	23481919	[G/A]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP3265	Ca-Kabuli-Chr4	23481927	[G/T]	-	Intergenic	-
CWSNP3266	Ca-Kabuli-Chr4	23481962	[G/A]	-	Intergenic	-
CWSNP3267	Ca-Kabuli-Chr4	23482033	[A/G]	-	Intergenic	-
CWSNP3268	Ca-Kabuli-Chr4	23481998	[T/C]	-	Intergenic	-
CWSNP3269	Ca-Kabuli-Chr4	23486812	[A/G]	-	Intergenic	-
CWSNP3270	Ca-Kabuli-Chr4	23486859	[A/G]	-	Intergenic	-
CWSNP3271	Ca-Kabuli-Chr4	23486824	[T/C]	-	Intergenic	-
CWSNP3272	Ca-Kabuli-Chr4	24120866	[A/G]	-	Intergenic	-
CWSNP3273	Ca-Kabuli-Chr4	24614582	[G/T]	-	URR	-
CWSNP3274	Ca-Kabuli-Chr4	24729302	[T/C]	Ca20853	Intron	Protein kinase, catalytic domain
CWSNP3275	Ca-Kabuli-Chr4	24732991	[G/T]	Ca20853	Intron	Protein kinase, catalytic domain
CWSNP3276	Ca-Kabuli-Chr4	24732990	[T/C]	Ca20853	Intron	Protein kinase, catalytic domain
CWSNP3277	Ca-Kabuli-Chr4	24771737	[T/A]	Ca20851	Non-Synonymous-CDS	-
CWSNP3278	Ca-Kabuli-Chr4	24782714	[C/A]	Ca20850	Non-Synonymous-CDS	-
CWSNP3279	Ca-Kabuli-Chr4	24782715	[A/G]	Ca20850	Non-Synonymous-CDS	-
CWSNP3280	Ca-Kabuli-Chr4	24856115	[A/C]	Ca20847	Non-Synonymous-CDS	Protein kinase, catalytic domain

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP3281	Ca-Kabuli-Chr4	24857501	[A/G]	Ca20847	Intron	Protein kinase, catalytic domain
CWSNP3282	Ca-Kabuli-Chr4	25401714	[T/C]	-	Intergenic	-
CWSNP3283	Ca-Kabuli-Chr4	25446684	[T/C]	-	Intergenic	-
CWSNP3284	Ca-Kabuli-Chr4	25455156	[G/A]	-	Intergenic	-
CWSNP3285	Ca-Kabuli-Chr4	25455204	[A/G]	-	Intergenic	-
CWSNP3286	Ca-Kabuli-Chr4	25592487	[A/G]	-	Intergenic	-
CWSNP3287	Ca-Kabuli-Chr4	25592484	[A/C]	-	Intergenic	-
CWSNP3288	Ca-Kabuli-Chr4	25729905	[C/A]	-	Intergenic	-
CWSNP3289	Ca-Kabuli-Chr4	25729977	[C/T]	-	Intergenic	-
CWSNP3290	Ca-Kabuli-Chr4	25747256	[T/C]	-	Intergenic	-
CWSNP3291	Ca-Kabuli-Chr4	25747262	[G/A]	-	Intergenic	-
CWSNP3292	Ca-Kabuli-Chr4	25747274	[T/G]	-	Intergenic	-
CWSNP3293	Ca-Kabuli-Chr4	25747275	[G/A]	-	Intergenic	-
CWSNP3294	Ca-Kabuli-Chr4	25747281	[T/C]	-	Intergenic	-
CWSNP3295	Ca-Kabuli-Chr4	25747295	[G/A]	-	Intergenic	-
CWSNP3296	Ca-Kabuli-Chr4	25747296	[T/C]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP3297	Ca-Kabuli-Chr4	25809665	[T/C]	Ca16599	Intron	Amino glycosidephospho transferase
CWSNP3298	Ca-Kabuli-Chr4	25921165	[T/C]	Ca16606	Intron	Thiolase
CWSNP3299	Ca-Kabuli-Chr4	26000532	[C/T]	-	DRR	-
CWSNP3300	Ca-Kabuli-Chr4	26000483	[T/A]	-	DRR	-
CWSNP3301	Ca-Kabuli-Chr4	26002991	[C/A]	Ca16610	Intron	Aldo/ketoreductase
CWSNP3302	Ca-Kabuli-Chr4	26008744	[G/A]	-	URR	-
CWSNP3303	Ca-Kabuli-Chr4	26008745	[G/A]	-	URR	-
CWSNP3304	Ca-Kabuli-Chr4	26008748	[C/T]	-	URR	-
CWSNP3305	Ca-Kabuli-Chr4	26008768	[A/G]	-	URR	-
CWSNP3306	Ca-Kabuli-Chr4	26008816	[C/A]	-	URR	-
CWSNP3307	Ca-Kabuli-Chr4	26009438	[G/T]	-	Intergenic	-
CWSNP3308	Ca-Kabuli-Chr4	26009439	[G/T]	-	Intergenic	-
CWSNP3309	Ca-Kabuli-Chr4	26222180	[A/G]	-	Intergenic	-
CWSNP3310	Ca-Kabuli-Chr4	26529606	[C/T]	Ca25003	Intron	RNA recognition motif domain
CWSNP3311	Ca-Kabuli-Chr4	26532763	[T/G]	Ca25003	Intron	RNA recognition motif domain
CWSNP3312	Ca-Kabuli-Chr4	26537053	[C/T]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP3313	Ca-Kabuli-Chr4	26537258	[A/C]	-	Intergenic	-
CWSNP3314	Ca-Kabuli-Chr4	26915621	[G/A]	-	URR	-
CWSNP3315	Ca-Kabuli-Chr4	26915626	[C/T]	-	URR	-
CWSNP3316	Ca-Kabuli-Chr4	26989204	[A/C]	Ca20453	Non-Synonymous-CDS	Ribosomal proteinS3,C-terminal
CWSNP3317	Ca-Kabuli-Chr4	27102817	[A/C]	-	Intergenic	-
CWSNP3318	Ca-Kabuli-Chr4	27102833	[G/T]	-	Intergenic	-
CWSNP3319	Ca-Kabuli-Chr4	27262893	[G/A]	-	Intergenic	-
CWSNP3320	Ca-Kabuli-Chr4	27268301	[G/A]	-	Intergenic	-
CWSNP3321	Ca-Kabuli-Chr4	27493010	[G/T]	Ca21317	Synonymous-CDS	Protein of unknown function DUF716,TMEM45
CWSNP3322	Ca-Kabuli-Chr4	27613450	[C/T]	Ca21314	Intron	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP3323	Ca-Kabuli-Chr4	27617803	[A/G]	-	DRR	-
CWSNP3324	Ca-Kabuli-Chr4	27626559	[G/A]	Ca21312	Synonymous-CDS	Protein of unknown function DUF810
CWSNP3325	Ca-Kabuli-Chr4	27626999	[C/T]	Ca21312	Synonymous-CDS	Protein of unknown function DUF810
CWSNP3326	Ca-Kabuli-Chr4	27661241	[T/G]	Ca21309	Synonymous-CDS	-
CWSNP3327	Ca-Kabuli-Chr4	27669829	[C/G]	-	URR	-
CWSNP3328	Ca-Kabuli-Chr4	27777968	[A/C]	Ca21303	Intron	MATH

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP3329	Ca-Kabuli-Chr4	27786162	[G/C]	Ca21303	Intron	MATH
CWSNP3330	Ca-Kabuli-Chr4	27970989	[T/G]	Ca21299	Synonymous-CDS	GAF
CWSNP3331	Ca-Kabuli-Chr4	28061002	[A/C]	Ca23178	Synonymous-CDS	-
CWSNP3332	Ca-Kabuli-Chr4	28092609	[G/A]	Ca23175	Non-Synonymous-CDS	-
CWSNP3333	Ca-Kabuli-Chr4	28092727	[T/A]	Ca23175	Non-Synonymous-CDS	Crotonase,core
CWSNP3334	Ca-Kabuli-Chr4	28092725	[T/G]	Ca23175	Non-Synonymous-CDS	Crotonase,core
CWSNP3335	Ca-Kabuli-Chr4	28092724	[T/A]	Ca23175	Non-Synonymous-CDS	Crotonase,core
CWSNP3336	Ca-Kabuli-Chr4	28289900	[C/A]	-	Intergenic	-
CWSNP3337	Ca-Kabuli-Chr4	28299238	[G/A]	-	Intergenic	-
CWSNP3338	Ca-Kabuli-Chr4	28301853	[T/C]	-	Intergenic	-
CWSNP3339	Ca-Kabuli-Chr4	28423079	[T/C]	-	Intergenic	-
CWSNP3340	Ca-Kabuli-Chr4	28423140	[A/G]	-	Intergenic	-
CWSNP3341	Ca-Kabuli-Chr4	28431706	[G/A]	-	Intergenic	-
CWSNP3342	Ca-Kabuli-Chr4	28790085	[A/G]	-	DRR	-
CWSNP3343	Ca-Kabuli-Chr4	29582296	[C/T]	-	Intergenic	-
CWSNP3344	Ca-Kabuli-Chr4	29582289	[G/A]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP3345	Ca-Kabuli-Chr4	29582285	[C/A]	-	Intergenic	-
CWSNP3346	Ca-Kabuli-Chr4	29582282	[C/A]	-	Intergenic	-
CWSNP3347	Ca-Kabuli-Chr4	29582273	[G/A]	-	Intergenic	-
CWSNP3348	Ca-Kabuli-Chr4	29582268	[C/G]	-	Intergenic	-
CWSNP3349	Ca-Kabuli-Chr4	29582257	[G/A]	-	Intergenic	-
CWSNP3350	Ca-Kabuli-Chr4	29582255	[C/T]	-	Intergenic	-
CWSNP3351	Ca-Kabuli-Chr4	29582252	[G/A]	-	Intergenic	-
CWSNP3352	Ca-Kabuli-Chr4	29582249	[C/T]	-	Intergenic	-
CWSNP3353	Ca-Kabuli-Chr4	29582235	[T/A]	-	Intergenic	-
CWSNP3354	Ca-Kabuli-Chr4	29582232	[C/T]	-	Intergenic	-
CWSNP3355	Ca-Kabuli-Chr4	29582227	[G/A]	-	Intergenic	-
CWSNP3356	Ca-Kabuli-Chr4	29582219	[A/C]	-	Intergenic	-
CWSNP3357	Ca-Kabuli-Chr4	29582271	[C/T]	-	Intergenic	-
CWSNP3358	Ca-Kabuli-Chr4	29582286	[T/A]	-	Intergenic	-
CWSNP3359	Ca-Kabuli-Chr4	29582294	[G/A]	-	Intergenic	-
CWSNP3360	Ca-Kabuli-Chr4	29582301	[G/T]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP3361	Ca-Kabuli-Chr4	29671563	[G/A]	-	Intergenic	-
CWSNP3362	Ca-Kabuli-Chr4	29671606	[A/G]	-	Intergenic	-
CWSNP3363	Ca-Kabuli-Chr4	29683718	[A/T]	Ca14166	Non-Synonymous-CDS	Kinesin , motor domain
CWSNP3364	Ca-Kabuli-Chr4	29923380	[G/A]	Ca14177	Synonymous-CDS	Plant peroxidase
CWSNP3365	Ca-Kabuli-Chr4	29958122	[T/G]	-	Intergenic	-
CWSNP3366	Ca-Kabuli-Chr4	29958113	[G/A]	-	Intergenic	-
CWSNP3367	Ca-Kabuli-Chr4	29972268	[T/G]	-	Intergenic	-
CWSNP3368	Ca-Kabuli-Chr4	30153390	[G/A]	-	Intergenic	-
CWSNP3369	Ca-Kabuli-Chr4	30153448	[T/C]	-	Intergenic	-
CWSNP3370	Ca-Kabuli-Chr4	30153505	[C/G]	-	Intergenic	-
CWSNP3371	Ca-Kabuli-Chr4	30258044	[A/T]	-	Intergenic	-
CWSNP3372	Ca-Kabuli-Chr4	30258045	[A/T]	-	Intergenic	-
CWSNP3373	Ca-Kabuli-Chr4	30258056	[A/G]	-	Intergenic	-
CWSNP3374	Ca-Kabuli-Chr4	30258484	[G/C]	-	Intergenic	-
CWSNP3375	Ca-Kabuli-Chr4	30258613	[C/A]	-	Intergenic	-
CWSNP3376	Ca-Kabuli-Chr4	30258607	[C/A]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP3377	Ca-Kabuli-Chr4	30258604	[C/A]	-	Intergenic	-
CWSNP3378	Ca-Kabuli-Chr4	30258596	[G/C]	-	Intergenic	-
CWSNP3379	Ca-Kabuli-Chr4	30258567	[C/A]	-	Intergenic	-
CWSNP3380	Ca-Kabuli-Chr4	30260485	[C/A]	-	Intergenic	-
CWSNP3381	Ca-Kabuli-Chr4	30281991	[A/G]	-	Intergenic	-
CWSNP3382	Ca-Kabuli-Chr4	30301002	[T/G]	Ca14192	Synonymous-CDS	SNF2-related
CWSNP3383	Ca-Kabuli-Chr4	30308719	[A/C]	Ca14192	Intron	SNF2-related
CWSNP3384	Ca-Kabuli-Chr4	30308812	[G/A]	Ca14192	Intron	SNF2-related
CWSNP3385	Ca-Kabuli-Chr4	30308788	[T/C]	Ca14192	Intron	SNF2-related
CWSNP3386	Ca-Kabuli-Chr4	30463063	[T/C]	-	URR	-
CWSNP3387	Ca-Kabuli-Chr4	30463117	[C/A]	-	URR	-
CWSNP3388	Ca-Kabuli-Chr4	30599096	[C/A]	Ca14207	Synonymous-CDS	Protein kinase, catalytic domain
CWSNP3389	Ca-Kabuli-Chr4	30599188	[C/T]	Ca14207	Intron	Protein kinase, catalytic domain
CWSNP3390	Ca-Kabuli-Chr4	30668893	[A/C]	-	Intergenic	-
CWSNP3391	Ca-Kabuli-Chr4	30851027	[A/T]	Ca14212	Intron	Basic-leucine zipper (bZIP) Transcription factor
CWSNP3392	Ca-Kabuli-Chr4	30851411	[T/G]	Ca14212	Intron	Basic-leucine zipper (bZIP) Transcription factor

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP3393	Ca-Kabuli-Chr4	30851840	[A/T]	Ca14212	Intron	Basic-leucine zipper (bZIP) Transcription factor
CWSNP3394	Ca-Kabuli-Chr4	30931586	[G/T]	-	Intergenic	-
CWSNP3395	Ca-Kabuli-Chr4	31218647	[T/C]	Ca14226	Intron	Ovariantumour,otubain
CWSNP3396	Ca-Kabuli-Chr4	31221264	[T/G]	-	Intergenic	-
CWSNP3397	Ca-Kabuli-Chr4	31221253	[G/A]	-	Intergenic	-
CWSNP3398	Ca-Kabuli-Chr4	31221226	[T/A]	-	Intergenic	-
CWSNP3399	Ca-Kabuli-Chr4	31224001	[G/A]	-	URR	-
CWSNP3400	Ca-Kabuli-Chr4	31262596	[T/A]	-	URR	-
CWSNP3401	Ca-Kabuli-Chr4	31263205	[T/A]	Ca14230	Non-Synonymous-CDS	Pentatrigo peptide repeat
CWSNP3402	Ca-Kabuli-Chr4	31594126	[A/C]	-	Intergenic	-
CWSNP3403	Ca-Kabuli-Chr4	31618949	[T/A]	-	Intergenic	-
CWSNP3404	Ca-Kabuli-Chr4	31987890	[A/C]	-	Intergenic	-
CWSNP3405	Ca-Kabuli-Chr4	32042488	[T/G]	Ca15459	Synonymous-CDS	Domain of unknown function DUF828
CWSNP3406	Ca-Kabuli-Chr4	32068961	[A/G]	Ca15461	Synonymous-CDS	Ankyrin repeat
CWSNP3407	Ca-Kabuli-Chr4	32073552	[T/C]	-	DRR	-
CWSNP3408	Ca-Kabuli-Chr4	32073550	[C/G]	-	DRR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP3409	Ca-Kabuli-Chr4	32073549	[G/C]	-	DRR	-
CWSNP3410	Ca-Kabuli-Chr4	32166559	[C/G]	-	Intergenic	-
CWSNP3411	Ca-Kabuli-Chr4	32166557	[T/A]	-	Intergenic	-
CWSNP3412	Ca-Kabuli-Chr4	32183307	[C/G]	Ca15464	Synonymous-CDS	Pentatrigo peptide repeat
CWSNP3413	Ca-Kabuli-Chr4	32184628	[A/G]	Ca15464	Synonymous-CDS	Pentatrigo peptide repeat
CWSNP3414	Ca-Kabuli-Chr4	32212899	[G/A]	-	Intergenic	-
CWSNP3415	Ca-Kabuli-Chr4	32303394	[C/T]	-	DRR	-
CWSNP3416	Ca-Kabuli-Chr4	32429228	[A/T]	Ca15476	Non-Synonymous-CDS	Armadillo
CWSNP3417	Ca-Kabuli-Chr4	32429222	[A/C]	Ca15476	Synonymous-CDS	Armadillo
CWSNP3418	Ca-Kabuli-Chr4	32521346	[T/C]	Ca15480	Intron	-
CWSNP3419	Ca-Kabuli-Chr4	32602658	[C/T]	-	Intergenic	-
CWSNP3420	Ca-Kabuli-Chr4	32604538	[T/C]	Ca15484	Synonymous-CDS	Pentatrigo peptide repeat
CWSNP3421	Ca-Kabuli-Chr4	32604510	[A/C]	Ca15484	Non-Synonymous-CDS	Pentatrigo peptide repeat
CWSNP3422	Ca-Kabuli-Chr4	32636315	[T/C]	-	Intergenic	-
CWSNP3423	Ca-Kabuli-Chr4	32636428	[C/A]	-	Intergenic	-
CWSNP3424	Ca-Kabuli-Chr4	32636459	[A/G]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP3425	Ca-Kabuli-Chr4	32636690	[C/T]	-	Intergenic	-
CWSNP3426	Ca-Kabuli-Chr4	32639121	[C/T]	-	Intergenic	-
CWSNP3427	Ca-Kabuli-Chr4	32639188	[C/G]	-	Intergenic	-
CWSNP3428	Ca-Kabuli-Chr4	32639118	[A/C]	-	Intergenic	-
CWSNP3429	Ca-Kabuli-Chr4	32639315	[A/G]	-	Intergenic	-
CWSNP3430	Ca-Kabuli-Chr4	32639654	[T/C]	-	Intergenic	-
CWSNP3431	Ca-Kabuli-Chr4	32639681	[C/T]	-	URR	-
CWSNP3432	Ca-Kabuli-Chr4	32853834	[T/C]	Ca15495	Intron	DNA topoisomerase I,C-terminal
CWSNP3433	Ca-Kabuli-Chr4	32853838	[G/T]	Ca15495	Intron	DNA topoisomerase I,C-terminal
CWSNP3434	Ca-Kabuli-Chr4	33509759	[A/C]	-	Intergenic	-
CWSNP3435	Ca-Kabuli-Chr4	33509762	[G/A]	-	Intergenic	-
CWSNP3436	Ca-Kabuli-Chr4	33641757	[C/T]	Ca24030	Intron	SNF2-related
CWSNP3437	Ca-Kabuli-Chr4	33820657	[A/C]	-	DRR	-
CWSNP3438	Ca-Kabuli-Chr4	33874346	[T/C]	-	Intergenic	-
CWSNP3439	Ca-Kabuli-Chr4	33874327	[T/C]	-	Intergenic	-
CWSNP3440	Ca-Kabuli-Chr4	33874313	[G/A]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP3441	Ca-Kabuli-Chr4	33929777	[C/T]	Ca20365	Intron	Peptidase C19,ubiquitin carboxyl-terminalhydrolase 2
CWSNP3442	Ca-Kabuli-Chr4	34155084	[C/G]	Ca20360	Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP3443	Ca-Kabuli-Chr4	34222792	[G/C]	-	Intergenic	-
CWSNP3444	Ca-Kabuli-Chr4	34354519	[G/T]	-	Intergenic	-
CWSNP3445	Ca-Kabuli-Chr4	34487064	[T/G]	Ca20350	Intron	Domain of unknown function DUF676,hydrolase-like
CWSNP3446	Ca-Kabuli-Chr4	34784285	[G/A]	Ca19990	Non-Synonymous-CDS	Ribosomal proteinL22/L17
CWSNP3447	Ca-Kabuli-Chr4	34798597	[C/A]	Ca19992	Intron	Pentatrigo peptide repeat
CWSNP3448	Ca-Kabuli-Chr4	34916032	[C/T]	Ca19997	Intron	Inosine/uridine-preferring nucleosidehydrolase domain
CWSNP3449	Ca-Kabuli-Chr4	34924575	[C/T]	Ca19998	Non-Synonymous-CDS	Metallo-dependent phosphatase
CWSNP3450	Ca-Kabuli-Chr4	34955953	[A/G]	Ca19999	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP3451	Ca-Kabuli-Chr4	34956006	[C/T]	Ca19999	Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP3452	Ca-Kabuli-Chr4	34956035	[C/T]	Ca19999	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP3453	Ca-Kabuli-Chr4	34956031	[G/A]	Ca19999	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP3454	Ca-Kabuli-Chr4	35141281	[A/T]	Ca20010	Non-Synonymous-CDS	Glycosidehydrolase, family9
CWSNP3455	Ca-Kabuli-Chr4	35141309	[A/C]	Ca20010	Synonymous-CDS	Glycosidehydrolase, family9
CWSNP3456	Ca-Kabuli-Chr4	35141340	[G/A]	Ca20010	Intron	Glycosidehydrolase, family9

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP3457	Ca-Kabuli-Chr4	35141353	[C/G]	Ca20010	Intron	Glycosidehydrolase,family9
CWSNP3458	Ca-Kabuli-Chr4	35141359	[C/G]	Ca20010	Intron	Glycosidehydrolase,family9
CWSNP3459	Ca-Kabuli-Chr4	35141375	[A/G]	Ca20010	Intron	Glycosidehydrolase,family9
CWSNP3460	Ca-Kabuli-Chr4	35141403	[C/T]	Ca20010	Intron	Glycosidehydrolase,family9
CWSNP3461	Ca-Kabuli-Chr4	35168915	[C/T]	Ca20011	Intron	-
CWSNP3462	Ca-Kabuli-Chr4	35168939	[C/T]	Ca20011	Intron	-
CWSNP3463	Ca-Kabuli-Chr4	35229966	[C/T]	Ca20015	Non-Synonymous-CDS	-
CWSNP3464	Ca-Kabuli-Chr4	35231891	[C/T]	-	Intergenic	-
CWSNP3465	Ca-Kabuli-Chr4	35304102	[C/T]	Ca20017	Synonymous-CDS	-
CWSNP3466	Ca-Kabuli-Chr4	35304108	[C/A]	Ca20017	Non-Synonymous-CDS	-
CWSNP3467	Ca-Kabuli-Chr4	35309709	[A/G]	Ca20017	Intron	-
CWSNP3468	Ca-Kabuli-Chr4	35311815	[A/C]	Ca20017	Synonymous-CDS	-
CWSNP3469	Ca-Kabuli-Chr4	35337282	[A/G]	Ca20018	Intron	IQ motif, EF-hand binding site
CWSNP3470	Ca-Kabuli-Chr4	35344356	[A/G]	Ca20018	Intron	IQ motif, EF-hand binding site
CWSNP3471	Ca-Kabuli-Chr4	35344353	[T/C]	Ca20018	Intron	IQ motif, EF-hand binding site
CWSNP3472	Ca-Kabuli-Chr4	35344323	[C/T]	Ca20018	Intron	IQ motif, EF-hand binding site

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP3473	Ca-Kabuli-Chr4	35346417	[C/T]	Ca20018	Intron	IQ motif, EF-hand binding site
CWSNP3474	Ca-Kabuli-Chr4	35346465	[G/T]	Ca20018	Intron	IQ motif, EF-hand binding site
CWSNP3475	Ca-Kabuli-Chr4	35346558	[G/T]	Ca20018	Intron	IQ motif, EF-hand binding site
CWSNP3476	Ca-Kabuli-Chr4	35346563	[G/T]	Ca20018	Intron	IQ motif, EF-hand binding site
CWSNP3477	Ca-Kabuli-Chr4	35346576	[C/G]	Ca20018	Intron	IQ motif, EF-hand binding site
CWSNP3478	Ca-Kabuli-Chr4	35346624	[G/A]	Ca20018	Intron	IQ motif, EF-hand binding site
CWSNP3479	Ca-Kabuli-Chr4	35393505	[G/T]	Ca20021	Synonymous-CDS	Transcription factor,TCP
CWSNP3480	Ca-Kabuli-Chr4	35393643	[G/A]	Ca20021	Synonymous-CDS	Transcription factor,TCP
CWSNP3481	Ca-Kabuli-Chr4	35455095	[A/C]	-	Intergenic	-
CWSNP3482	Ca-Kabuli-Chr4	35455062	[A/T]	-	Intergenic	-
CWSNP3483	Ca-Kabuli-Chr4	35455708	[G/A]	-	Intergenic	-
CWSNP3484	Ca-Kabuli-Chr4	35469308	[T/G]	Ca22431	Non-Synonymous-CDS	Sugar/inositol transporter
CWSNP3485	Ca-Kabuli-Chr4	35469304	[G/A]	Ca22431	Non-Synonymous-CDS	Sugar/inositol transporter
CWSNP3486	Ca-Kabuli-Chr4	35487504	[G/C]	-	URR	-
CWSNP3487	Ca-Kabuli-Chr4	35487496	[C/A]	-	URR	-
CWSNP3488	Ca-Kabuli-Chr4	35487471	[A/C]	-	URR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP3489	Ca-Kabuli-Chr4	35528758	[C/A]	Ca22434	Intron	-
CWSNP3490	Ca-Kabuli-Chr4	35534777	[G/C]	Ca22434	Intron	-
CWSNP3491	Ca-Kabuli-Chr4	35534877	[T/C]	Ca22434	Intron	-
CWSNP3492	Ca-Kabuli-Chr4	35534891	[C/T]	Ca22434	Intron	-
CWSNP3493	Ca-Kabuli-Chr4	35634712	[A/G]	-	Intergenic	-
CWSNP3494	Ca-Kabuli-Chr4	35634751	[A/G]	-	Intergenic	-
CWSNP3495	Ca-Kabuli-Chr4	35634873	[G/T]	-	Intergenic	-
CWSNP3496	Ca-Kabuli-Chr4	35961593	[A/C]	-	URR	-
CWSNP3497	Ca-Kabuli-Chr4	35977422	[G/A]	-	URR	-
CWSNP3498	Ca-Kabuli-Chr4	36005847	[T/G]	-	Intergenic	-
CWSNP3499	Ca-Kabuli-Chr4	36010756	[T/G]	-	Intergenic	-
CWSNP3500	Ca-Kabuli-Chr4	36277383	[C/T]	Ca14843	Non-Synonymous-CDS	Helicase,C-terminal
CWSNP3501	Ca-Kabuli-Chr4	36445345	[G/A]	Ca14833	Synonymous-CDS	Armadillo
CWSNP3502	Ca-Kabuli-Chr4	36445367	[A/G]	Ca14833	Non-Synonymous-CDS	Armadillo
CWSNP3503	Ca-Kabuli-Chr4	36449101	[C/T]	Ca14833	Intron	Armadillo
CWSNP3504	Ca-Kabuli-Chr4	36461836	[A/G]	-	DRR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP3505	Ca-Kabuli-Chr4	36467928	[C/T]	-	URR	-
CWSNP3506	Ca-Kabuli-Chr4	36467943	[A/G]	-	URR	-
CWSNP3507	Ca-Kabuli-Chr4	36467964	[G/A]	-	URR	-
CWSNP3508	Ca-Kabuli-Chr4	36467967	[T/C]	-	URR	-
CWSNP3509	Ca-Kabuli-Chr4	36467980	[C/A]	-	URR	-
CWSNP3510	Ca-Kabuli-Chr4	36467988	[C/T]	-	URR	-
CWSNP3511	Ca-Kabuli-Chr4	36467990	[T/G]	-	URR	-
CWSNP3512	Ca-Kabuli-Chr4	36468003	[T/A]	-	URR	-
CWSNP3513	Ca-Kabuli-Chr4	36468053	[A/G]	-	URR	-
CWSNP3514	Ca-Kabuli-Chr4	36537118	[C/T]	Ca14825	Synonymous-CDS	Transcriptional factor B3
CWSNP3515	Ca-Kabuli-Chr4	36537124	[C/T]	Ca14825	Synonymous-CDS	Transcriptional factor B3
CWSNP3516	Ca-Kabuli-Chr4	36537170	[C/T]	Ca14825	Non-Synonymous-CDS	Transcriptional factor B3
CWSNP3517	Ca-Kabuli-Chr4	36541088	[G/T]	-	DRR	-
CWSNP3518	Ca-Kabuli-Chr4	36541087	[T/C]	-	DRR	-
CWSNP3519	Ca-Kabuli-Chr4	36541083	[A/C]	-	DRR	-
CWSNP3520	Ca-Kabuli-Chr4	36639333	[A/T]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP3521	Ca-Kabuli-Chr4	36639382	[T/C]	-	Intergenic	-
CWSNP3522	Ca-Kabuli-Chr4	36673677	[C/A]	-	Intergenic	-
CWSNP3523	Ca-Kabuli-Chr4	36682215	[G/A]	Ca14812	Non-Synonymous-CDS	-
CWSNP3524	Ca-Kabuli-Chr4	36682213	[C/T]	Ca14812	Non-Synonymous-CDS	-
CWSNP3525	Ca-Kabuli-Chr4	36682211	[G/A]	Ca14812	Synonymous-CDS	-
CWSNP3526	Ca-Kabuli-Chr4	36682253	[T/G]	Ca14812	Synonymous-CDS	-
CWSNP3527	Ca-Kabuli-Chr4	36682231	[G/T]	Ca14812	Non-Synonymous-CDS	-
CWSNP3528	Ca-Kabuli-Chr4	36709731	[G/A]	-	DRR	-
CWSNP3529	Ca-Kabuli-Chr4	36754121	[T/C]	Ca14808	Intron	Phosphofructokinase domain
CWSNP3530	Ca-Kabuli-Chr4	36754290	[T/A]	Ca14808	Intron	Phosphofructokinase domain
CWSNP3531	Ca-Kabuli-Chr4	36754378	[C/T]	Ca14808	Intron	Phosphofructokinase domain
CWSNP3532	Ca-Kabuli-Chr4	36754377	[T/A]	Ca14808	Intron	Phosphofructokinase domain
CWSNP3533	Ca-Kabuli-Chr4	36754348	[C/T]	Ca14808	Intron	Phosphofructokinase domain
CWSNP3534	Ca-Kabuli-Chr4	36754343	[A/C]	Ca14808	Intron	Phosphofructokinase domain
CWSNP3535	Ca-Kabuli-Chr4	36754327	[G/A]	Ca14808	Intron	Phosphofructokinase domain
CWSNP3536	Ca-Kabuli-Chr4	36754468	[G/A]	Ca14808	Synonymous-CDS	Phosphofructokinase domain

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP3537	Ca-Kabuli-Chr4	36754453	[A/G]	Ca14808	Synonymous-CDS	Phosphofructokinase domain
CWSNP3538	Ca-Kabuli-Chr4	36799551	[C/T]	Ca14807	Synonymous-CDS	RNA recognition motif domain
CWSNP3539	Ca-Kabuli-Chr4	36831199	[G/A]	Ca14805	Non-Synonymous-CDS	-
CWSNP3540	Ca-Kabuli-Chr4	36831267	[A/C]	Ca14805	Synonymous-CDS	-
CWSNP3541	Ca-Kabuli-Chr4	36955706	[G/T]	Ca14797	Non-Synonymous-CDS	Zinc finger,C2H2-type
CWSNP3542	Ca-Kabuli-Chr4	36977192	[C/T]	-	Intergenic	-
CWSNP3543	Ca-Kabuli-Chr4	36977194	[G/A]	-	Intergenic	-
CWSNP3544	Ca-Kabuli-Chr4	36979926	[G/T]	-	Intergenic	-
CWSNP3545	Ca-Kabuli-Chr4	36979879	[C/T]	-	Intergenic	-
CWSNP3546	Ca-Kabuli-Chr4	36984727	[C/G]	Ca14795	Intron	SNF2-related
CWSNP3547	Ca-Kabuli-Chr4	36984795	[T/A]	Ca14795	Intron	SNF2-related
CWSNP3548	Ca-Kabuli-Chr4	36998201	[A/C]	-	Intergenic	-
CWSNP3549	Ca-Kabuli-Chr4	37064588	[A/G]	-	Intergenic	-
CWSNP3550	Ca-Kabuli-Chr4	37064630	[G/A]	-	Intergenic	-
CWSNP3551	Ca-Kabuli-Chr4	37185576	[T/A]	Ca15153	Intron	RNA-dependent RNA polymerase,eukaryotic-type
CWSNP3552	Ca-Kabuli-Chr4	37185577	[T/A]	Ca15153	Intron	RNA-dependent RNA polymerase,eukaryotic-type

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP3553	Ca-Kabuli-Chr4	37185578	[T/A]	Ca15153	Intron	RNA-dependent RNA polymerase,eukaryotic-type
CWSNP3554	Ca-Kabuli-Chr4	37237211	[G/A]	-	Intergenic	-
CWSNP3555	Ca-Kabuli-Chr4	37237276	[T/C]	-	Intergenic	-
CWSNP3556	Ca-Kabuli-Chr4	37241235	[A/G]	Ca15151	Synonymous-CDS	Signal transduction response regulator,receiver domain
CWSNP3557	Ca-Kabuli-Chr4	37241262	[G/A]	Ca15151	Synonymous-CDS	Signal transduction response regulator,receiver domain
CWSNP3558	Ca-Kabuli-Chr4	37260873	[A/G]	Ca15149	Synonymous-CDS	Dynamin central domain
CWSNP3559	Ca-Kabuli-Chr4	37260841	[T/A]	Ca15149	Intron	Dynamin central domain
CWSNP3560	Ca-Kabuli-Chr4	37264628	[G/A]	Ca15149	Intron	Dynamin central domain
CWSNP3561	Ca-Kabuli-Chr4	37286591	[T/A]	Ca15147	Intron	-
CWSNP3562	Ca-Kabuli-Chr4	37286625	[C/A]	Ca15147	Intron	-
CWSNP3563	Ca-Kabuli-Chr4	37286632	[G/A]	Ca15147	Intron	-
CWSNP3564	Ca-Kabuli-Chr4	37286663	[A/G]	Ca15147	Intron	-
CWSNP3565	Ca-Kabuli-Chr4	37293752	[G/A]	-	Intergenic	-
CWSNP3566	Ca-Kabuli-Chr4	37293780	[T/A]	-	Intergenic	-
CWSNP3567	Ca-Kabuli-Chr4	37293773	[A/T]	-	Intergenic	-
CWSNP3568	Ca-Kabuli-Chr4	37293769	[C/A]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP3569	Ca-Kabuli-Chr4	37294720	[A/G]	-	Intergenic	-
CWSNP3570	Ca-Kabuli-Chr4	37316574	[T/A]	Ca15144	Synonymous-CDS	Zinc finger,RING-type
CWSNP3571	Ca-Kabuli-Chr4	37316748	[T/A]	Ca15144	Synonymous-CDS	Zinc finger,RING-type
CWSNP3572	Ca-Kabuli-Chr4	37316738	[C/T]	Ca15144	Non-Synonymous-CDS	Zinc finger,RING-type
CWSNP3573	Ca-Kabuli-Chr4	37316713	[A/T]	Ca15144	Non-Synonymous-CDS	Zinc finger,RING-type
CWSNP3574	Ca-Kabuli-Chr4	37316700	[C/A]	Ca15144	Non-Synonymous-CDS	Zinc finger,RING-type
CWSNP3575	Ca-Kabuli-Chr4	37349071	[T/C]	Ca15141	Intron	MethyltransferaseTRM13
CWSNP3576	Ca-Kabuli-Chr4	37349212	[A/C]	Ca15141	Synonymous-CDS	MethyltransferaseTRM13
CWSNP3577	Ca-Kabuli-Chr4	37349239	[C/G]	Ca15141	Intron	MethyltransferaseTRM13
CWSNP3578	Ca-Kabuli-Chr4	37349304	[T/C]	Ca15141	Intron	MethyltransferaseTRM13
CWSNP3579	Ca-Kabuli-Chr4	37349331	[C/T]	Ca15141	Intron	MethyltransferaseTRM13
CWSNP3580	Ca-Kabuli-Chr4	37349321	[T/C]	Ca15141	Intron	MethyltransferaseTRM13
CWSNP3581	Ca-Kabuli-Chr4	37356865	[C/A]	Ca15140	Synonymous-CDS	HEAT
CWSNP3582	Ca-Kabuli-Chr4	37356889	[C/T]	Ca15140	Intron	HEAT
CWSNP3583	Ca-Kabuli-Chr4	37356892	[C/T]	Ca15140	Intron	HEAT
CWSNP3584	Ca-Kabuli-Chr4	37356919	[A/T]	Ca15140	Intron	HEAT

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP3585	Ca-Kabuli-Chr4	37356951	[C/T]	Ca15140	Intron	HEAT
CWSNP3586	Ca-Kabuli-Chr4	37364980	[G/A]	Ca15140	Synonymous-CDS	HEAT
CWSNP3587	Ca-Kabuli-Chr4	37371262	[G/A]	Ca15139	Synonymous-CDS	Ankyrin repeat
CWSNP3588	Ca-Kabuli-Chr4	37371263	[G/A]	Ca15139	Non-Synonymous-CDS	Ankyrin repeat
CWSNP3589	Ca-Kabuli-Chr4	37433459	[G/T]	-	Intergenic	-
CWSNP3590	Ca-Kabuli-Chr4	37450206	[A/C]	Ca15131	Synonymous-CDS	Oxoglutarate/iron-dependent oxygenase
CWSNP3591	Ca-Kabuli-Chr4	37450326	[A/T]	Ca15131	Synonymous-CDS	Oxoglutarate/iron-dependent oxygenase
CWSNP3592	Ca-Kabuli-Chr4	37450294	[T/C]	Ca15131	Synonymous-CDS	Oxoglutarate/iron-dependent oxygenase
CWSNP3593	Ca-Kabuli-Chr4	37453497	[C/G]	-	URR	-
CWSNP3594	Ca-Kabuli-Chr4	37453449	[A/G]	-	URR	-
CWSNP3595	Ca-Kabuli-Chr4	37453590	[C/A]	-	URR	-
CWSNP3596	Ca-Kabuli-Chr4	37453586	[C/A]	-	URR	-
CWSNP3597	Ca-Kabuli-Chr4	37454296	[A/G]	-	URR	-
CWSNP3598	Ca-Kabuli-Chr4	37492422	[C/A]	-	Intergenic	-
CWSNP3599	Ca-Kabuli-Chr4	37549883	[T/C]	Ca15125	Intron	Mediator complex subunit Med23
CWSNP3600	Ca-Kabuli-Chr4	37549871	[A/T]	Ca15125	Intron	Mediator complex subunit Med23

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP3601	Ca-Kabuli-Chr4	37550122	[G/A]	Ca15125	Intron	Mediator complex subunit Med23
CWSNP3602	Ca-Kabuli-Chr4	37552973	[C/T]	Ca15125	Intron	Mediator complex subunit Med23
CWSNP3603	Ca-Kabuli-Chr4	37558880	[C/T]	Ca15125	Intron	Mediator complex subunit Med23
CWSNP3604	Ca-Kabuli-Chr4	37558881	[G/T]	Ca15125	Intron	Mediator complex subunit Med23
CWSNP3605	Ca-Kabuli-Chr4	37575636	[T/C]	Ca15125	Intron	Mediator complex subunit Med23
CWSNP3606	Ca-Kabuli-Chr4	37575670	[C/T]	Ca15125	Intron	Mediator complex subunit Med23
CWSNP3607	Ca-Kabuli-Chr4	37575709	[C/T]	Ca15125	Intron	Mediator complex subunit Med23
CWSNP3608	Ca-Kabuli-Chr4	37612154	[A/G]	Ca15121	Synonymous-CDS	Glycosidehydrolase,family17
CWSNP3609	Ca-Kabuli-Chr4	37630404	[A/G]	-	DRR	-
CWSNP3610	Ca-Kabuli-Chr4	37630445	[A/G]	-	DRR	-
CWSNP3611	Ca-Kabuli-Chr4	37630527	[G/A]	-	DRR	-
CWSNP3612	Ca-Kabuli-Chr4	37630520	[G/C]	-	DRR	-
CWSNP3613	Ca-Kabuli-Chr4	37635300	[T/A]	-	Intergenic	-
CWSNP3614	Ca-Kabuli-Chr4	37685824	[T/C]	Ca15113	Synonymous-CDS	Armadillo
CWSNP3615	Ca-Kabuli-Chr4	37685842	[T/G]	Ca15113	Synonymous-CDS	Armadillo
CWSNP3616	Ca-Kabuli-Chr4	37699176	[G/A]	Ca15111	Synonymous-CDS	ATP-graspfold

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP3617	Ca-Kabuli-Chr4	37699141	[T/G]	Ca15111	Synonymous-CDS	ATP-grasfold
CWSNP3618	Ca-Kabuli-Chr4	37699140	[C/T]	Ca15111	Synonymous-CDS	ATP-grasfold
CWSNP3619	Ca-Kabuli-Chr4	37703653	[A/C]	-	Intergenic	-
CWSNP3620	Ca-Kabuli-Chr4	37703649	[A/C]	-	Intergenic	-
CWSNP3621	Ca-Kabuli-Chr4	37708260	[A/G]	-	DRR	-
CWSNP3622	Ca-Kabuli-Chr4	37708348	[T/G]	-	DRR	-
CWSNP3623	Ca-Kabuli-Chr4	37708334	[T/A]	-	DRR	-
CWSNP3624	Ca-Kabuli-Chr4	37753479	[C/T]	Ca15104	Intron	-
CWSNP3625	Ca-Kabuli-Chr4	37806689	[T/C]	-	DRR	-
CWSNP3626	Ca-Kabuli-Chr4	37812917	[G/C]	-	Intergenic	-
CWSNP3627	Ca-Kabuli-Chr4	37859069	[T/G]	Ca15089	Synonymous-CDS	Auxin efflux carrier
CWSNP3628	Ca-Kabuli-Chr4	37897261	[G/T]	-	Intergenic	-
CWSNP3629	Ca-Kabuli-Chr4	37897266	[A/T]	-	Intergenic	-
CWSNP3630	Ca-Kabuli-Chr4	37897351	[C/A]	-	Intergenic	-
CWSNP3631	Ca-Kabuli-Chr4	37898404	[A/G]	-	Intergenic	-
CWSNP3632	Ca-Kabuli-Chr4	37901584	[C/T]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP3633	Ca-Kabuli-Chr4	38008062	[T/A]	-	DRR	-
CWSNP3634	Ca-Kabuli-Chr4	38008082	[T/C]	-	DRR	-
CWSNP3635	Ca-Kabuli-Chr4	38008243	[C/T]	-	DRR	-
CWSNP3636	Ca-Kabuli-Chr4	38008227	[G/T]	-	DRR	-
CWSNP3637	Ca-Kabuli-Chr4	38008213	[C/T]	-	DRR	-
CWSNP3638	Ca-Kabuli-Chr4	38008205	[A/G]	-	DRR	-
CWSNP3639	Ca-Kabuli-Chr4	38008204	[G/A]	-	DRR	-
CWSNP3640	Ca-Kabuli-Chr4	38008186	[A/C]	-	DRR	-
CWSNP3641	Ca-Kabuli-Chr4	38008174	[A/G]	-	DRR	-
CWSNP3642	Ca-Kabuli-Chr4	38029136	[G/T]	Ca13142	Non-Synonymous-CDS	ChaperoninTCP-1, conserved site
CWSNP3643	Ca-Kabuli-Chr4	38038865	[C/T]	Ca13141	Non-Synonymous-CDS	Protein of unknown function DUF3326
CWSNP3644	Ca-Kabuli-Chr4	38038959	[A/G]	Ca13141	Intron	Protein of unknown function DUF3326
CWSNP3645	Ca-Kabuli-Chr4	38039037	[T/C]	Ca13141	Intron	Protein of unknown function DUF3326
CWSNP3646	Ca-Kabuli-Chr4	38039046	[C/T]	Ca13141	Intron	Protein of unknown function DUF3326
CWSNP3647	Ca-Kabuli-Chr4	38039076	[A/G]	Ca13141	Intron	Protein of unknown function DUF3326
CWSNP3648	Ca-Kabuli-Chr4	38039088	[T/C]	Ca13141	Intron	Protein of unknown function DUF3326

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP3649	Ca-Kabuli-Chr4	38039251	[G/C]	Ca13141	Intron	Protein of unknown function DUF3326
CWSNP3650	Ca-Kabuli-Chr4	38039289	[G/A]	Ca13141	Intron	Protein of unknown function DUF3326
CWSNP3651	Ca-Kabuli-Chr4	38039297	[C/T]	Ca13141	Non-Synonymous-CDS	Protein of unknown function DUF3326
CWSNP3652	Ca-Kabuli-Chr4	38153183	[C/A]	Ca13138	Synonymous-CDS	Tetrahydrofolate dehydrogenase/cyclohydrolase
CWSNP3653	Ca-Kabuli-Chr4	38153195	[T/C]	Ca13138	Synonymous-CDS	Tetrahydrofolate dehydrogenase/cyclohydrolase
CWSNP3654	Ca-Kabuli-Chr4	38153216	[T/C]	Ca13138	Synonymous-CDS	Tetrahydrofolate dehydrogenase/cyclohydrolase
CWSNP3655	Ca-Kabuli-Chr4	38153277	[A/G]	Ca13138	Intron	Tetrahydrofolate dehydrogenase/cyclohydrolase
CWSNP3656	Ca-Kabuli-Chr4	38153275	[C/A]	Ca13138	Intron	Tetrahydrofolate dehydrogenase/cyclohydrolase
CWSNP3657	Ca-Kabuli-Chr4	38179583	[A/C]	-	Intergenic	-
CWSNP3658	Ca-Kabuli-Chr4	38179614	[G/C]	-	Intergenic	-
CWSNP3659	Ca-Kabuli-Chr4	38181292	[G/A]	Ca13135	Non-Synonymous-CDS	-
CWSNP3660	Ca-Kabuli-Chr4	38195411	[T/A]	Ca13134	Non-Synonymous-CDS	Domain of unknown function DUF250
CWSNP3661	Ca-Kabuli-Chr4	38195438	[C/T]	Ca13134	Non-Synonymous-CDS	Domain of unknown function DUF250
CWSNP3662	Ca-Kabuli-Chr4	38215267	[G/A]	Ca13132	Intron	AMP-dependent synthetase/ligase
CWSNP3663	Ca-Kabuli-Chr4	38221009	[A/G]	Ca13131	Synonymous-CDS	Lipase,GDSL
CWSNP3664	Ca-Kabuli-Chr4	38288823	[G/T]	Ca13128	Synonymous-CDS	Protein of unknown function DUF869,plant

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP3665	Ca-Kabuli-Chr4	38288877	[C/G]	Ca13128	Non-Synonymous-CDS	Protein of unknown function DUF869,plant
CWSNP3666	Ca-Kabuli-Chr4	38289066	[G/A]	Ca13128	Synonymous-CDS	Protein of unknown function DUF869,plant
CWSNP3667	Ca-Kabuli-Chr4	38289052	[G/A]	Ca13128	Synonymous-CDS	Protein of unknown function DUF869,plant
CWSNP3668	Ca-Kabuli-Chr4	38288997	[T/A]	Ca13128	Synonymous-CDS	Protein of unknown function DUF869,plant
CWSNP3669	Ca-Kabuli-Chr4	38343633	[A/T]	-	Intergenic	-
CWSNP3670	Ca-Kabuli-Chr4	38343750	[C/T]	-	Intergenic	-
CWSNP3671	Ca-Kabuli-Chr4	38343687	[C/T]	-	Intergenic	-
CWSNP3672	Ca-Kabuli-Chr4	38358067	[A/G]	Ca13120	Non-Synonymous-CDS	C2 calcium-dependent membrane targeting
CWSNP3673	Ca-Kabuli-Chr4	38358398	[A/G]	Ca13120	Synonymous-CDS	C2 calcium-dependent membrane targeting
CWSNP3674	Ca-Kabuli-Chr4	38358677	[G/A]	Ca13120	Synonymous-CDS	C2 calcium-dependent membrane targeting
CWSNP3675	Ca-Kabuli-Chr4	38358887	[G/A]	Ca13120	Synonymous-CDS	C2 calcium-dependent membrane targeting
CWSNP3676	Ca-Kabuli-Chr4	38362132	[T/A]	Ca13120	Synonymous-CDS	C2 calcium-dependent membrane targeting
CWSNP3677	Ca-Kabuli-Chr4	38370848	[A/G]	-	DRR	-
CWSNP3678	Ca-Kabuli-Chr4	38370864	[G/A]	-	DRR	-
CWSNP3679	Ca-Kabuli-Chr4	38370941	[A/G]	-	DRR	-
CWSNP3680	Ca-Kabuli-Chr4	38370926	[T/C]	-	DRR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP3681	Ca-Kabuli-Chr4	38370925	[G/A]	-	DRR	-
CWSNP3682	Ca-Kabuli-Chr4	38370921	[T/G]	-	DRR	-
CWSNP3683	Ca-Kabuli-Chr4	38382890	[C/G]	Ca13119	Synonymous-CDS	Amino acid transporter,transmembrane
CWSNP3684	Ca-Kabuli-Chr4	38421798	[A/C]	Ca13115	Intron	Zinc finger,CCCH-type
CWSNP3685	Ca-Kabuli-Chr4	38422037	[C/T]	Ca13115	Intron	Zinc finger,CCCH-type
CWSNP3686	Ca-Kabuli-Chr4	38425675	[A/G]	Ca13115	Synonymous-CDS	Zinc finger,CCCH-type
CWSNP3687	Ca-Kabuli-Chr4	38425720	[T/A]	Ca13115	Non-Synonymous-CDS	Zinc finger,CCCH-type
CWSNP3688	Ca-Kabuli-Chr4	38473653	[T/C]	Ca13112	Intron	-
CWSNP3689	Ca-Kabuli-Chr4	38474123	[A/T]	Ca13112	Intron	-
CWSNP3690	Ca-Kabuli-Chr4	38474108	[T/C]	Ca13112	Intron	-
CWSNP3691	Ca-Kabuli-Chr4	38474192	[T/C]	Ca13112	Intron	-
CWSNP3692	Ca-Kabuli-Chr4	38475310	[A/C]	Ca13112	Intron	-
CWSNP3693	Ca-Kabuli-Chr4	38475425	[A/G]	Ca13112	Intron	-
CWSNP3694	Ca-Kabuli-Chr4	38475449	[T/A]	Ca13112	Intron	-
CWSNP3695	Ca-Kabuli-Chr4	38475442	[A/G]	Ca13112	Intron	-
CWSNP3696	Ca-Kabuli-Chr4	38475424	[C/G]	Ca13112	Intron	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP3697	Ca-Kabuli-Chr4	38475547	[C/T]	Ca13112	Intron	-
CWSNP3698	Ca-Kabuli-Chr4	38540201	[C/T]	-	DRR	-
CWSNP3699	Ca-Kabuli-Chr4	38540247	[G/A]	-	DRR	-
CWSNP3700	Ca-Kabuli-Chr4	38620579	[C/T]	-	Intergenic	-
CWSNP3701	Ca-Kabuli-Chr4	38620620	[A/T]	-	Intergenic	-
CWSNP3702	Ca-Kabuli-Chr4	38659377	[T/C]	-	DRR	-
CWSNP3703	Ca-Kabuli-Chr4	38659398	[G/A]	-	DRR	-
CWSNP3704	Ca-Kabuli-Chr4	38659534	[T/A]	-	DRR	-
CWSNP3705	Ca-Kabuli-Chr4	38679987	[A/G]	Ca13099	Intron	LIMbinding protein
CWSNP3706	Ca-Kabuli-Chr4	38721154	[A/G]	Ca13098	Intron	Exostosin-like
CWSNP3707	Ca-Kabuli-Chr4	38721160	[A/G]	Ca13098	Intron	Exostosin-like
CWSNP3708	Ca-Kabuli-Chr4	38721207	[A/C]	Ca13098	Intron	Exostosin-like
CWSNP3709	Ca-Kabuli-Chr4	38756507	[T/C]	Ca13097	Non-Synonymous-CDS	Auxin efflux carrier
CWSNP3710	Ca-Kabuli-Chr4	38756510	[C/G]	Ca13097	Non-Synonymous-CDS	Auxin efflux carrier
CWSNP3711	Ca-Kabuli-Chr4	38759640	[A/C]	Ca13097	Intron	Auxin efflux carrier
CWSNP3712	Ca-Kabuli-Chr4	38770348	[T/A]	Ca13096	Non-Synonymous-CDS	Fattyacid desaturase, type2

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP3713	Ca-Kabuli-Chr4	38770370	[G/C]	Ca13096	Non-Synonymous-CDS	Fattyacid desaturase, type2
CWSNP3714	Ca-Kabuli-Chr4	38770450	[C/G]	Ca13096	Synonymous-CDS	Fattyacid desaturase, type2
CWSNP3715	Ca-Kabuli-Chr4	38770510	[G/A]	Ca13096	Synonymous-CDS	Fattyacid desaturase, type2
CWSNP3716	Ca-Kabuli-Chr4	38770606	[G/A]	Ca13096	Synonymous-CDS	Fattyacid desaturase, type2
CWSNP3717	Ca-Kabuli-Chr4	38770582	[G/A]	Ca13096	Synonymous-CDS	Fattyacid desaturase, type2
CWSNP3718	Ca-Kabuli-Chr4	38785535	[G/A]	-	URR	-
CWSNP3719	Ca-Kabuli-Chr4	38829959	[T/G]	-	Intergenic	-
CWSNP3720	Ca-Kabuli-Chr4	38833304	[C/A]	-	Intergenic	-
CWSNP3721	Ca-Kabuli-Chr4	38833280	[C/T]	-	Intergenic	-
CWSNP3722	Ca-Kabuli-Chr4	38833333	[A/C]	-	Intergenic	-
CWSNP3723	Ca-Kabuli-Chr4	38834383	[G/A]	-	DRR	-
CWSNP3724	Ca-Kabuli-Chr4	38834405	[G/A]	-	DRR	-
CWSNP3725	Ca-Kabuli-Chr4	38834423	[G/C]	-	DRR	-
CWSNP3726	Ca-Kabuli-Chr4	38834431	[G/A]	-	DRR	-
CWSNP3727	Ca-Kabuli-Chr4	38834477	[A/G]	-	DRR	-
CWSNP3728	Ca-Kabuli-Chr4	38834474	[G/A]	-	DRR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP3729	Ca-Kabuli-Chr4	38888779	[C/T]	Ca13087	Synonymous-CDS	Protein kinase, catalytic domain
CWSNP3730	Ca-Kabuli-Chr4	38888791	[G/C]	Ca13087	Synonymous-CDS	Protein kinase, catalytic domain
CWSNP3731	Ca-Kabuli-Chr4	38889023	[C/T]	Ca13087	Non-Synonymous-CDS	Protein kinase, catalytic domain
CWSNP3732	Ca-Kabuli-Chr4	38918394	[A/T]	Ca13086	Synonymous-CDS	General substrate transporter
CWSNP3733	Ca-Kabuli-Chr4	38918424	[G/A]	Ca13086	Synonymous-CDS	General substrate transporter
CWSNP3734	Ca-Kabuli-Chr4	38918430	[C/A]	Ca13086	Synonymous-CDS	General substrate transporter
CWSNP3735	Ca-Kabuli-Chr4	38918628	[C/T]	Ca13086	Synonymous-CDS	General substrate transporter
CWSNP3736	Ca-Kabuli-Chr4	38918547	[T/C]	Ca13086	Synonymous-CDS	General substrate transporter
CWSNP3737	Ca-Kabuli-Chr4	38918649	[G/C]	Ca13086	Synonymous-CDS	General substrate transporter
CWSNP3738	Ca-Kabuli-Chr4	38929681	[A/G]	Ca13085	Synonymous-CDS	-
CWSNP3739	Ca-Kabuli-Chr4	38948414	[C/A]	Ca13084	Non-Synonymous-CDS	Pathogenesis-related transcriptional factor/ERF
CWSNP3740	Ca-Kabuli-Chr4	38961521	[G/A]	Ca13083	Intron	Ubiquitin-conjugating enzyme,E2
CWSNP3741	Ca-Kabuli-Chr4	38978462	[A/G]	Ca13081	Synonymous-CDS	Folypolyglutamate synthetase
CWSNP3742	Ca-Kabuli-Chr4	39031801	[C/T]	Ca13078	Non-Synonymous-CDS	RNA recognition motif domain
CWSNP3743	Ca-Kabuli-Chr4	39031823	[G/A]	Ca13078	Synonymous-CDS	RNA recognition motif domain
CWSNP3744	Ca-Kabuli-Chr4	39042938	[T/G]	Ca13077	Intron	PeptidaseM41

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP3745	Ca-Kabuli-Chr4	39042921	[T/C]	Ca13077	Intron	PeptidaseM41
CWSNP3746	Ca-Kabuli-Chr4	39057991	[T/C]	-	URR	-
CWSNP3747	Ca-Kabuli-Chr4	39058011	[G/C]	-	URR	-
CWSNP3748	Ca-Kabuli-Chr4	39081951	[A/G]	Ca13074	Intron	Cyclicnucleotide-binding domain
CWSNP3749	Ca-Kabuli-Chr4	39113327	[G/A]	-	DRR	-
CWSNP3750	Ca-Kabuli-Chr4	39113330	[G/A]	-	DRR	-
CWSNP3751	Ca-Kabuli-Chr4	39113401	[A/T]	-	DRR	-
CWSNP3752	Ca-Kabuli-Chr4	39136826	[C/T]	-	Intergenic	-
CWSNP3753	Ca-Kabuli-Chr4	39306900	[G/A]	-	Intergenic	-
CWSNP3754	Ca-Kabuli-Chr4	39635746	[T/A]	-	Intergenic	-
CWSNP3755	Ca-Kabuli-Chr4	39635721	[A/G]	-	Intergenic	-
CWSNP3756	Ca-Kabuli-Chr4	39635720	[G/A]	-	Intergenic	-
CWSNP3757	Ca-Kabuli-Chr4	39635718	[C/T]	-	Intergenic	-
CWSNP3758	Ca-Kabuli-Chr4	39650872	[T/C]	-	Intergenic	-
CWSNP3759	Ca-Kabuli-Chr4	39659757	[C/T]	-	Intergenic	-
CWSNP3760	Ca-Kabuli-Chr4	39659750	[G/A]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP3761	Ca-Kabuli-Chr4	39715087	[A/G]	Ca14929	Synonymous-CDS	Glutamine amidotransferase,class-II
CWSNP3762	Ca-Kabuli-Chr4	39719606	[C/G]	Ca14929	Synonymous-CDS	Glutamine amidotransferase,class-II
CWSNP3763	Ca-Kabuli-Chr4	39719747	[G/T]	Ca14929	Synonymous-CDS	Glutamine amidotransferase,class-II
CWSNP3764	Ca-Kabuli-Chr4	39803305	[T/C]	Ca14925	Synonymous-CDS	SANT domain, DNA binding
CWSNP3765	Ca-Kabuli-Chr4	39964930	[T/C]	Ca14914	Synonymous-CDS	Exostosin-like
CWSNP3766	Ca-Kabuli-Chr4	40010119	[A/C]	Ca14911	Non-Synonymous-CDS	Pathogenesis-related transcriptional factor/ERF, DNA-binding
CWSNP3767	Ca-Kabuli-Chr4	40010201	[A/G]	Ca14911	Synonymous-CDS	Pathogenesis-related transcriptional factor/ERF, DNA-binding
CWSNP3768	Ca-Kabuli-Chr4	40010177	[G/A]	Ca14911	Synonymous-CDS	Pathogenesis-related transcriptional factor/ERF, DNA-binding
CWSNP3769	Ca-Kabuli-Chr4	40010165	[A/C]	Ca14911	Non-Synonymous-CDS	Pathogenesis-related transcriptional factor/ERF, DNA-binding
CWSNP3770	Ca-Kabuli-Chr4	40060063	[T/G]	Ca14910	Synonymous-CDS	Nuclearpore complex protein,Nucleoporin Nup85-like
CWSNP3771	Ca-Kabuli-Chr4	40061195	[T/C]	Ca14910	Intron	Nuclearpore complex protein,Nucleoporin Nup85-like
CWSNP3772	Ca-Kabuli-Chr4	40061262	[A/C]	Ca14910	Intron	Nuclearpore complex protein,Nucleoporin Nup85-like
CWSNP3773	Ca-Kabuli-Chr4	40065505	[T/A]	Ca14910	Intron	Nuclearpore complex protein,Nucleoporin Nup85-like
CWSNP3774	Ca-Kabuli-Chr4	40134460	[A/G]	Ca14906	Intron	Exoribonuclease,phosphorolyticdomain1
CWSNP3775	Ca-Kabuli-Chr4	40134518	[T/C]	Ca14906	Intron	Exoribonuclease,phosphorolyticdomain1
CWSNP3776	Ca-Kabuli-Chr4	40149132	[G/C]	Ca14905	Intron	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP3777	Ca-Kabuli-Chr4	40149324	[G/C]	Ca14905	Intron	-
CWSNP3778	Ca-Kabuli-Chr4	40169176	[T/G]	-	URR	-
CWSNP3779	Ca-Kabuli-Chr4	40185606	[A/G]	Ca14901	Non-Synonymous-CDS	Amino acid transporter,transmembrane
CWSNP3780	Ca-Kabuli-Chr4	40199692	[A/C]	Ca14900	Intron	Cofprotein
CWSNP3781	Ca-Kabuli-Chr4	40218375	[G/T]	-	URR	-
CWSNP3782	Ca-Kabuli-Chr4	40218410	[G/A]	-	URR	-
CWSNP3783	Ca-Kabuli-Chr4	40267713	[G/T]	-	Intergenic	-
CWSNP3784	Ca-Kabuli-Chr4	40267719	[G/A]	-	Intergenic	-
CWSNP3785	Ca-Kabuli-Chr4	40279513	[G/T]	-	Intergenic	-
CWSNP3786	Ca-Kabuli-Chr4	40313721	[A/G]	-	Intergenic	-
CWSNP3787	Ca-Kabuli-Chr4	40349170	[C/T]	-	Intergenic	-
CWSNP3788	Ca-Kabuli-Chr4	40368278	[T/C]	-	URR	-
CWSNP3789	Ca-Kabuli-Chr4	40368765	[G/A]	-	URR	-
CWSNP3790	Ca-Kabuli-Chr4	40375386	[C/T]	-	URR	-
CWSNP3791	Ca-Kabuli-Chr4	40375361	[A/G]	-	URR	-
CWSNP3792	Ca-Kabuli-Chr4	40429387	[G/A]	-	DRR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP3793	Ca-Kabuli-Chr4	40471412	[G/C]	-	Intergenic	-
CWSNP3794	Ca-Kabuli-Chr4	40472097	[A/G]	-	Intergenic	-
CWSNP3795	Ca-Kabuli-Chr4	40513733	[C/T]	Ca14874	Synonymous-CDS	IQ motif, EF-hand binding site
CWSNP3796	Ca-Kabuli-Chr4	40583205	[G/T]	Ca14868	Non-Synonymous-CDS	Zinc finger,RING-type
CWSNP3797	Ca-Kabuli-Chr4	40583206	[A/T]	Ca14868	Non-Synonymous-CDS	Zinc finger,RING-type
CWSNP3798	Ca-Kabuli-Chr4	40583211	[G/T]	Ca14868	Non-Synonymous-CDS	Zinc finger,RING-type
CWSNP3799	Ca-Kabuli-Chr4	40583214	[G/A]	Ca14868	Non-Synonymous-CDS	Zinc finger,RING-type
CWSNP3800	Ca-Kabuli-Chr4	40583216	[C/A]	Ca14868	Non-Synonymous-CDS	Zinc finger,RING-type
CWSNP3801	Ca-Kabuli-Chr4	40583217	[G/A]	Ca14868	Non-Synonymous-CDS	Zinc finger,RING-type
CWSNP3802	Ca-Kabuli-Chr4	40583219	[G/A]	Ca14868	Synonymous-CDS	Zinc finger,RING-type
CWSNP3803	Ca-Kabuli-Chr4	40597192	[G/A]	-	DRR	-
CWSNP3804	Ca-Kabuli-Chr4	40597534	[A/G]	-	DRR	-
CWSNP3805	Ca-Kabuli-Chr4	40597464	[G/A]	-	DRR	-
CWSNP3806	Ca-Kabuli-Chr4	40723208	[C/G]	-	DRR	-
CWSNP3807	Ca-Kabuli-Chr4	40723212	[G/A]	-	DRR	-
CWSNP3808	Ca-Kabuli-Chr4	40734572	[T/G]	Ca23909	Intron	PeptidaseS54,rhomboid

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP3809	Ca-Kabuli-Chr4	40734765	[G/A]	Ca23909	Synonymous-CDS	PeptidaseS54,rhomboid
CWSNP3810	Ca-Kabuli-Chr4	40738927	[C/T]	Ca23908	Synonymous-CDS	Pentatrico peptide repeat
CWSNP3811	Ca-Kabuli-Chr4	40795060	[G/A]	-	Intergenic	-
CWSNP3812	Ca-Kabuli-Chr4	40795085	[C/G]	-	Intergenic	-
CWSNP3813	Ca-Kabuli-Chr4	40801783	[T/C]	Ca23902	Synonymous-CDS	DNA-directed DNA polymerase, family A, palm domain
CWSNP3814	Ca-Kabuli-Chr4	40801791	[C/G]	Ca23902	Non-Synonymous-CDS	DNA-directed DNA polymerase, family A, palm domain
CWSNP3815	Ca-Kabuli-Chr4	40805740	[C/A]	Ca23902	Synonymous-CDS	DNA-directed DNA polymerase, family A, palm domain
CWSNP3816	Ca-Kabuli-Chr4	40806993	[A/G]	Ca23902	Synonymous-CDS	DNA-directed DNA polymerase, family A, palm domain
CWSNP3817	Ca-Kabuli-Chr4	40839967	[G/A]	-	DRR	-
CWSNP3818	Ca-Kabuli-Chr4	40839949	[G/A]	-	DRR	-
CWSNP3819	Ca-Kabuli-Chr4	40852381	[A/C]	Ca23897	Synonymous-CDS	Globin, truncated bacterial-like
CWSNP3820	Ca-Kabuli-Chr4	40852475	[T/C]	Ca23897	Intron	Globin, truncated bacterial-like
CWSNP3821	Ca-Kabuli-Chr4	40912677	[A/G]	-	Intergenic	-
CWSNP3822	Ca-Kabuli-Chr4	40912681	[A/G]	-	Intergenic	-
CWSNP3823	Ca-Kabuli-Chr4	40912714	[C/G]	-	Intergenic	-
CWSNP3824	Ca-Kabuli-Chr4	40912731	[C/T]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP3825	Ca-Kabuli-Chr4	40917776	[C/A]	-	URR	-
CWSNP3826	Ca-Kabuli-Chr4	40917777	[T/A]	-	URR	-
CWSNP3827	Ca-Kabuli-Chr4	40917807	[C/T]	-	URR	-
CWSNP3828	Ca-Kabuli-Chr4	40941283	[A/G]	Ca11014	Synonymous-CDS	Proteasome component (PCI) domain
CWSNP3829	Ca-Kabuli-Chr4	41032564	[A/G]	Ca11007	Intron	GHMP kinase
CWSNP3830	Ca-Kabuli-Chr4	41032590	[C/A]	Ca11007	Intron	GHMP kinase
CWSNP3831	Ca-Kabuli-Chr4	41032599	[T/C]	Ca11007	Intron	GHMP kinase
CWSNP3832	Ca-Kabuli-Chr4	41094082	[T/C]	Ca10999	Non-Synonymous-CDS	Protein kinase, catalytic domain
CWSNP3833	Ca-Kabuli-Chr4	41094554	[A/C]	Ca10999	Intron	Protein kinase, catalytic domain
CWSNP3834	Ca-Kabuli-Chr4	41117822	[C/A]	Ca10997	Intron	DNA topoisomerase, type I A
CWSNP3835	Ca-Kabuli-Chr4	41141086	[G/T]	Ca10994	Non-Synonymous-CDS	-
CWSNP3836	Ca-Kabuli-Chr4	41142299	[T/C]	Ca10994	Synonymous-CDS	-
CWSNP3837	Ca-Kabuli-Chr4	41142290	[A/G]	Ca10994	Synonymous-CDS	-
CWSNP3838	Ca-Kabuli-Chr4	41142288	[T/C]	Ca10994	Non-Synonymous-CDS	-
CWSNP3839	Ca-Kabuli-Chr4	41144277	[T/A]	Ca10994	Non-Synonymous-CDS	-
CWSNP3840	Ca-Kabuli-Chr4	41145767	[C/T]	Ca10994	Synonymous-CDS	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP3841	Ca-Kabuli-Chr4	41145875	[G/A]	Ca10994	Synonymous-CDS	-
CWSNP3842	Ca-Kabuli-Chr4	41207356	[C/T]	Ca10990	Intron	Cystathioninebeta-synthase,core
CWSNP3843	Ca-Kabuli-Chr4	41207354	[A/C]	Ca10990	Intron	Cystathioninebeta-synthase,core
CWSNP3844	Ca-Kabuli-Chr4	41209711	[C/A]	Ca10990	Intron	Cystathioninebeta-synthase,core
CWSNP3845	Ca-Kabuli-Chr4	41215850	[A/C]	-	DRR	-
CWSNP3846	Ca-Kabuli-Chr4	41229605	[C/T]	-	DRR	-
CWSNP3847	Ca-Kabuli-Chr4	41292152	[T/C]	Ca10980	Non-Synonymous-CDS	ATPase ,P-type, H+transporting proton pump
CWSNP3848	Ca-Kabuli-Chr4	41427086	[C/A]	-	Intergenic	-
CWSNP3849	Ca-Kabuli-Chr4	41445225	[A/T]	Ca10963	Intron	Peptidase C19,ubiquitin carboxyl-terminalhydrolase 2
CWSNP3850	Ca-Kabuli-Chr4	41512840	[G/A]	Ca10956	Intron	Skb1methyltransferase
CWSNP3851	Ca-Kabuli-Chr4	41568682	[A/C]	-	Intergenic	-
CWSNP3852	Ca-Kabuli-Chr4	41629852	[T/A]	-	DRR	-
CWSNP3853	Ca-Kabuli-Chr4	41648927	[C/T]	Ca10946	Synonymous-CDS	-
CWSNP3854	Ca-Kabuli-Chr4	41648998	[A/G]	Ca10946	Synonymous-CDS	-
CWSNP3855	Ca-Kabuli-Chr4	41698291	[A/G]	-	Intergenic	-
CWSNP3856	Ca-Kabuli-Chr4	41698386	[A/G]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP3857	Ca-Kabuli-Chr4	41721289	[G/A]	Ca10941	Synonymous-CDS	-
CWSNP3858	Ca-Kabuli-Chr4	41772690	[C/T]	-	Intergenic	-
CWSNP3859	Ca-Kabuli-Chr4	41772796	[T/A]	-	Intergenic	-
CWSNP3860	Ca-Kabuli-Chr4	41772794	[T/C]	-	Intergenic	-
CWSNP3861	Ca-Kabuli-Chr4	41864826	[G/A]	Ca10932	Synonymous-CDS	WD40 repeat
CWSNP3862	Ca-Kabuli-Chr4	41864846	[C/G]	Ca10932	Non-Synonymous-CDS	WD40 repeat
CWSNP3863	Ca-Kabuli-Chr4	41956050	[C/G]	-	URR	-
CWSNP3864	Ca-Kabuli-Chr4	41956085	[T/C]	-	URR	-
CWSNP3865	Ca-Kabuli-Chr4	41987193	[A/G]	Ca10923	Intron	Histone H2A
CWSNP3866	Ca-Kabuli-Chr4	42092379	[T/G]	Ca10914	Intron	Tesmin/TSO1-like,CXC
CWSNP3867	Ca-Kabuli-Chr4	42092381	[A/G]	Ca10914	Intron	Tesmin/TSO1-like,CXC
CWSNP3868	Ca-Kabuli-Chr4	42092385	[G/A]	Ca10914	Intron	Tesmin/TSO1-like,CXC
CWSNP3869	Ca-Kabuli-Chr4	42105737	[C/T]	Ca10912	Intron	ATPase,AAA+type,core
CWSNP3870	Ca-Kabuli-Chr4	42105701	[A/T]	Ca10912	Intron	ATPase,AAA+type,core
CWSNP3871	Ca-Kabuli-Chr4	42246527	[C/A]	-	Intergenic	-
CWSNP3872	Ca-Kabuli-Chr4	42246565	[T/G]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP3873	Ca-Kabuli-Chr4	42273252	[G/A]	Ca10903	Intron	Methyltransferase type11
CWSNP3874	Ca-Kabuli-Chr4	42499699	[A/T]	Ca10898	Non-Synonymous-CDS	Protein kinase, catalytic domain
CWSNP3875	Ca-Kabuli-Chr4	42768142	[T/G]	-	Intergenic	-
CWSNP3876	Ca-Kabuli-Chr4	42807483	[G/A]	-	Intergenic	-
CWSNP3877	Ca-Kabuli-Chr4	42807518	[A/G]	-	Intergenic	-
CWSNP3878	Ca-Kabuli-Chr4	43319846	[A/G]	Ca23683	Synonymous-CDS	Cyclin,C-terminal
CWSNP3879	Ca-Kabuli-Chr4	43324547	[G/C]	-	DRR	-
CWSNP3880	Ca-Kabuli-Chr4	43431770	[C/T]	-	Intergenic	-
CWSNP3881	Ca-Kabuli-Chr4	43431772	[T/A]	-	Intergenic	-
CWSNP3882	Ca-Kabuli-Chr4	43431815	[G/T]	-	Intergenic	-
CWSNP3883	Ca-Kabuli-Chr4	43447262	[A/T]	-	DRR	-
CWSNP3884	Ca-Kabuli-Chr4	43476193	[T/C]	Ca23692	Synonymous-CDS	PollenOlee1allergen/extensin
CWSNP3885	Ca-Kabuli-Chr4	43653225	[A/G]	-	Intergenic	-
CWSNP3886	Ca-Kabuli-Chr4	43653226	[C/T]	-	Intergenic	-
CWSNP3887	Ca-Kabuli-Chr4	43662224	[A/C]	-	Intergenic	-
CWSNP3888	Ca-Kabuli-Chr4	43677006	[T/G]	Ca09052	Non-Synonymous-CDS	Leucine-rich repeat

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP3889	Ca-Kabuli-Chr4	43722728	[T/C]	-	DRR	-
CWSNP3890	Ca-Kabuli-Chr4	43722727	[A/G]	-	DRR	-
CWSNP3891	Ca-Kabuli-Chr4	43726406	[C/T]	-	DRR	-
CWSNP3892	Ca-Kabuli-Chr4	43807399	[C/T]	Ca09060	Synonymous-CDS	WD40 repeat
CWSNP3893	Ca-Kabuli-Chr4	43807460	[C/T]	Ca09060	Intron	WD40 repeat
CWSNP3894	Ca-Kabuli-Chr4	43840650	[C/T]	-	URR	-
CWSNP3895	Ca-Kabuli-Chr4	43979065	[A/G]	-	DRR	-
CWSNP3896	Ca-Kabuli-Chr4	44059060	[C/T]	Ca09080	Non-Synonymous-CDS	Signal transduction response regulator,receiver domain
CWSNP3897	Ca-Kabuli-Chr4	44239883	[A/T]	-	Intergenic	-
CWSNP3898	Ca-Kabuli-Chr4	44250159	[C/T]	-	DRR	-
CWSNP3899	Ca-Kabuli-Chr4	44261184	[A/C]	Ca09100	Synonymous-CDS	Actin-binding FH2/DRF auto regulatory
CWSNP3900	Ca-Kabuli-Chr4	44266692	[T/A]	-	Intergenic	-
CWSNP3901	Ca-Kabuli-Chr4	44353354	[C/T]	Ca09105	Intron	Protein of unknown function DUF1077, TMEM85
CWSNP3902	Ca-Kabuli-Chr4	44353343	[G/A]	Ca09105	Intron	Protein of unknown function DUF1077, TMEM85
CWSNP3903	Ca-Kabuli-Chr4	44375761	[T/C]	Ca09108	Synonymous-CDS	-
CWSNP3904	Ca-Kabuli-Chr4	44375831	[T/C]	Ca09108	Intron	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP3905	Ca-Kabuli-Chr4	44382515	[A/G]	-	Intergenic	-
CWSNP3906	Ca-Kabuli-Chr4	44382677	[C/T]	-	Intergenic	-
CWSNP3907	Ca-Kabuli-Chr4	44382671	[C/G]	-	Intergenic	-
CWSNP3908	Ca-Kabuli-Chr4	44382614	[C/A]	-	Intergenic	-
CWSNP3909	Ca-Kabuli-Chr4	44382602	[A/G]	-	Intergenic	-
CWSNP3910	Ca-Kabuli-Chr4	44386579	[A/G]	Ca09109	Synonymous-CDS	Protein phosphatase2C,manganese/magnesium aspartate binding site
CWSNP3911	Ca-Kabuli-Chr4	44431319	[A/C]	Ca09114	Intron	Peptidase C19,ubiquitin carboxyl-terminalhydrolase 2
CWSNP3912	Ca-Kabuli-Chr4	44439503	[C/A]	-	DRR	-
CWSNP3913	Ca-Kabuli-Chr4	44439495	[G/A]	-	DRR	-
CWSNP3914	Ca-Kabuli-Chr4	44439492	[G/T]	-	DRR	-
CWSNP3915	Ca-Kabuli-Chr4	44446468	[G/A]	-	URR	-
CWSNP3916	Ca-Kabuli-Chr4	44446575	[G/A]	-	URR	-
CWSNP3917	Ca-Kabuli-Chr4	44446503	[T/G]	-	URR	-
CWSNP3918	Ca-Kabuli-Chr4	44472278	[A/G]	-	Intergenic	-
CWSNP3919	Ca-Kabuli-Chr4	44472237	[T/A]	-	Intergenic	-
CWSNP3920	Ca-Kabuli-Chr4	44590652	[T/C]	Ca09131	Synonymous-CDS	Protein phosphatase2C,manganese/magnesium aspartate binding site

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP3921	Ca-Kabuli-Chr4	44590678	[G/A]	Ca09131	Non-Synonymous-CDS	Protein phosphatase2C,manganese/magnesium spartate binding site
CWSNP3922	Ca-Kabuli-Chr4	44590697	[A/C]	Ca09131	Synonymous-CDS	Protein phosphatase2C,manganese/magnesium spartate binding site
CWSNP3923	Ca-Kabuli-Chr4	44591405	[G/T]	Ca09131	Intron	Protein phosphatase2C,manganese/magnesium spartate binding site
CWSNP3924	Ca-Kabuli-Chr4	44754355	[C/T]	Ca09143	Intron	F-boxdomain,cyclin-like
CWSNP3925	Ca-Kabuli-Chr4	44802374	[G/A]	Ca09145	Intron	PhosphoribosyltransferaseC-terminal
CWSNP3926	Ca-Kabuli-Chr4	44802364	[A/C]	Ca09145	Intron	PhosphoribosyltransferaseC-terminal
CWSNP3927	Ca-Kabuli-Chr4	44803694	[T/A]	Ca09145	Intron	PhosphoribosyltransferaseC-terminal
CWSNP3928	Ca-Kabuli-Chr4	44811519	[G/A]	-	Intergenic	-
CWSNP3929	Ca-Kabuli-Chr4	44814857	[A/G]	-	URR	-
CWSNP3930	Ca-Kabuli-Chr4	44814981	[T/C]	-	URR	-
CWSNP3931	Ca-Kabuli-Chr4	44814982	[A/G]	-	URR	-
CWSNP3932	Ca-Kabuli-Chr4	44824103	[G/T]	-	Intergenic	-
CWSNP3933	Ca-Kabuli-Chr4	44824105	[T/G]	-	Intergenic	-
CWSNP3934	Ca-Kabuli-Chr4	44832121	[G/C]	-	Intergenic	-
CWSNP3935	Ca-Kabuli-Chr4	44832144	[T/C]	-	Intergenic	-
CWSNP3936	Ca-Kabuli-Chr4	44906128	[C/A]	Ca09153	Intron	Protein of unknown function DUF803

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP3937	Ca-Kabuli-Chr4	44906255	[A/G]	Ca09153	Synonymous-CDS	Protein of unknown function DUF803
CWSNP3938	Ca-Kabuli-Chr4	44979108	[G/A]	-	Intergenic	-
CWSNP3939	Ca-Kabuli-Chr4	45019764	[T/C]	-	Intergenic	-
CWSNP3940	Ca-Kabuli-Chr4	45019778	[T/C]	-	Intergenic	-
CWSNP3941	Ca-Kabuli-Chr4	45019805	[C/A]	-	Intergenic	-
CWSNP3942	Ca-Kabuli-Chr4	45019807	[C/T]	-	Intergenic	-
CWSNP3943	Ca-Kabuli-Chr4	45019814	[C/A]	-	Intergenic	-
CWSNP3944	Ca-Kabuli-Chr4	45019820	[C/T]	-	Intergenic	-
CWSNP3945	Ca-Kabuli-Chr4	45019824	[A/C]	-	Intergenic	-
CWSNP3946	Ca-Kabuli-Chr4	45019867	[C/G]	-	Intergenic	-
CWSNP3947	Ca-Kabuli-Chr4	45019848	[C/T]	-	Intergenic	-
CWSNP3948	Ca-Kabuli-Chr4	45035589	[G/T]	-	Intergenic	-
CWSNP3949	Ca-Kabuli-Chr4	45035745	[A/G]	-	Intergenic	-
CWSNP3950	Ca-Kabuli-Chr4	45104767	[G/A]	-	Intergenic	-
CWSNP3951	Ca-Kabuli-Chr4	45104779	[C/A]	-	Intergenic	-
CWSNP3952	Ca-Kabuli-Chr4	45165191	[T/C]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP3953	Ca-Kabuli-Chr4	45165240	[T/C]	-	Intergenic	-
CWSNP3954	Ca-Kabuli-Chr4	45165231	[A/C]	-	Intergenic	-
CWSNP3955	Ca-Kabuli-Chr4	45206209	[G/C]	-	Intergenic	-
CWSNP3956	Ca-Kabuli-Chr4	45220084	[G/T]	Ca09184	Synonymous-CDS	K Homology
CWSNP3957	Ca-Kabuli-Chr4	45220916	[T/C]	Ca09184	Non-Synonymous-CDS	K Homology
CWSNP3958	Ca-Kabuli-Chr4	45225063	[T/C]	-	URR	-
CWSNP3959	Ca-Kabuli-Chr4	45225059	[G/A]	-	URR	-
CWSNP3960	Ca-Kabuli-Chr4	45224997	[G/C]	-	URR	-
CWSNP3961	Ca-Kabuli-Chr4	45225077	[A/T]	-	URR	-
CWSNP3962	Ca-Kabuli-Chr4	45225093	[G/A]	-	URR	-
CWSNP3963	Ca-Kabuli-Chr4	45225145	[T/A]	-	URR	-
CWSNP3964	Ca-Kabuli-Chr4	45225155	[C/A]	-	URR	-
CWSNP3965	Ca-Kabuli-Chr4	45225165	[T/C]	-	URR	-
CWSNP3966	Ca-Kabuli-Chr4	45231839	[T/C]	-	Intergenic	-
CWSNP3967	Ca-Kabuli-Chr4	45231893	[G/T]	-	Intergenic	-
CWSNP3968	Ca-Kabuli-Chr4	45292918	[T/G]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP3969	Ca-Kabuli-Chr4	45292981	[G/T]	-	Intergenic	-
CWSNP3970	Ca-Kabuli-Chr4	45292969	[T/A]	-	Intergenic	-
CWSNP3971	Ca-Kabuli-Chr4	45292960	[A/T]	-	Intergenic	-
CWSNP3972	Ca-Kabuli-Chr4	45645996	[A/G]	-	Intergenic	-
CWSNP3973	Ca-Kabuli-Chr4	45645957	[A/C]	-	Intergenic	-
CWSNP3974	Ca-Kabuli-Chr4	45708895	[C/A]	-	Intergenic	-
CWSNP3975	Ca-Kabuli-Chr4	45752844	[G/A]	-	Intergenic	-
CWSNP3976	Ca-Kabuli-Chr4	45752869	[G/T]	-	Intergenic	-
CWSNP3977	Ca-Kabuli-Chr4	45752874	[A/T]	-	Intergenic	-
CWSNP3978	Ca-Kabuli-Chr4	45918351	[A/C]	-	DRR	-
CWSNP3979	Ca-Kabuli-Chr4	45935594	[A/C]	Ca18367	Non-Synonymous-CDS	RNA recognition motif domain
CWSNP3980	Ca-Kabuli-Chr4	46148985	[A/T]	Ca18357	Intron	Zinc finger,RING-type
CWSNP3981	Ca-Kabuli-Chr4	46149013	[A/G]	Ca18357	Intron	Zinc finger,RING-type
CWSNP3982	Ca-Kabuli-Chr4	46150670	[T/C]	Ca18357	Intron	Zinc finger,RING-type
CWSNP3983	Ca-Kabuli-Chr4	46202862	[A/G]	-	Intergenic	-
CWSNP3984	Ca-Kabuli-Chr4	46612244	[C/T]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP3985	Ca-Kabuli-Chr4	46613068	[T/G]	-	Intergenic	-
CWSNP3986	Ca-Kabuli-Chr4	46694919	[T/A]	-	DRR	-
CWSNP3987	Ca-Kabuli-Chr4	46695043	[A/C]	-	DRR	-
CWSNP3988	Ca-Kabuli-Chr4	46695008	[T/C]	-	DRR	-
CWSNP3989	Ca-Kabuli-Chr4	46705178	[A/T]	Ca19247	Synonymous-CDS	Patatin/PhospholipaseA2-related
CWSNP3990	Ca-Kabuli-Chr4	46705225	[A/C]	Ca19247	Intron	Patatin/PhospholipaseA2-related
CWSNP3991	Ca-Kabuli-Chr4	46713972	[C/T]	Ca19246	Non-Synonymous-CDS	PGAP1-like
CWSNP3992	Ca-Kabuli-Chr4	46715350	[T/C]	Ca19246	Synonymous-CDS	PGAP1-like
CWSNP3993	Ca-Kabuli-Chr4	46717153	[C/T]	Ca19246	Intron	PGAP1-like
CWSNP3994	Ca-Kabuli-Chr4	46717200	[C/T]	Ca19246	Intron	PGAP1-like
CWSNP3995	Ca-Kabuli-Chr4	46717508	[G/A]	Ca19246	Intron	PGAP1-like
CWSNP3996	Ca-Kabuli-Chr4	46763540	[C/T]	Ca19242	Synonymous-CDS	RNA recognition motif domain
CWSNP3997	Ca-Kabuli-Chr4	46763555	[C/T]	Ca19242	Synonymous-CDS	RNA recognition motif domain
CWSNP3998	Ca-Kabuli-Chr4	46763868	[T/C]	Ca19242	Intron	RNA recognition motif domain
CWSNP3999	Ca-Kabuli-Chr4	46763841	[A/C]	Ca19242	Intron	RNA recognition motif domain
CWSNP4000	Ca-Kabuli-Chr4	47223016	[T/C]	Ca10859	Intron	Xanthine/uracil/vitaminCpermease

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP4001	Ca-Kabuli-Chr4	47223047	[A/G]	Ca10859	Intron	Xanthine/uracil/vitaminCpermease
CWSNP4002	Ca-Kabuli-Chr4	47223635	[G/A]	Ca10859	Synonymous-CDS	Xanthine/uracil/vitaminCpermease
CWSNP4003	Ca-Kabuli-Chr4	47223668	[T/G]	Ca10859	Synonymous-CDS	Xanthine/uracil/vitaminCpermease
CWSNP4004	Ca-Kabuli-Chr4	47379992	[C/T]	-	Intergenic	-
CWSNP4005	Ca-Kabuli-Chr4	47405685	[T/A]	-	Intergenic	-
CWSNP4006	Ca-Kabuli-Chr4	47419514	[A/G]	-	DRR	-
CWSNP4007	Ca-Kabuli-Chr4	47419517	[C/T]	-	DRR	-
CWSNP4008	Ca-Kabuli-Chr4	47428580	[C/T]	Ca10845	Intron	Multiantimicrobial extrusion protein
CWSNP4009	Ca-Kabuli-Chr4	47428599	[C/T]	Ca10845	Intron	Multiantimicrobial extrusion protein
CWSNP4010	Ca-Kabuli-Chr4	47428733	[A/G]	Ca10845	Synonymous-CDS	Multiantimicrobial extrusion protein
CWSNP4011	Ca-Kabuli-Chr4	47450409	[C/T]	-	Intergenic	-
CWSNP4012	Ca-Kabuli-Chr4	47572228	[G/A]	-	Intergenic	-
CWSNP4013	Ca-Kabuli-Chr4	47572276	[C/T]	-	Intergenic	-
CWSNP4014	Ca-Kabuli-Chr4	47578556	[T/G]	Ca10832	Intron	MT-A70
CWSNP4015	Ca-Kabuli-Chr4	47578596	[C/T]	Ca10832	Intron	MT-A71
CWSNP4016	Ca-Kabuli-Chr4	47588760	[G/A]	Ca10830	Intron	Phospholipid/glycerolacyltransferase

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP4017	Ca-Kabuli-Chr4	47612395	[C/A]	-	Intergenic	-
CWSNP4018	Ca-Kabuli-Chr4	47612396	[G/T]	-	Intergenic	-
CWSNP4019	Ca-Kabuli-Chr4	47622112	[G/T]	-	URR	-
CWSNP4020	Ca-Kabuli-Chr4	47798580	[A/G]	-	Intergenic	-
CWSNP4021	Ca-Kabuli-Chr4	48008987	[T/C]	Ca10788	Synonymous-CDS	Heat shock protein DnaJ,N-terminal
CWSNP4022	Ca-Kabuli-Chr4	48103153	[A/C]	Ca10777	Synonymous-CDS	Plant peroxidase
CWSNP4023	Ca-Kabuli-Chr4	48238919	[C/T]	Ca10764	Non-Synonymous-CDS	-
CWSNP4024	Ca-Kabuli-Chr4	48239048	[A/G]	Ca10764	Intron	-
CWSNP4025	Ca-Kabuli-Chr4	48263603	[G/A]	Ca10761	Synonymous-CDS	DNA-directed RNA polymerase, subunit 2,domain 6
CWSNP4026	Ca-Kabuli-Chr4	48269138	[G/C]	Ca10760	Intron	Amineoxidase
CWSNP4027	Ca-Kabuli-Chr4	48275016	[C/T]	Ca10760	Synonymous-CDS	Amineoxidase
CWSNP4028	Ca-Kabuli-Chr4	48322502	[C/T]	-	Intergenic	-
CWSNP4029	Ca-Kabuli-Chr4	48322507	[C/T]	-	Intergenic	-
CWSNP4030	Ca-Kabuli-Chr4	48331069	[C/A]	Ca10753	Non-Synonymous-CDS	Ribosomal protein L13
CWSNP4031	Ca-Kabuli-Chr4	48345604	[A/G]	Ca10752	Intron	IQ motif, EF-hand binding site
CWSNP4032	Ca-Kabuli-Chr4	48345608	[G/T]	Ca10752	Intron	IQ motif, EF-hand binding site

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP4033	Ca-Kabuli-Chr4	48345655	[A/C]	Ca10752	Intron	IQ motif, EF-hand binding site
CWSNP4034	Ca-Kabuli-Chr4	48355358	[A/T]	Ca10751	Intron	Exonuclease
CWSNP4035	Ca-Kabuli-Chr4	48355468	[G/T]	Ca10751	Intron	Exonuclease
CWSNP4036	Ca-Kabuli-Chr4	48364170	[G/A]	Ca10750	Intron	Helicase,C-terminal
CWSNP4037	Ca-Kabuli-Chr4	48365208	[C/A]	-	Intergenic	-
CWSNP4038	Ca-Kabuli-Chr4	48365388	[G/A]	-	DRR	-
CWSNP4039	Ca-Kabuli-Chr4	48382666	[G/C]	Ca10748	Synonymous-CDS	AUX/IAA protein
CWSNP4040	Ca-Kabuli-Chr4	48464493	[T/C]	Ca10746	Non-Synonymous-CDS	Zinc finger,CCHC-type
CWSNP4041	Ca-Kabuli-Chr4	48470477	[A/G]	Ca10746	Intron	Zinc finger,CCHC-type
CWSNP4042	Ca-Kabuli-Chr4	48475447	[T/C]	-	DRR	-
CWSNP4043	Ca-Kabuli-Chr4	48475461	[G/A]	-	DRR	-
CWSNP4044	Ca-Kabuli-Chr4	48478018	[A/G]	-	DRR	-
CWSNP4045	Ca-Kabuli-Chr4	48478058	[T/C]	-	DRR	-
CWSNP4046	Ca-Kabuli-Chr4	48478303	[G/A]	Ca10745	Synonymous-CDS	Appr-1-pprocessing
CWSNP4047	Ca-Kabuli-Chr4	48478524	[C/T]	Ca10745	Non-Synonymous-CDS	Appr-1-pprocessing
CWSNP4048	Ca-Kabuli-Chr4	48484453	[A/T]	-	DRR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP4049	Ca-Kabuli-Chr4	48497731	[A/C]	-	DRR	-
CWSNP4050	Ca-Kabuli-Chr4	48497725	[A/C]	-	DRR	-
CWSNP4051	Ca-Kabuli-Chr4	48497756	[A/G]	-	DRR	-
CWSNP4052	Ca-Kabuli-Chr4	48497765	[G/A]	-	DRR	-
CWSNP4053	Ca-Kabuli-Chr4	48497839	[G/A]	-	DRR	-
CWSNP4054	Ca-Kabuli-Chr4	48498133	[C/T]	-	Intergenic	-
CWSNP4055	Ca-Kabuli-Chr4	48498181	[G/C]	-	Intergenic	-
CWSNP4056	Ca-Kabuli-Chr4	48498166	[A/G]	-	Intergenic	-
CWSNP4057	Ca-Kabuli-Chr4	48498368	[C/T]	-	Intergenic	-
CWSNP4058	Ca-Kabuli-Chr4	48498334	[T/G]	-	Intergenic	-
CWSNP4059	Ca-Kabuli-Chr4	48498331	[T/A]	-	Intergenic	-
CWSNP4060	Ca-Kabuli-Chr4	48498312	[T/C]	-	Intergenic	-
CWSNP4061	Ca-Kabuli-Chr4	48501662	[A/T]	Ca10741	Synonymous-CDS	Eukaryotic initiation factor 3,gamma subunit
CWSNP4062	Ca-Kabuli-Chr4	48502554	[G/T]	Ca10741	Intron	Eukaryotic initiation factor 3,gamma subunit
CWSNP4063	Ca-Kabuli-Chr4	48502718	[G/C]	Ca10741	Intron	Eukaryotic initiation factor 3,gamma subunit
CWSNP4064	Ca-Kabuli-Chr4	48502714	[T/C]	Ca10741	Intron	Eukaryotic initiation factor 3,gamma subunit

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP4065	Ca-Kabuli-Chr4	48502687	[G/A]	Ca10741	Intron	Eukaryotic initiation factor 3,gamma subunit
CWSNP4066	Ca-Kabuli-Chr4	48678692	[T/C]	Ca23018	Synonymous-CDS	Transcription factorIIS,N-terminal
CWSNP4067	Ca-Kabuli-Chr4	48688766	[A/G]	Ca23019	Synonymous-CDS	C2 calcium-dependent membrane targeting
CWSNP4068	Ca-Kabuli-Chr4	48714912	[G/A]	Ca23021	Intron	Vacuolar protein sorting-associated protein 35
CWSNP4069	Ca-Kabuli-Chr4	48715028	[A/G]	Ca23021	Intron	Vacuolar protein sorting-associated protein 35
CWSNP4070	Ca-Kabuli-Chr4	48720330	[C/T]	-	URR	-
CWSNP4071	Ca-Kabuli-Chr4	48720266	[C/T]	-	URR	-
CWSNP4072	Ca-Kabuli-Chr4	48784151	[T/G]	-	Intergenic	-
CWSNP4073	Ca-Kabuli-Chr4	48784176	[T/C]	-	Intergenic	-
CWSNP4074	Ca-Kabuli-Chr4	48784178	[C/G]	-	Intergenic	-
CWSNP4075	Ca-Kabuli-Chr4	48784179	[G/A]	-	Intergenic	-
CWSNP4076	Ca-Kabuli-Chr4	48784189	[A/T]	-	Intergenic	-
CWSNP4077	Ca-Kabuli-Chr4	48784202	[A/C]	-	Intergenic	-
CWSNP4078	Ca-Kabuli-Chr4	48784204	[G/C]	-	Intergenic	-
CWSNP4079	Ca-Kabuli-Chr4	48936819	[C/T]	-	URR	-
CWSNP4080	Ca-Kabuli-Chr4	49012756	[C/T]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP4081	Ca-Kabuli-Chr5	131558	[A/C]	-	Intergenic	-
CWSNP4082	Ca-Kabuli-Chr5	154084	[T/G]	-	Intergenic	-
CWSNP4083	Ca-Kabuli-Chr5	154095	[C/G]	-	Intergenic	-
CWSNP4084	Ca-Kabuli-Chr5	154097	[A/T]	-	Intergenic	-
CWSNP4085	Ca-Kabuli-Chr5	154162	[C/T]	-	Intergenic	-
CWSNP4086	Ca-Kabuli-Chr5	154128	[G/T]	-	Intergenic	-
CWSNP4087	Ca-Kabuli-Chr5	166341	[C/A]	Ca18171	Non-Synonymous-CDS	No apical meristem (NAM) protein
CWSNP4088	Ca-Kabuli-Chr5	166381	[A/G]	Ca18171	Synonymous-CDS	No apical meristem (NAM) protein
CWSNP4089	Ca-Kabuli-Chr5	210649	[C/A]	-	Intergenic	-
CWSNP4090	Ca-Kabuli-Chr5	222651	[A/C]	-	Intergenic	-
CWSNP4091	Ca-Kabuli-Chr5	222641	[C/T]	-	Intergenic	-
CWSNP4092	Ca-Kabuli-Chr5	222653	[A/C]	-	Intergenic	-
CWSNP4093	Ca-Kabuli-Chr5	222657	[G/A]	-	Intergenic	-
CWSNP4094	Ca-Kabuli-Chr5	223384	[C/G]	Ca18177	Synonymous-CDS	ZF-HD homeobox protein,Cys/His-rich dimerisation domain
CWSNP4095	Ca-Kabuli-Chr5	234247	[T/C]	Ca18178	Intron	Protein of unknown function DUF647
CWSNP4096	Ca-Kabuli-Chr5	234319	[T/A]	Ca18178	Intron	Protein of unknown function DUF647

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP4097	Ca-Kabuli-Chr5	234311	[T/A]	Ca18178	Intron	Protein of unknown function DUF647
CWSNP4098	Ca-Kabuli-Chr5	234305	[T/A]	Ca18178	Intron	Protein of unknown function DUF647
CWSNP4099	Ca-Kabuli-Chr5	234303	[C/A]	Ca18178	Intron	Protein of unknown function DUF647
CWSNP4100	Ca-Kabuli-Chr5	234410	[A/C]	Ca18178	Non-Synonymous-CDS	Protein of unknown function DUF647
CWSNP4101	Ca-Kabuli-Chr5	245850	[T/G]	Ca18179	Intron	HEAT
CWSNP4102	Ca-Kabuli-Chr5	245863	[A/T]	Ca18179	Intron	HEAT
CWSNP4103	Ca-Kabuli-Chr5	245896	[A/T]	Ca18179	Intron	HEAT
CWSNP4104	Ca-Kabuli-Chr5	246466	[A/T]	Ca18179	Intron	HEAT
CWSNP4105	Ca-Kabuli-Chr5	272972	[T/A]	Ca18181	Intron	Mitoticcheckpoint
CWSNP4106	Ca-Kabuli-Chr5	277040	[G/A]	Ca18181	Synonymous-CDS	Mitoticcheckpoint
CWSNP4107	Ca-Kabuli-Chr5	438448	[C/A]	Ca18196	Intron	-
CWSNP4108	Ca-Kabuli-Chr5	438445	[C/A]	Ca18196	Intron	-
CWSNP4109	Ca-Kabuli-Chr5	438442	[T/C]	Ca18196	Intron	-
CWSNP4110	Ca-Kabuli-Chr5	443309	[A/T]	-	URR	-
CWSNP4111	Ca-Kabuli-Chr5	469397	[G/A]	Ca18200	Synonymous-CDS	Inositol polyphosphate-related phosphatase
CWSNP4112	Ca-Kabuli-Chr5	805859	[C/T]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP4113	Ca-Kabuli-Chr5	870867	[A/G]	-	Intergenic	-
CWSNP4114	Ca-Kabuli-Chr5	870909	[G/A]	-	Intergenic	-
CWSNP4115	Ca-Kabuli-Chr5	925554	[T/C]	-	Intergenic	-
CWSNP4116	Ca-Kabuli-Chr5	1141755	[C/T]	Ca23234	Non-Synonymous-CDS	-
CWSNP4117	Ca-Kabuli-Chr5	1220867	[A/G]	Ca26284	Intron	YbaK/aminoacyl-tRNA synthetase-associated domain
CWSNP4118	Ca-Kabuli-Chr5	1252388	[A/T]	Ca26282	Intron	MORNmotif
CWSNP4119	Ca-Kabuli-Chr5	1270830	[T/C]	Ca26280	Synonymous-CDS	1-aminocyclopropane-1-carboxylatesynthase
CWSNP4120	Ca-Kabuli-Chr5	1272581	[T/C]	-	Intergenic	-
CWSNP4121	Ca-Kabuli-Chr5	1280977	[T/G]	Ca26279	Non-Synonymous-CDS	Transcription factor GRAS
CWSNP4122	Ca-Kabuli-Chr5	1281017	[G/A]	Ca26279	Synonymous-CDS	Transcription factor GRAS
CWSNP4123	Ca-Kabuli-Chr5	1281021	[C/T]	Ca26279	Synonymous-CDS	Transcription factor GRAS
CWSNP4124	Ca-Kabuli-Chr5	2519977	[C/T]	-	DRR	-
CWSNP4125	Ca-Kabuli-Chr5	2519949	[C/T]	-	DRR	-
CWSNP4126	Ca-Kabuli-Chr5	2519961	[G/A]	-	DRR	-
CWSNP4127	Ca-Kabuli-Chr5	2520058	[C/T]	-	DRR	-
CWSNP4128	Ca-Kabuli-Chr5	2520015	[C/G]	-	DRR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP4129	Ca-Kabuli-Chr5	2520049	[C/T]	-	DRR	-
CWSNP4130	Ca-Kabuli-Chr5	2520050	[G/C]	-	DRR	-
CWSNP4131	Ca-Kabuli-Chr5	2520051	[G/T]	-	DRR	-
CWSNP4132	Ca-Kabuli-Chr5	2520055	[C/T]	-	DRR	-
CWSNP4133	Ca-Kabuli-Chr5	2520068	[T/A]	-	DRR	-
CWSNP4134	Ca-Kabuli-Chr5	2520069	[C/T]	-	DRR	-
CWSNP4135	Ca-Kabuli-Chr5	2520094	[G/A]	-	DRR	-
CWSNP4136	Ca-Kabuli-Chr5	2520061	[C/T]	-	DRR	-
CWSNP4137	Ca-Kabuli-Chr5	2520093	[G/A]	-	DRR	-
CWSNP4138	Ca-Kabuli-Chr5	2520114	[G/A]	-	DRR	-
CWSNP4139	Ca-Kabuli-Chr5	2520109	[G/A]	-	DRR	-
CWSNP4140	Ca-Kabuli-Chr5	2520101	[C/T]	-	DRR	-
CWSNP4141	Ca-Kabuli-Chr5	2613423	[T/G]	-	Intergenic	-
CWSNP4142	Ca-Kabuli-Chr5	2948530	[G/T]	Ca18681	Intron	-
CWSNP4143	Ca-Kabuli-Chr5	2948531	[T/C]	Ca18681	Intron	-
CWSNP4144	Ca-Kabuli-Chr5	2948549	[C/A]	Ca18681	Intron	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP4145	Ca-Kabuli-Chr5	2948592	[T/C]	Ca18681	Intron	-
CWSNP4146	Ca-Kabuli-Chr5	2948616	[G/A]	Ca18681	Intron	-
CWSNP4147	Ca-Kabuli-Chr5	3348310	[A/G]	-	Intergenic	-
CWSNP4148	Ca-Kabuli-Chr5	3348366	[G/C]	-	Intergenic	-
CWSNP4149	Ca-Kabuli-Chr5	3353052	[A/G]	-	Intergenic	-
CWSNP4150	Ca-Kabuli-Chr5	4122395	[T/C]	-	Intergenic	-
CWSNP4151	Ca-Kabuli-Chr5	4122342	[T/C]	-	Intergenic	-
CWSNP4152	Ca-Kabuli-Chr5	5133644	[A/G]	Ca25551	Intron	Zinc finger,U1-type
CWSNP4153	Ca-Kabuli-Chr5	5404261	[G/A]	-	Intergenic	-
CWSNP4154	Ca-Kabuli-Chr5	6190494	[T/C]	-	Intergenic	-
CWSNP4155	Ca-Kabuli-Chr5	6225426	[T/A]	-	Intergenic	-
CWSNP4156	Ca-Kabuli-Chr5	6225415	[G/C]	-	Intergenic	-
CWSNP4157	Ca-Kabuli-Chr5	6225410	[T/A]	-	Intergenic	-
CWSNP4158	Ca-Kabuli-Chr5	6290453	[G/A]	Ca20739	Intron	RNA recognition motif domain
CWSNP4159	Ca-Kabuli-Chr5	6300337	[C/A]	Ca20739	Intron	RNA recognition motif domain
CWSNP4160	Ca-Kabuli-Chr5	6300502	[C/A]	Ca20739	Intron	RNA recognition motif domain

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP4161	Ca-Kabuli-Chr5	6317014	[C/T]	-	DRR	-
CWSNP4162	Ca-Kabuli-Chr5	6931865	[A/G]	-	Intergenic	-
CWSNP4163	Ca-Kabuli-Chr5	7425116	[C/T]	-	Intergenic	-
CWSNP4164	Ca-Kabuli-Chr5	7664421	[T/C]	Ca18734	Non-Synonymous-CDS	Regulator of nonsense-mediated decay, UPF3
CWSNP4165	Ca-Kabuli-Chr5	7775298	[A/T]	-	Intergenic	-
CWSNP4166	Ca-Kabuli-Chr5	7775516	[A/G]	-	Intergenic	-
CWSNP4167	Ca-Kabuli-Chr5	7775497	[G/C]	-	Intergenic	-
CWSNP4168	Ca-Kabuli-Chr5	7775472	[G/A]	-	Intergenic	-
CWSNP4169	Ca-Kabuli-Chr5	7775456	[T/C]	-	Intergenic	-
CWSNP4170	Ca-Kabuli-Chr5	7775918	[C/T]	-	Intergenic	-
CWSNP4171	Ca-Kabuli-Chr5	7789021	[G/T]	-	Intergenic	-
CWSNP4172	Ca-Kabuli-Chr5	7789065	[A/G]	-	Intergenic	-
CWSNP4173	Ca-Kabuli-Chr5	7826338	[T/G]	-	Intergenic	-
CWSNP4174	Ca-Kabuli-Chr5	7826366	[A/G]	-	Intergenic	-
CWSNP4175	Ca-Kabuli-Chr5	8263483	[A/G]	-	Intergenic	-
CWSNP4176	Ca-Kabuli-Chr5	9519382	[C/A]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP4177	Ca-Kabuli-Chr5	9519390	[G/A]	-	Intergenic	-
CWSNP4178	Ca-Kabuli-Chr5	9620998	[A/C]	-	DRR	-
CWSNP4179	Ca-Kabuli-Chr5	9728591	[A/G]	-	Intergenic	-
CWSNP4180	Ca-Kabuli-Chr5	9868796	[T/C]	Ca20504	Intron	Ankyrin repeat
CWSNP4181	Ca-Kabuli-Chr5	9869005	[T/G]	Ca20504	Synonymous-CDS	Ankyrin repeat
CWSNP4182	Ca-Kabuli-Chr5	9961380	[C/T]	Ca20508	Non-Synonymous-CDS	DNA-binding WRKY
CWSNP4183	Ca-Kabuli-Chr5	9965848	[T/C]	-	DRR	-
CWSNP4184	Ca-Kabuli-Chr5	10004427	[T/G]	Ca20512	Synonymous-CDS	-
CWSNP4185	Ca-Kabuli-Chr5	10004430	[T/G]	Ca20512	Synonymous-CDS	-
CWSNP4186	Ca-Kabuli-Chr5	10004451	[T/G]	Ca20512	Synonymous-CDS	-
CWSNP4187	Ca-Kabuli-Chr5	10072358	[G/A]	-	Intergenic	-
CWSNP4188	Ca-Kabuli-Chr5	10072403	[G/C]	-	Intergenic	-
CWSNP4189	Ca-Kabuli-Chr5	10406562	[C/A]	-	DRR	-
CWSNP4190	Ca-Kabuli-Chr5	10406602	[C/T]	-	DRR	-
CWSNP4191	Ca-Kabuli-Chr5	10406636	[A/G]	-	DRR	-
CWSNP4192	Ca-Kabuli-Chr5	10675252	[A/G]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP4193	Ca-Kabuli-Chr5	10675279	[C/G]	-	Intergenic	-
CWSNP4194	Ca-Kabuli-Chr5	10675294	[A/G]	-	Intergenic	-
CWSNP4195	Ca-Kabuli-Chr5	10858490	[C/T]	-	Intergenic	-
CWSNP4196	Ca-Kabuli-Chr5	10918368	[A/G]	Ca23750	Non-Synonymous-CDS	MoeA,C-terminal,domainIV
CWSNP4197	Ca-Kabuli-Chr5	11230617	[C/G]	-	Intergenic	-
CWSNP4198	Ca-Kabuli-Chr5	11230627	[A/G]	-	Intergenic	-
CWSNP4199	Ca-Kabuli-Chr5	11230648	[G/A]	-	Intergenic	-
CWSNP4200	Ca-Kabuli-Chr5	11230671	[T/C]	-	Intergenic	-
CWSNP4201	Ca-Kabuli-Chr5	11263571	[C/G]	-	Intergenic	-
CWSNP4202	Ca-Kabuli-Chr5	11263574	[C/A]	-	Intergenic	-
CWSNP4203	Ca-Kabuli-Chr5	11317487	[C/T]	-	Intergenic	-
CWSNP4204	Ca-Kabuli-Chr5	11317502	[C/A]	-	Intergenic	-
CWSNP4205	Ca-Kabuli-Chr5	11385780	[A/C]	Ca23356	Non-Synonymous-CDS	RNA recognition motif domain
CWSNP4206	Ca-Kabuli-Chr5	11385874	[A/G]	Ca23356	Synonymous-CDS	RNA recognition motif domain
CWSNP4207	Ca-Kabuli-Chr5	11777112	[C/T]	-	URR	-
CWSNP4208	Ca-Kabuli-Chr5	11853090	[C/T]	Ca17111	Intron	ABC transporter, transmembrane domain

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP4209	Ca-Kabuli-Chr5	11864959	[T/C]	Ca17110	Non-Synonymous-CDS	Zinc finger,CCHC-type
CWSNP4210	Ca-Kabuli-Chr5	12157678	[A/G]	-	Intergenic	-
CWSNP4211	Ca-Kabuli-Chr5	12157688	[C/T]	-	Intergenic	-
CWSNP4212	Ca-Kabuli-Chr5	12157699	[G/T]	-	Intergenic	-
CWSNP4213	Ca-Kabuli-Chr5	12162160	[G/T]	-	Intergenic	-
CWSNP4214	Ca-Kabuli-Chr5	12480948	[T/G]	Ca17080	Intron	Choline/ethanolaminekinase
CWSNP4215	Ca-Kabuli-Chr5	12553469	[A/C]	-	Intergenic	-
CWSNP4216	Ca-Kabuli-Chr5	12553470	[G/C]	-	Intergenic	-
CWSNP4217	Ca-Kabuli-Chr5	12590478	[T/C]	Ca17072	Synonymous-CDS	Glycerophosphoryldiester phosphodiesterase
CWSNP4218	Ca-Kabuli-Chr5	12662138	[G/T]	Ca17066	Intron	Protein kinase, catalytic domain
CWSNP4219	Ca-Kabuli-Chr5	13982000	[T/G]	Ca20821	Non-Synonymous-CDS	Protein kinase, catalytic domain
CWSNP4220	Ca-Kabuli-Chr5	13982041	[C/T]	Ca20821	Synonymous-CDS	Protein kinase, catalytic domain
CWSNP4221	Ca-Kabuli-Chr5	15952395	[C/T]	-	Intergenic	-
CWSNP4222	Ca-Kabuli-Chr5	16227319	[G/T]	Ca17915	Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP4223	Ca-Kabuli-Chr5	16227353	[G/A]	Ca17915	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP4224	Ca-Kabuli-Chr5	16227401	[G/A]	Ca17915	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP4225	Ca-Kabuli-Chr5	16426575	[G/A]	-	URR	-
CWSNP4226	Ca-Kabuli-Chr5	16426662	[C/T]	-	URR	-
CWSNP4227	Ca-Kabuli-Chr5	16426656	[A/G]	-	URR	-
CWSNP4228	Ca-Kabuli-Chr5	16426642	[A/G]	-	URR	-
CWSNP4229	Ca-Kabuli-Chr5	16751536	[C/T]	-	DRR	-
CWSNP4230	Ca-Kabuli-Chr5	16929903	[C/G]	Ca17949	Intron	tRNA-dihydrouridine synthase
CWSNP4231	Ca-Kabuli-Chr5	16929897	[A/G]	Ca17949	Intron	tRNA-dihydrouridine synthase
CWSNP4232	Ca-Kabuli-Chr5	17037918	[G/T]	-	Intergenic	-
CWSNP4233	Ca-Kabuli-Chr5	17044340	[G/A]	-	DRR	-
CWSNP4234	Ca-Kabuli-Chr5	17045235	[T/C]	-	Intergenic	-
CWSNP4235	Ca-Kabuli-Chr5	17045244	[A/G]	-	Intergenic	-
CWSNP4236	Ca-Kabuli-Chr5	17239612	[T/C]	-	Intergenic	-
CWSNP4237	Ca-Kabuli-Chr5	17494714	[A/G]	-	Intergenic	-
CWSNP4238	Ca-Kabuli-Chr5	17494702	[G/A]	-	Intergenic	-
CWSNP4239	Ca-Kabuli-Chr5	17494700	[T/C]	-	Intergenic	-
CWSNP4240	Ca-Kabuli-Chr5	17494697	[C/T]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP4241	Ca-Kabuli-Chr5	17494672	[C/T]	-	Intergenic	-
CWSNP4242	Ca-Kabuli-Chr5	17494699	[C/A]	-	Intergenic	-
CWSNP4243	Ca-Kabuli-Chr5	18044808	[C/G]	-	Intergenic	-
CWSNP4244	Ca-Kabuli-Chr5	18664706	[C/T]	Ca24483	Non-Synonymous-CDS	-
CWSNP4245	Ca-Kabuli-Chr5	18682788	[A/C]	-	Intergenic	-
CWSNP4246	Ca-Kabuli-Chr5	18682792	[T/C]	-	Intergenic	-
CWSNP4247	Ca-Kabuli-Chr5	18682793	[A/G]	-	Intergenic	-
CWSNP4248	Ca-Kabuli-Chr5	18682794	[A/G]	-	Intergenic	-
CWSNP4249	Ca-Kabuli-Chr5	18682812	[A/G]	-	Intergenic	-
CWSNP4250	Ca-Kabuli-Chr5	18682814	[T/A]	-	Intergenic	-
CWSNP4251	Ca-Kabuli-Chr5	18682822	[A/G]	-	Intergenic	-
CWSNP4252	Ca-Kabuli-Chr5	18682827	[C/G]	-	Intergenic	-
CWSNP4253	Ca-Kabuli-Chr5	18682830	[G/A]	-	Intergenic	-
CWSNP4254	Ca-Kabuli-Chr5	18684334	[C/T]	-	Intergenic	-
CWSNP4255	Ca-Kabuli-Chr5	18971085	[G/A]	-	DRR	-
CWSNP4256	Ca-Kabuli-Chr5	18971088	[C/A]	-	DRR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP4257	Ca-Kabuli-Chr5	19421820	[C/T]	Ca23514	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP4258	Ca-Kabuli-Chr5	19421868	[C/T]	Ca23514	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP4259	Ca-Kabuli-Chr5	19828124	[G/A]	-	Intergenic	-
CWSNP4260	Ca-Kabuli-Chr5	19828151	[C/A]	-	Intergenic	-
CWSNP4261	Ca-Kabuli-Chr5	19828163	[C/T]	-	Intergenic	-
CWSNP4262	Ca-Kabuli-Chr5	19828166	[C/T]	-	Intergenic	-
CWSNP4263	Ca-Kabuli-Chr5	19828167	[A/C]	-	Intergenic	-
CWSNP4264	Ca-Kabuli-Chr5	19828226	[G/A]	-	Intergenic	-
CWSNP4265	Ca-Kabuli-Chr5	19828190	[T/C]	-	Intergenic	-
CWSNP4266	Ca-Kabuli-Chr5	19828172	[T/G]	-	Intergenic	-
CWSNP4267	Ca-Kabuli-Chr5	19884132	[C/T]	Ca22815	Intron	Vps16,C-terminal
CWSNP4268	Ca-Kabuli-Chr5	19884124	[A/G]	Ca22815	Intron	Vps16,C-terminal
CWSNP4269	Ca-Kabuli-Chr5	20354352	[T/C]	-	Intergenic	-
CWSNP4270	Ca-Kabuli-Chr5	20460859	[T/G]	Ca18208	Non-Synonymous-CDS	TetratricopeptideTPR-1
CWSNP4271	Ca-Kabuli-Chr5	20546402	[T/C]	-	DRR	-
CWSNP4272	Ca-Kabuli-Chr5	20546385	[T/G]	-	DRR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP4273	Ca-Kabuli-Chr5	20644984	[C/A]	Ca18219	Non-Synonymous-CDS	Amidase
CWSNP4274	Ca-Kabuli-Chr5	21163371	[G/A]	-	DRR	-
CWSNP4275	Ca-Kabuli-Chr5	21385948	[T/C]	Ca18243	Synonymous-CDS	Signal transduction response regulator,receiver domain
CWSNP4276	Ca-Kabuli-Chr5	21495583	[C/A]	-	URR	-
CWSNP4277	Ca-Kabuli-Chr5	21495631	[C/T]	-	URR	-
CWSNP4278	Ca-Kabuli-Chr5	21495672	[G/A]	-	URR	-
CWSNP4279	Ca-Kabuli-Chr5	21495707	[A/G]	-	URR	-
CWSNP4280	Ca-Kabuli-Chr5	21495679	[G/A]	-	URR	-
CWSNP4281	Ca-Kabuli-Chr5	21495674	[G/A]	-	URR	-
CWSNP4282	Ca-Kabuli-Chr5	22065518	[C/T]	Ca21161	Intron	-
CWSNP4283	Ca-Kabuli-Chr5	22065859	[G/A]	Ca21161	Synonymous-CDS	-
CWSNP4284	Ca-Kabuli-Chr5	22116961	[T/G]	-	DRR	-
CWSNP4285	Ca-Kabuli-Chr5	22302350	[A/C]	Ca21151	Synonymous-CDS	Ribosome60SbiogenesisN-terminal
CWSNP4286	Ca-Kabuli-Chr5	22344868	[A/G]	Ca21149	Synonymous-CDS	-
CWSNP4287	Ca-Kabuli-Chr5	22679380	[C/A]	-	Intergenic	-
CWSNP4288	Ca-Kabuli-Chr5	23049683	[C/A]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP4289	Ca-Kabuli-Chr5	23161492	[A/T]	Ca21977	Synonymous-CDS	Zinc finger,PHD-type
CWSNP4290	Ca-Kabuli-Chr5	23562595	[G/A]	Ca17690	Non-Synonymous-CDS	-
CWSNP4291	Ca-Kabuli-Chr5	23562827	[G/A]	Ca17690	Intron	-
CWSNP4292	Ca-Kabuli-Chr5	23674814	[C/G]	-	Intergenic	-
CWSNP4293	Ca-Kabuli-Chr5	23674815	[C/T]	-	Intergenic	-
CWSNP4294	Ca-Kabuli-Chr5	23674845	[G/C]	-	Intergenic	-
CWSNP4295	Ca-Kabuli-Chr5	24090533	[C/T]	-	Intergenic	-
CWSNP4296	Ca-Kabuli-Chr5	24090523	[A/C]	-	Intergenic	-
CWSNP4297	Ca-Kabuli-Chr5	24090515	[A/C]	-	Intergenic	-
CWSNP4298	Ca-Kabuli-Chr5	24090749	[A/C]	-	Intergenic	-
CWSNP4299	Ca-Kabuli-Chr5	24153205	[T/C]	Ca17653	Non-Synonymous-CDS	Protein of unknown function DUF3437
CWSNP4300	Ca-Kabuli-Chr5	24153273	[T/C]	Ca17653	Non-Synonymous-CDS	Protein of unknown function DUF3437
CWSNP4301	Ca-Kabuli-Chr5	24153202	[A/C]	Ca17653	Non-Synonymous-CDS	Protein of unknown function DUF3437
CWSNP4302	Ca-Kabuli-Chr5	24153199	[C/T]	Ca17653	Non-Synonymous-CDS	Protein of unknown function DUF3437
CWSNP4303	Ca-Kabuli-Chr5	24166103	[C/T]	Ca17652	Intron	Protein of unknown function DUF3437
CWSNP4304	Ca-Kabuli-Chr5	24166095	[G/A]	Ca17652	Intron	Protein of unknown function DUF3437

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP4305	Ca-Kabuli-Chr5	24166046	[G/A]	Ca17652	Intron	Protein of unknown function DUF3437
CWSNP4306	Ca-Kabuli-Chr5	24166047	[C/T]	Ca17652	Intron	Protein of unknown function DUF3437
CWSNP4307	Ca-Kabuli-Chr5	24166082	[G/A]	Ca17652	Intron	Protein of unknown function DUF3437
CWSNP4308	Ca-Kabuli-Chr5	24181232	[C/A]	Ca17652	Intron	Protein of unknown function DUF3437
CWSNP4309	Ca-Kabuli-Chr5	24181228	[C/A]	Ca17652	Intron	Protein of unknown function DUF3437
CWSNP4310	Ca-Kabuli-Chr5	24245312	[C/A]	Ca15567	Intron	Protein of unknown function DUF3437
CWSNP4311	Ca-Kabuli-Chr5	24245308	[C/A]	Ca15567	Intron	Protein of unknown function DUF3437
CWSNP4312	Ca-Kabuli-Chr5	24576960	[C/T]	-	Intergenic	-
CWSNP4313	Ca-Kabuli-Chr5	24576970	[A/G]	-	Intergenic	-
CWSNP4314	Ca-Kabuli-Chr5	24576993	[T/G]	-	Intergenic	-
CWSNP4315	Ca-Kabuli-Chr5	24843015	[G/T]	-	Intergenic	-
CWSNP4316	Ca-Kabuli-Chr5	25399115	[T/G]	Ca09042	Synonymous-CDS	Zinc finger,CCCH-type
CWSNP4317	Ca-Kabuli-Chr5	25678975	[G/T]	-	DRR	-
CWSNP4318	Ca-Kabuli-Chr5	25697487	[C/G]	-	URR	-
CWSNP4319	Ca-Kabuli-Chr5	25805020	[A/G]	Ca09020	Intron	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP4320	Ca-Kabuli-Chr5	26025356	[A/T]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP4321	Ca-Kabuli-Chr5	26124240	[T/C]	Ca09005	Intron	-
CWSNP4322	Ca-Kabuli-Chr5	26384636	[C/G]	-	DRR	-
CWSNP4323	Ca-Kabuli-Chr5	26474910	[A/C]	Ca08972	Intron	-
CWSNP4324	Ca-Kabuli-Chr5	26496197	[A/G]	Ca08970	Non-Synonymous-CDS	Aminotransferase class-III
CWSNP4325	Ca-Kabuli-Chr5	26626855	[T/G]	Ca08960	Non-Synonymous-CDS	Aminoacyl-tRNA synthetase,classI,conserved site
CWSNP4326	Ca-Kabuli-Chr5	26679836	[C/T]	-	DRR	-
CWSNP4327	Ca-Kabuli-Chr5	26696412	[C/A]	-	URR	-
CWSNP4328	Ca-Kabuli-Chr5	26696547	[C/T]	-	URR	-
CWSNP4329	Ca-Kabuli-Chr5	26696533	[C/T]	-	URR	-
CWSNP4330	Ca-Kabuli-Chr5	26696578	[G/A]	-	URR	-
CWSNP4331	Ca-Kabuli-Chr5	26696624	[G/A]	-	URR	-
CWSNP4332	Ca-Kabuli-Chr5	26785140	[G/A]	-	URR	-
CWSNP4333	Ca-Kabuli-Chr5	26997335	[T/G]	-	DRR	-
CWSNP4334	Ca-Kabuli-Chr5	26999793	[C/T]	-	Intergenic	-
CWSNP4335	Ca-Kabuli-Chr5	27000127	[C/G]	-	Intergenic	-
CWSNP4336	Ca-Kabuli-Chr5	27000104	[C/A]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP4337	Ca-Kabuli-Chr5	27000278	[T/A]	-	Intergenic	-
CWSNP4338	Ca-Kabuli-Chr5	27000280	[T/G]	-	Intergenic	-
CWSNP4339	Ca-Kabuli-Chr5	27117953	[A/G]	Ca08929	Intron	Basic-leucine zipper (bZIP) Transcription factor
CWSNP4340	Ca-Kabuli-Chr5	27150550	[A/G]	Ca08924	Intron	Transcriptional factor B3
CWSNP4341	Ca-Kabuli-Chr5	27334056	[A/C]	-	DRR	-
CWSNP4342	Ca-Kabuli-Chr5	27334057	[G/C]	-	DRR	-
CWSNP4343	Ca-Kabuli-Chr5	27334061	[G/C]	-	DRR	-
CWSNP4344	Ca-Kabuli-Chr5	27361579	[T/G]	Ca08907	Synonymous-CDS	BTB/POZ-like
CWSNP4345	Ca-Kabuli-Chr5	27362570	[G/T]	Ca08907	Non-Synonymous-CDS	BTB/POZ-like
CWSNP4346	Ca-Kabuli-Chr5	27362573	[A/G]	Ca08907	Non-Synonymous-CDS	BTB/POZ-like
CWSNP4347	Ca-Kabuli-Chr5	27362584	[T/G]	Ca08907	Synonymous-CDS	BTB/POZ-like
CWSNP4348	Ca-Kabuli-Chr5	27452484	[C/G]	Ca08906	Synonymous-CDS	Protein kinase, catalytic domain
CWSNP4349	Ca-Kabuli-Chr5	27552106	[A/C]	-	URR	-
CWSNP4350	Ca-Kabuli-Chr5	27568095	[C/A]	Ca08898	Non-Synonymous-CDS	-
CWSNP4351	Ca-Kabuli-Chr5	27568064	[A/C]	Ca08898	Non-Synonymous-CDS	-
CWSNP4352	Ca-Kabuli-Chr5	27568059	[C/T]	Ca08898	Non-Synonymous-CDS	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP4353	Ca-Kabuli-Chr5	27568028	[A/T]	Ca08898	Non-Synonymous-CDS	-
CWSNP4354	Ca-Kabuli-Chr5	27568033	[G/A]	Ca08898	Synonymous-CDS	-
CWSNP4355	Ca-Kabuli-Chr5	27568082	[G/A]	Ca08898	Non-Synonymous-CDS	-
CWSNP4356	Ca-Kabuli-Chr5	27568097	[G/A]	Ca08898	Non-Synonymous-CDS	-
CWSNP4357	Ca-Kabuli-Chr5	27568098	[C/T]	Ca08898	Non-Synonymous-CDS	-
CWSNP4358	Ca-Kabuli-Chr5	27568118	[A/G]	Ca08898	Non-Synonymous-CDS	-
CWSNP4359	Ca-Kabuli-Chr5	27568133	[G/T]	Ca08898	Non-Synonymous-CDS	-
CWSNP4360	Ca-Kabuli-Chr5	27568081	[G/C]	Ca08898	Synonymous-CDS	-
CWSNP4361	Ca-Kabuli-Chr5	27568107	[C/G]	Ca08898	Non-Synonymous-CDS	-
CWSNP4362	Ca-Kabuli-Chr5	27568156	[C/G]	Ca08898	Non-Synonymous-CDS	-
CWSNP4363	Ca-Kabuli-Chr5	27568141	[C/T]	Ca08898	Synonymous-CDS	-
CWSNP4364	Ca-Kabuli-Chr5	27568180	[C/T]	Ca08898	Synonymous-CDS	-
CWSNP4365	Ca-Kabuli-Chr5	27568176	[T/C]	Ca08898	Non-Synonymous-CDS	-
CWSNP4366	Ca-Kabuli-Chr5	27605037	[A/T]	-	Intergenic	-
CWSNP4367	Ca-Kabuli-Chr5	27605063	[T/A]	-	Intergenic	-
CWSNP4368	Ca-Kabuli-Chr5	27605081	[C/T]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP4369	Ca-Kabuli-Chr5	27605095	[G/C]	-	Intergenic	-
CWSNP4370	Ca-Kabuli-Chr5	27692818	[C/T]	-	Intergenic	-
CWSNP4371	Ca-Kabuli-Chr5	27692822	[C/T]	-	Intergenic	-
CWSNP4372	Ca-Kabuli-Chr5	27692823	[A/T]	-	Intergenic	-
CWSNP4373	Ca-Kabuli-Chr5	27692831	[A/T]	-	Intergenic	-
CWSNP4374	Ca-Kabuli-Chr5	27694205	[C/A]	-	DRR	-
CWSNP4375	Ca-Kabuli-Chr5	27786025	[T/C]	Ca08871	Intron	-
CWSNP4376	Ca-Kabuli-Chr5	27838003	[T/C]	-	Intergenic	-
CWSNP4377	Ca-Kabuli-Chr5	27939162	[G/A]	-	Intergenic	-
CWSNP4378	Ca-Kabuli-Chr5	27939135	[G/C]	-	Intergenic	-
CWSNP4379	Ca-Kabuli-Chr5	27939134	[A/T]	-	Intergenic	-
CWSNP4380	Ca-Kabuli-Chr5	27939128	[A/G]	-	Intergenic	-
CWSNP4381	Ca-Kabuli-Chr5	27974691	[G/T]	Ca13421	Intron	ABC-1
CWSNP4382	Ca-Kabuli-Chr5	28016628	[C/T]	-	DRR	-
CWSNP4383	Ca-Kabuli-Chr5	28016669	[A/G]	-	DRR	-
CWSNP4384	Ca-Kabuli-Chr5	28071467	[A/G]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP4385	Ca-Kabuli-Chr5	28116988	[A/T]	-	Intergenic	-
CWSNP4386	Ca-Kabuli-Chr5	28117011	[C/T]	-	Intergenic	-
CWSNP4387	Ca-Kabuli-Chr5	28164985	[G/C]	Ca13404	Intron	Clathrin,heavy chain/VPS,7-fold repeat
CWSNP4388	Ca-Kabuli-Chr5	28168910	[A/G]	-	URR	-
CWSNP4389	Ca-Kabuli-Chr5	28169475	[T/C]	-	URR	-
CWSNP4390	Ca-Kabuli-Chr5	28175039	[A/G]	Ca13403	Non-Synonymous-CDS	-
CWSNP4391	Ca-Kabuli-Chr5	28266046	[T/G]	Ca13399	Synonymous-CDS	-
CWSNP4392	Ca-Kabuli-Chr5	28271638	[G/C]	Ca13398	Intron	Bacterial surface antigen (D15)
CWSNP4393	Ca-Kabuli-Chr5	28271732	[C/T]	Ca13398	Intron	Bacterial surface antigen (D15)
CWSNP4394	Ca-Kabuli-Chr5	28271742	[G/A]	Ca13398	Intron	Bacterial surface antigen (D15)
CWSNP4395	Ca-Kabuli-Chr5	28271767	[G/C]	Ca13398	Intron	Bacterial surface antigen (D15)
CWSNP4396	Ca-Kabuli-Chr5	28327832	[T/G]	-	URR	-
CWSNP4397	Ca-Kabuli-Chr5	28327883	[G/A]	-	URR	-
CWSNP4398	Ca-Kabuli-Chr5	28327870	[T/C]	-	URR	-
CWSNP4399	Ca-Kabuli-Chr5	28327868	[G/A]	-	URR	-
CWSNP4400	Ca-Kabuli-Chr5	28327856	[T/C]	-	URR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP4401	Ca-Kabuli-Chr5	28335455	[A/C]	Ca13389	Synonymous-CDS	Histidine phosphatase superfamily, clade-2
CWSNP4402	Ca-Kabuli-Chr5	28346497	[C/T]	Ca13388	Synonymous-CDS	Lateral organ boundaries, LOB
CWSNP4403	Ca-Kabuli-Chr5	28360495	[C/T]	-	Intergenic	-
CWSNP4404	Ca-Kabuli-Chr5	28360492	[C/T]	-	Intergenic	-
CWSNP4405	Ca-Kabuli-Chr5	28360585	[A/G]	-	URR	-
CWSNP4406	Ca-Kabuli-Chr5	28383374	[G/T]	Ca13385	Intron	Autophagy-relatedprotein 27
CWSNP4407	Ca-Kabuli-Chr5	28562734	[G/A]	-	Intergenic	-
CWSNP4408	Ca-Kabuli-Chr5	28581814	[A/G]	-	URR	-
CWSNP4409	Ca-Kabuli-Chr5	28581815	[C/G]	-	URR	-
CWSNP4410	Ca-Kabuli-Chr5	28581827	[T/C]	-	URR	-
CWSNP4411	Ca-Kabuli-Chr5	28581866	[T/C]	-	URR	-
CWSNP4412	Ca-Kabuli-Chr5	28582525	[C/T]	-	URR	-
CWSNP4413	Ca-Kabuli-Chr5	28582806	[T/C]	-	URR	-
CWSNP4414	Ca-Kabuli-Chr5	28582763	[A/G]	-	URR	-
CWSNP4415	Ca-Kabuli-Chr5	28583402	[G/A]	Ca13367	Intron	Sel1-like
CWSNP4416	Ca-Kabuli-Chr5	28583375	[C/G]	Ca13367	Intron	Sel1-like

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP4417	Ca-Kabuli-Chr5	28717362	[C/T]	Ca13358	Non-Synonymous-CDS	Oligopeptide transporter
CWSNP4418	Ca-Kabuli-Chr5	28717384	[C/T]	Ca13358	Synonymous-CDS	Oligopeptide transporter
CWSNP4419	Ca-Kabuli-Chr5	28721236	[C/T]	-	DRR	-
CWSNP4420	Ca-Kabuli-Chr5	28721237	[A/G]	-	DRR	-
CWSNP4421	Ca-Kabuli-Chr5	28721386	[T/C]	-	DRR	-
CWSNP4422	Ca-Kabuli-Chr5	28721383	[A/C]	-	DRR	-
CWSNP4423	Ca-Kabuli-Chr5	28746139	[A/G]	Ca13355	Non-Synonymous-CDS	Haloacid dehalogenase-like hydrolase
CWSNP4424	Ca-Kabuli-Chr5	28757467	[A/T]	Ca13354	Non-Synonymous-CDS	Protein of unknown function DUF827,plant
CWSNP4425	Ca-Kabuli-Chr5	28757485	[A/C]	Ca13354	Non-Synonymous-CDS	Protein of unknown function DUF827,plant
CWSNP4426	Ca-Kabuli-Chr5	28757507	[A/T]	Ca13354	Non-Synonymous-CDS	Protein of unknown function DUF827,plant
CWSNP4427	Ca-Kabuli-Chr5	28758723	[A/G]	Ca13354	Intron	Protein of unknown function DUF827,plant
CWSNP4428	Ca-Kabuli-Chr5	28817832	[A/G]	-	Intergenic	-
CWSNP4429	Ca-Kabuli-Chr5	28827467	[A/G]	-	Intergenic	-
CWSNP4430	Ca-Kabuli-Chr5	28854486	[C/T]	-	Intergenic	-
CWSNP4431	Ca-Kabuli-Chr5	28905203	[A/C]	Ca13344	Non-Synonymous-CDS	Drug/metabolite transporter
CWSNP4432	Ca-Kabuli-Chr5	29007895	[T/C]	Ca23834	Synonymous-CDS	Camphor resistance CrcB protein

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP4433	Ca-Kabuli-Chr5	29007886	[C/A]	Ca23834	Synonymous-CDS	Camphor resistance CrcB protein
CWSNP4434	Ca-Kabuli-Chr5	29007884	[A/C]	Ca23834	Non-Synonymous-CDS	Camphor resistance CrcB protein
CWSNP4435	Ca-Kabuli-Chr5	29007882	[A/C]	Ca23834	Non-Synonymous-CDS	Camphor resistance CrcB protein
CWSNP4436	Ca-Kabuli-Chr5	29007879	[T/C]	Ca23834	Non-Synonymous-CDS	Camphor resistance CrcB protein
CWSNP4437	Ca-Kabuli-Chr5	29007847	[A/C]	Ca23834	Synonymous-CDS	Camphor resistance CrcB protein
CWSNP4438	Ca-Kabuli-Chr5	29007844	[T/C]	Ca23834	Synonymous-CDS	Camphor resistance CrcB protein
CWSNP4439	Ca-Kabuli-Chr5	29080060	[C/T]	Ca23829	Synonymous-CDS	Protein kinase, catalytic domain
CWSNP4440	Ca-Kabuli-Chr5	29354269	[A/T]	-	URR	-
CWSNP4441	Ca-Kabuli-Chr5	29437139	[C/T]	-	Intergenic	-
CWSNP4442	Ca-Kabuli-Chr5	29437146	[C/A]	-	Intergenic	-
CWSNP4443	Ca-Kabuli-Chr5	29437162	[A/C]	-	Intergenic	-
CWSNP4444	Ca-Kabuli-Chr5	29437171	[A/T]	-	Intergenic	-
CWSNP4445	Ca-Kabuli-Chr5	29437181	[A/C]	-	Intergenic	-
CWSNP4446	Ca-Kabuli-Chr5	29437193	[A/C]	-	Intergenic	-
CWSNP4447	Ca-Kabuli-Chr5	29528904	[T/G]	Ca16640	Non-Synonymous-CDS	Sugar/inositol transporter
CWSNP4448	Ca-Kabuli-Chr5	29567676	[T/C]	-	DRR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP4449	Ca-Kabuli-Chr5	29567820	[T/C]	-	DRR	-
CWSNP4450	Ca-Kabuli-Chr5	29576716	[A/C]	-	Intergenic	-
CWSNP4451	Ca-Kabuli-Chr5	29608657	[T/C]	-	Intergenic	-
CWSNP4452	Ca-Kabuli-Chr5	29641659	[T/C]	-	DRR	-
CWSNP4453	Ca-Kabuli-Chr5	29658280	[A/C]	Ca16650	Intron	Protein of unknown function DUF248,methyltransferase putative
CWSNP4454	Ca-Kabuli-Chr5	29824218	[T/G]	-	URR	-
CWSNP4455	Ca-Kabuli-Chr5	29999414	[C/T]	-	Intergenic	-
CWSNP4456	Ca-Kabuli-Chr5	29999433	[C/A]	-	Intergenic	-
CWSNP4457	Ca-Kabuli-Chr5	29999465	[T/G]	-	Intergenic	-
CWSNP4458	Ca-Kabuli-Chr5	29999476	[G/A]	-	Intergenic	-
CWSNP4459	Ca-Kabuli-Chr5	30035763	[A/T]	Ca04680	Synonymous-CDS	Sugar/inositol transporter
CWSNP4460	Ca-Kabuli-Chr5	30049265	[G/A]	-	URR	-
CWSNP4461	Ca-Kabuli-Chr5	30053540	[C/G]	-	Intergenic	-
CWSNP4462	Ca-Kabuli-Chr5	30060160	[C/T]	-	Intergenic	-
CWSNP4463	Ca-Kabuli-Chr5	30086232	[A/C]	-	URR	-
CWSNP4464	Ca-Kabuli-Chr5	30090906	[A/G]	-	DRR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP4465	Ca-Kabuli-Chr5	30091063	[G/A]	-	DRR	-
CWSNP4466	Ca-Kabuli-Chr5	30191389	[A/C]	-	Intergenic	-
CWSNP4467	Ca-Kabuli-Chr5	30248447	[C/A]	-	URR	-
CWSNP4468	Ca-Kabuli-Chr5	30367349	[G/T]	Ca04714	Non-Synonymous-CDS	HECT
CWSNP4469	Ca-Kabuli-Chr5	30373542	[A/G]	Ca04715	Non-Synonymous-CDS	Armadillo
CWSNP4470	Ca-Kabuli-Chr5	30373783	[T/A]	Ca04715	Synonymous-CDS	Armadillo
CWSNP4471	Ca-Kabuli-Chr5	30562524	[G/T]	-	DRR	-
CWSNP4472	Ca-Kabuli-Chr5	30632697	[A/G]	Ca04756	Intron	-
CWSNP4473	Ca-Kabuli-Chr5	30656058	[A/T]	Ca04757	Intron	Kinesin , motor domain
CWSNP4474	Ca-Kabuli-Chr5	30690891	[T/G]	-	DRR	-
CWSNP4475	Ca-Kabuli-Chr5	30690885	[A/G]	-	DRR	-
CWSNP4476	Ca-Kabuli-Chr5	30691510	[A/G]	-	DRR	-
CWSNP4477	Ca-Kabuli-Chr5	30691515	[G/A]	-	DRR	-
CWSNP4478	Ca-Kabuli-Chr5	30691543	[A/G]	-	DRR	-
CWSNP4479	Ca-Kabuli-Chr5	30697511	[G/A]	-	DRR	-
CWSNP4480	Ca-Kabuli-Chr5	30811250	[A/T]	-	URR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP4481	Ca-Kabuli-Chr5	30868695	[G/C]	-	Intergenic	-
CWSNP4482	Ca-Kabuli-Chr5	31025764	[G/T]	-	Intergenic	-
CWSNP4483	Ca-Kabuli-Chr5	31126125	[C/T]	-	URR	-
CWSNP4484	Ca-Kabuli-Chr5	31131830	[T/C]	Ca04815	Intron	-
CWSNP4485	Ca-Kabuli-Chr5	31132568	[A/T]	Ca04815	Synonymous-CDS	-
CWSNP4486	Ca-Kabuli-Chr5	31162533	[G/A]	-	DRR	-
CWSNP4487	Ca-Kabuli-Chr5	31164387	[G/C]	Ca04820	Intron	-
CWSNP4488	Ca-Kabuli-Chr5	31164539	[T/C]	Ca04820	Synonymous-CDS	Armadillo
CWSNP4489	Ca-Kabuli-Chr5	31165048	[T/C]	Ca04820	Synonymous-CDS	Armadillo
CWSNP4490	Ca-Kabuli-Chr5	31165039	[T/C]	Ca04820	Synonymous-CDS	Armadillo
CWSNP4491	Ca-Kabuli-Chr5	31165035	[T/C]	Ca04820	Non-Synonymous-CDS	Armadillo
CWSNP4492	Ca-Kabuli-Chr5	31165002	[A/C]	Ca04820	Non-Synonymous-CDS	Armadillo
CWSNP4493	Ca-Kabuli-Chr5	31176844	[G/A]	Ca04822	Intron	EPS15 homology (EH)
CWSNP4494	Ca-Kabuli-Chr5	31194974	[T/C]	-	Intergenic	-
CWSNP4495	Ca-Kabuli-Chr5	31215109	[C/T]	-	DRR	-
CWSNP4496	Ca-Kabuli-Chr5	31314012	[A/C]	Ca04834	Synonymous-CDS	Phox/Bem1p

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP4497	Ca-Kabuli-Chr5	31314056	[A/C]	Ca04834	Synonymous-CDS	Phox/Bem1p
CWSNP4498	Ca-Kabuli-Chr5	31390319	[C/T]	Ca04841	Intron	-
CWSNP4499	Ca-Kabuli-Chr5	31687891	[A/C]	Ca04871	Non-Synonymous-CDS	RNA-binding proteinLupusLa
CWSNP4500	Ca-Kabuli-Chr5	31750242	[A/G]	-	DRR	-
CWSNP4501	Ca-Kabuli-Chr5	31935674	[T/C]	Ca04898	Non-Synonymous-CDS	Protein of unknown function DUF869,plant
CWSNP4502	Ca-Kabuli-Chr5	32011781	[G/T]	Ca04904	Intron	Kinesin , motor domain
CWSNP4503	Ca-Kabuli-Chr5	32011792	[T/G]	Ca04904	Intron	Kinesin , motor domain
CWSNP4504	Ca-Kabuli-Chr5	32171632	[G/A]	Ca04917	Intron	Tetrapyrrolemethylase
CWSNP4505	Ca-Kabuli-Chr5	32291158	[C/T]	Ca04927	Non-Synonymous-CDS	Aminotransferase-like,plant mobile domain
CWSNP4506	Ca-Kabuli-Chr5	32291118	[G/A]	-	Intergenic	-
CWSNP4507	Ca-Kabuli-Chr5	32357511	[G/A]	Ca04934	Non-Synonymous-CDS	Pseudouridine synthase/archaeosine transglycosylase
CWSNP4508	Ca-Kabuli-Chr5	32368485	[G/C]	-	DRR	-
CWSNP4509	Ca-Kabuli-Chr5	32399391	[T/A]	-	URR	-
CWSNP4510	Ca-Kabuli-Chr5	32516773	[T/A]	Ca04958	Intron	-
CWSNP4511	Ca-Kabuli-Chr5	32524646	[T/C]	Ca04959	Intron	-
CWSNP4512	Ca-Kabuli-Chr5	32598221	[C/A]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP4513	Ca-Kabuli-Chr5	32816626	[G/T]	-	Intergenic	-
CWSNP4514	Ca-Kabuli-Chr5	32840522	[T/C]	Ca04983	Non-Synonymous-CDS	Quinate/shikimate5-dehydrogenase/glutamyl-tRNAreductase
CWSNP4515	Ca-Kabuli-Chr5	32840541	[T/G]	Ca04983	Non-Synonymous-CDS	Quinate/shikimate5-dehydrogenase/glutamyl-tRNAreductase
CWSNP4516	Ca-Kabuli-Chr5	32859504	[T/G]	Ca04985	Intron	Protein of unknown function DUF3453
CWSNP4517	Ca-Kabuli-Chr5	32859515	[T/G]	Ca04985	Intron	Protein of unknown function DUF3453
CWSNP4518	Ca-Kabuli-Chr5	32860087	[C/T]	Ca04985	Intron	Protein of unknown function DUF3453
CWSNP4519	Ca-Kabuli-Chr5	32978975	[A/T]	-	Intergenic	-
CWSNP4520	Ca-Kabuli-Chr5	33052329	[C/G]	-	Intergenic	-
CWSNP4521	Ca-Kabuli-Chr5	33255823	[T/G]	-	DRR	-
CWSNP4522	Ca-Kabuli-Chr5	33422813	[C/T]	-	DRR	-
CWSNP4523	Ca-Kabuli-Chr5	33523676	[T/C]	-	Intergenic	-
CWSNP4524	Ca-Kabuli-Chr5	33523686	[G/A]	-	Intergenic	-
CWSNP4525	Ca-Kabuli-Chr5	33532807	[A/G]	-	URR	-
CWSNP4526	Ca-Kabuli-Chr5	33627132	[T/C]	-	Intergenic	-
CWSNP4527	Ca-Kabuli-Chr5	33631108	[A/G]	-	Intergenic	-
CWSNP4528	Ca-Kabuli-Chr5	33631266	[T/A]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP4529	Ca-Kabuli-Chr5	33673894	[T/C]	-	URR	-
CWSNP4530	Ca-Kabuli-Chr5	33812213	[A/C]	Ca01876	Intron	-
CWSNP4531	Ca-Kabuli-Chr5	33812363	[T/A]	Ca01876	Intron	-
CWSNP4532	Ca-Kabuli-Chr5	33818742	[T/A]	Ca01875	Non-Synonymous-CDS	RNA recognition motif domain
CWSNP4533	Ca-Kabuli-Chr5	33818823	[A/G]	Ca01875	Non-Synonymous-CDS	RNA recognition motif domain
CWSNP4534	Ca-Kabuli-Chr5	33892596	[A/C]	Ca01864	Non-Synonymous-CDS	Proteasome component (PCI) domain
CWSNP4535	Ca-Kabuli-Chr5	33937307	[G/A]	-	DRR	-
CWSNP4536	Ca-Kabuli-Chr5	33937316	[G/A]	-	DRR	-
CWSNP4537	Ca-Kabuli-Chr5	33963525	[G/C]	-	Intergenic	-
CWSNP4538	Ca-Kabuli-Chr5	33986253	[A/C]	Ca01852	Synonymous-CDS	Protein kinase, catalytic domain
CWSNP4539	Ca-Kabuli-Chr5	34202075	[T/G]	Ca01827	Non-Synonymous-CDS	Peptidase C19,ubiquitin carboxyl-terminalhydrolase 2
CWSNP4540	Ca-Kabuli-Chr5	34441581	[A/C]	Ca01800	Non-Synonymous-CDS	Transcription elongation factorS-II,centraldomain
CWSNP4541	Ca-Kabuli-Chr5	34531222	[A/G]	Ca01787	Intron	ABC transporter-like
CWSNP4542	Ca-Kabuli-Chr5	34535758	[T/C]	Ca01787	Non-Synonymous-CDS	ABC transporter-like
CWSNP4543	Ca-Kabuli-Chr5	34535893	[G/T]	-	Intergenic	-
CWSNP4544	Ca-Kabuli-Chr5	34824749	[A/T]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP4545	Ca-Kabuli-Chr5	34845398	[T/G]	-	DRR	-
CWSNP4546	Ca-Kabuli-Chr5	34974703	[C/T]	-	DRR	-
CWSNP4547	Ca-Kabuli-Chr5	35191371	[C/G]	Ca01716	Non-Synonymous-CDS	Proteasome component (PCI) domain
CWSNP4548	Ca-Kabuli-Chr5	35500751	[T/C]	Ca01682	Synonymous-CDS	Sterilealphamotifdomain
CWSNP4549	Ca-Kabuli-Chr5	35555184	[A/G]	-	Intergenic	-
CWSNP4550	Ca-Kabuli-Chr5	35617798	[A/C]	-	DRR	-
CWSNP4551	Ca-Kabuli-Chr5	35690996	[G/A]	-	URR	-
CWSNP4552	Ca-Kabuli-Chr5	35715571	[A/C]	-	Intergenic	-
CWSNP4553	Ca-Kabuli-Chr5	35715548	[T/C]	-	Intergenic	-
CWSNP4554	Ca-Kabuli-Chr5	35773044	[A/G]	-	URR	-
CWSNP4555	Ca-Kabuli-Chr5	35789373	[T/A]	Ca01646	Intron	Protein kinase, catalytic domain
CWSNP4556	Ca-Kabuli-Chr5	35839233	[G/A]	Ca01642	Synonymous-CDS	Mitochondrial carrier protein
CWSNP4557	Ca-Kabuli-Chr5	35844295	[G/T]	-	DRR	-
CWSNP4558	Ca-Kabuli-Chr5	35877505	[T/C]	Ca01638	Synonymous-CDS	Mitochondrial carrier protein
CWSNP4559	Ca-Kabuli-Chr5	35937842	[G/T]	Ca01631	Non-Synonymous-CDS	NADH:ubiquinone oxidoreductase-like,20 kDa subunit
CWSNP4560	Ca-Kabuli-Chr5	36128655	[G/T]	Ca01611	Intron	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP4561	Ca-Kabuli-Chr5	36131156	[A/C]	Ca01611	Intron	-
CWSNP4562	Ca-Kabuli-Chr5	36238656	[G/A]	Ca01601	Intron	ATPase,P-type,K/Mg/Cd/Cu/Zn/Na/Ca/Na/H-transporter
CWSNP4563	Ca-Kabuli-Chr5	36238655	[G/C]	Ca01601	Intron	ATPase,P-type,K/Mg/Cd/Cu/Zn/Na/Ca/Na/H-transporter
CWSNP4564	Ca-Kabuli-Chr5	36408719	[G/A]	-	Intergenic	-
CWSNP4565	Ca-Kabuli-Chr5	36534056	[G/C]	Ca01566	Intron	MRG
CWSNP4566	Ca-Kabuli-Chr5	36534063	[C/T]	Ca01566	Intron	MRG
CWSNP4567	Ca-Kabuli-Chr5	36619837	[A/G]	Ca01558	Intron	Kinesin , motor domain
CWSNP4568	Ca-Kabuli-Chr5	36621872	[A/T]	Ca01558	Non-Synonymous-CDS	Kinesin , motor domain
CWSNP4569	Ca-Kabuli-Chr5	36672147	[C/T]	Ca01555	Non-Synonymous-CDS	RNA recognition motif domain
CWSNP4570	Ca-Kabuli-Chr5	36673950	[C/A]	-	URR	-
CWSNP4571	Ca-Kabuli-Chr5	36735459	[A/T]	Ca01550	Non-Synonymous-CDS	Helix-loop-helix DNA-binding domain
CWSNP4572	Ca-Kabuli-Chr5	36751625	[C/T]	-	Intergenic	-
CWSNP4573	Ca-Kabuli-Chr5	36751851	[T/A]	-	Intergenic	-
CWSNP4574	Ca-Kabuli-Chr5	36757408	[G/A]	-	Intergenic	-
CWSNP4575	Ca-Kabuli-Chr5	36797187	[G/T]	-	DRR	-
CWSNP4576	Ca-Kabuli-Chr5	36999074	[G/C]	Ca01518	Non-Synonymous-CDS	Protein kinase, catalytic domain

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CWSNP4577	Ca-Kabuli-Chr5	37016704	[C/G]	-	DRR	-
CWSNP4578	Ca-Kabuli-Chr5	37039246	[A/T]	-	URR	-
CWSNP4579	Ca-Kabuli-Chr5	37039300	[A/G]	-	URR	-
CWSNP4580	Ca-Kabuli-Chr5	37040045	[G/A]	-	URR	-
CWSNP4581	Ca-Kabuli-Chr5	37067293	[A/G]	Ca01509	Intron	Aminoacyl-tRNA synthetase, class II (G/H/P/S), conserved domain
CWSNP4582	Ca-Kabuli-Chr5	37083276	[T/G]	Ca01507	Intron	GRAM
CWSNP4583	Ca-Kabuli-Chr5	37083275	[G/T]	Ca01507	Intron	GRAM
CWSNP4584	Ca-Kabuli-Chr5	37126371	[A/G]	-	DRR	-
CWSNP4585	Ca-Kabuli-Chr5	37197321	[C/A]	-	Intergenic	-
CWSNP4586	Ca-Kabuli-Chr5	37274572	[C/T]	-	Intergenic	-
CWSNP4587	Ca-Kabuli-Chr5	37274583	[C/T]	-	Intergenic	-
CWSNP4588	Ca-Kabuli-Chr5	37274616	[C/G]	-	Intergenic	-
CWSNP4589	Ca-Kabuli-Chr5	37309935	[T/G]	Ca01488	Non-Synonymous-CDS	GDP-fucose protein O-fucosyltransferase
CWSNP4590	Ca-Kabuli-Chr5	37375575	[C/G]	Ca01480	Intron	Flavodoxin
CWSNP4591	Ca-Kabuli-Chr5	37460980	[A/G]	-	DRR	-
CWSNP4592	Ca-Kabuli-Chr5	37555846	[T/A]	Ca01465	Intron	Domain of unknown function FMP27, domain-4

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP4593	Ca-Kabuli-Chr5	37578999	[T/G]	Ca01463	Intron	Protein of unknown function DUF914,eukaryotic
CWSNP4594	Ca-Kabuli-Chr5	37604030	[T/C]	-	URR	-
CWSNP4595	Ca-Kabuli-Chr5	37874725	[A/C]	-	Intergenic	-
CWSNP4596	Ca-Kabuli-Chr5	37886417	[T/G]	-	Intergenic	-
CWSNP4597	Ca-Kabuli-Chr5	37899098	[T/C]	-	URR	-
CWSNP4598	Ca-Kabuli-Chr5	38018552	[A/T]	-	Intergenic	-
CWSNP4599	Ca-Kabuli-Chr5	38018558	[G/C]	-	Intergenic	-
CWSNP4600	Ca-Kabuli-Chr5	38057582	[C/T]	Ca01417	Non-Synonymous-CDS	Zinc finger,DHHC-type,palmitoyltransferase
CWSNP4601	Ca-Kabuli-Chr5	38080226	[A/G]	Ca01411	Synonymous-CDS	Protein kinase, catalytic domain
CWSNP4602	Ca-Kabuli-Chr5	38080349	[C/T]	Ca01411	Synonymous-CDS	Protein kinase, catalytic domain
CWSNP4603	Ca-Kabuli-Chr5	38092606	[G/A]	-	Intergenic	-
CWSNP4604	Ca-Kabuli-Chr5	38092732	[C/T]	-	Intergenic	-
CWSNP4605	Ca-Kabuli-Chr5	38092735	[C/T]	-	Intergenic	-
CWSNP4606	Ca-Kabuli-Chr5	38092793	[C/T]	-	Intergenic	-
CWSNP4607	Ca-Kabuli-Chr5	38102941	[T/G]	Ca01408	Synonymous-CDS	-
CWSNP4608	Ca-Kabuli-Chr5	38108396	[G/A]	Ca01407	Non-Synonymous-CDS	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP4609	Ca-Kabuli-Chr5	38110219	[T/G]	-	DRR	-
CWSNP4610	Ca-Kabuli-Chr5	38220843	[G/A]	-	Intergenic	-
CWSNP4611	Ca-Kabuli-Chr5	38307036	[G/A]	Ca01392	Synonymous-CDS	Glycosidehydrolase,family38,core
CWSNP4612	Ca-Kabuli-Chr5	38347201	[A/C]	Ca01389	Synonymous-CDS	WD40 repeat
CWSNP4613	Ca-Kabuli-Chr5	38455563	[A/C]	Ca07405	Synonymous-CDS	Telomere length regulation protein, conserved domain
CWSNP4614	Ca-Kabuli-Chr5	38509657	[A/C]	Ca07410	Intron	Transcriptional factor B3
CWSNP4615	Ca-Kabuli-Chr5	38538904	[A/G]	Ca07411	Intron	Glycosyltransferase,family48
CWSNP4616	Ca-Kabuli-Chr5	38551438	[C/T]	-	Intergenic	-
CWSNP4617	Ca-Kabuli-Chr5	38783604	[C/A]	Ca07428	Non-Synonymous-CDS	Mediator complex subunit Med28
CWSNP4618	Ca-Kabuli-Chr5	38857904	[T/C]	-	Intergenic	-
CWSNP4619	Ca-Kabuli-Chr5	38892604	[A/C]	-	Intergenic	-
CWSNP4620	Ca-Kabuli-Chr5	38898971	[G/A]	-	DRR	-
CWSNP4621	Ca-Kabuli-Chr5	38909701	[C/T]	Ca07443	Non-Synonymous-CDS	Drought induced19/RING finger protein 114
CWSNP4622	Ca-Kabuli-Chr5	39283856	[G/A]	Ca07474	Intron	-
CWSNP4623	Ca-Kabuli-Chr5	39326933	[G/T]	-	Intergenic	-
CWSNP4624	Ca-Kabuli-Chr5	39364522	[T/C]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP4625	Ca-Kabuli-Chr5	39364569	[G/A]	-	Intergenic	-
CWSNP4626	Ca-Kabuli-Chr5	39364571	[C/A]	-	Intergenic	-
CWSNP4627	Ca-Kabuli-Chr5	39364720	[A/T]	-	Intergenic	-
CWSNP4628	Ca-Kabuli-Chr5	39364700	[C/A]	-	Intergenic	-
CWSNP4629	Ca-Kabuli-Chr5	39364695	[A/C]	-	Intergenic	-
CWSNP4630	Ca-Kabuli-Chr5	39364667	[T/A]	-	Intergenic	-
CWSNP4631	Ca-Kabuli-Chr5	39364741	[A/T]	-	Intergenic	-
CWSNP4632	Ca-Kabuli-Chr5	39364752	[G/T]	-	Intergenic	-
CWSNP4633	Ca-Kabuli-Chr5	39364895	[A/C]	-	Intergenic	-
CWSNP4634	Ca-Kabuli-Chr5	39364856	[A/G]	-	Intergenic	-
CWSNP4635	Ca-Kabuli-Chr5	39364848	[C/T]	-	Intergenic	-
CWSNP4636	Ca-Kabuli-Chr5	39364841	[A/T]	-	Intergenic	-
CWSNP4637	Ca-Kabuli-Chr5	39366353	[C/G]	-	Intergenic	-
CWSNP4638	Ca-Kabuli-Chr5	39385603	[T/G]	-	Intergenic	-
CWSNP4639	Ca-Kabuli-Chr5	39385630	[C/T]	-	Intergenic	-
CWSNP4640	Ca-Kabuli-Chr5	39410329	[T/G]	Ca07478	Intron	Glycosyltransferase, family3

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP4641	Ca-Kabuli-Chr5	39543929	[C/T]	Ca07489	Non-Synonymous-CDS	Phosphatidyl inositol 3-/4-kinase, catalytic
CWSNP4642	Ca-Kabuli-Chr5	39576823	[C/T]	Ca07489	Intron	Phosphatidyl inositol 3-/4-kinase, catalytic
CWSNP4643	Ca-Kabuli-Chr5	39576836	[T/A]	Ca07489	Intron	Phosphatidyl inositol 3-/4-kinase, catalytic
CWSNP4644	Ca-Kabuli-Chr5	39576839	[C/T]	Ca07489	Intron	Phosphatidyl inositol 3-/4-kinase, catalytic
CWSNP4645	Ca-Kabuli-Chr5	39576864	[C/A]	Ca07489	Intron	Phosphatidyl inositol 3-/4-kinase, catalytic
CWSNP4646	Ca-Kabuli-Chr5	39576870	[C/T]	Ca07489	Intron	Phosphatidyl inositol 3-/4-kinase, catalytic
CWSNP4647	Ca-Kabuli-Chr5	39576874	[G/T]	Ca07489	Intron	Phosphatidyl inositol 3-/4-kinase, catalytic
CWSNP4648	Ca-Kabuli-Chr5	39576841	[G/A]	Ca07489	Intron	Phosphatidyl inositol 3-/4-kinase, catalytic
CWSNP4649	Ca-Kabuli-Chr5	39597485	[C/T]	Ca07489	Intron	Phosphatidyl inositol 3-/4-kinase, catalytic
CWSNP4650	Ca-Kabuli-Chr5	39608204	[A/G]	Ca07489	Synonymous-CDS	Phosphatidyl inositol 3-/4-kinase, catalytic
CWSNP4651	Ca-Kabuli-Chr5	39608209	[G/T]	Ca07489	Intron	Phosphatidyl inositol 3-/4-kinase, catalytic
CWSNP4652	Ca-Kabuli-Chr5	39776818	[C/T]	-	Intergenic	-
CWSNP4653	Ca-Kabuli-Chr5	39869398	[C/T]	Ca07512	Synonymous-CDS	Xanthine/uracil/vitaminCpermease
CWSNP4654	Ca-Kabuli-Chr5	39943298	[C/T]	-	Intergenic	-
CWSNP4655	Ca-Kabuli-Chr5	39985332	[A/G]	-	URR	-
CWSNP4656	Ca-Kabuli-Chr5	40018264	[A/C]	-	URR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP4657	Ca-Kabuli-Chr5	40025376	[A/G]	Ca07531	Intron	Argonaute/Dicerprotein,PAZ
CWSNP4658	Ca-Kabuli-Chr5	40025377	[T/A]	Ca07531	Intron	Argonaute/Dicerprotein,PAZ
CWSNP4659	Ca-Kabuli-Chr5	40162755	[T/C]	-	Intergenic	-
CWSNP4660	Ca-Kabuli-Chr5	40164176	[C/G]	-	Intergenic	-
CWSNP4661	Ca-Kabuli-Chr5	40464608	[A/G]	-	DRR	-
CWSNP4662	Ca-Kabuli-Chr5	40507018	[T/A]	Ca07571	Intron	Zinc finger,CCHC-type
CWSNP4663	Ca-Kabuli-Chr5	40532435	[A/G]	-	Intergenic	-
CWSNP4664	Ca-Kabuli-Chr5	40666174	[C/T]	Ca07586	Intron	Sugar/inositol transporter
CWSNP4665	Ca-Kabuli-Chr5	40700318	[C/A]	Ca07589	Non-Synonymous-CDS	Glycosidehydrolase,family17
CWSNP4666	Ca-Kabuli-Chr5	40736291	[C/G]	Ca07594	Intron	Oligopeptide transporterOPTsuperfamily
CWSNP4667	Ca-Kabuli-Chr5	40828566	[A/C]	-	URR	-
CWSNP4668	Ca-Kabuli-Chr5	40828567	[G/C]	-	URR	-
CWSNP4669	Ca-Kabuli-Chr5	40841690	[C/T]	Ca07604	Non-Synonymous-CDS	Oligopeptide transporterOPTsuperfamily
CWSNP4670	Ca-Kabuli-Chr5	40883438	[C/A]	-	Intergenic	-
CWSNP4671	Ca-Kabuli-Chr5	41063657	[C/T]	-	Intergenic	-
CWSNP4672	Ca-Kabuli-Chr5	41066644	[C/G]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP4673	Ca-Kabuli-Chr5	41066664	[T/C]	-	Intergenic	-
CWSNP4674	Ca-Kabuli-Chr5	41066667	[C/A]	-	Intergenic	-
CWSNP4675	Ca-Kabuli-Chr5	41197909	[A/T]	-	Intergenic	-
CWSNP4676	Ca-Kabuli-Chr5	41283253	[T/C]	Ca07642	Non-Synonymous-CDS	Protein of unknown function DUF1296
CWSNP4677	Ca-Kabuli-Chr5	41283453	[A/C]	Ca07642	Non-Synonymous-CDS	Protein of unknown function DUF1296
CWSNP4678	Ca-Kabuli-Chr5	41407253	[T/C]	-	URR	-
CWSNP4679	Ca-Kabuli-Chr5	41678144	[C/T]	Ca19215	Synonymous-CDS	Argonaute/Dicerprotein,PAZ
CWSNP4680	Ca-Kabuli-Chr5	41945308	[G/A]	Ca11418	Non-Synonymous-CDS	Helicase,C-terminal
CWSNP4681	Ca-Kabuli-Chr5	42004600	[T/G]	Ca11412	Intron	Rab-GAP/TBCdomain
CWSNP4682	Ca-Kabuli-Chr5	42004602	[A/G]	Ca11412	Intron	Rab-GAP/TBCdomain
CWSNP4683	Ca-Kabuli-Chr5	42225634	[G/A]	-	Intergenic	-
CWSNP4684	Ca-Kabuli-Chr5	42413430	[A/C]	Ca11377	Intron	Zinc finger,Sec23/Sec24-type
CWSNP4685	Ca-Kabuli-Chr5	42436972	[A/G]	-	Intergenic	-
CWSNP4686	Ca-Kabuli-Chr5	42436976	[A/T]	-	Intergenic	-
CWSNP4687	Ca-Kabuli-Chr5	42528744	[T/G]	Ca11361	Non-Synonymous-CDS	IQ motif, EF-hand binding site
CWSNP4688	Ca-Kabuli-Chr5	42528934	[A/G]	Ca11361	Non-Synonymous-CDS	IQ motif, EF-hand binding site

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP4689	Ca-Kabuli-Chr5	42749499	[C/T]	Ca11334	Intron	-
CWSNP4690	Ca-Kabuli-Chr5	42863366	[C/T]	-	DRR	-
CWSNP4691	Ca-Kabuli-Chr5	42883163	[T/C]	-	URR	-
CWSNP4692	Ca-Kabuli-Chr5	42910653	[A/G]	-	DRR	-
CWSNP4693	Ca-Kabuli-Chr5	42928986	[T/G]	Ca11315	Synonymous-CDS	SANT domain, DNA binding
CWSNP4694	Ca-Kabuli-Chr5	42929087	[A/C]	-	Intergenic	-
CWSNP4695	Ca-Kabuli-Chr5	43037863	[G/A]	Ca11305	Non-Synonymous-CDS	Regulator of G protein signalling
CWSNP4696	Ca-Kabuli-Chr5	43067905	[A/C]	Ca11300	Synonymous-CDS	Membrane insertion protein, OxaA/YidC
CWSNP4697	Ca-Kabuli-Chr5	43080493	[G/A]	Ca11299	Non-Synonymous-CDS	Regulator of chromosome condensation, RCC1
CWSNP4698	Ca-Kabuli-Chr5	43231220	[T/C]	Ca12734	Synonymous-CDS	Protein kinase, catalytic domain
CWSNP4699	Ca-Kabuli-Chr5	43275472	[T/C]	-	DRR	-
CWSNP4700	Ca-Kabuli-Chr5	43710359	[T/G]	-	Intergenic	-
CWSNP4701	Ca-Kabuli-Chr5	43710362	[A/T]	-	Intergenic	-
CWSNP4702	Ca-Kabuli-Chr5	43710366	[G/T]	-	Intergenic	-
CWSNP4703	Ca-Kabuli-Chr5	43710391	[A/G]	-	Intergenic	-
CWSNP4704	Ca-Kabuli-Chr5	43742448	[C/T]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP4705	Ca-Kabuli-Chr5	43742456	[G/A]	-	Intergenic	-
CWSNP4706	Ca-Kabuli-Chr5	43759059	[A/C]	Ca12676	Non-Synonymous-CDS	C2 calcium-dependent membrane targeting
CWSNP4707	Ca-Kabuli-Chr5	43904489	[T/A]	-	Intergenic	-
CWSNP4708	Ca-Kabuli-Chr5	43919009	[C/T]	-	Intergenic	-
CWSNP4709	Ca-Kabuli-Chr5	43919017	[T/G]	-	Intergenic	-
CWSNP4710	Ca-Kabuli-Chr5	43919022	[G/C]	-	Intergenic	-
CWSNP4711	Ca-Kabuli-Chr5	43919028	[A/G]	-	Intergenic	-
CWSNP4712	Ca-Kabuli-Chr5	44109260	[G/T]	Ca12646	Non-Synonymous-CDS	-
CWSNP4713	Ca-Kabuli-Chr5	44159237	[C/G]	-	URR	-
CWSNP4714	Ca-Kabuli-Chr5	44373968	[G/T]	Ca03885	Non-Synonymous-CDS	-
CWSNP4715	Ca-Kabuli-Chr5	44378178	[C/A]	Ca03885	Intron	-
CWSNP4716	Ca-Kabuli-Chr5	44555718	[A/C]	-	Intergenic	-
CWSNP4717	Ca-Kabuli-Chr5	44656921	[G/A]	-	DRR	-
CWSNP4718	Ca-Kabuli-Chr5	44667297	[C/T]	-	URR	-
CWSNP4719	Ca-Kabuli-Chr5	44760403	[A/G]	Ca03920	Synonymous-CDS	Transcription factor GRAS
CWSNP4720	Ca-Kabuli-Chr5	44760347	[G/T]	Ca03920	Non-Synonymous-CDS	Transcription factor GRAS

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP4721	Ca-Kabuli-Chr5	44760469	[C/T]	Ca03920	Synonymous-CDS	Transcription factor GRAS
CWSNP4722	Ca-Kabuli-Chr5	44772326	[G/A]	-	DRR	-
CWSNP4723	Ca-Kabuli-Chr5	44887105	[T/G]	Ca03932	Intron	Sec1-like protein
CWSNP4724	Ca-Kabuli-Chr5	44887241	[T/C]	Ca03932	Intron	Sec1-like protein
CWSNP4725	Ca-Kabuli-Chr5	44887234	[A/C]	Ca03932	Intron	Sec1-like protein
CWSNP4726	Ca-Kabuli-Chr5	44891426	[G/C]	-	Intergenic	-
CWSNP4727	Ca-Kabuli-Chr5	44911842	[C/T]	-	Intergenic	-
CWSNP4728	Ca-Kabuli-Chr5	44918947	[C/A]	-	Intergenic	-
CWSNP4729	Ca-Kabuli-Chr5	44938814	[A/T]	-	DRR	-
CWSNP4730	Ca-Kabuli-Chr5	44939058	[C/G]	-	DRR	-
CWSNP4731	Ca-Kabuli-Chr5	44939033	[G/A]	-	DRR	-
CWSNP4732	Ca-Kabuli-Chr5	45087170	[G/A]	-	Intergenic	-
CWSNP4733	Ca-Kabuli-Chr5	45087156	[A/G]	-	Intergenic	-
CWSNP4734	Ca-Kabuli-Chr5	45087146	[C/G]	-	Intergenic	-
CWSNP4735	Ca-Kabuli-Chr5	45087140	[C/A]	-	Intergenic	-
CWSNP4736	Ca-Kabuli-Chr5	45087202	[G/C]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP4737	Ca-Kabuli-Chr5	45254112	[T/G]	Ca03969	Non-Synonymous-CDS	Zinc finger,C2H2-typematrix
CWSNP4738	Ca-Kabuli-Chr5	45337307	[C/T]	Ca03976	Synonymous-CDS	Pectinesterase,catalytic
CWSNP4739	Ca-Kabuli-Chr5	45407044	[A/C]	Ca03983	Intron	-
CWSNP4740	Ca-Kabuli-Chr5	45480175	[T/G]	-	Intergenic	-
CWSNP4741	Ca-Kabuli-Chr5	45501379	[C/T]	-	Intergenic	-
CWSNP4742	Ca-Kabuli-Chr5	45694453	[T/G]	Ca04017	Synonymous-CDS	ATPase,AAA+type,core
CWSNP4743	Ca-Kabuli-Chr5	45710509	[G/A]	-	Intergenic	-
CWSNP4744	Ca-Kabuli-Chr5	45710476	[A/G]	-	Intergenic	-
CWSNP4745	Ca-Kabuli-Chr5	45750121	[A/T]	Ca04024	Intron	Glucosamine/galactosamine-6-phosphateisomerase
CWSNP4746	Ca-Kabuli-Chr5	45842438	[A/C]	-	URR	-
CWSNP4747	Ca-Kabuli-Chr5	45845081	[A/C]	-	Intergenic	-
CWSNP4748	Ca-Kabuli-Chr5	46018939	[C/T]	-	DRR	-
CWSNP4749	Ca-Kabuli-Chr5	46022566	[C/T]	-	URR	-
CWSNP4750	Ca-Kabuli-Chr5	46022598	[T/C]	-	URR	-
CWSNP4751	Ca-Kabuli-Chr5	46077302	[G/A]	Ca04056	Non-Synonymous-CDS	Signal transduction response regulator,receiver domain
CWSNP4752	Ca-Kabuli-Chr5	46130289	[A/C]	-	DRR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP4753	Ca-Kabuli-Chr5	46176443	[G/A]	-	URR	-
CWSNP4754	Ca-Kabuli-Chr5	46252643	[T/A]	-	Intergenic	-
CWSNP4755	Ca-Kabuli-Chr5	46252605	[C/A]	-	Intergenic	-
CWSNP4756	Ca-Kabuli-Chr5	46301639	[A/G]	Ca04083	Synonymous-CDS	-
CWSNP4757	Ca-Kabuli-Chr5	46328627	[A/G]	-	Intergenic	-
CWSNP4758	Ca-Kabuli-Chr5	46328895	[T/C]	-	Intergenic	-
CWSNP4759	Ca-Kabuli-Chr5	46422869	[A/T]	-	Intergenic	-
CWSNP4760	Ca-Kabuli-Chr5	46526963	[A/C]	Ca04110	Synonymous-CDS	Protein of unknown function DUF2044,membrane
CWSNP4761	Ca-Kabuli-Chr5	47073011	[A/T]	-	URR	-
CWSNP4762	Ca-Kabuli-Chr5	47298345	[A/G]	Ca04186	Intron	Phosphatidyl inositol 3-/4-kinase, catalytic
CWSNP4763	Ca-Kabuli-Chr5	47329979	[T/G]	Ca04190	Non-Synonymous-CDS	Glycosyltransferase,family48
CWSNP4764	Ca-Kabuli-Chr5	47362666	[T/G]	-	Intergenic	-
CWSNP4765	Ca-Kabuli-Chr5	47641628	[T/C]	Ca04224	Synonymous-CDS	Heat shock protein DnaJ,N-terminal
CWSNP4766	Ca-Kabuli-Chr5	47641567	[A/G]	Ca04224	Non-Synonymous-CDS	Heat shock protein DnaJ,N-terminal
CWSNP4767	Ca-Kabuli-Chr5	47643992	[G/T]	Ca04224	Intron	Heat shock protein DnaJ,N-terminal
CWSNP4768	Ca-Kabuli-Chr5	47670649	[G/A]	Ca04227	Non-Synonymous-CDS	Amino acid transporter,transmembrane

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP4769	Ca-Kabuli-Chr5	47718830	[A/G]	Ca04232	Intron	Glycosidehydrolase, family35
CWSNP4770	Ca-Kabuli-Chr5	47770909	[T/G]	Ca04238	Intron	Amidase
CWSNP4771	Ca-Kabuli-Chr5	47812041	[C/T]	-	Intergenic	-
CWSNP4772	Ca-Kabuli-Chr5	47829331	[T/A]	-	Intergenic	-
CWSNP4773	Ca-Kabuli-Chr5	47965279	[G/A]	Ca04258	Non-Synonymous-CDS	-
CWSNP4774	Ca-Kabuli-Chr5	47994780	[A/C]	Ca04259	Intron	Cofprotein
CWSNP4775	Ca-Kabuli-Chr5	48069833	[G/A]	-	Intergenic	-
CWSNP4776	Ca-Kabuli-Chr6	152513	[C/T]	-	Intergenic	-
CWSNP4777	Ca-Kabuli-Chr6	166823	[G/A]	-	URR	-
CWSNP4778	Ca-Kabuli-Chr6	166806	[C/T]	-	URR	-
CWSNP4779	Ca-Kabuli-Chr6	166959	[G/A]	-	URR	-
CWSNP4780	Ca-Kabuli-Chr6	166943	[G/A]	-	URR	-
CWSNP4781	Ca-Kabuli-Chr6	166938	[G/T]	-	URR	-
CWSNP4782	Ca-Kabuli-Chr6	166934	[G/A]	-	URR	-
CWSNP4783	Ca-Kabuli-Chr6	166932	[G/A]	-	URR	-
CWSNP4784	Ca-Kabuli-Chr6	204368	[G/A]	Ca13250	Intron	Flavin-containing amineoxidase

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP4785	Ca-Kabuli-Chr6	204412	[G/C]	Ca13250	Intron	Flavin-containing amineoxidase
CWSNP4786	Ca-Kabuli-Chr6	204438	[T/C]	Ca13250	Intron	Flavin-containing amineoxidase
CWSNP4787	Ca-Kabuli-Chr6	324301	[C/T]	Ca13257	Non-Synonymous-CDS	Zinc finger, FYVE-type
CWSNP4788	Ca-Kabuli-Chr6	375684	[T/G]	Ca13262	Synonymous-CDS	Pyridoxalphosphate-dependent decarboxylase
CWSNP4789	Ca-Kabuli-Chr6	386250	[A/G]	-	Intergenic	-
CWSNP4790	Ca-Kabuli-Chr6	474489	[C/A]	-	DRR	-
CWSNP4791	Ca-Kabuli-Chr6	505875	[T/C]	Ca13271	Non-Synonymous-CDS	-
CWSNP4792	Ca-Kabuli-Chr6	551130	[T/G]	Ca13276	Non-Synonymous-CDS	Nicastrin
CWSNP4793	Ca-Kabuli-Chr6	580616	[G/C]	-	Intergenic	-
CWSNP4794	Ca-Kabuli-Chr6	647322	[A/C]	Ca13283	Synonymous-CDS	-
CWSNP4795	Ca-Kabuli-Chr6	697168	[C/T]	-	Intergenic	-
CWSNP4796	Ca-Kabuli-Chr6	697147	[A/G]	-	Intergenic	-
CWSNP4797	Ca-Kabuli-Chr6	961805	[C/T]	-	DRR	-
CWSNP4798	Ca-Kabuli-Chr6	997997	[T/A]	-	DRR	-
CWSNP4799	Ca-Kabuli-Chr6	1220460	[G/C]	-	Intergenic	-
CWSNP4800	Ca-Kabuli-Chr6	1290413	[C/G]	Ca13334	Intron	Regulator of chromosome condensation, RCC1

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP4801	Ca-Kabuli-Chr6	1315583	[G/C]	Ca13338	Intron	Aspartate/glutamate/uridylatekinase
CWSNP4802	Ca-Kabuli-Chr6	1626723	[T/C]	-	Intergenic	-
CWSNP4803	Ca-Kabuli-Chr6	1626712	[C/T]	-	Intergenic	-
CWSNP4804	Ca-Kabuli-Chr6	1817599	[C/T]	Ca10308	Intron	Zinc finger,LIM-type
CWSNP4805	Ca-Kabuli-Chr6	1817602	[A/T]	Ca10308	Intron	Zinc finger,LIM-type
CWSNP4806	Ca-Kabuli-Chr6	1817607	[T/C]	Ca10308	Intron	Zinc finger,LIM-type
CWSNP4807	Ca-Kabuli-Chr6	1932175	[G/A]	Ca10319	Intron	Major intrinsic protein
CWSNP4808	Ca-Kabuli-Chr6	1966137	[T/C]	-	Intergenic	-
CWSNP4809	Ca-Kabuli-Chr6	1978864	[A/C]	Ca10322	Intron	-
CWSNP4810	Ca-Kabuli-Chr6	1978867	[T/A]	Ca10322	Intron	-
CWSNP4811	Ca-Kabuli-Chr6	2037620	[T/G]	-	URR	-
CWSNP4812	Ca-Kabuli-Chr6	2061459	[A/G]	-	URR	-
CWSNP4813	Ca-Kabuli-Chr6	2079137	[T/G]	-	DRR	-
CWSNP4814	Ca-Kabuli-Chr6	2079186	[G/T]	-	DRR	-
CWSNP4815	Ca-Kabuli-Chr6	2083805	[G/A]	Ca10330	Synonymous-CDS	K+ potassium transporter
CWSNP4816	Ca-Kabuli-Chr6	2083813	[T/C]	Ca10330	Non-Synonymous-CDS	K+ potassium transporter

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP4817	Ca-Kabuli-Chr6	2126667	[C/T]	-	DRR	-
CWSNP4818	Ca-Kabuli-Chr6	2140189	[G/T]	Ca10336	Non-Synonymous-CDS	Leucine-rich repeat
CWSNP4819	Ca-Kabuli-Chr6	2140406	[G/A]	Ca10336	Synonymous-CDS	Leucine-rich repeat
CWSNP4820	Ca-Kabuli-Chr6	2193748	[T/A]	Ca10344	Intron	Auxin efflux carrier
CWSNP4821	Ca-Kabuli-Chr6	2193763	[A/C]	Ca10344	Intron	Auxin efflux carrier
CWSNP4822	Ca-Kabuli-Chr6	2193803	[G/A]	Ca10344	Synonymous-CDS	Auxin efflux carrier
CWSNP4823	Ca-Kabuli-Chr6	2214131	[T/A]	Ca10348	Intron	Amidase
CWSNP4824	Ca-Kabuli-Chr6	2214178	[T/C]	Ca10348	Intron	Amidase
CWSNP4825	Ca-Kabuli-Chr6	2214247	[A/G]	Ca10348	Intron	Amidase
CWSNP4826	Ca-Kabuli-Chr6	2223544	[A/T]	-	Intergenic	-
CWSNP4827	Ca-Kabuli-Chr6	2223578	[T/G]	-	Intergenic	-
CWSNP4828	Ca-Kabuli-Chr6	2223664	[A/C]	-	Intergenic	-
CWSNP4829	Ca-Kabuli-Chr6	2244901	[A/C]	-	Intergenic	-
CWSNP4830	Ca-Kabuli-Chr6	2275505	[A/G]	Ca10356	Non-Synonymous-CDS	-
CWSNP4831	Ca-Kabuli-Chr6	2275524	[G/A]	Ca10356	Synonymous-CDS	-
CWSNP4832	Ca-Kabuli-Chr6	2275553	[A/G]	Ca10356	Non-Synonymous-CDS	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP4833	Ca-Kabuli-Chr6	2280734	[T/A]	Ca10356	Intron	-
CWSNP4834	Ca-Kabuli-Chr6	2280752	[A/G]	Ca10356	Intron	-
CWSNP4835	Ca-Kabuli-Chr6	2286237	[C/T]	-	Intergenic	-
CWSNP4836	Ca-Kabuli-Chr6	2294911	[T/G]	-	Intergenic	-
CWSNP4837	Ca-Kabuli-Chr6	2303123	[T/G]	Ca10360	Intron	Protein kinase, catalytic domain
CWSNP4838	Ca-Kabuli-Chr6	2313683	[A/C]	Ca10361	Non-Synonymous-CDS	HistoneH1/H5
CWSNP4839	Ca-Kabuli-Chr6	2313828	[G/A]	Ca10361	Non-Synonymous-CDS	HistoneH1/H5
CWSNP4840	Ca-Kabuli-Chr6	2314029	[T/C]	Ca10361	Non-Synonymous-CDS	HistoneH1/H5
CWSNP4841	Ca-Kabuli-Chr6	2462481	[C/T]	-	DRR	-
CWSNP4842	Ca-Kabuli-Chr6	2502485	[A/G]	-	URR	-
CWSNP4843	Ca-Kabuli-Chr6	2527768	[A/G]	-	Intergenic	-
CWSNP4844	Ca-Kabuli-Chr6	2542942	[A/T]	-	Intergenic	-
CWSNP4845	Ca-Kabuli-Chr6	2542981	[T/C]	-	Intergenic	-
CWSNP4846	Ca-Kabuli-Chr6	2543096	[C/T]	-	Intergenic	-
CWSNP4847	Ca-Kabuli-Chr6	2543062	[A/G]	-	Intergenic	-
CWSNP4848	Ca-Kabuli-Chr6	2548412	[A/G]	Ca10387	Synonymous-CDS	Zinc finger,RING-type

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP4849	Ca-Kabuli-Chr6	2549991	[T/C]	Ca10387	Synonymous-CDS	Zinc finger,RING-type
CWSNP4850	Ca-Kabuli-Chr6	2550154	[A/C]	Ca10387	Synonymous-CDS	Zinc finger,RING-type
CWSNP4851	Ca-Kabuli-Chr6	2625793	[C/G]	Ca10393	Intron	THOcomplex,subunitTHOC2,N-terminal
CWSNP4852	Ca-Kabuli-Chr6	2639558	[T/A]	-	URR	-
CWSNP4853	Ca-Kabuli-Chr6	2639606	[A/G]	-	URR	-
CWSNP4854	Ca-Kabuli-Chr6	2639607	[T/C]	-	URR	-
CWSNP4855	Ca-Kabuli-Chr6	2714897	[C/A]	-	DRR	-
CWSNP4856	Ca-Kabuli-Chr6	2717150	[G/A]	-	Intergenic	-
CWSNP4857	Ca-Kabuli-Chr6	2740765	[A/G]	-	Intergenic	-
CWSNP4858	Ca-Kabuli-Chr6	2740784	[T/C]	-	Intergenic	-
CWSNP4859	Ca-Kabuli-Chr6	2802942	[C/A]	Ca10415	Synonymous-CDS	-
CWSNP4860	Ca-Kabuli-Chr6	2811345	[A/G]	Ca10416	Non-Synonymous-CDS	Nucleoporin,Nup155-like
CWSNP4861	Ca-Kabuli-Chr6	2812794	[A/C]	Ca10416	Synonymous-CDS	Nucleoporin,Nup155-like
CWSNP4862	Ca-Kabuli-Chr6	2812719	[G/A]	Ca10416	Synonymous-CDS	Nucleoporin,Nup155-like
CWSNP4863	Ca-Kabuli-Chr6	2813244	[G/A]	Ca10416	Synonymous-CDS	Nucleoporin,Nup155-like
CWSNP4864	Ca-Kabuli-Chr6	2821836	[G/T]	Ca10417	Intron	HEAT

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP4865	Ca-Kabuli-Chr6	2855691	[C/G]	Ca10421	Intron	4Fe-4Sbinding domain
CWSNP4866	Ca-Kabuli-Chr6	2864713	[G/A]	-	DRR	-
CWSNP4867	Ca-Kabuli-Chr6	2919355	[A/C]	Ca10430	Intron	UBX
CWSNP4868	Ca-Kabuli-Chr6	2925908	[A/G]	-	URR	-
CWSNP4869	Ca-Kabuli-Chr6	2926006	[T/C]	-	URR	-
CWSNP4870	Ca-Kabuli-Chr6	2927271	[G/A]	-	URR	-
CWSNP4871	Ca-Kabuli-Chr6	2927386	[C/G]	-	Intergenic	-
CWSNP4872	Ca-Kabuli-Chr6	2927387	[T/C]	-	Intergenic	-
CWSNP4873	Ca-Kabuli-Chr6	2930459	[C/T]	-	DRR	-
CWSNP4874	Ca-Kabuli-Chr6	2930504	[T/C]	-	DRR	-
CWSNP4875	Ca-Kabuli-Chr6	2932179	[T/G]	-	Intergenic	-
CWSNP4876	Ca-Kabuli-Chr6	2932168	[A/C]	-	Intergenic	-
CWSNP4877	Ca-Kabuli-Chr6	2932143	[C/A]	-	Intergenic	-
CWSNP4878	Ca-Kabuli-Chr6	2972319	[C/T]	Ca10439	Intron	Alpha-D-phosphohexomutase
CWSNP4879	Ca-Kabuli-Chr6	2972301	[T/C]	Ca10439	Intron	Alpha-D-phosphohexomutase
CWSNP4880	Ca-Kabuli-Chr6	2973756	[A/C]	Ca10439	Intron	Alpha-D-phosphohexomutase

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP4881	Ca-Kabuli-Chr6	3060508	[G/A]	-	Intergenic	-
CWSNP4882	Ca-Kabuli-Chr6	3060502	[G/A]	-	Intergenic	-
CWSNP4883	Ca-Kabuli-Chr6	3288481	[C/A]	-	Intergenic	-
CWSNP4884	Ca-Kabuli-Chr6	3288444	[G/A]	-	Intergenic	-
CWSNP4885	Ca-Kabuli-Chr6	3288441	[A/G]	-	Intergenic	-
CWSNP4886	Ca-Kabuli-Chr6	3288505	[G/T]	-	Intergenic	-
CWSNP4887	Ca-Kabuli-Chr6	3297086	[G/A]	Ca25243	Intron	Peptidyl-tRNAhydrolase
CWSNP4888	Ca-Kabuli-Chr6	3298952	[A/T]	Ca25243	Intron	Peptidyl-tRNAhydrolase
CWSNP4889	Ca-Kabuli-Chr6	3395024	[A/G]	-	DRR	-
CWSNP4890	Ca-Kabuli-Chr6	3395253	[G/A]	-	DRR	-
CWSNP4891	Ca-Kabuli-Chr6	3395370	[C/T]	-	DRR	-
CWSNP4892	Ca-Kabuli-Chr6	3397650	[A/G]	-	Intergenic	-
CWSNP4893	Ca-Kabuli-Chr6	3482411	[A/G]	-	URR	-
CWSNP4894	Ca-Kabuli-Chr6	3505662	[C/A]	Ca05959	Non-Synonymous-CDS	Oligopeptide transporter
CWSNP4895	Ca-Kabuli-Chr6	3530094	[T/C]	Ca05957	Intron	FAD-dependent pyridine nucleotide-disulphide oxidoreductase
CWSNP4896	Ca-Kabuli-Chr6	3530137	[A/G]	Ca05957	Intron	FAD-dependent pyridine nucleotide-disulphide oxidoreductase

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP4897	Ca-Kabuli-Chr6	3548121	[C/A]	-	DRR	-
CWSNP4898	Ca-Kabuli-Chr6	3548114	[A/C]	-	DRR	-
CWSNP4899	Ca-Kabuli-Chr6	3786843	[A/G]	-	DRR	-
CWSNP4900	Ca-Kabuli-Chr6	3787239	[C/A]	-	DRR	-
CWSNP4901	Ca-Kabuli-Chr6	3829070	[C/A]	Ca05920	Non-Synonymous-CDS	Glycosidehydrolase,family17
CWSNP4902	Ca-Kabuli-Chr6	3962516	[A/C]	-	Intergenic	-
CWSNP4903	Ca-Kabuli-Chr6	3985519	[G/A]	-	Intergenic	-
CWSNP4904	Ca-Kabuli-Chr6	3992419	[C/T]	-	Intergenic	-
CWSNP4905	Ca-Kabuli-Chr6	4112085	[T/C]	-	Intergenic	-
CWSNP4906	Ca-Kabuli-Chr6	4226947	[A/T]	-	Intergenic	-
CWSNP4907	Ca-Kabuli-Chr6	4226924	[G/T]	-	Intergenic	-
CWSNP4908	Ca-Kabuli-Chr6	4228884	[T/C]	-	Intergenic	-
CWSNP4909	Ca-Kabuli-Chr6	4344604	[T/C]	Ca05866	Synonymous-CDS	Srchomology-3domain
CWSNP4910	Ca-Kabuli-Chr6	4350822	[A/T]	Ca05866	Non-Synonymous-CDS	Srchomology-3domain
CWSNP4911	Ca-Kabuli-Chr6	4350867	[A/C]	Ca05866	Non-Synonymous-CDS	Srchomology-3domain
CWSNP4912	Ca-Kabuli-Chr6	4350889	[A/C]	Ca05866	Synonymous-CDS	Srchomology-3domain

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP4913	Ca-Kabuli-Chr6	4440034	[T/G]	-	URR	-
CWSNP4914	Ca-Kabuli-Chr6	4562263	[C/A]	-	URR	-
CWSNP4915	Ca-Kabuli-Chr6	4562264	[C/G]	-	URR	-
CWSNP4916	Ca-Kabuli-Chr6	4601303	[A/C]	Ca05837	Synonymous-CDS	ATPase,AAA+type,core
CWSNP4917	Ca-Kabuli-Chr6	4678523	[A/C]	-	Intergenic	-
CWSNP4918	Ca-Kabuli-Chr6	4743563	[C/G]	-	Intergenic	-
CWSNP4919	Ca-Kabuli-Chr6	4743608	[C/T]	-	Intergenic	-
CWSNP4920	Ca-Kabuli-Chr6	4807908	[G/C]	-	URR	-
CWSNP4921	Ca-Kabuli-Chr6	4861184	[T/G]	Ca05808	Synonymous-CDS	-
CWSNP4922	Ca-Kabuli-Chr6	4981078	[G/T]	-	URR	-
CWSNP4923	Ca-Kabuli-Chr6	5185380	[A/G]	-	URR	-
CWSNP4924	Ca-Kabuli-Chr6	5341510	[C/A]	Ca05766	Non-Synonymous-CDS	ARID/BRIGHTDNA-binding domain
CWSNP4925	Ca-Kabuli-Chr6	5392185	[T/C]	Ca05761	Synonymous-CDS	Peptidase M1,alanine aminopeptidase/leukotriene A4 hydrolase
CWSNP4926	Ca-Kabuli-Chr6	5396888	[T/G]	Ca05761	Intron	Peptidase M1,alanine aminopeptidase/leukotriene A4 hydrolase
CWSNP4927	Ca-Kabuli-Chr6	5396890	[T/G]	Ca05761	Intron	Peptidase M1,alanine aminopeptidase/leukotriene A4 hydrolase
CWSNP4928	Ca-Kabuli-Chr6	5396897	[T/G]	Ca05761	Intron	Peptidase M1,alanine aminopeptidase/leukotriene A4 hydrolase

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP4929	Ca-Kabuli-Chr6	5453512	[A/G]	Ca05756	Non-Synonymous-CDS	Protein kinase, catalytic domain
CWSNP4930	Ca-Kabuli-Chr6	5498898	[C/T]	Ca05751	Synonymous-CDS	GMPsynthase,C-terminal
CWSNP4931	Ca-Kabuli-Chr6	5589373	[T/C]	-	DRR	-
CWSNP4932	Ca-Kabuli-Chr6	5628956	[T/G]	-	DRR	-
CWSNP4933	Ca-Kabuli-Chr6	5694397	[G/T]	Ca05725	Intron	Ribosomal proteinS1,RNA-binding domain
CWSNP4934	Ca-Kabuli-Chr6	5704845	[T/C]	-	DRR	-
CWSNP4935	Ca-Kabuli-Chr6	5706649	[C/T]	-	DRR	-
CWSNP4936	Ca-Kabuli-Chr6	6110805	[T/C]	Ca05684	Non-Synonymous-CDS	PeptidaseS10,serine carboxypeptidase
CWSNP4937	Ca-Kabuli-Chr6	6193105	[G/C]	Ca05679	Non-Synonymous-CDS	-
CWSNP4938	Ca-Kabuli-Chr6	6415818	[A/G]	-	Intergenic	-
CWSNP4939	Ca-Kabuli-Chr6	6517785	[T/C]	-	Intergenic	-
CWSNP4940	Ca-Kabuli-Chr6	6779147	[G/C]	Ca16938	Non-Synonymous-CDS	Protein of unknown function DUF869,plant
CWSNP4941	Ca-Kabuli-Chr6	6802259	[C/T]	Ca16940	Intron	Pyridinenucleotide-disulphideoxidoreductase,NAD-bindingregion
CWSNP4942	Ca-Kabuli-Chr6	6815594	[G/A]	-	Intergenic	-
CWSNP4943	Ca-Kabuli-Chr6	6877088	[C/A]	Ca16950	Non-Synonymous-CDS	Heat shock protein DnaJ,N-terminal
CWSNP4944	Ca-Kabuli-Chr6	6877163	[T/C]	Ca16950	Non-Synonymous-CDS	Heat shock protein DnaJ,N-terminal

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CWSNP4945	Ca-Kabuli-Chr6	6877284	[C/T]	Ca16950	Synonymous-CDS	Heat shock protein DnaJ,N-terminal
CWSNP4946	Ca-Kabuli-Chr6	6913622	[A/C]	-	URR	-
CWSNP4947	Ca-Kabuli-Chr6	6913695	[G/A]	-	URR	-
CWSNP4948	Ca-Kabuli-Chr6	7026481	[G/C]	-	Intergenic	-
CWSNP4949	Ca-Kabuli-Chr6	7349517	[A/C]	-	Intergenic	-
CWSNP4950	Ca-Kabuli-Chr6	7406219	[A/G]	-	Intergenic	-
CWSNP4951	Ca-Kabuli-Chr6	7571950	[T/C]	Ca09627	Non-Synonymous-CDS	-
CWSNP4952	Ca-Kabuli-Chr6	7582726	[G/T]	-	DRR	-
CWSNP4953	Ca-Kabuli-Chr6	7600817	[G/A]	Ca09624	Intron	Domain of unknown function DUF699,exodeoxyribonuclease V alpha chain
CWSNP4954	Ca-Kabuli-Chr6	7603195	[G/A]	Ca09624	Non-Synonymous-CDS	Domain of unknown function DUF699,exodeoxyribonuclease V alpha chain
CWSNP4955	Ca-Kabuli-Chr6	7603178	[A/C]	Ca09624	Intron	Domain of unknown function DUF699,exodeoxyribonuclease V alpha chain
CWSNP4956	Ca-Kabuli-Chr6	7647907	[T/G]	Ca09618	Synonymous-CDS	Ras GTPase
CWSNP4957	Ca-Kabuli-Chr6	7647931	[G/A]	Ca09618	Synonymous-CDS	Ras GTPase
CWSNP4958	Ca-Kabuli-Chr6	7661930	[T/G]	-	DRR	-
CWSNP4959	Ca-Kabuli-Chr6	7661924	[T/C]	-	DRR	-
CWSNP4960	Ca-Kabuli-Chr6	7667301	[T/C]	-	URR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP4961	Ca-Kabuli-Chr6	7667328	[A/T]	-	URR	-
CWSNP4962	Ca-Kabuli-Chr6	7694609	[A/T]	-	Intergenic	-
CWSNP4963	Ca-Kabuli-Chr6	7694696	[T/C]	-	Intergenic	-
CWSNP4964	Ca-Kabuli-Chr6	7744730	[A/G]	Ca09604	Intron	ABC-1
CWSNP4965	Ca-Kabuli-Chr6	7745641	[A/G]	Ca09604	Intron	ABC-1
CWSNP4966	Ca-Kabuli-Chr6	7747254	[G/A]	Ca09604	Synonymous-CDS	ABC-1
CWSNP4967	Ca-Kabuli-Chr6	7770357	[C/T]	-	DRR	-
CWSNP4968	Ca-Kabuli-Chr6	7822666	[C/A]	-	URR	-
CWSNP4969	Ca-Kabuli-Chr6	7829485	[G/A]	-	DRR	-
CWSNP4970	Ca-Kabuli-Chr6	7829627	[T/G]	-	DRR	-
CWSNP4971	Ca-Kabuli-Chr6	7831214	[C/T]	Ca09595	Synonymous-CDS	C2 calcium-dependent membrane targeting
CWSNP4972	Ca-Kabuli-Chr6	7831409	[C/T]	Ca09595	Synonymous-CDS	C2 calcium-dependent membrane targeting
CWSNP4973	Ca-Kabuli-Chr6	7831874	[A/G]	Ca09595	Synonymous-CDS	C2 calcium-dependent membrane targeting
CWSNP4974	Ca-Kabuli-Chr6	7831899	[G/A]	Ca09595	Non-Synonymous-CDS	C2 calcium-dependent membrane targeting
CWSNP4975	Ca-Kabuli-Chr6	7832029	[C/T]	Ca09595	Non-Synonymous-CDS	C2 calcium-dependent membrane targeting
CWSNP4976	Ca-Kabuli-Chr6	7832023	[C/T]	Ca09595	Non-Synonymous-CDS	C2 calcium-dependent membrane targeting

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP4977	Ca-Kabuli-Chr6	7834595	[C/T]	Ca09595	Synonymous-CDS	C2 calcium-dependent membrane targeting
CWSNP4978	Ca-Kabuli-Chr6	7834922	[G/A]	Ca09595	Synonymous-CDS	C2 calcium-dependent membrane targeting
CWSNP4979	Ca-Kabuli-Chr6	7834895	[G/T]	Ca09595	Synonymous-CDS	C2 calcium-dependent membrane targeting
CWSNP4980	Ca-Kabuli-Chr6	7834976	[G/A]	Ca09595	Synonymous-CDS	C2 calcium-dependent membrane targeting
CWSNP4981	Ca-Kabuli-Chr6	7835427	[G/A]	Ca09595	Non-Synonymous-CDS	C2 calcium-dependent membrane targeting
CWSNP4982	Ca-Kabuli-Chr6	7835738	[C/T]	Ca09595	Synonymous-CDS	C2 calcium-dependent membrane targeting
CWSNP4983	Ca-Kabuli-Chr6	7835984	[T/A]	Ca09595	Non-Synonymous-CDS	C2 calcium-dependent membrane targeting
CWSNP4984	Ca-Kabuli-Chr6	7851000	[G/C]	-	Intergenic	-
CWSNP4985	Ca-Kabuli-Chr6	7929263	[C/T]	-	DRR	-
CWSNP4986	Ca-Kabuli-Chr6	7929338	[T/C]	-	DRR	-
CWSNP4987	Ca-Kabuli-Chr6	7929339	[G/A]	-	DRR	-
CWSNP4988	Ca-Kabuli-Chr6	7929348	[C/T]	-	DRR	-
CWSNP4989	Ca-Kabuli-Chr6	7929384	[T/C]	-	DRR	-
CWSNP4990	Ca-Kabuli-Chr6	7929628	[C/T]	-	DRR	-
CWSNP4991	Ca-Kabuli-Chr6	7929607	[A/C]	-	DRR	-
CWSNP4992	Ca-Kabuli-Chr6	7939281	[T/G]	Ca09580	Non-Synonymous-CDS	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP4993	Ca-Kabuli-Chr6	7939465	[A/G]	Ca09580	Intron	-
CWSNP4994	Ca-Kabuli-Chr6	7994732	[G/T]	-	URR	-
CWSNP4995	Ca-Kabuli-Chr6	8011685	[G/T]	-	Intergenic	-
CWSNP4996	Ca-Kabuli-Chr6	8029226	[C/T]	Ca09571	Synonymous-CDS	-
CWSNP4997	Ca-Kabuli-Chr6	8052987	[G/C]	Ca09568	Intron	TLDC
CWSNP4998	Ca-Kabuli-Chr6	8076394	[T/C]	-	URR	-
CWSNP4999	Ca-Kabuli-Chr6	8076446	[G/A]	-	URR	-
CWSNP5000	Ca-Kabuli-Chr6	8081800	[C/G]	-	DRR	-
CWSNP5001	Ca-Kabuli-Chr6	8084950	[T/A]	-	Intergenic	-
CWSNP5002	Ca-Kabuli-Chr6	8090739	[T/A]	Ca09562	Non-Synonymous-CDS	IQ motif, EF-hand binding site
CWSNP5003	Ca-Kabuli-Chr6	8090980	[A/G]	Ca09562	Synonymous-CDS	IQ motif, EF-hand binding site
CWSNP5004	Ca-Kabuli-Chr6	8091050	[A/G]	Ca09562	Non-Synonymous-CDS	IQ motif, EF-hand binding site
CWSNP5005	Ca-Kabuli-Chr6	8139446	[C/A]	-	DRR	-
CWSNP5006	Ca-Kabuli-Chr6	8166317	[T/C]	-	URR	-
CWSNP5007	Ca-Kabuli-Chr6	8166339	[T/C]	-	URR	-
CWSNP5008	Ca-Kabuli-Chr6	8166435	[A/G]	-	URR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP5009	Ca-Kabuli-Chr6	8166462	[A/T]	-	URR	-
CWSNP5010	Ca-Kabuli-Chr6	8170583	[C/T]	Ca09552	Intron	Enhancerofpolycomb-like,N-terminal
CWSNP5011	Ca-Kabuli-Chr6	8170633	[A/G]	Ca09552	Intron	Enhancerofpolycomb-like,N-terminal
CWSNP5012	Ca-Kabuli-Chr6	8179815	[T/C]	-	Intergenic	-
CWSNP5013	Ca-Kabuli-Chr6	8221204	[C/A]	Ca09549	Non-Synonymous-CDS	DNA-dependent ATPase MCM
CWSNP5014	Ca-Kabuli-Chr6	8223986	[C/G]	Ca09549	Non-Synonymous-CDS	DNA-dependent ATPase MCM
CWSNP5015	Ca-Kabuli-Chr6	8237286	[A/G]	Ca09547	Intron	RNA recognition motif domain
CWSNP5016	Ca-Kabuli-Chr6	8246187	[A/C]	-	Intergenic	-
CWSNP5017	Ca-Kabuli-Chr6	8710064	[A/T]	-	Intergenic	-
CWSNP5018	Ca-Kabuli-Chr6	8787557	[T/C]	Ca16756	Non-Synonymous-CDS	Protein kinase, catalytic domain
CWSNP5019	Ca-Kabuli-Chr6	8787562	[C/T]	Ca16756	Non-Synonymous-CDS	Protein kinase, catalytic domain
CWSNP5020	Ca-Kabuli-Chr6	8787564	[G/T]	Ca16756	Synonymous-CDS	Protein kinase, catalytic domain
CWSNP5021	Ca-Kabuli-Chr6	8787568	[G/T]	Ca16756	Non-Synonymous-CDS	Protein kinase, catalytic domain
CWSNP5022	Ca-Kabuli-Chr6	8787572	[T/A]	Ca16756	Non-Synonymous-CDS	Protein kinase, catalytic domain
CWSNP5023	Ca-Kabuli-Chr6	8787573	[G/A]	Ca16756	Synonymous-CDS	Protein kinase, catalytic domain
CWSNP5024	Ca-Kabuli-Chr6	8968068	[G/A]	Ca16741	Intron	Phosphatidylinositol-4-phosphate5-kinase,core

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP5025	Ca-Kabuli-Chr6	9227767	[C/A]	-	Intergenic	-
CWSNP5026	Ca-Kabuli-Chr6	9228004	[C/A]	-	Intergenic	-
CWSNP5027	Ca-Kabuli-Chr6	9324122	[A/C]	Ca08667	Non-Synonymous-CDS	Homeobox
CWSNP5028	Ca-Kabuli-Chr6	9523228	[T/C]	Ca08648	Intron	RNA-processing protein,HAT helix
CWSNP5029	Ca-Kabuli-Chr6	9814378	[G/T]	Ca08611	Intron	ProteinTransporter,Pam16
CWSNP5030	Ca-Kabuli-Chr6	9834199	[T/C]	Ca08608	Synonymous-CDS	WD40 repeat
CWSNP5031	Ca-Kabuli-Chr6	9834198	[C/A]	Ca08608	Non-Synonymous-CDS	WD40 repeat
CWSNP5032	Ca-Kabuli-Chr6	9834187	[A/T]	Ca08608	Non-Synonymous-CDS	WD40 repeat
CWSNP5033	Ca-Kabuli-Chr6	9834184	[A/T]	Ca08608	Synonymous-CDS	WD40 repeat
CWSNP5034	Ca-Kabuli-Chr6	9834183	[C/T]	Ca08608	Non-Synonymous-CDS	WD40 repeat
CWSNP5035	Ca-Kabuli-Chr6	9841836	[G/A]	-	DRR	-
CWSNP5036	Ca-Kabuli-Chr6	9872657	[C/T]	Ca08602	Non-Synonymous-CDS	Xanthine/uracil/vitaminCpermease
CWSNP5037	Ca-Kabuli-Chr6	9872988	[A/T]	Ca08602	Intron	Xanthine/uracil/vitaminCpermease
CWSNP5038	Ca-Kabuli-Chr6	9959686	[T/C]	Ca08594	Synonymous-CDS	Preprotein translocase Sec, Sec61-beta subunit
CWSNP5039	Ca-Kabuli-Chr6	10020177	[C/G]	-	DRR	-
CWSNP5040	Ca-Kabuli-Chr6	10020187	[A/G]	-	DRR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP5041	Ca-Kabuli-Chr6	10025115	[A/C]	-	DRR	-
CWSNP5042	Ca-Kabuli-Chr6	10025113	[C/G]	-	DRR	-
CWSNP5043	Ca-Kabuli-Chr6	10028504	[A/G]	-	DRR	-
CWSNP5044	Ca-Kabuli-Chr6	10028508	[G/C]	-	Intergenic	-
CWSNP5045	Ca-Kabuli-Chr6	10045644	[A/C]	Ca08587	Synonymous-CDS	AMP-dependent synthetase/ligase
CWSNP5046	Ca-Kabuli-Chr6	10045844	[A/G]	-	Intergenic	-
CWSNP5047	Ca-Kabuli-Chr6	10088984	[A/G]	-	DRR	-
CWSNP5048	Ca-Kabuli-Chr6	10100863	[C/G]	Ca08581	Synonymous-CDS	HEAT
CWSNP5049	Ca-Kabuli-Chr6	10111488	[C/G]	Ca08580	Intron	Peptidyl-tRNAhydrolase
CWSNP5050	Ca-Kabuli-Chr6	10111520	[G/C]	Ca08580	Intron	Peptidyl-tRNAhydrolase
CWSNP5051	Ca-Kabuli-Chr6	10111870	[A/G]	Ca08580	Intron	Peptidyl-tRNAhydrolase
CWSNP5052	Ca-Kabuli-Chr6	10116403	[A/T]	Ca08580	Intron	Peptidyl-tRNAhydrolase
CWSNP5053	Ca-Kabuli-Chr6	10116475	[C/A]	Ca08580	Intron	Peptidyl-tRNAhydrolase
CWSNP5054	Ca-Kabuli-Chr6	10151973	[A/G]	Ca08577	Intron	Protein of unknown function DUF616
CWSNP5055	Ca-Kabuli-Chr6	10158850	[T/C]	Ca08576	Intron	Pheophorbideoxygenase
CWSNP5056	Ca-Kabuli-Chr6	10188400	[G/T]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP5057	Ca-Kabuli-Chr6	10215262	[T/G]	-	DRR	-
CWSNP5058	Ca-Kabuli-Chr6	10230617	[A/G]	Ca08566	Intron	Metallo-dependent phosphatase
CWSNP5059	Ca-Kabuli-Chr6	10230657	[A/G]	Ca08566	Intron	Metallo-dependent phosphatase
CWSNP5060	Ca-Kabuli-Chr6	10231092	[T/G]	Ca08566	Synonymous-CDS	Metallo-dependent phosphatase
CWSNP5061	Ca-Kabuli-Chr6	10231095	[G/T]	Ca08566	Synonymous-CDS	Metallo-dependent phosphatase
CWSNP5062	Ca-Kabuli-Chr6	10234241	[A/G]	Ca08566	Intron	Metallo-dependent phosphatase
CWSNP5063	Ca-Kabuli-Chr6	10259614	[C/T]	-	DRR	-
CWSNP5064	Ca-Kabuli-Chr6	10260274	[C/T]	Ca08563	Synonymous-CDS	Mediator complex,subunit Med10
CWSNP5065	Ca-Kabuli-Chr6	10314993	[C/G]	-	Intergenic	-
CWSNP5066	Ca-Kabuli-Chr6	10395411	[G/A]	Ca08553	Intron	Small ubiquitin-related modifier,SUMO
CWSNP5067	Ca-Kabuli-Chr6	10395379	[T/C]	Ca08553	Intron	Small ubiquitin-related modifier,SUMO
CWSNP5068	Ca-Kabuli-Chr6	10395356	[T/A]	Ca08553	Intron	Small ubiquitin-related modifier,SUMO
CWSNP5069	Ca-Kabuli-Chr6	10441736	[A/C]	Ca08551	Non-Synonymous-CDS	-
CWSNP5070	Ca-Kabuli-Chr6	10441705	[T/C]	-	Intergenic	-
CWSNP5071	Ca-Kabuli-Chr6	10442148	[A/C]	Ca08551	Synonymous-CDS	-
CWSNP5072	Ca-Kabuli-Chr6	10445185	[C/T]	Ca08551	Intron	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP5073	Ca-Kabuli-Chr6	10445274	[G/A]	Ca08551	Intron	-
CWSNP5074	Ca-Kabuli-Chr6	10456774	[A/G]	Ca08551	Synonymous-CDS	-
CWSNP5075	Ca-Kabuli-Chr6	10456854	[G/T]	Ca08551	Synonymous-CDS	-
CWSNP5076	Ca-Kabuli-Chr6	10494134	[C/T]	Ca08547	Intron	D-galactoside/L-rhamnose binding SUEL lectin domain
CWSNP5077	Ca-Kabuli-Chr6	10494057	[C/A]	Ca08547	Intron	D-galactoside/L-rhamnose binding SUEL lectin domain
CWSNP5078	Ca-Kabuli-Chr6	10494055	[T/A]	Ca08547	Intron	D-galactoside/L-rhamnose binding SUEL lectin domain
CWSNP5079	Ca-Kabuli-Chr6	10495747	[G/T]	Ca08547	Intron	D-galactoside/L-rhamnose binding SUEL lectin domain
CWSNP5080	Ca-Kabuli-Chr6	10510996	[T/C]	-	URR	-
CWSNP5081	Ca-Kabuli-Chr6	10520958	[C/T]	Ca08543	Intron	RNA recognition motif domain
CWSNP5082	Ca-Kabuli-Chr6	10531399	[C/T]	Ca08542	Intron	RNA recognition motif domain
CWSNP5083	Ca-Kabuli-Chr6	10532182	[A/T]	Ca08542	Non-Synonymous-CDS	RNA recognition motif domain
CWSNP5084	Ca-Kabuli-Chr6	10532739	[A/G]	Ca08542	Synonymous-CDS	RNA recognition motif domain
CWSNP5085	Ca-Kabuli-Chr6	10539918	[A/C]	-	Intergenic	-
CWSNP5086	Ca-Kabuli-Chr6	10539977	[C/T]	-	Intergenic	-
CWSNP5087	Ca-Kabuli-Chr6	10539994	[A/C]	-	Intergenic	-
CWSNP5088	Ca-Kabuli-Chr6	10567518	[A/G]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP5089	Ca-Kabuli-Chr6	10588030	[C/T]	-	Intergenic	-
CWSNP5090	Ca-Kabuli-Chr6	10613546	[A/G]	Ca08536	Synonymous-CDS	Heatshockfactor(HSF)-type,DNA-binding
CWSNP5091	Ca-Kabuli-Chr6	10613612	[A/G]	Ca08536	Synonymous-CDS	Heatshockfactor(HSF)-type,DNA-binding
CWSNP5092	Ca-Kabuli-Chr6	10667559	[T/C]	-	Intergenic	-
CWSNP5093	Ca-Kabuli-Chr6	10670368	[G/A]	Ca08530	Intron	Aspartate/glutamate/uridylatekinase
CWSNP5094	Ca-Kabuli-Chr6	10670409	[G/A]	Ca08530	Intron	Aspartate/glutamate/uridylatekinase
CWSNP5095	Ca-Kabuli-Chr6	10670482	[C/T]	Ca08530	Intron	Aspartate/glutamate/uridylatekinase
CWSNP5096	Ca-Kabuli-Chr6	10670582	[G/A]	Ca08530	Intron	Aspartate/glutamate/uridylatekinase
CWSNP5097	Ca-Kabuli-Chr6	10670694	[G/A]	Ca08530	Intron	Aspartate/glutamate/uridylatekinase
CWSNP5098	Ca-Kabuli-Chr6	10670773	[A/C]	Ca08530	Intron	Aspartate/glutamate/uridylatekinase
CWSNP5099	Ca-Kabuli-Chr6	10670959	[T/C]	Ca08530	Intron	Aspartate/glutamate/uridylatekinase
CWSNP5100	Ca-Kabuli-Chr6	10671458	[T/C]	Ca08530	Intron	Aspartate/glutamate/uridylatekinase
CWSNP5101	Ca-Kabuli-Chr6	10671444	[A/C]	Ca08530	Intron	Aspartate/glutamate/uridylatekinase
CWSNP5102	Ca-Kabuli-Chr6	10672468	[C/T]	Ca08530	Intron	Aspartate/glutamate/uridylatekinase
CWSNP5103	Ca-Kabuli-Chr6	10677469	[A/G]	Ca08530	Intron	Aspartate/glutamate/uridylatekinase
CWSNP5104	Ca-Kabuli-Chr6	10677501	[C/T]	Ca08530	Intron	Aspartate/glutamate/uridylatekinase

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP5105	Ca-Kabuli-Chr6	10682221	[G/T]	-	Intergenic	-
CWSNP5106	Ca-Kabuli-Chr6	10682201	[C/G]	-	Intergenic	-
CWSNP5107	Ca-Kabuli-Chr6	10683193	[C/T]	-	DRR	-
CWSNP5108	Ca-Kabuli-Chr6	10696986	[A/T]	Ca08528	Intron	Protein kinase, catalytic domain
CWSNP5109	Ca-Kabuli-Chr6	10696990	[T/C]	Ca08528	Intron	Protein kinase, catalytic domain
CWSNP5110	Ca-Kabuli-Chr6	10697064	[T/A]	Ca08528	Intron	Protein kinase, catalytic domain
CWSNP5111	Ca-Kabuli-Chr6	10716986	[G/A]	Ca08526	Synonymous-CDS	-
CWSNP5112	Ca-Kabuli-Chr6	10716968	[G/A]	Ca08526	Synonymous-CDS	-
CWSNP5113	Ca-Kabuli-Chr6	10744029	[C/A]	-	Intergenic	-
CWSNP5114	Ca-Kabuli-Chr6	10743996	[A/T]	-	Intergenic	-
CWSNP5115	Ca-Kabuli-Chr6	10785480	[T/G]	-	Intergenic	-
CWSNP5116	Ca-Kabuli-Chr6	10870187	[T/G]	Ca08511	Non-Synonymous-CDS	IQ motif, EF-hand binding site
CWSNP5117	Ca-Kabuli-Chr6	10870534	[A/G]	Ca08511	Synonymous-CDS	IQ motif, EF-hand binding site
CWSNP5118	Ca-Kabuli-Chr6	10880791	[C/T]	Ca08509	Intron	Signal transduction response regulator,receiver domain
CWSNP5119	Ca-Kabuli-Chr6	10880819	[T/G]	Ca08509	Intron	Signal transduction response regulator,receiver domain
CWSNP5120	Ca-Kabuli-Chr6	10881002	[A/G]	Ca08509	Intron	Signal transduction response regulator,receiver domain

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP5121	Ca-Kabuli-Chr6	10880985	[C/T]	Ca08509	Intron	Signal transduction response regulator,receiver domain
CWSNP5122	Ca-Kabuli-Chr6	10880962	[G/T]	Ca08509	Intron	Signal transduction response regulator,receiver domain
CWSNP5123	Ca-Kabuli-Chr6	10991652	[C/A]	Ca20467	Non-Synonymous-CDS	Zinc finger,MYND-type
CWSNP5124	Ca-Kabuli-Chr6	10991717	[T/A]	Ca20467	Non-Synonymous-CDS	Zinc finger,MYND-type
CWSNP5125	Ca-Kabuli-Chr6	10991737	[A/C]	Ca20467	Synonymous-CDS	Zinc finger,MYND-type
CWSNP5126	Ca-Kabuli-Chr6	11011847	[C/G]	Ca20469	Non-Synonymous-CDS	Rubber elongation factor
CWSNP5127	Ca-Kabuli-Chr6	11131010	[T/A]	Ca20479	Intron	Glycosidehydrolase,family63
CWSNP5128	Ca-Kabuli-Chr6	11131464	[G/A]	Ca20479	Intron	Glycosidehydrolase,family63
CWSNP5129	Ca-Kabuli-Chr6	11188803	[G/A]	Ca20485	Non-Synonymous-CDS	Protein kinase, catalytic domain
CWSNP5130	Ca-Kabuli-Chr6	11189051	[A/G]	Ca20485	Synonymous-CDS	Protein kinase, catalytic domain
CWSNP5131	Ca-Kabuli-Chr6	11229102	[C/T]	Ca20489	Synonymous-CDS	Ankyrin repeat
CWSNP5132	Ca-Kabuli-Chr6	11229302	[A/G]	Ca20489	Non-Synonymous-CDS	Ankyrin repeat
CWSNP5133	Ca-Kabuli-Chr6	11229388	[C/T]	Ca20489	Non-Synonymous-CDS	Ankyrin repeat
CWSNP5134	Ca-Kabuli-Chr6	11300549	[A/C]	Ca20493	Synonymous-CDS	Signal recognition particle,SRP72 subunit,RNA-binding
CWSNP5135	Ca-Kabuli-Chr6	11302037	[A/C]	Ca20493	Non-Synonymous-CDS	Signal recognition particle,SRP72 subunit,RNA-binding
CWSNP5136	Ca-Kabuli-Chr6	11302033	[T/C]	Ca20493	Non-Synonymous-CDS	Signal recognition particle,SRP72 subunit,RNA-binding

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP5137	Ca-Kabuli-Chr6	11314581	[T/C]	Ca20494	Synonymous-CDS	Pentatrigo peptide repeat
CWSNP5138	Ca-Kabuli-Chr6	11508828	[C/T]	Ca23431	Non-Synonymous-CDS	Heat shock protein DnaJ,N-terminal
CWSNP5139	Ca-Kabuli-Chr6	11508824	[T/G]	Ca23431	Non-Synonymous-CDS	Heat shock protein DnaJ,N-terminal
CWSNP5140	Ca-Kabuli-Chr6	11508817	[G/A]	Ca23431	Non-Synonymous-CDS	Heat shock protein DnaJ,N-terminal
CWSNP5141	Ca-Kabuli-Chr6	11508816	[A/C]	Ca23431	Non-Synonymous-CDS	Heat shock protein DnaJ,N-terminal
CWSNP5142	Ca-Kabuli-Chr6	11543618	[T/G]	-	URR	-
CWSNP5143	Ca-Kabuli-Chr6	11665233	[G/A]	Ca25061	Synonymous-CDS	Amineoxidase
CWSNP5144	Ca-Kabuli-Chr6	11665338	[T/G]	Ca25061	Synonymous-CDS	Amineoxidase
CWSNP5145	Ca-Kabuli-Chr6	12437275	[A/T]	Ca05025	Non-Synonymous-CDS	AUX/IAA protein
CWSNP5146	Ca-Kabuli-Chr6	12437285	[A/G]	Ca05025	Synonymous-CDS	AUX/IAA protein
CWSNP5147	Ca-Kabuli-Chr6	12437288	[G/A]	Ca05025	Synonymous-CDS	AUX/IAA protein
CWSNP5148	Ca-Kabuli-Chr6	12437319	[C/T]	Ca05025	Non-Synonymous-CDS	AUX/IAA protein
CWSNP5149	Ca-Kabuli-Chr6	12532947	[T/A]	-	Intergenic	-
CWSNP5150	Ca-Kabuli-Chr6	12535733	[C/G]	Ca05031	Non-Synonymous-CDS	Sugar/inositol transporter
CWSNP5151	Ca-Kabuli-Chr6	12799890	[T/G]	-	DRR	-
CWSNP5152	Ca-Kabuli-Chr6	12893335	[C/A]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP5153	Ca-Kabuli-Chr6	12893424	[C/T]	-	Intergenic	-
CWSNP5154	Ca-Kabuli-Chr6	12906599	[G/A]	Ca05064	Intron	Protein kinase, catalytic domain
CWSNP5155	Ca-Kabuli-Chr6	12906680	[T/C]	Ca05064	Intron	Protein kinase, catalytic domain
CWSNP5156	Ca-Kabuli-Chr6	12906669	[G/A]	Ca05064	Intron	Protein kinase, catalytic domain
CWSNP5157	Ca-Kabuli-Chr6	12973765	[A/G]	-	Intergenic	-
CWSNP5158	Ca-Kabuli-Chr6	12977129	[A/G]	-	Intergenic	-
CWSNP5159	Ca-Kabuli-Chr6	12977196	[A/G]	-	Intergenic	-
CWSNP5160	Ca-Kabuli-Chr6	12977204	[T/G]	-	Intergenic	-
CWSNP5161	Ca-Kabuli-Chr6	12985896	[A/C]	-	URR	-
CWSNP5162	Ca-Kabuli-Chr6	12985908	[C/G]	-	URR	-
CWSNP5163	Ca-Kabuli-Chr6	12985910	[C/T]	-	URR	-
CWSNP5164	Ca-Kabuli-Chr6	12986776	[A/G]	-	URR	-
CWSNP5165	Ca-Kabuli-Chr6	12986833	[A/C]	-	URR	-
CWSNP5166	Ca-Kabuli-Chr6	13136955	[G/A]	Ca05086	Intron	Cyclicnucleotide-binding domain
CWSNP5167	Ca-Kabuli-Chr6	13188119	[A/C]	-	URR	-
CWSNP5168	Ca-Kabuli-Chr6	13340012	[A/G]	-	DRR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP5169	Ca-Kabuli-Chr6	13340762	[G/A]	-	DRR	-
CWSNP5170	Ca-Kabuli-Chr6	13413848	[C/G]	-	Intergenic	-
CWSNP5171	Ca-Kabuli-Chr6	13483841	[T/G]	-	Intergenic	-
CWSNP5172	Ca-Kabuli-Chr6	13565990	[C/T]	Ca05127	Non-Synonymous-CDS	HECT
CWSNP5173	Ca-Kabuli-Chr6	13566007	[C/T]	Ca05127	Synonymous-CDS	HECT
CWSNP5174	Ca-Kabuli-Chr6	13566012	[T/G]	Ca05127	Non-Synonymous-CDS	HECT
CWSNP5175	Ca-Kabuli-Chr6	13566041	[C/T]	Ca05127	Non-Synonymous-CDS	HECT
CWSNP5176	Ca-Kabuli-Chr6	13566110	[A/G]	Ca05127	Non-Synonymous-CDS	HECT
CWSNP5177	Ca-Kabuli-Chr6	13566136	[A/C]	Ca05127	Synonymous-CDS	HECT
CWSNP5178	Ca-Kabuli-Chr6	13572236	[A/T]	Ca05127	Intron	HECT
CWSNP5179	Ca-Kabuli-Chr6	13572221	[A/C]	Ca05127	Intron	HECT
CWSNP5180	Ca-Kabuli-Chr6	13576963	[T/A]	Ca05127	Intron	HECT
CWSNP5181	Ca-Kabuli-Chr6	13591590	[T/G]	-	URR	-
CWSNP5182	Ca-Kabuli-Chr6	13593600	[T/C]	-	URR	-
CWSNP5183	Ca-Kabuli-Chr6	13619538	[C/T]	Ca05131	Non-Synonymous-CDS	HECT
CWSNP5184	Ca-Kabuli-Chr6	13619555	[C/T]	Ca05131	Synonymous-CDS	HECT

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP5185	Ca-Kabuli-Chr6	13619560	[T/G]	Ca05131	Non-Synonymous-CDS	HECT
CWSNP5186	Ca-Kabuli-Chr6	13619589	[C/T]	Ca05131	Non-Synonymous-CDS	HECT
CWSNP5187	Ca-Kabuli-Chr6	13619658	[A/G]	Ca05131	Non-Synonymous-CDS	HECT
CWSNP5188	Ca-Kabuli-Chr6	13619684	[A/C]	Ca05131	Synonymous-CDS	HECT
CWSNP5189	Ca-Kabuli-Chr6	13622292	[C/T]	Ca05131	Non-Synonymous-CDS	HECT
CWSNP5190	Ca-Kabuli-Chr6	13625388	[A/G]	-	Intergenic	-
CWSNP5191	Ca-Kabuli-Chr6	13668916	[T/A]	-	Intergenic	-
CWSNP5192	Ca-Kabuli-Chr6	13668995	[A/G]	-	Intergenic	-
CWSNP5193	Ca-Kabuli-Chr6	13669052	[G/C]	-	Intergenic	-
CWSNP5194	Ca-Kabuli-Chr6	13669049	[C/T]	-	Intergenic	-
CWSNP5195	Ca-Kabuli-Chr6	13669048	[T/A]	-	Intergenic	-
CWSNP5196	Ca-Kabuli-Chr6	13669042	[A/G]	-	Intergenic	-
CWSNP5197	Ca-Kabuli-Chr6	13669018	[G/A]	-	Intergenic	-
CWSNP5198	Ca-Kabuli-Chr6	13669006	[G/C]	-	Intergenic	-
CWSNP5199	Ca-Kabuli-Chr6	13827484	[C/T]	Ca05146	Synonymous-CDS	Aspartate carbamoyltransferase,eukaryotic
CWSNP5200	Ca-Kabuli-Chr6	13827452	[C/G]	Ca05146	Intron	Aspartate carbamoyltransferase,eukaryotic

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP5201	Ca-Kabuli-Chr6	13913539	[A/G]	Ca05156	Intron	DNA-dependent ATPase MCM
CWSNP5202	Ca-Kabuli-Chr6	13948732	[G/T]	-	Intergenic	-
CWSNP5203	Ca-Kabuli-Chr6	13948778	[A/C]	-	Intergenic	-
CWSNP5204	Ca-Kabuli-Chr6	13986559	[A/G]	-	DRR	-
CWSNP5205	Ca-Kabuli-Chr6	14042859	[A/T]	-	Intergenic	-
CWSNP5206	Ca-Kabuli-Chr6	14067312	[A/C]	-	DRR	-
CWSNP5207	Ca-Kabuli-Chr6	14067326	[C/T]	-	DRR	-
CWSNP5208	Ca-Kabuli-Chr6	14112542	[A/G]	Ca05177	Intron	Stressup-regulatedNod19
CWSNP5209	Ca-Kabuli-Chr6	14148771	[A/G]	-	Intergenic	-
CWSNP5210	Ca-Kabuli-Chr6	14155543	[C/T]	-	URR	-
CWSNP5211	Ca-Kabuli-Chr6	14155662	[T/C]	-	URR	-
CWSNP5212	Ca-Kabuli-Chr6	14155643	[A/C]	-	URR	-
CWSNP5213	Ca-Kabuli-Chr6	14161084	[G/C]	Ca05182	Intron	N-acetylglucosaminyl inositoldeacetylase phosphatidyl
CWSNP5214	Ca-Kabuli-Chr6	14201001	[T/C]	-	URR	-
CWSNP5215	Ca-Kabuli-Chr6	14200997	[G/A]	-	URR	-
CWSNP5216	Ca-Kabuli-Chr6	14204400	[T/C]	-	URR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP5217	Ca-Kabuli-Chr6	14204469	[G/A]	-	URR	-
CWSNP5218	Ca-Kabuli-Chr6	14254394	[A/G]	-	DRR	-
CWSNP5219	Ca-Kabuli-Chr6	14309042	[C/T]	-	DRR	-
CWSNP5220	Ca-Kabuli-Chr6	14330533	[T/C]	-	URR	-
CWSNP5221	Ca-Kabuli-Chr6	14332018	[A/C]	-	URR	-
CWSNP5222	Ca-Kabuli-Chr6	14332404	[A/G]	-	URR	-
CWSNP5223	Ca-Kabuli-Chr6	14353598	[C/T]	-	DRR	-
CWSNP5224	Ca-Kabuli-Chr6	14353624	[G/A]	-	DRR	-
CWSNP5225	Ca-Kabuli-Chr6	14371493	[C/T]	Ca05207	Synonymous-CDS	Sec1-like protein
CWSNP5226	Ca-Kabuli-Chr6	14371530	[C/T]	Ca05207	Synonymous-CDS	Sec1-like protein
CWSNP5227	Ca-Kabuli-Chr6	14375135	[G/A]	-	Intergenic	-
CWSNP5228	Ca-Kabuli-Chr6	14375141	[G/C]	-	Intergenic	-
CWSNP5229	Ca-Kabuli-Chr6	14375172	[A/G]	-	Intergenic	-
CWSNP5230	Ca-Kabuli-Chr6	14375196	[G/A]	-	Intergenic	-
CWSNP5231	Ca-Kabuli-Chr6	14375207	[C/T]	-	Intergenic	-
CWSNP5232	Ca-Kabuli-Chr6	14416997	[A/G]	Ca05213	Non-Synonymous-CDS	Domain of unknown function DUF676,hydrolase-like

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP5233	Ca-Kabuli-Chr6	14416981	[A/G]	Ca05213	Synonymous-CDS	Domain of unknown function DUF676,hydrolase-like
CWSNP5234	Ca-Kabuli-Chr6	14419832	[C/T]	Ca05213	Synonymous-CDS	Domain of unknown function DUF676,hydrolase-like
CWSNP5235	Ca-Kabuli-Chr6	14526540	[A/T]	-	DRR	-
CWSNP5236	Ca-Kabuli-Chr6	14589480	[T/C]	-	Intergenic	-
CWSNP5237	Ca-Kabuli-Chr6	14589520	[G/C]	-	Intergenic	-
CWSNP5238	Ca-Kabuli-Chr6	14589744	[C/T]	Ca05228	Intron	Dynamin,GTPase domain
CWSNP5239	Ca-Kabuli-Chr6	14589807	[T/G]	Ca05228	Synonymous-CDS	Dynamin,GTPase domain
CWSNP5240	Ca-Kabuli-Chr6	14589873	[T/C]	Ca05228	Synonymous-CDS	Dynamin,GTPase domain
CWSNP5241	Ca-Kabuli-Chr6	14606892	[A/C]	-	URR	-
CWSNP5242	Ca-Kabuli-Chr6	14628213	[A/T]	Ca05233	Synonymous-CDS	Glycosidehydrolase,family3,N-terminal
CWSNP5243	Ca-Kabuli-Chr6	14628215	[T/C]	Ca05233	Non-Synonymous-CDS	Glycosidehydrolase,family3,N-terminal
CWSNP5244	Ca-Kabuli-Chr6	14628216	[A/C]	Ca05233	Synonymous-CDS	Glycosidehydrolase,family3,N-terminal
CWSNP5245	Ca-Kabuli-Chr6	14753191	[C/T]	-	Intergenic	-
CWSNP5246	Ca-Kabuli-Chr6	14753190	[G/A]	-	Intergenic	-
CWSNP5247	Ca-Kabuli-Chr6	14753158	[A/G]	-	Intergenic	-
CWSNP5248	Ca-Kabuli-Chr6	14753113	[C/A]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP5249	Ca-Kabuli-Chr6	14753145	[C/A]	-	Intergenic	-
CWSNP5250	Ca-Kabuli-Chr6	14762493	[A/G]	Ca05249	Non-Synonymous-CDS	K+ potassium transporter
CWSNP5251	Ca-Kabuli-Chr6	14786015	[T/G]	-	Intergenic	-
CWSNP5252	Ca-Kabuli-Chr6	14857722	[C/A]	-	URR	-
CWSNP5253	Ca-Kabuli-Chr6	14857709	[A/G]	-	URR	-
CWSNP5254	Ca-Kabuli-Chr6	14857680	[G/A]	-	URR	-
CWSNP5255	Ca-Kabuli-Chr6	14861487	[T/A]	-	Intergenic	-
CWSNP5256	Ca-Kabuli-Chr6	14884604	[T/G]	-	Intergenic	-
CWSNP5257	Ca-Kabuli-Chr6	14983391	[C/T]	Ca05273	Synonymous-CDS	BTB/POZ-like
CWSNP5258	Ca-Kabuli-Chr6	15051094	[T/C]	-	DRR	-
CWSNP5259	Ca-Kabuli-Chr6	15061717	[G/A]	Ca05286	Intron	Protein of unknown function DUF3506
CWSNP5260	Ca-Kabuli-Chr6	15123739	[C/T]	Ca05293	Intron	Dynamamin central domain
CWSNP5261	Ca-Kabuli-Chr6	15294332	[T/G]	-	Intergenic	-
CWSNP5262	Ca-Kabuli-Chr6	15294331	[C/T]	-	Intergenic	-
CWSNP5263	Ca-Kabuli-Chr6	15294329	[A/C]	-	Intergenic	-
CWSNP5264	Ca-Kabuli-Chr6	15301137	[C/T]	-	DRR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP5265	Ca-Kabuli-Chr6	15313655	[G/T]	Ca05316	Non-Synonymous-CDS	Regulator of K+ conductance, N-terminal
CWSNP5266	Ca-Kabuli-Chr6	15488309	[G/A]	Ca05332	Intron	Kinesin, motor domain
CWSNP5267	Ca-Kabuli-Chr6	15537908	[A/C]	Ca05338	Synonymous-CDS	-
CWSNP5268	Ca-Kabuli-Chr6	15543295	[C/G]	Ca05339	Non-Synonymous-CDS	Tetratricopeptide repeat
CWSNP5269	Ca-Kabuli-Chr6	15543293	[T/G]	Ca05339	Non-Synonymous-CDS	Tetratricopeptide repeat
CWSNP5270	Ca-Kabuli-Chr6	15543286	[G/A]	Ca05339	Non-Synonymous-CDS	Tetratricopeptide repeat
CWSNP5271	Ca-Kabuli-Chr6	15589885	[G/T]	Ca05341	Intron	Terpenesynthase-like
CWSNP5272	Ca-Kabuli-Chr6	15644412	[A/T]	Ca05343	Intron	Terpenesynthase-like
CWSNP5273	Ca-Kabuli-Chr6	15644796	[A/T]	Ca05343	Intron	Terpenesynthase-like
CWSNP5274	Ca-Kabuli-Chr6	15861278	[G/A]	-	Intergenic	-
CWSNP5275	Ca-Kabuli-Chr6	16113523	[T/C]	-	URR	-
CWSNP5276	Ca-Kabuli-Chr6	16113522	[A/T]	-	URR	-
CWSNP5277	Ca-Kabuli-Chr6	16113521	[G/T]	-	URR	-
CWSNP5278	Ca-Kabuli-Chr6	16148277	[A/C]	Ca19676	Intron	Calmodulin binding protein-like
CWSNP5279	Ca-Kabuli-Chr6	16189692	[C/A]	Ca19671	Non-Synonymous-CDS	S1/P1 nuclease
CWSNP5280	Ca-Kabuli-Chr6	16189693	[G/T]	Ca19671	Synonymous-CDS	S1/P1 nuclease

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP5281	Ca-Kabuli-Chr6	16196582	[G/C]	Ca19670	Synonymous-CDS	Sugar/inositol transporter
CWSNP5282	Ca-Kabuli-Chr6	16332377	[G/A]	Ca19665	Intron	Protein of unknown function DUF707
CWSNP5283	Ca-Kabuli-Chr6	16460495	[A/C]	Ca19651	Synonymous-CDS	-
CWSNP5284	Ca-Kabuli-Chr6	16635061	[C/T]	Ca06293	Intron	Double-stranded RNA-binding
CWSNP5285	Ca-Kabuli-Chr6	16646713	[T/G]	-	Intergenic	-
CWSNP5286	Ca-Kabuli-Chr6	16719918	[C/A]	Ca06303	Non-Synonymous-CDS	DNA mismatch repair protein MutS, C-terminaldomain
CWSNP5287	Ca-Kabuli-Chr6	16719919	[T/G]	Ca06303	Synonymous-CDS	DNA mismatch repair protein MutS, C-terminaldomain
CWSNP5288	Ca-Kabuli-Chr6	17096214	[C/T]	Ca06327	Intron	Mitochondrial substrate/solute carrier
CWSNP5289	Ca-Kabuli-Chr6	17096224	[C/T]	Ca06327	Intron	Mitochondrial substrate/solute carrier
CWSNP5290	Ca-Kabuli-Chr6	17129574	[A/G]	-	DRR	-
CWSNP5291	Ca-Kabuli-Chr6	17175334	[C/A]	-	Intergenic	-
CWSNP5292	Ca-Kabuli-Chr6	17258886	[T/G]	Ca06343	Non-Synonymous-CDS	Homeobox
CWSNP5293	Ca-Kabuli-Chr6	17262283	[C/T]	Ca06343	Synonymous-CDS	Homeobox
CWSNP5294	Ca-Kabuli-Chr6	17263126	[G/A]	Ca06343	Synonymous-CDS	Homeobox
CWSNP5295	Ca-Kabuli-Chr6	17369613	[A/G]	Ca06352	Synonymous-CDS	Transcriptional factor B3
CWSNP5296	Ca-Kabuli-Chr6	17445945	[T/G]	-	DRR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP5297	Ca-Kabuli-Chr6	17477741	[A/G]	Ca06361	Synonymous-CDS	-
CWSNP5298	Ca-Kabuli-Chr6	17478220	[G/A]	Ca06361	Synonymous-CDS	-
CWSNP5299	Ca-Kabuli-Chr6	17480486	[G/C]	Ca06361	Synonymous-CDS	-
CWSNP5300	Ca-Kabuli-Chr6	17481288	[T/C]	-	DRR	-
CWSNP5301	Ca-Kabuli-Chr6	17481307	[C/A]	-	DRR	-
CWSNP5302	Ca-Kabuli-Chr6	17481403	[T/G]	-	Intergenic	-
CWSNP5303	Ca-Kabuli-Chr6	17481392	[A/G]	-	Intergenic	-
CWSNP5304	Ca-Kabuli-Chr6	17482626	[A/G]	-	Intergenic	-
CWSNP5305	Ca-Kabuli-Chr6	17482640	[C/T]	-	Intergenic	-
CWSNP5306	Ca-Kabuli-Chr6	17482649	[A/G]	-	Intergenic	-
CWSNP5307	Ca-Kabuli-Chr6	17482718	[G/A]	-	Intergenic	-
CWSNP5308	Ca-Kabuli-Chr6	17482697	[A/G]	-	Intergenic	-
CWSNP5309	Ca-Kabuli-Chr6	17573309	[A/G]	Ca06374	Intron	Apoptosis inhibitory5
CWSNP5310	Ca-Kabuli-Chr6	17659067	[A/C]	-	DRR	-
CWSNP5311	Ca-Kabuli-Chr6	17741078	[G/A]	Ca06393	Synonymous-CDS	WW/Rsp5/WWP
CWSNP5312	Ca-Kabuli-Chr6	18027391	[G/A]	Ca06422	Intron	Myb,DNA-binding

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP5313	Ca-Kabuli-Chr6	18094691	[C/A]	-	Intergenic	-
CWSNP5314	Ca-Kabuli-Chr6	18125613	[C/A]	-	DRR	-
CWSNP5315	Ca-Kabuli-Chr6	18389704	[T/G]	Ca06455	Intron	Glycosyltransferase, family10
CWSNP5316	Ca-Kabuli-Chr6	18389661	[A/C]	Ca06455	Intron	Glycosyltransferase, family10
CWSNP5317	Ca-Kabuli-Chr6	18444725	[T/C]	-	DRR	-
CWSNP5318	Ca-Kabuli-Chr6	18987220	[T/G]	-	DRR	-
CWSNP5319	Ca-Kabuli-Chr6	19125254	[G/A]	-	DRR	-
CWSNP5320	Ca-Kabuli-Chr6	19450845	[T/A]	Ca06550	Intron	ATPase, AAA+type, core
CWSNP5321	Ca-Kabuli-Chr6	19551459	[G/A]	Ca06563	Intron	Asparagine synthase
CWSNP5322	Ca-Kabuli-Chr6	19551504	[G/C]	Ca06563	Intron	Asparagine synthase
CWSNP5323	Ca-Kabuli-Chr6	20505641	[A/T]	Ca16381	Non-Synonymous-CDS	Cullin, N-terminal
CWSNP5324	Ca-Kabuli-Chr6	20766377	[C/A]	Ca16355	Non-Synonymous-CDS	Helix-loop-helix DNA-binding domain
CWSNP5325	Ca-Kabuli-Chr6	20830353	[T/G]	-	Intergenic	-
CWSNP5326	Ca-Kabuli-Chr6	20917713	[A/C]	-	Intergenic	-
CWSNP5327	Ca-Kabuli-Chr6	21025677	[T/A]	-	Intergenic	-
CWSNP5328	Ca-Kabuli-Chr6	21025742	[T/G]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP5329	Ca-Kabuli-Chr6	21025706	[C/T]	-	Intergenic	-
CWSNP5330	Ca-Kabuli-Chr6	21025673	[C/T]	-	Intergenic	-
CWSNP5331	Ca-Kabuli-Chr6	21025894	[G/T]	-	Intergenic	-
CWSNP5332	Ca-Kabuli-Chr6	21135764	[C/T]	Ca19889	Non-Synonymous-CDS	-
CWSNP5333	Ca-Kabuli-Chr6	21139038	[C/G]	-	Intergenic	-
CWSNP5334	Ca-Kabuli-Chr6	21165999	[G/T]	-	Intergenic	-
CWSNP5335	Ca-Kabuli-Chr6	21238707	[G/T]	-	DRR	-
CWSNP5336	Ca-Kabuli-Chr6	21276479	[G/T]	-	Intergenic	-
CWSNP5337	Ca-Kabuli-Chr6	21323438	[T/C]	Ca19873	Synonymous-CDS	Phosphoenol pyruvatecarboxylase,active site
CWSNP5338	Ca-Kabuli-Chr6	21385915	[C/A]	-	URR	-
CWSNP5339	Ca-Kabuli-Chr6	21478820	[G/T]	-	URR	-
CWSNP5340	Ca-Kabuli-Chr6	21478816	[C/T]	-	URR	-
CWSNP5341	Ca-Kabuli-Chr6	21483425	[T/G]	-	Intergenic	-
CWSNP5342	Ca-Kabuli-Chr6	21483429	[C/T]	-	Intergenic	-
CWSNP5343	Ca-Kabuli-Chr6	21483494	[T/G]	-	Intergenic	-
CWSNP5344	Ca-Kabuli-Chr6	21718674	[G/T]	Ca11268	Non-Synonymous-CDS	Myb,DNA-binding

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP5345	Ca-Kabuli-Chr6	21763468	[G/A]	-	Intergenic	-
CWSNP5346	Ca-Kabuli-Chr6	21940793	[T/C]	-	DRR	-
CWSNP5347	Ca-Kabuli-Chr6	22038857	[A/G]	-	Intergenic	-
CWSNP5348	Ca-Kabuli-Chr6	22137464	[G/A]	-	Intergenic	-
CWSNP5349	Ca-Kabuli-Chr6	22192503	[G/A]	Ca11219	Synonymous-CDS	Exostosin-like
CWSNP5350	Ca-Kabuli-Chr6	22192498	[A/C]	Ca11219	Non-Synonymous-CDS	Exostosin-like
CWSNP5351	Ca-Kabuli-Chr6	22194387	[C/A]	Ca11219	Non-Synonymous-CDS	Exostosin-like
CWSNP5352	Ca-Kabuli-Chr6	22208125	[G/A]	-	URR	-
CWSNP5353	Ca-Kabuli-Chr6	22208093	[G/A]	-	URR	-
CWSNP5354	Ca-Kabuli-Chr6	22211823	[T/C]	-	DRR	-
CWSNP5355	Ca-Kabuli-Chr6	22217158	[A/G]	-	Intergenic	-
CWSNP5356	Ca-Kabuli-Chr6	22217157	[T/G]	-	Intergenic	-
CWSNP5357	Ca-Kabuli-Chr6	22225288	[T/G]	-	DRR	-
CWSNP5358	Ca-Kabuli-Chr6	22252149	[G/A]	-	Intergenic	-
CWSNP5359	Ca-Kabuli-Chr6	22263388	[A/G]	-	Intergenic	-
CWSNP5360	Ca-Kabuli-Chr6	22352976	[T/C]	-	URR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP5361	Ca-Kabuli-Chr6	22370242	[C/T]	-	DRR	-
CWSNP5362	Ca-Kabuli-Chr6	22446610	[G/A]	Ca11195	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP5363	Ca-Kabuli-Chr6	22446649	[C/T]	Ca11195	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP5364	Ca-Kabuli-Chr6	22482366	[A/C]	Ca11192	Intron	Nitrite/sulphite reductase,hemoprotein beta-component,ferredoxin-like
CWSNP5365	Ca-Kabuli-Chr6	23039165	[T/C]	-	Intergenic	-
CWSNP5366	Ca-Kabuli-Chr6	23039147	[G/A]	-	Intergenic	-
CWSNP5367	Ca-Kabuli-Chr6	23039145	[A/G]	-	Intergenic	-
CWSNP5368	Ca-Kabuli-Chr6	23039125	[G/A]	-	Intergenic	-
CWSNP5369	Ca-Kabuli-Chr6	23039097	[C/T]	-	Intergenic	-
CWSNP5370	Ca-Kabuli-Chr6	23766943	[C/T]	Ca11079	Intron	Tetratricopeptide repeat-containing
CWSNP5371	Ca-Kabuli-Chr6	23973410	[G/A]	Ca11064	Intron	RNA recognition motif domain
CWSNP5372	Ca-Kabuli-Chr6	24007185	[C/T]	-	DRR	-
CWSNP5373	Ca-Kabuli-Chr6	24403316	[G/T]	Ca11029	Non-Synonymous-CDS	PeptidaseS8/S53,subtilisin/kexin/sedolisin
CWSNP5374	Ca-Kabuli-Chr6	24516532	[C/T]	Ca27822	Synonymous-CDS	-
CWSNP5375	Ca-Kabuli-Chr6	24661895	[G/A]	-	DRR	-
CWSNP5376	Ca-Kabuli-Chr6	24661916	[C/T]	-	DRR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP5377	Ca-Kabuli-Chr6	24661937	[C/T]	-	DRR	-
CWSNP5378	Ca-Kabuli-Chr6	24661945	[T/A]	-	DRR	-
CWSNP5379	Ca-Kabuli-Chr6	24661986	[G/A]	-	DRR	-
CWSNP5380	Ca-Kabuli-Chr6	25575097	[T/C]	Ca24008	Synonymous-CDS	-
CWSNP5381	Ca-Kabuli-Chr6	25575078	[C/T]	Ca24008	Non-Synonymous-CDS	-
CWSNP5382	Ca-Kabuli-Chr6	25575062	[G/A]	Ca24008	Non-Synonymous-CDS	-
CWSNP5383	Ca-Kabuli-Chr6	25575045	[C/A]	Ca24008	Non-Synonymous-CDS	-
CWSNP5384	Ca-Kabuli-Chr6	25604942	[C/A]	-	Intergenic	-
CWSNP5385	Ca-Kabuli-Chr6	25604936	[C/T]	-	Intergenic	-
CWSNP5386	Ca-Kabuli-Chr6	25604931	[C/A]	-	Intergenic	-
CWSNP5387	Ca-Kabuli-Chr6	25604922	[A/G]	-	Intergenic	-
CWSNP5388	Ca-Kabuli-Chr6	25604954	[C/T]	-	Intergenic	-
CWSNP5389	Ca-Kabuli-Chr6	25604962	[G/A]	-	Intergenic	-
CWSNP5390	Ca-Kabuli-Chr6	25605006	[C/A]	-	Intergenic	-
CWSNP5391	Ca-Kabuli-Chr6	25605023	[C/A]	-	Intergenic	-
CWSNP5392	Ca-Kabuli-Chr6	25605022	[T/C]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP5393	Ca-Kabuli-Chr6	25850736	[C/T]	Ca24011	Non-Synonymous-CDS	-
CWSNP5394	Ca-Kabuli-Chr6	25850759	[C/A]	Ca24011	Non-Synonymous-CDS	-
CWSNP5395	Ca-Kabuli-Chr6	25850783	[G/A]	Ca24011	Non-Synonymous-CDS	-
CWSNP5396	Ca-Kabuli-Chr6	25850816	[C/A]	Ca24011	Non-Synonymous-CDS	-
CWSNP5397	Ca-Kabuli-Chr6	25850813	[C/T]	Ca24011	Non-Synonymous-CDS	-
CWSNP5398	Ca-Kabuli-Chr6	25850866	[C/G]	Ca24011	Synonymous-CDS	-
CWSNP5399	Ca-Kabuli-Chr6	25850827	[C/T]	Ca24011	Synonymous-CDS	-
CWSNP5400	Ca-Kabuli-Chr6	26349434	[G/A]	-	DRR	-
CWSNP5401	Ca-Kabuli-Chr6	26349451	[T/C]	-	DRR	-
CWSNP5402	Ca-Kabuli-Chr6	26353512	[C/T]	-	DRR	-
CWSNP5403	Ca-Kabuli-Chr6	26353740	[G/C]	-	DRR	-
CWSNP5404	Ca-Kabuli-Chr6	26357149	[C/G]	-	URR	-
CWSNP5405	Ca-Kabuli-Chr6	26360367	[C/A]	Ca16679	Synonymous-CDS	Oxysterol-binding protein
CWSNP5406	Ca-Kabuli-Chr6	26385432	[T/C]	-	Intergenic	-
CWSNP5407	Ca-Kabuli-Chr6	26426239	[C/A]	-	DRR	-
CWSNP5408	Ca-Kabuli-Chr6	26426252	[A/G]	-	DRR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP5409	Ca-Kabuli-Chr6	26426283	[G/A]	-	DRR	-
CWSNP5410	Ca-Kabuli-Chr6	26527161	[C/G]	Ca16688	Intron	Zinc finger,RING-type
CWSNP5411	Ca-Kabuli-Chr6	26549168	[T/G]	Ca16689	Intron	Armadillo
CWSNP5412	Ca-Kabuli-Chr6	26567360	[A/G]	Ca16690	Synonymous-CDS	Zinc finger,Dof-type
CWSNP5413	Ca-Kabuli-Chr6	26698265	[A/C]	Ca16698	Synonymous-CDS	Cellular retinaldehyde-binding/triple function,C-terminal
CWSNP5414	Ca-Kabuli-Chr6	26769087	[C/A]	Ca16707	Non-Synonymous-CDS	Ras GTPase
CWSNP5415	Ca-Kabuli-Chr6	27310342	[A/T]	Ca14618	Intron	Pathogenesis-related transcriptional factor/ERF, DNA-binding
CWSNP5416	Ca-Kabuli-Chr6	27310341	[G/T]	Ca14618	Intron	Pathogenesis-related transcriptional factor/ERF, DNA-binding
CWSNP5417	Ca-Kabuli-Chr6	27310336	[A/T]	Ca14618	Intron	Pathogenesis-related transcriptional factor/ERF, DNA-binding
CWSNP5418	Ca-Kabuli-Chr6	27310333	[C/T]	Ca14618	Intron	Pathogenesis-related transcriptional factor/ERF, DNA-binding
CWSNP5419	Ca-Kabuli-Chr6	27310328	[T/A]	Ca14618	Intron	Pathogenesis-related transcriptional factor/ERF, DNA-binding
CWSNP5420	Ca-Kabuli-Chr6	27310327	[A/T]	Ca14618	Intron	Pathogenesis-related transcriptional factor/ERF, DNA-binding
CWSNP5421	Ca-Kabuli-Chr6	27310325	[G/T]	Ca14618	Intron	Pathogenesis-related transcriptional factor/ERF, DNA-binding
CWSNP5422	Ca-Kabuli-Chr6	27310315	[C/T]	Ca14618	Intron	Pathogenesis-related transcriptional factor/ERF, DNA-binding
CWSNP5423	Ca-Kabuli-Chr6	27331165	[T/C]	Ca14617	Non-Synonymous-CDS	RNA recognition motif domain
CWSNP5424	Ca-Kabuli-Chr6	27383746	[A/T]	-	DRR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP5425	Ca-Kabuli-Chr6	27383745	[G/T]	-	DRR	-
CWSNP5426	Ca-Kabuli-Chr6	27383744	[G/T]	-	DRR	-
CWSNP5427	Ca-Kabuli-Chr6	27515293	[G/A]	Ca14606	Synonymous-CDS	Tetraspanin, subgroup
CWSNP5428	Ca-Kabuli-Chr6	27655605	[A/G]	Ca14592	Non-Synonymous-CDS	CytochromeB561-related
CWSNP5429	Ca-Kabuli-Chr6	27710531	[T/G]	-	Intergenic	-
CWSNP5430	Ca-Kabuli-Chr6	27986719	[A/G]	Ca14567	Non-Synonymous-CDS	Ribosomal proteinL11
CWSNP5431	Ca-Kabuli-Chr6	28021899	[C/T]	Ca14563	Non-Synonymous-CDS	DNA-directed polymerase, familyB, exonuclease domain DNA
CWSNP5432	Ca-Kabuli-Chr6	28044830	[C/A]	Ca14563	Non-Synonymous-CDS	DNA-directed polymerase, familyB, exonuclease domain DNA
CWSNP5433	Ca-Kabuli-Chr6	28052463	[T/G]	Ca14562	Synonymous-CDS	Vacuolar fusion protein MON1
CWSNP5434	Ca-Kabuli-Chr6	28325392	[C/T]	Ca25968	Non-Synonymous-CDS	RibonucleaseT2
CWSNP5435	Ca-Kabuli-Chr6	28372130	[C/T]	-	Intergenic	-
CWSNP5436	Ca-Kabuli-Chr6	28728293	[A/C]	Ca17478	Non-Synonymous-CDS	ChaperoninCpn60
CWSNP5437	Ca-Kabuli-Chr6	28757208	[C/A]	Ca17477	Intron	-
CWSNP5438	Ca-Kabuli-Chr6	28757204	[G/A]	Ca17477	Intron	-
CWSNP5439	Ca-Kabuli-Chr6	28757139	[C/A]	Ca17477	Intron	-
CWSNP5440	Ca-Kabuli-Chr6	28887188	[G/T]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP5441	Ca-Kabuli-Chr6	28947529	[A/C]	Ca17471	Non-Synonymous-CDS	Glyoxalase/bleomycin resistance protein/dioxygenase
CWSNP5442	Ca-Kabuli-Chr6	29085558	[T/C]	-	Intergenic	-
CWSNP5443	Ca-Kabuli-Chr6	29163667	[C/A]	-	DRR	-
CWSNP5444	Ca-Kabuli-Chr6	29163642	[G/A]	-	DRR	-
CWSNP5445	Ca-Kabuli-Chr6	29163640	[A/C]	-	DRR	-
CWSNP5446	Ca-Kabuli-Chr6	29205260	[A/G]	Ca17457	Intron	DNAIigase,ATP-dependent,N-terminal
CWSNP5447	Ca-Kabuli-Chr6	29205940	[A/G]	Ca17457	Non-Synonymous-CDS	DNAIigase,ATP-dependent,N-terminal
CWSNP5448	Ca-Kabuli-Chr6	29495856	[C/T]	Ca17443	Synonymous-CDS	-
CWSNP5449	Ca-Kabuli-Chr6	30257284	[A/C]	Ca16442	Intron	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP5450	Ca-Kabuli-Chr6	30676031	[G/T]	Ca16465	Synonymous-CDS	Translation elongation facto rEFG/EF2,C-terminal
CWSNP5451	Ca-Kabuli-Chr6	30676248	[C/T]	Ca16465	Synonymous-CDS	Translation elongation facto rEFG/EF2,C-terminal
CWSNP5452	Ca-Kabuli-Chr6	30926084	[G/A]	Ca16485	Non-Synonymous-CDS	-
CWSNP5453	Ca-Kabuli-Chr6	30927221	[C/G]	Ca16485	Non-Synonymous-CDS	-
CWSNP5454	Ca-Kabuli-Chr6	31048949	[T/C]	Ca16497	Synonymous-CDS	Late embryogenesis abundant protein, group2
CWSNP5455	Ca-Kabuli-Chr6	31057806	[C/T]	-	URR	-
CWSNP5456	Ca-Kabuli-Chr6	31324962	[A/C]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP5457	Ca-Kabuli-Chr6	31324976	[A/G]	-	Intergenic	-
CWSNP5458	Ca-Kabuli-Chr6	31895264	[C/T]	Ca15200	Intron	Metallo-dependent phosphatase
CWSNP5459	Ca-Kabuli-Chr6	31900781	[T/G]	Ca15200	Intron	Metallo-dependent phosphatase
CWSNP5460	Ca-Kabuli-Chr6	31900785	[T/G]	Ca15200	Intron	Metallo-dependent phosphatase
CWSNP5461	Ca-Kabuli-Chr6	31900790	[A/C]	Ca15200	Intron	Metallo-dependent phosphatase
CWSNP5462	Ca-Kabuli-Chr6	31992907	[A/G]	Ca15204	Intron	-
CWSNP5463	Ca-Kabuli-Chr6	32140428	[C/A]	Ca15214	Non-Synonymous-CDS	BRCT
CWSNP5464	Ca-Kabuli-Chr6	32140429	[G/T]	Ca15214	Synonymous-CDS	BRCT
CWSNP5465	Ca-Kabuli-Chr6	32262807	[T/C]	-	DRR	-
CWSNP5466	Ca-Kabuli-Chr6	32262855	[C/T]	-	DRR	-
CWSNP5467	Ca-Kabuli-Chr6	32328468	[T/C]	Ca15224	Non-Synonymous-CDS	DNA-binding WRKY
CWSNP5468	Ca-Kabuli-Chr6	32717450	[G/A]	-	DRR	-
CWSNP5469	Ca-Kabuli-Chr6	32717665	[C/A]	-	DRR	-
CWSNP5470	Ca-Kabuli-Chr6	32825567	[C/A]	-	Intergenic	-
CWSNP5471	Ca-Kabuli-Chr6	32825561	[C/T]	-	Intergenic	-
CWSNP5472	Ca-Kabuli-Chr6	32825547	[A/G]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP5473	Ca-Kabuli-Chr6	32825587	[G/A]	-	Intergenic	-
CWSNP5474	Ca-Kabuli-Chr6	32825619	[T/C]	-	Intergenic	-
CWSNP5475	Ca-Kabuli-Chr6	32825631	[C/A]	-	Intergenic	-
CWSNP5476	Ca-Kabuli-Chr6	32914927	[C/G]	Ca22229	Intron	PeptidaseM48
CWSNP5477	Ca-Kabuli-Chr6	33502994	[C/A]	-	Intergenic	-
CWSNP5478	Ca-Kabuli-Chr6	33503007	[T/C]	-	Intergenic	-
CWSNP5479	Ca-Kabuli-Chr6	33503032	[A/C]	-	Intergenic	-
CWSNP5480	Ca-Kabuli-Chr6	33503051	[G/C]	-	Intergenic	-
CWSNP5481	Ca-Kabuli-Chr6	33503063	[C/G]	-	Intergenic	-
CWSNP5482	Ca-Kabuli-Chr6	33503065	[C/A]	-	Intergenic	-
CWSNP5483	Ca-Kabuli-Chr6	33503071	[A/G]	-	Intergenic	-
CWSNP5484	Ca-Kabuli-Chr6	33598926	[G/A]	Ca22069	Intron	-
CWSNP5485	Ca-Kabuli-Chr6	33704792	[C/T]	-	Intergenic	-
CWSNP5486	Ca-Kabuli-Chr6	33704807	[C/A]	-	Intergenic	-
CWSNP5487	Ca-Kabuli-Chr6	33733259	[A/G]	Ca22063	Synonymous-CDS	Zinc finger,RING-type
CWSNP5488	Ca-Kabuli-Chr6	34407309	[T/C]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP5489	Ca-Kabuli-Chr6	34481266	[A/G]	Ca15818	Intron	-
CWSNP5490	Ca-Kabuli-Chr6	34481256	[C/T]	Ca15818	Intron	-
CWSNP5491	Ca-Kabuli-Chr6	34596792	[A/G]	-	Intergenic	-
CWSNP5492	Ca-Kabuli-Chr6	34744433	[A/G]	-	Intergenic	-
CWSNP5493	Ca-Kabuli-Chr6	34744438	[T/G]	-	Intergenic	-
CWSNP5494	Ca-Kabuli-Chr6	34744681	[T/G]	-	Intergenic	-
CWSNP5495	Ca-Kabuli-Chr6	34744665	[G/A]	-	Intergenic	-
CWSNP5496	Ca-Kabuli-Chr6	35129588	[G/A]	Ca15788	Synonymous-CDS	Zinc finger,PHD-type
CWSNP5497	Ca-Kabuli-Chr6	35596064	[T/C]	-	Intergenic	-
CWSNP5498	Ca-Kabuli-Chr6	35596070	[G/A]	-	Intergenic	-
CWSNP5499	Ca-Kabuli-Chr6	35596161	[C/T]	-	Intergenic	-
CWSNP5500	Ca-Kabuli-Chr6	35596184	[A/G]	-	Intergenic	-
CWSNP5501	Ca-Kabuli-Chr6	35596195	[G/C]	-	Intergenic	-
CWSNP5502	Ca-Kabuli-Chr6	35596197	[G/A]	-	Intergenic	-
CWSNP5503	Ca-Kabuli-Chr6	35596207	[G/T]	-	Intergenic	-
CWSNP5504	Ca-Kabuli-Chr6	35596218	[T/C]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP5505	Ca-Kabuli-Chr6	35596220	[G/A]	-	Intergenic	-
CWSNP5506	Ca-Kabuli-Chr6	35596230	[T/A]	-	Intergenic	-
CWSNP5507	Ca-Kabuli-Chr6	35962309	[C/T]	-	Intergenic	-
CWSNP5508	Ca-Kabuli-Chr6	35962320	[T/C]	-	Intergenic	-
CWSNP5509	Ca-Kabuli-Chr6	35962360	[T/C]	-	Intergenic	-
CWSNP5510	Ca-Kabuli-Chr6	35962364	[T/G]	-	Intergenic	-
CWSNP5511	Ca-Kabuli-Chr6	35962365	[T/C]	-	Intergenic	-
CWSNP5512	Ca-Kabuli-Chr6	35962366	[G/A]	-	Intergenic	-
CWSNP5513	Ca-Kabuli-Chr6	36574836	[A/G]	-	Intergenic	-
CWSNP5514	Ca-Kabuli-Chr6	36790467	[G/A]	Ca19812	Non-Synonymous-CDS	-
CWSNP5515	Ca-Kabuli-Chr6	36790458	[G/A]	Ca19812	Non-Synonymous-CDS	-
CWSNP5516	Ca-Kabuli-Chr6	36790428	[G/A]	Ca19812	Non-Synonymous-CDS	-
CWSNP5517	Ca-Kabuli-Chr6	36790455	[C/T]	Ca19812	Non-Synonymous-CDS	-
CWSNP5518	Ca-Kabuli-Chr6	37139425	[C/T]	Ca19803	Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP5519	Ca-Kabuli-Chr6	37139466	[G/C]	Ca19803	Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP5520	Ca-Kabuli-Chr6	37139484	[T/C]	Ca19803	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP5521	Ca-Kabuli-Chr6	37139514	[C/T]	Ca19803	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP5522	Ca-Kabuli-Chr6	37139499	[C/G]	Ca19803	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP5523	Ca-Kabuli-Chr6	37139610	[T/G]	Ca19803	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP5524	Ca-Kabuli-Chr6	37139604	[G/T]	Ca19803	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP5525	Ca-Kabuli-Chr6	37476426	[C/T]	-	Intergenic	-
CWSNP5526	Ca-Kabuli-Chr6	37476516	[G/T]	-	Intergenic	-
CWSNP5527	Ca-Kabuli-Chr6	37476465	[G/A]	-	Intergenic	-
CWSNP5528	Ca-Kabuli-Chr6	37484467	[C/T]	-	Intergenic	-
CWSNP5529	Ca-Kabuli-Chr6	37484468	[G/T]	-	Intergenic	-
CWSNP5530	Ca-Kabuli-Chr6	37484470	[C/A]	-	Intergenic	-
CWSNP5531	Ca-Kabuli-Chr6	37484489	[C/G]	-	Intergenic	-
CWSNP5532	Ca-Kabuli-Chr6	37484513	[T/C]	-	Intergenic	-
CWSNP5533	Ca-Kabuli-Chr6	38816345	[C/T]	Ca15898	Synonymous-CDS	Transcription factor GRAS
CWSNP5534	Ca-Kabuli-Chr6	38838320	[A/G]	Ca15899	Non-Synonymous-CDS	Calcium-binding EF-hand
CWSNP5535	Ca-Kabuli-Chr6	38840279	[G/A]	-	Intergenic	-
CWSNP5536	Ca-Kabuli-Chr6	38840273	[G/A]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP5537	Ca-Kabuli-Chr6	38881909	[C/A]	-	Intergenic	-
CWSNP5538	Ca-Kabuli-Chr6	38886735	[C/A]	-	Intergenic	-
CWSNP5539	Ca-Kabuli-Chr6	38994879	[A/G]	Ca15903	Non-Synonymous-CDS	-
CWSNP5540	Ca-Kabuli-Chr6	38994925	[G/T]	Ca15903	Non-Synonymous-CDS	-
CWSNP5541	Ca-Kabuli-Chr6	38994954	[A/G]	Ca15903	Non-Synonymous-CDS	-
CWSNP5542	Ca-Kabuli-Chr6	38994962	[G/A]	Ca15903	Synonymous-CDS	-
CWSNP5543	Ca-Kabuli-Chr6	39107187	[C/T]	-	Intergenic	-
CWSNP5544	Ca-Kabuli-Chr6	39317016	[T/G]	Ca15914	Intron	PAP/25A-associated
CWSNP5545	Ca-Kabuli-Chr6	39380625	[A/C]	Ca15918	Intron	Resolvase,holliday junction-type,YqgF-like
CWSNP5546	Ca-Kabuli-Chr6	39908314	[T/G]	-	DRR	-
CWSNP5547	Ca-Kabuli-Chr6	40047823	[A/G]	Ca15938	Non-Synonymous-CDS	Chromodomain
CWSNP5548	Ca-Kabuli-Chr6	40128644	[T/C]	-	Intergenic	-
CWSNP5549	Ca-Kabuli-Chr6	40468356	[T/A]	Ca21602	Intron	-
CWSNP5550	Ca-Kabuli-Chr6	40477285	[G/A]	Ca21600	Non-Synonymous-CDS	Nitroreductase-like
CWSNP5551	Ca-Kabuli-Chr6	40657695	[A/C]	Ca21596	Synonymous-CDS	PeptidaseM22, glycoprotease
CWSNP5552	Ca-Kabuli-Chr6	40735186	[C/A]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP5553	Ca-Kabuli-Chr6	40767566	[A/G]	-	Intergenic	-
CWSNP5554	Ca-Kabuli-Chr6	40821354	[C/T]	Ca21586	Intron	Transketolase,N-terminal
CWSNP5555	Ca-Kabuli-Chr6	40935441	[A/T]	Ca21581	Intron	Exo cystcomplex component Sec6
CWSNP5556	Ca-Kabuli-Chr6	41121330	[G/A]	Ca23143	Non-Synonymous-CDS	-
CWSNP5557	Ca-Kabuli-Chr6	41682983	[T/C]	-	Intergenic	-
CWSNP5558	Ca-Kabuli-Chr6	41682966	[C/T]	-	Intergenic	-
CWSNP5559	Ca-Kabuli-Chr6	41682943	[T/C]	-	Intergenic	-
CWSNP5560	Ca-Kabuli-Chr6	41697812	[T/G]	Ca21940	Intron	Ribonucleasell/R
CWSNP5561	Ca-Kabuli-Chr6	41708309	[G/A]	-	Intergenic	-
CWSNP5562	Ca-Kabuli-Chr6	41708306	[G/A]	-	Intergenic	-
CWSNP5563	Ca-Kabuli-Chr6	41708523	[T/G]	-	Intergenic	-
CWSNP5564	Ca-Kabuli-Chr6	41708474	[G/A]	-	Intergenic	-
CWSNP5565	Ca-Kabuli-Chr6	41708530	[C/A]	-	Intergenic	-
CWSNP5566	Ca-Kabuli-Chr6	41907459	[C/G]	-	Intergenic	-
CWSNP5567	Ca-Kabuli-Chr6	42004851	[A/G]	Ca21951	Non-Synonymous-CDS	TGS
CWSNP5568	Ca-Kabuli-Chr6	42004829	[T/G]	Ca21951	Synonymous-CDS	TGS

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP5569	Ca-Kabuli-Chr6	42004818	[C/G]	Ca21951	Synonymous-CDS	TGS
CWSNP5570	Ca-Kabuli-Chr6	42004813	[C/T]	Ca21951	Synonymous-CDS	TGS
CWSNP5571	Ca-Kabuli-Chr6	42161857	[C/G]	-	URR	-
CWSNP5572	Ca-Kabuli-Chr6	42161866	[T/G]	-	URR	-
CWSNP5573	Ca-Kabuli-Chr6	42521162	[G/T]	Ca23238	Intron	UDP-glucuronosyl/UDP-glucosyltransferase
CWSNP5574	Ca-Kabuli-Chr6	42855091	[T/G]	Ca23252	Non-Synonymous-CDS	BTB/POZ-like
CWSNP5575	Ca-Kabuli-Chr6	42905012	[G/A]	Ca23254	Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP5576	Ca-Kabuli-Chr6	42905039	[C/T]	Ca23254	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP5577	Ca-Kabuli-Chr6	42905035	[T/A]	Ca23254	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP5578	Ca-Kabuli-Chr6	42905094	[C/T]	Ca23254	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP5579	Ca-Kabuli-Chr6	42905090	[G/A]	Ca23254	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP5580	Ca-Kabuli-Chr6	42905086	[T/C]	Ca23254	Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP5581	Ca-Kabuli-Chr6	42905058	[C/G]	Ca23254	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP5582	Ca-Kabuli-Chr6	42905059	[A/G]	Ca23254	Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP5583	Ca-Kabuli-Chr6	42905115	[G/T]	Ca23254	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP5584	Ca-Kabuli-Chr6	42905116	[A/T]	Ca23254	Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP5585	Ca-Kabuli-Chr6	42923969	[A/C]	-	Intergenic	-
CWSNP5586	Ca-Kabuli-Chr6	43148784	[C/G]	-	Intergenic	-
CWSNP5587	Ca-Kabuli-Chr6	43905509	[A/T]	-	Intergenic	-
CWSNP5588	Ca-Kabuli-Chr6	43907445	[T/C]	-	Intergenic	-
CWSNP5589	Ca-Kabuli-Chr6	44530888	[C/A]	Ca24241	Non-Synonymous-CDS	Aspartate/glutamate/uridylatekinase
CWSNP5590	Ca-Kabuli-Chr6	44530889	[A/G]	Ca24241	Synonymous-CDS	Aspartate/glutamate/uridylatekinase
CWSNP5591	Ca-Kabuli-Chr6	44707313	[T/A]	-	Intergenic	-
CWSNP5592	Ca-Kabuli-Chr6	44711166	[A/G]	-	Intergenic	-
CWSNP5593	Ca-Kabuli-Chr6	44944917	[G/A]	Ca13813	Non-Synonymous-CDS	Carbohydrate/puinekinase,PfkB,conserved site
CWSNP5594	Ca-Kabuli-Chr6	45178060	[G/A]	-	Intergenic	-
CWSNP5595	Ca-Kabuli-Chr6	45178044	[G/A]	-	Intergenic	-
CWSNP5596	Ca-Kabuli-Chr6	45178061	[C/T]	-	Intergenic	-
CWSNP5597	Ca-Kabuli-Chr6	45293271	[T/C]	-	Intergenic	-
CWSNP5598	Ca-Kabuli-Chr6	45500961	[T/A]	Ca13841	Non-Synonymous-CDS	Ankyrin repeat
CWSNP5599	Ca-Kabuli-Chr6	45505942	[A/G]	Ca13841	Non-Synonymous-CDS	Ankyrin repeat
CWSNP5600	Ca-Kabuli-Chr6	45550031	[C/A]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP5601	Ca-Kabuli-Chr6	45554040	[G/A]	-	Intergenic	-
CWSNP5602	Ca-Kabuli-Chr6	45637292	[C/A]	Ca13850	Non-Synonymous-CDS	-
CWSNP5603	Ca-Kabuli-Chr6	45637293	[T/C]	Ca13850	Synonymous-CDS	-
CWSNP5604	Ca-Kabuli-Chr6	45637322	[C/A]	Ca13850	Non-Synonymous-CDS	-
CWSNP5605	Ca-Kabuli-Chr6	45637309	[G/A]	Ca13850	Non-Synonymous-CDS	-
CWSNP5606	Ca-Kabuli-Chr6	45637308	[G/T]	Ca13850	Synonymous-CDS	-
CWSNP5607	Ca-Kabuli-Chr6	45693275	[G/A]	-	Intergenic	-
CWSNP5608	Ca-Kabuli-Chr6	45978263	[G/A]	-	Intergenic	-
CWSNP5609	Ca-Kabuli-Chr6	46734706	[C/G]	-	DRR	-
CWSNP5610	Ca-Kabuli-Chr6	46734725	[G/A]	-	DRR	-
CWSNP5611	Ca-Kabuli-Chr6	46734726	[T/C]	-	DRR	-
CWSNP5612	Ca-Kabuli-Chr6	46765659	[G/A]	Ca17737	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP5613	Ca-Kabuli-Chr6	46765661	[A/T]	Ca17737	Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP5614	Ca-Kabuli-Chr6	46765673	[G/A]	Ca17737	Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP5615	Ca-Kabuli-Chr6	46765725	[C/T]	Ca17737	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP5616	Ca-Kabuli-Chr6	46765778	[C/A]	Ca17737	Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP5617	Ca-Kabuli-Chr6	46765696	[C/T]	Ca17737	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP5618	Ca-Kabuli-Chr6	46896903	[C/T]	-	Intergenic	-
CWSNP5619	Ca-Kabuli-Chr6	46896910	[A/C]	-	Intergenic	-
CWSNP5620	Ca-Kabuli-Chr6	46898225	[A/C]	-	Intergenic	-
CWSNP5621	Ca-Kabuli-Chr6	46898305	[T/G]	-	Intergenic	-
CWSNP5622	Ca-Kabuli-Chr6	46898316	[T/G]	-	Intergenic	-
CWSNP5623	Ca-Kabuli-Chr6	46898317	[C/T]	-	Intergenic	-
CWSNP5624	Ca-Kabuli-Chr6	46899229	[G/A]	-	Intergenic	-
CWSNP5625	Ca-Kabuli-Chr6	46979240	[C/T]	-	Intergenic	-
CWSNP5626	Ca-Kabuli-Chr6	46979267	[C/A]	-	Intergenic	-
CWSNP5627	Ca-Kabuli-Chr6	47906683	[G/A]	Ca23445	Intron	Zinc finger,CCHC-type
CWSNP5628	Ca-Kabuli-Chr6	47906680	[C/T]	Ca23445	Intron	Zinc finger,CCHC-type
CWSNP5629	Ca-Kabuli-Chr6	47906629	[T/G]	Ca23445	Intron	Zinc finger,CCHC-type
CWSNP5630	Ca-Kabuli-Chr6	48088550	[G/A]	-	Intergenic	-
CWSNP5631	Ca-Kabuli-Chr6	48088592	[C/T]	-	Intergenic	-
CWSNP5632	Ca-Kabuli-Chr6	48255392	[G/A]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP5633	Ca-Kabuli-Chr6	48255538	[A/G]	-	Intergenic	-
CWSNP5634	Ca-Kabuli-Chr6	48255558	[C/T]	-	Intergenic	-
CWSNP5635	Ca-Kabuli-Chr6	48255559	[A/G]	-	Intergenic	-
CWSNP5636	Ca-Kabuli-Chr6	48255568	[A/G]	-	Intergenic	-
CWSNP5637	Ca-Kabuli-Chr6	48255599	[C/A]	-	Intergenic	-
CWSNP5638	Ca-Kabuli-Chr6	48314052	[T/A]	Ca24606	Synonymous-CDS	-
CWSNP5639	Ca-Kabuli-Chr6	48315194	[C/A]	-	Intergenic	-
CWSNP5640	Ca-Kabuli-Chr6	48315340	[C/A]	-	Intergenic	-
CWSNP5641	Ca-Kabuli-Chr6	48315343	[G/T]	-	Intergenic	-
CWSNP5642	Ca-Kabuli-Chr6	48864625	[G/A]	-	Intergenic	-
CWSNP5643	Ca-Kabuli-Chr6	48864639	[A/C]	-	Intergenic	-
CWSNP5644	Ca-Kabuli-Chr6	48864699	[T/C]	-	Intergenic	-
CWSNP5645	Ca-Kabuli-Chr6	48869577	[C/T]	-	Intergenic	-
CWSNP5646	Ca-Kabuli-Chr6	48869539	[A/G]	-	Intergenic	-
CWSNP5647	Ca-Kabuli-Chr6	48869529	[T/C]	-	Intergenic	-
CWSNP5648	Ca-Kabuli-Chr6	48869512	[G/C]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP5649	Ca-Kabuli-Chr6	48940386	[A/C]	Ca20710	Synonymous-CDS	Clathrin adaptor complex,small chain
CWSNP5650	Ca-Kabuli-Chr6	49044772	[A/C]	-	Intergenic	-
CWSNP5651	Ca-Kabuli-Chr6	49044785	[C/T]	-	Intergenic	-
CWSNP5652	Ca-Kabuli-Chr6	49044794	[T/A]	-	Intergenic	-
CWSNP5653	Ca-Kabuli-Chr6	49044802	[T/C]	-	Intergenic	-
CWSNP5654	Ca-Kabuli-Chr6	49044805	[A/G]	-	Intergenic	-
CWSNP5655	Ca-Kabuli-Chr6	49044814	[G/T]	-	Intergenic	-
CWSNP5656	Ca-Kabuli-Chr6	49044824	[C/T]	-	Intergenic	-
CWSNP5657	Ca-Kabuli-Chr6	49044839	[T/A]	-	Intergenic	-
CWSNP5658	Ca-Kabuli-Chr6	49044850	[A/C]	-	Intergenic	-
CWSNP5659	Ca-Kabuli-Chr6	49044847	[G/A]	-	Intergenic	-
CWSNP5660	Ca-Kabuli-Chr6	49044842	[G/A]	-	Intergenic	-
CWSNP5661	Ca-Kabuli-Chr6	49044838	[C/A]	-	Intergenic	-
CWSNP5662	Ca-Kabuli-Chr6	49044835	[C/A]	-	Intergenic	-
CWSNP5663	Ca-Kabuli-Chr6	49044826	[G/A]	-	Intergenic	-
CWSNP5664	Ca-Kabuli-Chr6	49044821	[C/G]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP5665	Ca-Kabuli-Chr6	49044810	[G/A]	-	Intergenic	-
CWSNP5666	Ca-Kabuli-Chr6	49044808	[C/T]	-	Intergenic	-
CWSNP5667	Ca-Kabuli-Chr6	49044788	[T/A]	-	Intergenic	-
CWSNP5668	Ca-Kabuli-Chr6	49044780	[G/A]	-	Intergenic	-
CWSNP5669	Ca-Kabuli-Chr6	49044915	[A/G]	-	Intergenic	-
CWSNP5670	Ca-Kabuli-Chr6	49044928	[C/A]	-	Intergenic	-
CWSNP5671	Ca-Kabuli-Chr6	49044937	[A/G]	-	Intergenic	-
CWSNP5672	Ca-Kabuli-Chr6	49044944	[A/G]	-	Intergenic	-
CWSNP5673	Ca-Kabuli-Chr6	49167341	[T/G]	-	URR	-
CWSNP5674	Ca-Kabuli-Chr6	49222291	[G/A]	-	Intergenic	-
CWSNP5675	Ca-Kabuli-Chr6	49222290	[C/T]	-	Intergenic	-
CWSNP5676	Ca-Kabuli-Chr6	49222275	[A/C]	-	Intergenic	-
CWSNP5677	Ca-Kabuli-Chr6	49222268	[T/A]	-	Intergenic	-
CWSNP5678	Ca-Kabuli-Chr6	49222251	[G/A]	-	Intergenic	-
CWSNP5679	Ca-Kabuli-Chr6	49222235	[G/C]	-	Intergenic	-
CWSNP5680	Ca-Kabuli-Chr6	49377275	[G/A]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP5681	Ca-Kabuli-Chr6	49524179	[A/T]	-	DRR	-
CWSNP5682	Ca-Kabuli-Chr6	49565934	[C/T]	Ca13509	Non-Synonymous-CDS	Ribosomal proteinL37e
CWSNP5683	Ca-Kabuli-Chr6	49726734	[C/G]	-	Intergenic	-
CWSNP5684	Ca-Kabuli-Chr6	49726729	[G/A]	-	Intergenic	-
CWSNP5685	Ca-Kabuli-Chr6	49726711	[C/T]	-	Intergenic	-
CWSNP5686	Ca-Kabuli-Chr6	49726723	[G/A]	-	Intergenic	-
CWSNP5687	Ca-Kabuli-Chr6	49830299	[A/G]	Ca13490	Non-Synonymous-CDS	Heat shock protein Hsp70
CWSNP5688	Ca-Kabuli-Chr6	49846303	[T/G]	Ca13488	Synonymous-CDS	Heat shock protein Hsp70
CWSNP5689	Ca-Kabuli-Chr6	50152053	[C/T]	-	Intergenic	-
CWSNP5690	Ca-Kabuli-Chr6	50152124	[C/T]	-	Intergenic	-
CWSNP5691	Ca-Kabuli-Chr6	50477672	[A/C]	Ca13459	Synonymous-CDS	-
CWSNP5692	Ca-Kabuli-Chr6	50617932	[G/A]	Ca13450	Synonymous-CDS	-
CWSNP5693	Ca-Kabuli-Chr6	50723595	[T/C]	-	DRR	-
CWSNP5694	Ca-Kabuli-Chr6	51157939	[A/C]	Ca19183	Non-Synonymous-CDS	-
CWSNP5695	Ca-Kabuli-Chr6	51471573	[T/C]	Ca19165	Non-Synonymous-CDS	-
CWSNP5696	Ca-Kabuli-Chr6	52007211	[T/C]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP5697	Ca-Kabuli-Chr6	52007471	[C/T]	-	Intergenic	-
CWSNP5698	Ca-Kabuli-Chr6	52007464	[C/G]	-	Intergenic	-
CWSNP5699	Ca-Kabuli-Chr6	52007440	[C/T]	-	Intergenic	-
CWSNP5700	Ca-Kabuli-Chr6	52065393	[C/A]	-	Intergenic	-
CWSNP5701	Ca-Kabuli-Chr6	52065527	[T/A]	-	Intergenic	-
CWSNP5702	Ca-Kabuli-Chr6	52164571	[C/A]	Ca17518	Intron	ATPase,P-type,K/Mg/Cd/Cu/Zn/Na/Ca/Na/H-transporter
CWSNP5703	Ca-Kabuli-Chr6	52567474	[A/C]	Ca17540	Non-Synonymous-CDS	Transferase
CWSNP5704	Ca-Kabuli-Chr6	52858359	[A/G]	-	Intergenic	-
CWSNP5705	Ca-Kabuli-Chr6	52993231	[A/G]	-	Intergenic	-
CWSNP5706	Ca-Kabuli-Chr6	53097833	[G/C]	-	Intergenic	-
CWSNP5707	Ca-Kabuli-Chr6	53097803	[A/G]	-	Intergenic	-
CWSNP5708	Ca-Kabuli-Chr6	53124182	[G/T]	Ca22912	Non-Synonymous-CDS	3-Oxoacyl-[acyl-carrier-protein(ACP)]synthaseIIIC-terminal
CWSNP5709	Ca-Kabuli-Chr6	53348993	[C/A]	Ca18877	Intron	Sodium/sulphate symporter
CWSNP5710	Ca-Kabuli-Chr6	53349034	[G/A]	Ca18877	Intron	Sodium/sulphate symporter
CWSNP5711	Ca-Kabuli-Chr6	53461929	[C/A]	-	Intergenic	-
CWSNP5712	Ca-Kabuli-Chr6	53461883	[A/G]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP5713	Ca-Kabuli-Chr6	53541031	[G/A]	-	Intergenic	-
CWSNP5714	Ca-Kabuli-Chr6	53541094	[C/G]	-	Intergenic	-
CWSNP5715	Ca-Kabuli-Chr6	53541111	[T/G]	-	Intergenic	-
CWSNP5716	Ca-Kabuli-Chr6	53551878	[C/A]	-	URR	-
CWSNP5717	Ca-Kabuli-Chr6	53558430	[A/C]	-	Intergenic	-
CWSNP5718	Ca-Kabuli-Chr6	53566496	[G/A]	Ca18894	Non-Synonymous-CDS	Pathogenesis-related transcriptional factor/ERF, DNA-binding
CWSNP5719	Ca-Kabuli-Chr6	53625264	[A/C]	Ca18898	Synonymous-CDS	Leucine-rich repeat
CWSNP5720	Ca-Kabuli-Chr6	53683753	[T/C]	Ca18901	Intron	-
CWSNP5721	Ca-Kabuli-Chr6	53683891	[C/A]	Ca18901	Intron	-
CWSNP5722	Ca-Kabuli-Chr6	53683885	[C/T]	Ca18901	Intron	-
CWSNP5723	Ca-Kabuli-Chr6	53683876	[C/T]	Ca18901	Intron	-
CWSNP5724	Ca-Kabuli-Chr6	53692784	[G/A]	-	DRR	-
CWSNP5725	Ca-Kabuli-Chr6	53769160	[C/T]	-	DRR	-
CWSNP5726	Ca-Kabuli-Chr6	54151902	[T/G]	-	Intergenic	-
CWSNP5727	Ca-Kabuli-Chr6	54151966	[G/C]	-	Intergenic	-
CWSNP5728	Ca-Kabuli-Chr6	54151969	[T/G]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP5729	Ca-Kabuli-Chr6	54203356	[G/A]	Ca16276	Non-Synonymous-CDS	NmrA-like
CWSNP5730	Ca-Kabuli-Chr6	54203400	[C/T]	Ca16276	Synonymous-CDS	NmrA-like
CWSNP5731	Ca-Kabuli-Chr6	54229449	[G/T]	-	Intergenic	-
CWSNP5732	Ca-Kabuli-Chr6	54237764	[A/C]	-	Intergenic	-
CWSNP5733	Ca-Kabuli-Chr6	54250702	[C/T]	Ca16283	Non-Synonymous-CDS	Pumilio RNA-binding repeat
CWSNP5734	Ca-Kabuli-Chr6	54368267	[G/A]	-	Intergenic	-
CWSNP5735	Ca-Kabuli-Chr6	55024071	[C/T]	Ca21213	Non-Synonymous-CDS	-
CWSNP5736	Ca-Kabuli-Chr6	55024146	[C/T]	Ca21213	Non-Synonymous-CDS	-
CWSNP5737	Ca-Kabuli-Chr6	55024140	[G/A]	Ca21213	Non-Synonymous-CDS	-
CWSNP5738	Ca-Kabuli-Chr6	55024130	[T/A]	Ca21213	Non-Synonymous-CDS	-
CWSNP5739	Ca-Kabuli-Chr6	55024112	[C/G]	Ca21213	Non-Synonymous-CDS	-
CWSNP5740	Ca-Kabuli-Chr6	55024093	[G/C]	Ca21213	Non-Synonymous-CDS	-
CWSNP5741	Ca-Kabuli-Chr6	55024108	[C/T]	Ca21213	Synonymous-CDS	-
CWSNP5742	Ca-Kabuli-Chr6	55024159	[T/A]	Ca21213	Synonymous-CDS	-
CWSNP5743	Ca-Kabuli-Chr6	55024198	[T/G]	Ca21213	Synonymous-CDS	-
CWSNP5744	Ca-Kabuli-Chr6	55074979	[T/A]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP5745	Ca-Kabuli-Chr6	55083311	[T/A]	Ca21214	Intron	Oligopeptide transporter
CWSNP5746	Ca-Kabuli-Chr6	55083721	[T/A]	Ca21214	Synonymous-CDS	Oligopeptide transporter
CWSNP5747	Ca-Kabuli-Chr6	55332515	[G/A]	Ca21219	Synonymous-CDS	Homeobox
CWSNP5748	Ca-Kabuli-Chr6	55922843	[T/A]	Ca19023	Non-Synonymous-CDS	Protein of unknown functionwound-induced
CWSNP5749	Ca-Kabuli-Chr6	55942105	[A/G]	-	Intergenic	-
CWSNP5750	Ca-Kabuli-Chr6	55953320	[T/A]	Ca19026	Non-Synonymous-CDS	Protein of unknown functionwound-induced
CWSNP5751	Ca-Kabuli-Chr6	56137878	[T/C]	-	Intergenic	-
CWSNP5752	Ca-Kabuli-Chr6	56553930	[G/A]	Ca17393	Non-Synonymous-CDS	TetratricopeptideTPR-1
CWSNP5753	Ca-Kabuli-Chr6	56564249	[G/C]	-	URR	-
CWSNP5754	Ca-Kabuli-Chr6	56587094	[C/G]	-	Intergenic	-
CWSNP5755	Ca-Kabuli-Chr6	56593121	[T/G]	Ca17397	Synonymous-CDS	Helicase,C-terminal
CWSNP5756	Ca-Kabuli-Chr6	56624316	[A/T]	Ca17398	Intron	Proline dehydrogenase
CWSNP5757	Ca-Kabuli-Chr6	56624674	[T/C]	Ca17398	Intron	Proline dehydrogenase
CWSNP5758	Ca-Kabuli-Chr6	56624718	[C/A]	Ca17398	Intron	Proline dehydrogenase
CWSNP5759	Ca-Kabuli-Chr6	56694898	[T/C]	Ca17408	Non-Synonymous-CDS	ATPase,AAA+type,core
CWSNP5760	Ca-Kabuli-Chr6	56793077	[G/A]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP5761	Ca-Kabuli-Chr6	56793037	[A/T]	-	Intergenic	-
CWSNP5762	Ca-Kabuli-Chr6	56793021	[G/T]	-	Intergenic	-
CWSNP5763	Ca-Kabuli-Chr6	56793122	[C/T]	-	Intergenic	-
CWSNP5764	Ca-Kabuli-Chr6	56822084	[G/T]	Ca17420	Intron	Domain of unknown function DUF231,plant
CWSNP5765	Ca-Kabuli-Chr6	56822060	[G/A]	Ca17420	Intron	Domain of unknown function DUF231,plant
CWSNP5766	Ca-Kabuli-Chr6	56840030	[A/C]	-	Intergenic	-
CWSNP5767	Ca-Kabuli-Chr6	56840063	[T/A]	-	Intergenic	-
CWSNP5768	Ca-Kabuli-Chr6	56854753	[T/C]	Ca17422	Synonymous-CDS	-
CWSNP5769	Ca-Kabuli-Chr6	56950487	[G/T]	-	DRR	-
CWSNP5770	Ca-Kabuli-Chr6	56980313	[T/C]	Ca17429	Intron	GDP-fucose proteinO-fucosyltransferase
CWSNP5771	Ca-Kabuli-Chr6	56980286	[T/C]	Ca17429	Intron	GDP-fucose proteinO-fucosyltransferase
CWSNP5772	Ca-Kabuli-Chr6	56980321	[T/C]	Ca17429	Intron	GDP-fucose proteinO-fucosyltransferase
CWSNP5773	Ca-Kabuli-Chr6	57198837	[G/A]	Ca17442	Intron	-
CWSNP5774	Ca-Kabuli-Chr6	57272604	[A/G]	-	Intergenic	-
CWSNP5775	Ca-Kabuli-Chr6	57272607	[G/A]	-	Intergenic	-
CWSNP5776	Ca-Kabuli-Chr6	57272608	[C/A]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP5777	Ca-Kabuli-Chr6	57277440	[C/T]	-	Intergenic	-
CWSNP5778	Ca-Kabuli-Chr6	57382220	[G/A]	Ca13705	Non-Synonymous-CDS	Zinc finger,RING-type
CWSNP5779	Ca-Kabuli-Chr6	57436320	[T/G]	Ca13700	Non-Synonymous-CDS	Bromodomain
CWSNP5780	Ca-Kabuli-Chr6	57437904	[A/G]	Ca13700	Synonymous-CDS	Bromodomain
CWSNP5781	Ca-Kabuli-Chr6	57449892	[A/G]	Ca13699	Non-Synonymous-CDS	-
CWSNP5782	Ca-Kabuli-Chr6	57533087	[G/A]	-	DRR	-
CWSNP5783	Ca-Kabuli-Chr6	57579770	[G/T]	Ca13686	Synonymous-CDS	RNA recognition motif domain
CWSNP5784	Ca-Kabuli-Chr6	57579768	[C/T]	Ca13686	Synonymous-CDS	RNA recognition motif domain
CWSNP5785	Ca-Kabuli-Chr6	57603257	[T/A]	Ca13685	Intron	3-betahydroxy steroid dehydrogenase/isomerase
CWSNP5786	Ca-Kabuli-Chr6	57625134	[G/A]	Ca13683	Intron	Calreticulin/calnexin
CWSNP5787	Ca-Kabuli-Chr6	57625320	[G/A]	Ca13683	Synonymous-CDS	Calreticulin/calnexin
CWSNP5788	Ca-Kabuli-Chr6	57632486	[C/T]	Ca13682	Synonymous-CDS	Protein of unknown function DUF936,plant
CWSNP5789	Ca-Kabuli-Chr6	57634387	[G/T]	Ca13682	Non-Synonymous-CDS	Protein of unknown function DUF936,plant
CWSNP5790	Ca-Kabuli-Chr6	57634677	[G/A]	Ca13682	Synonymous-CDS	Protein of unknown function DUF936,plant
CWSNP5791	Ca-Kabuli-Chr6	57637091	[G/A]	-	URR	-
CWSNP5792	Ca-Kabuli-Chr6	57637083	[T/G]	-	URR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP5793	Ca-Kabuli-Chr6	57637075	[C/T]	-	URR	-
CWSNP5794	Ca-Kabuli-Chr6	57667515	[A/T]	-	DRR	-
CWSNP5795	Ca-Kabuli-Chr6	57704057	[C/T]	-	URR	-
CWSNP5796	Ca-Kabuli-Chr6	57704802	[T/C]	-	Intergenic	-
CWSNP5797	Ca-Kabuli-Chr6	57705011	[G/A]	-	Intergenic	-
CWSNP5798	Ca-Kabuli-Chr6	57707716	[C/T]	-	Intergenic	-
CWSNP5799	Ca-Kabuli-Chr6	57707724	[A/C]	-	Intergenic	-
CWSNP5800	Ca-Kabuli-Chr6	57707727	[T/G]	-	Intergenic	-
CWSNP5801	Ca-Kabuli-Chr6	57707848	[A/G]	-	DRR	-
CWSNP5802	Ca-Kabuli-Chr6	57707846	[G/A]	-	DRR	-
CWSNP5803	Ca-Kabuli-Chr6	57707912	[G/C]	-	DRR	-
CWSNP5804	Ca-Kabuli-Chr6	57708019	[A/G]	-	DRR	-
CWSNP5805	Ca-Kabuli-Chr6	57708130	[T/C]	-	DRR	-
CWSNP5806	Ca-Kabuli-Chr6	57708101	[T/G]	-	DRR	-
CWSNP5807	Ca-Kabuli-Chr6	57708198	[C/T]	-	DRR	-
CWSNP5808	Ca-Kabuli-Chr6	57710133	[C/G]	-	DRR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP5809	Ca-Kabuli-Chr6	57720446	[T/C]	Ca13671	Synonymous-CDS	Transcriptional factor B3
CWSNP5810	Ca-Kabuli-Chr6	57746989	[C/T]	Ca13666	Non-Synonymous-CDS	Transcriptional factor B3
CWSNP5811	Ca-Kabuli-Chr6	57747101	[C/T]	Ca13666	Synonymous-CDS	Transcriptional factor B3
CWSNP5812	Ca-Kabuli-Chr6	57748565	[A/G]	Ca13666	Synonymous-CDS	Transcriptional factor B3
CWSNP5813	Ca-Kabuli-Chr6	57748602	[A/T]	Ca13666	Non-Synonymous-CDS	Transcriptional factor B3
CWSNP5814	Ca-Kabuli-Chr6	57753076	[T/C]	-	Intergenic	-
CWSNP5815	Ca-Kabuli-Chr6	57756699	[G/A]	Ca13665	Intron	Phosphatidyl inositol 3-/4-kinase, catalytic
CWSNP5816	Ca-Kabuli-Chr6	57760176	[C/T]	Ca13665	Intron	Phosphatidyl inositol 3-/4-kinase, catalytic
CWSNP5817	Ca-Kabuli-Chr6	57760227	[C/T]	Ca13665	Synonymous-CDS	Phosphatidyl inositol 3-/4-kinase, catalytic
CWSNP5818	Ca-Kabuli-Chr6	57760360	[A/G]	Ca13665	Intron	Phosphatidyl inositol 3-/4-kinase, catalytic
CWSNP5819	Ca-Kabuli-Chr6	57761758	[G/A]	Ca13665	Non-Synonymous-CDS	Phosphatidyl inositol 3-/4-kinase, catalytic
CWSNP5820	Ca-Kabuli-Chr6	57766444	[C/T]	-	DRR	-
CWSNP5821	Ca-Kabuli-Chr6	57766570	[C/T]	-	DRR	-
CWSNP5822	Ca-Kabuli-Chr6	57766588	[G/A]	-	DRR	-
CWSNP5823	Ca-Kabuli-Chr6	57766598	[G/A]	-	DRR	-
CWSNP5824	Ca-Kabuli-Chr6	57801985	[A/C]	Ca13661	Intron	Proteasome assembly chaperone2

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP5825	Ca-Kabuli-Chr6	57831050	[G/T]	-	DRR	-
CWSNP5826	Ca-Kabuli-Chr6	57831049	[C/T]	-	DRR	-
CWSNP5827	Ca-Kabuli-Chr6	57831040	[T/C]	-	DRR	-
CWSNP5828	Ca-Kabuli-Chr6	57835093	[T/A]	-	Intergenic	-
CWSNP5829	Ca-Kabuli-Chr6	57835120	[G/A]	-	Intergenic	-
CWSNP5830	Ca-Kabuli-Chr6	57835917	[G/C]	-	DRR	-
CWSNP5831	Ca-Kabuli-Chr6	57835899	[C/T]	-	DRR	-
CWSNP5832	Ca-Kabuli-Chr6	57836024	[G/A]	-	DRR	-
CWSNP5833	Ca-Kabuli-Chr6	57836237	[A/G]	-	DRR	-
CWSNP5834	Ca-Kabuli-Chr6	57836284	[G/A]	-	DRR	-
CWSNP5835	Ca-Kabuli-Chr6	57836314	[T/A]	-	DRR	-
CWSNP5836	Ca-Kabuli-Chr6	57836316	[G/A]	-	DRR	-
CWSNP5837	Ca-Kabuli-Chr6	57870893	[C/A]	-	Intergenic	-
CWSNP5838	Ca-Kabuli-Chr6	57877446	[C/A]	-	URR	-
CWSNP5839	Ca-Kabuli-Chr6	57894377	[A/G]	-	Intergenic	-
CWSNP5840	Ca-Kabuli-Chr6	57894495	[C/G]	-	URR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP5841	Ca-Kabuli-Chr6	57894590	[G/C]	-	URR	-
CWSNP5842	Ca-Kabuli-Chr6	57894585	[T/G]	-	URR	-
CWSNP5843	Ca-Kabuli-Chr6	57943585	[A/T]	-	Intergenic	-
CWSNP5844	Ca-Kabuli-Chr6	57943626	[G/A]	-	Intergenic	-
CWSNP5845	Ca-Kabuli-Chr6	57943628	[A/C]	-	Intergenic	-
CWSNP5846	Ca-Kabuli-Chr6	57968924	[A/T]	Ca13640	Intron	WD40 repeat
CWSNP5847	Ca-Kabuli-Chr6	58036471	[C/T]	-	Intergenic	-
CWSNP5848	Ca-Kabuli-Chr6	58174702	[T/C]	Ca13623	Intron	Glycosidehydrolase, family17
CWSNP5849	Ca-Kabuli-Chr6	58187822	[T/G]	Ca13622	Intron	Adenylatecyclase-associatedCAP
CWSNP5850	Ca-Kabuli-Chr6	58187957	[A/G]	Ca13622	Synonymous-CDS	Adenylatecyclase-associatedCAP
CWSNP5851	Ca-Kabuli-Chr6	58224023	[G/T]	-	DRR	-
CWSNP5852	Ca-Kabuli-Chr6	58227006	[T/C]	-	DRR	-
CWSNP5853	Ca-Kabuli-Chr6	58237503	[A/T]	-	URR	-
CWSNP5854	Ca-Kabuli-Chr6	58243505	[G/A]	Ca15368	Synonymous-CDS	Mitochondrial transcription termination factor-related
CWSNP5855	Ca-Kabuli-Chr6	58326344	[A/T]	-	Intergenic	-
CWSNP5856	Ca-Kabuli-Chr6	58380367	[T/C]	Ca15376	Synonymous-CDS	Ribosomal RNA methyltransferase RrmJ/FtsJ

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP5857	Ca-Kabuli-Chr6	58380394	[G/A]	Ca15376	Synonymous-CDS	Ribosomal RNA methyltransferase RrmJ/FtsJ
CWSNP5858	Ca-Kabuli-Chr6	58380563	[G/A]	Ca15376	Non-Synonymous-CDS	Ribosomal RNA methyltransferase RrmJ/FtsJ
CWSNP5859	Ca-Kabuli-Chr6	58434217	[C/G]	Ca15379	Non-Synonymous-CDS	-
CWSNP5860	Ca-Kabuli-Chr6	58452843	[A/C]	-	Intergenic	-
CWSNP5861	Ca-Kabuli-Chr6	58569576	[G/T]	Ca15398	Non-Synonymous-CDS	Pre-mRNA processing ribonucleo protein,snoRNA-binding domain
CWSNP5862	Ca-Kabuli-Chr6	58569569	[T/C]	Ca15398	Synonymous-CDS	Pre-mRNA processing ribonucleo protein,snoRNA-binding domain
CWSNP5863	Ca-Kabuli-Chr6	58571660	[T/C]	Ca15398	Synonymous-CDS	Pre-mRNA processing ribonucleo protein,snoRNA-binding domain
CWSNP5864	Ca-Kabuli-Chr6	58596821	[T/G]	-	DRR	-
CWSNP5865	Ca-Kabuli-Chr6	58596878	[C/A]	-	DRR	-
CWSNP5866	Ca-Kabuli-Chr6	58623095	[A/G]	Ca15407	Intron	ATPase,V0/A0complex,116 kDa subunit
CWSNP5867	Ca-Kabuli-Chr6	58623096	[A/T]	Ca15407	Intron	ATPase,V0/A0complex,116 kDa subunit
CWSNP5868	Ca-Kabuli-Chr6	58624183	[G/A]	Ca15407	Intron	ATPase,V0/A0complex,116 kDa subunit
CWSNP5869	Ca-Kabuli-Chr6	58624233	[C/A]	Ca15407	Intron	ATPase,V0/A0complex,116 kDa subunit
CWSNP5870	Ca-Kabuli-Chr6	58624299	[A/G]	Ca15407	Intron	ATPase,V0/A0complex,116 kDa subunit
CWSNP5871	Ca-Kabuli-Chr6	58650318	[A/C]	Ca15410	Synonymous-CDS	WD40 repeat
CWSNP5872	Ca-Kabuli-Chr6	58650459	[A/T]	Ca15410	Non-Synonymous-CDS	WD40 repeat

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP5873	Ca-Kabuli-Chr6	58650491	[A/G]	Ca15410	Non-Synonymous-CDS	WD40 repeat
CWSNP5874	Ca-Kabuli-Chr6	58652881	[A/G]	Ca15410	Synonymous-CDS	WD40 repeat
CWSNP5875	Ca-Kabuli-Chr6	58672317	[A/G]	-	DRR	-
CWSNP5876	Ca-Kabuli-Chr6	58675749	[T/C]	Ca15413	Synonymous-CDS	Kinesin , motor domain
CWSNP5877	Ca-Kabuli-Chr6	58676507	[A/G]	Ca15413	Synonymous-CDS	Kinesin , motor domain
CWSNP5878	Ca-Kabuli-Chr6	58676517	[A/C]	Ca15413	Non-Synonymous-CDS	Kinesin , motor domain
CWSNP5879	Ca-Kabuli-Chr6	58682397	[G/A]	Ca15413	Intron	Kinesin , motor domain
CWSNP5880	Ca-Kabuli-Chr6	58732424	[G/T]	Ca15417	Intron	Multiantimicrobial extrusion protein
CWSNP5881	Ca-Kabuli-Chr6	58732423	[C/T]	Ca15417	Intron	Multiantimicrobial extrusion protein
CWSNP5882	Ca-Kabuli-Chr6	58732451	[T/C]	Ca15417	Synonymous-CDS	Multiantimicrobial extrusion protein
CWSNP5883	Ca-Kabuli-Chr6	58732475	[G/A]	Ca15417	Synonymous-CDS	Multiantimicrobial extrusion protein
CWSNP5884	Ca-Kabuli-Chr6	58745356	[A/G]	Ca15419	Synonymous-CDS	Multiantimicrobial extrusion protein
CWSNP5885	Ca-Kabuli-Chr6	58745473	[A/G]	Ca15419	Synonymous-CDS	Multiantimicrobial extrusion protein
CWSNP5886	Ca-Kabuli-Chr6	58745426	[T/C]	Ca15419	Intron	Multiantimicrobial extrusion protein
CWSNP5887	Ca-Kabuli-Chr6	58745583	[C/T]	Ca15419	Non-Synonymous-CDS	Multiantimicrobial extrusion protein
CWSNP5888	Ca-Kabuli-Chr6	58761879	[G/A]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP5889	Ca-Kabuli-Chr6	58779344	[A/G]	Ca15421	Intron	Srchomology-3domain
CWSNP5890	Ca-Kabuli-Chr6	58779389	[T/G]	Ca15421	Synonymous-CDS	Srchomology-3domain
CWSNP5891	Ca-Kabuli-Chr6	58820632	[A/C]	-	Intergenic	-
CWSNP5892	Ca-Kabuli-Chr6	58844717	[T/C]	-	Intergenic	-
CWSNP5893	Ca-Kabuli-Chr6	58844776	[C/G]	-	Intergenic	-
CWSNP5894	Ca-Kabuli-Chr6	58878604	[C/G]	Ca15428	Synonymous-CDS	Ornithine/DAP/Argdecarboxylase
CWSNP5895	Ca-Kabuli-Chr6	58879570	[T/C]	Ca15428	Synonymous-CDS	Ornithine/DAP/Argdecarboxylase
CWSNP5896	Ca-Kabuli-Chr6	58903346	[G/A]	Ca15431	Intron	Aldo/ketoreductase
CWSNP5897	Ca-Kabuli-Chr6	58903381	[G/A]	Ca15431	Intron	Aldo/ketoreductase
CWSNP5898	Ca-Kabuli-Chr6	58903395	[A/G]	Ca15431	Intron	Aldo/ketoreductase
CWSNP5899	Ca-Kabuli-Chr6	58903416	[T/G]	Ca15431	Intron	Aldo/ketoreductase
CWSNP5900	Ca-Kabuli-Chr6	58903497	[G/C]	Ca15431	Intron	Aldo/ketoreductase
CWSNP5901	Ca-Kabuli-Chr6	58903538	[G/A]	Ca15431	Intron	Aldo/ketoreductase
CWSNP5902	Ca-Kabuli-Chr6	58908024	[G/A]	Ca15431	Synonymous-CDS	Aldo/ketoreductase
CWSNP5903	Ca-Kabuli-Chr6	58908069	[G/A]	Ca15431	Synonymous-CDS	Aldo/ketoreductase
CWSNP5904	Ca-Kabuli-Chr6	58951079	[T/C]	Ca18874	Synonymous-CDS	Clathrin/coatomer adaptor,adaptin-like,N-terminal

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP5905	Ca-Kabuli-Chr6	58953219	[A/G]	Ca18874	Intron	Clathrin/coatome adaptor, adaptin-like, N-terminal
CWSNP5906	Ca-Kabuli-Chr6	59003792	[A/C]	Ca18871	Intron	RNA recognition motif domain
CWSNP5907	Ca-Kabuli-Chr6	59064798	[G/T]	-	Intergenic	-
CWSNP5908	Ca-Kabuli-Chr6	59064815	[C/T]	-	Intergenic	-
CWSNP5909	Ca-Kabuli-Chr6	59081169	[C/T]	Ca18866	Synonymous-CDS	Glycosyltransferase, family2
CWSNP5910	Ca-Kabuli-Chr6	59107027	[A/T]	Ca18863	Non-Synonymous-CDS	RNA-binding, CRM domain
CWSNP5911	Ca-Kabuli-Chr6	59107007	[G/T]	Ca18863	Non-Synonymous-CDS	RNA-binding, CRM domain
CWSNP5912	Ca-Kabuli-Chr6	59135944	[A/C]	Ca18861	Synonymous-CDS	Protein kinase, catalytic domain
CWSNP5913	Ca-Kabuli-Chr6	59194015	[C/G]	Ca18855	Synonymous-CDS	-
CWSNP5914	Ca-Kabuli-Chr6	59193994	[G/T]	Ca18855	Synonymous-CDS	-
CWSNP5915	Ca-Kabuli-Chr6	59194081	[T/A]	Ca18855	Synonymous-CDS	-
CWSNP5916	Ca-Kabuli-Chr6	59219099	[T/C]	Ca18853	Synonymous-CDS	Ergosterolbio synthesis ERG4/ERG24
CWSNP5917	Ca-Kabuli-Chr6	59222848	[C/T]	-	DRR	-
CWSNP5918	Ca-Kabuli-Chr6	59296368	[C/T]	Ca18847	Non-Synonymous-CDS	YTH domain
CWSNP5919	Ca-Kabuli-Chr6	59407761	[G/A]	-	URR	-
CWSNP5920	Ca-Kabuli-Chr7	16881	[A/G]	Ca20246	Non-Synonymous-CDS	RNA helicase, ATP-dependent, DEAD-box, conserved site

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP5921	Ca-Kabuli-Chr7	419301	[C/T]	-	Intergenic	-
CWSNP5922	Ca-Kabuli-Chr7	419316	[A/G]	-	Intergenic	-
CWSNP5923	Ca-Kabuli-Chr7	419334	[A/C]	-	Intergenic	-
CWSNP5924	Ca-Kabuli-Chr7	419385	[T/G]	-	Intergenic	-
CWSNP5925	Ca-Kabuli-Chr7	419628	[A/C]	-	Intergenic	-
CWSNP5926	Ca-Kabuli-Chr7	528521	[G/A]	-	Intergenic	-
CWSNP5927	Ca-Kabuli-Chr7	601563	[T/A]	-	Intergenic	-
CWSNP5928	Ca-Kabuli-Chr7	601551	[T/C]	-	Intergenic	-
CWSNP5929	Ca-Kabuli-Chr7	601545	[C/T]	-	Intergenic	-
CWSNP5930	Ca-Kabuli-Chr7	601538	[C/A]	-	Intergenic	-
CWSNP5931	Ca-Kabuli-Chr7	601521	[G/A]	-	Intergenic	-
CWSNP5932	Ca-Kabuli-Chr7	601516	[G/A]	-	Intergenic	-
CWSNP5933	Ca-Kabuli-Chr7	601513	[C/G]	-	Intergenic	-
CWSNP5934	Ca-Kabuli-Chr7	601502	[G/T]	-	Intergenic	-
CWSNP5935	Ca-Kabuli-Chr7	601496	[C/T]	-	Intergenic	-
CWSNP5936	Ca-Kabuli-Chr7	601586	[C/T]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP5937	Ca-Kabuli-Chr7	601601	[C/T]	-	Intergenic	-
CWSNP5938	Ca-Kabuli-Chr7	601612	[A/G]	-	Intergenic	-
CWSNP5939	Ca-Kabuli-Chr7	601643	[G/T]	-	Intergenic	-
CWSNP5940	Ca-Kabuli-Chr7	601622	[G/C]	-	Intergenic	-
CWSNP5941	Ca-Kabuli-Chr7	601657	[C/T]	-	Intergenic	-
CWSNP5942	Ca-Kabuli-Chr7	601719	[G/T]	-	Intergenic	-
CWSNP5943	Ca-Kabuli-Chr7	601718	[G/C]	-	Intergenic	-
CWSNP5944	Ca-Kabuli-Chr7	601714	[A/T]	-	Intergenic	-
CWSNP5945	Ca-Kabuli-Chr7	601709	[A/C]	-	Intergenic	-
CWSNP5946	Ca-Kabuli-Chr7	601647	[C/T]	-	Intergenic	-
CWSNP5947	Ca-Kabuli-Chr7	610737	[C/A]	Ca24417	Non-Synonymous-CDS	Transcription factor GRAS
CWSNP5948	Ca-Kabuli-Chr7	610723	[G/T]	Ca24417	Non-Synonymous-CDS	Transcription factor GRAS
CWSNP5949	Ca-Kabuli-Chr7	674791	[A/T]	Ca03417	Intron	HECT
CWSNP5950	Ca-Kabuli-Chr7	676785	[G/T]	-	Intergenic	-
CWSNP5951	Ca-Kabuli-Chr7	676786	[G/A]	-	Intergenic	-
CWSNP5952	Ca-Kabuli-Chr7	676790	[T/C]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP5953	Ca-Kabuli-Chr7	767708	[G/A]	Ca03402	Non-Synonymous-CDS	EPS15 homology (EH)
CWSNP5954	Ca-Kabuli-Chr7	781409	[A/G]	-	DRR	-
CWSNP5955	Ca-Kabuli-Chr7	807110	[T/C]	Ca03397	Intron	Phosphofructokinase domain
CWSNP5956	Ca-Kabuli-Chr7	815526	[C/A]	Ca03396	Non-Synonymous-CDS	-
CWSNP5957	Ca-Kabuli-Chr7	838581	[C/A]	-	URR	-
CWSNP5958	Ca-Kabuli-Chr7	838651	[A/C]	-	URR	-
CWSNP5959	Ca-Kabuli-Chr7	841988	[T/C]	Ca03393	Intron	Domain of unknown function DUF221
CWSNP5960	Ca-Kabuli-Chr7	975236	[T/A]	Ca03381	Intron	Multi copper oxidase, type1
CWSNP5961	Ca-Kabuli-Chr7	1096379	[C/T]	Ca03366	Synonymous-CDS	IQ motif, EF-hand binding site
CWSNP5962	Ca-Kabuli-Chr7	1153267	[A/C]	-	URR	-
CWSNP5963	Ca-Kabuli-Chr7	1293601	[C/G]	Ca03339	Synonymous-CDS	Protein kinase, catalytic domain
CWSNP5964	Ca-Kabuli-Chr7	1350605	[C/T]	Ca03334	Non-Synonymous-CDS	Peptidase C19,ubiquitin carboxyl-terminalhydrolase 2
CWSNP5965	Ca-Kabuli-Chr7	1414206	[C/A]	-	Intergenic	-
CWSNP5966	Ca-Kabuli-Chr7	1511252	[C/T]	Ca03315	Intron	Pentatrigo peptide repeat
CWSNP5967	Ca-Kabuli-Chr7	1585622	[T/C]	-	Intergenic	-
CWSNP5968	Ca-Kabuli-Chr7	1704780	[T/G]	-	URR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP5969	Ca-Kabuli-Chr7	1705197	[A/C]	Ca03296	Non-Synonymous-CDS	Cytochromecoxidase,subunitVIb
CWSNP5970	Ca-Kabuli-Chr7	1707283	[G/T]	Ca03296	Non-Synonymous-CDS	Cytochromecoxidase,subunitVIb
CWSNP5971	Ca-Kabuli-Chr7	2103626	[C/T]	Ca03262	Intron	Calmodulin binding protein-like
CWSNP5972	Ca-Kabuli-Chr7	2609831	[C/A]	-	DRR	-
CWSNP5973	Ca-Kabuli-Chr7	2684213	[A/G]	Ca03210	Intron	LisHdimerisationmotif
CWSNP5974	Ca-Kabuli-Chr7	2734680	[A/G]	Ca03205	Intron	Protein kinase, catalytic domain
CWSNP5975	Ca-Kabuli-Chr7	2745665	[A/C]	-	Intergenic	-
CWSNP5976	Ca-Kabuli-Chr7	2745656	[A/C]	-	Intergenic	-
CWSNP5977	Ca-Kabuli-Chr7	2757255	[G/C]	Ca03202	Non-Synonymous-CDS	Transcription factor jumonji/aspartyl beta-hydroxylase
CWSNP5978	Ca-Kabuli-Chr7	2757253	[T/G]	Ca03202	Non-Synonymous-CDS	Transcription factor jumonji/aspartyl beta-hydroxylase
CWSNP5979	Ca-Kabuli-Chr7	2762396	[G/A]	-	Intergenic	-
CWSNP5980	Ca-Kabuli-Chr7	2832369	[C/T]	Ca03193	Synonymous-CDS	Zinc finger,GATA-type
CWSNP5981	Ca-Kabuli-Chr7	2857630	[T/G]	Ca03190	Intron	Protein kinase, catalytic domain
CWSNP5982	Ca-Kabuli-Chr7	2915375	[C/G]	-	Intergenic	-
CWSNP5983	Ca-Kabuli-Chr7	3023154	[T/C]	Ca03170	Intron	-
CWSNP5984	Ca-Kabuli-Chr7	3070531	[A/C]	-	DRR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP5985	Ca-Kabuli-Chr7	3094087	[A/G]	Ca03163	Synonymous-CDS	IQ motif, EF-hand binding site
CWSNP5986	Ca-Kabuli-Chr7	3109250	[T/C]	-	Intergenic	-
CWSNP5987	Ca-Kabuli-Chr7	3109352	[T/C]	-	Intergenic	-
CWSNP5988	Ca-Kabuli-Chr7	3130070	[A/G]	Ca03158	Non-Synonymous-CDS	PhotosystemII PsbX
CWSNP5989	Ca-Kabuli-Chr7	3130069	[A/G]	Ca03158	Non-Synonymous-CDS	PhotosystemII PsbX
CWSNP5990	Ca-Kabuli-Chr7	3143409	[C/T]	-	URR	-
CWSNP5991	Ca-Kabuli-Chr7	3186341	[C/T]	-	URR	-
CWSNP5992	Ca-Kabuli-Chr7	3186262	[T/G]	-	URR	-
CWSNP5993	Ca-Kabuli-Chr7	3315157	[A/G]	-	URR	-
CWSNP5994	Ca-Kabuli-Chr7	3356399	[G/A]	Ca03128	Intron	AUX/IAA protein
CWSNP5995	Ca-Kabuli-Chr7	3357452	[G/A]	Ca03128	Non-Synonymous-CDS	AUX/IAA protein
CWSNP5996	Ca-Kabuli-Chr7	3504900	[G/A]	-	Intergenic	-
CWSNP5997	Ca-Kabuli-Chr7	3505012	[A/C]	-	Intergenic	-
CWSNP5998	Ca-Kabuli-Chr7	3518048	[G/A]	Ca03116	Synonymous-CDS	Synaptojanin,N-terminal
CWSNP5999	Ca-Kabuli-Chr7	3519510	[A/G]	Ca03116	Intron	Synaptojanin,N-terminal
CWSNP6000	Ca-Kabuli-Chr7	3519701	[A/C]	Ca03116	Intron	Synaptojanin,N-terminal

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP6001	Ca-Kabuli-Chr7	3521150	[A/G]	Ca03116	Intron	Synaptojanin,N-terminal
CWSNP6002	Ca-Kabuli-Chr7	3521257	[G/A]	Ca03116	Intron	Synaptojanin,N-terminal
CWSNP6003	Ca-Kabuli-Chr7	3521192	[C/A]	Ca03116	Intron	Synaptojanin,N-terminal
CWSNP6004	Ca-Kabuli-Chr7	3536194	[C/T]	-	URR	-
CWSNP6005	Ca-Kabuli-Chr7	3536233	[T/C]	-	URR	-
CWSNP6006	Ca-Kabuli-Chr7	3543765	[A/G]	-	URR	-
CWSNP6007	Ca-Kabuli-Chr7	3543768	[T/C]	-	URR	-
CWSNP6008	Ca-Kabuli-Chr7	3557570	[C/T]	Ca03113	Intron	Zinc finger,FYVE-type
CWSNP6009	Ca-Kabuli-Chr7	3560182	[G/A]	Ca03113	Non-Synonymous-CDS	Zinc finger,FYVE-type
CWSNP6010	Ca-Kabuli-Chr7	3572963	[T/C]	Ca03112	Intron	Sec34-like protein
CWSNP6011	Ca-Kabuli-Chr7	3581123	[G/A]	Ca03112	Intron	Sec34-like protein
CWSNP6012	Ca-Kabuli-Chr7	3600826	[C/T]	-	DRR	-
CWSNP6013	Ca-Kabuli-Chr7	3600833	[T/G]	-	DRR	-
CWSNP6014	Ca-Kabuli-Chr7	3600866	[T/C]	-	DRR	-
CWSNP6015	Ca-Kabuli-Chr7	3600867	[C/T]	-	DRR	-
CWSNP6016	Ca-Kabuli-Chr7	3600987	[A/C]	-	DRR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP6017	Ca-Kabuli-Chr7	3628086	[G/A]	Ca03106	Intron	Saccharopine dehydrogenase/Homospermidine synthase
CWSNP6018	Ca-Kabuli-Chr7	3635307	[G/A]	Ca03106	Intron	Saccharopine dehydrogenase/Homospermidine synthase
CWSNP6019	Ca-Kabuli-Chr7	3635309	[C/T]	Ca03106	Intron	Saccharopine dehydrogenase/Homospermidine synthase
CWSNP6020	Ca-Kabuli-Chr7	3635318	[T/A]	Ca03106	Intron	Saccharopine dehydrogenase/Homospermidine synthase
CWSNP6021	Ca-Kabuli-Chr7	3635325	[T/C]	Ca03106	Intron	Saccharopine dehydrogenase/Homospermidine synthase
CWSNP6022	Ca-Kabuli-Chr7	3635369	[G/T]	Ca03106	Intron	Saccharopine dehydrogenase/Homospermidine synthase
CWSNP6023	Ca-Kabuli-Chr7	3651051	[T/C]	Ca03103	Intron	SEC7-like
CWSNP6024	Ca-Kabuli-Chr7	3665651	[G/C]	Ca03103	Synonymous-CDS	SEC7-like
CWSNP6025	Ca-Kabuli-Chr7	3672192	[T/C]	Ca03102	Intron	Zinc finger,FYVE-type
CWSNP6026	Ca-Kabuli-Chr7	3672236	[G/A]	Ca03102	Intron	Zinc finger,FYVE-type
CWSNP6027	Ca-Kabuli-Chr7	3796826	[A/G]	Ca03085	Intron	SNF2-related
CWSNP6028	Ca-Kabuli-Chr7	3802188	[T/A]	-	URR	-
CWSNP6029	Ca-Kabuli-Chr7	3817733	[T/G]	Ca03082	Non-Synonymous-CDS	ABC transporter, transmembrane domain
CWSNP6030	Ca-Kabuli-Chr7	3817740	[G/T]	Ca03082	Non-Synonymous-CDS	ABC transporter, transmembrane domain
CWSNP6031	Ca-Kabuli-Chr7	3916849	[A/C]	-	URR	-
CWSNP6032	Ca-Kabuli-Chr7	4017780	[C/T]	Ca03061	Intron	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP6033	Ca-Kabuli-Chr7	4017851	[T/C]	Ca03061	Intron	-
CWSNP6034	Ca-Kabuli-Chr7	4095293	[A/G]	Ca03057	Non-Synonymous-CDS	Galectin,carbohydraterecognitiondomain
CWSNP6035	Ca-Kabuli-Chr7	4194809	[T/A]	-	Intergenic	-
CWSNP6036	Ca-Kabuli-Chr7	4194890	[C/A]	-	Intergenic	-
CWSNP6037	Ca-Kabuli-Chr7	4194891	[C/G]	-	Intergenic	-
CWSNP6038	Ca-Kabuli-Chr7	4198812	[A/C]	-	Intergenic	-
CWSNP6039	Ca-Kabuli-Chr7	4209425	[C/T]	-	URR	-
CWSNP6040	Ca-Kabuli-Chr7	4209465	[A/C]	-	URR	-
CWSNP6041	Ca-Kabuli-Chr7	4300650	[T/C]	-	Intergenic	-
CWSNP6042	Ca-Kabuli-Chr7	4300645	[C/T]	-	Intergenic	-
CWSNP6043	Ca-Kabuli-Chr7	4300592	[G/A]	-	Intergenic	-
CWSNP6044	Ca-Kabuli-Chr7	4300584	[C/T]	-	Intergenic	-
CWSNP6045	Ca-Kabuli-Chr7	4305424	[G/T]	-	URR	-
CWSNP6046	Ca-Kabuli-Chr7	4431138	[A/G]	Ca03015	Non-Synonymous-CDS	-
CWSNP6047	Ca-Kabuli-Chr7	4461990	[A/C]	-	Intergenic	-
CWSNP6048	Ca-Kabuli-Chr7	4552790	[T/C]	-	DRR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP6049	Ca-Kabuli-Chr7	4573236	[G/A]	-	URR	-
CWSNP6050	Ca-Kabuli-Chr7	4625723	[C/T]	Ca02989	Synonymous-CDS	Signal transduction response regulator,receiver domain
CWSNP6051	Ca-Kabuli-Chr7	4652083	[G/A]	Ca02988	Intron	Protein of unknown function DUF789
CWSNP6052	Ca-Kabuli-Chr7	4749212	[T/G]	-	DRR	-
CWSNP6053	Ca-Kabuli-Chr7	4834177	[G/T]	-	Intergenic	-
CWSNP6054	Ca-Kabuli-Chr7	4981846	[T/C]	-	Intergenic	-
CWSNP6055	Ca-Kabuli-Chr7	5122536	[T/G]	-	DRR	-
CWSNP6056	Ca-Kabuli-Chr7	5383564	[G/C]	-	DRR	-
CWSNP6057	Ca-Kabuli-Chr7	5383566	[A/T]	-	DRR	-
CWSNP6058	Ca-Kabuli-Chr7	5383671	[G/T]	-	DRR	-
CWSNP6059	Ca-Kabuli-Chr7	5383695	[T/G]	-	DRR	-
CWSNP6060	Ca-Kabuli-Chr7	5383767	[G/A]	-	DRR	-
CWSNP6061	Ca-Kabuli-Chr7	5384447	[G/C]	-	Intergenic	-
CWSNP6062	Ca-Kabuli-Chr7	5406524	[T/G]	-	URR	-
CWSNP6063	Ca-Kabuli-Chr7	5464941	[G/A]	-	Intergenic	-
CWSNP6064	Ca-Kabuli-Chr7	5464942	[A/G]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP6065	Ca-Kabuli-Chr7	5467744	[G/C]	-	DRR	-
CWSNP6066	Ca-Kabuli-Chr7	5508162	[A/C]	Ca06816	Synonymous-CDS	SNF2-related
CWSNP6067	Ca-Kabuli-Chr7	5520720	[T/G]	Ca06814	Non-Synonymous-CDS	Heat shock protein DnaJ,N-terminal
CWSNP6068	Ca-Kabuli-Chr7	5520934	[T/C]	Ca06814	Non-Synonymous-CDS	Heat shock protein DnaJ,N-terminal
CWSNP6069	Ca-Kabuli-Chr7	5521596	[T/C]	Ca06814	Non-Synonymous-CDS	Heat shock protein DnaJ,N-terminal
CWSNP6070	Ca-Kabuli-Chr7	5521659	[G/T]	Ca06814	Non-Synonymous-CDS	Heat shock protein DnaJ,N-terminal
CWSNP6071	Ca-Kabuli-Chr7	5529577	[T/G]	-	DRR	-
CWSNP6072	Ca-Kabuli-Chr7	5529729	[A/G]	-	DRR	-
CWSNP6073	Ca-Kabuli-Chr7	5529888	[A/G]	-	DRR	-
CWSNP6074	Ca-Kabuli-Chr7	5529844	[C/A]	-	DRR	-
CWSNP6075	Ca-Kabuli-Chr7	5537851	[G/C]	Ca06811	Intron	ProtamineP1
CWSNP6076	Ca-Kabuli-Chr7	5537880	[G/T]	Ca06811	Intron	ProtamineP2
CWSNP6077	Ca-Kabuli-Chr7	5561607	[G/T]	Ca06808	Intron	Inosine/uridine-preferring nucleosidehydrolase domain
CWSNP6078	Ca-Kabuli-Chr7	5568114	[C/A]	-	Intergenic	-
CWSNP6079	Ca-Kabuli-Chr7	5577467	[G/T]	Ca06805	Synonymous-CDS	-
CWSNP6080	Ca-Kabuli-Chr7	5577439	[A/G]	Ca06805	Non-Synonymous-CDS	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP6081	Ca-Kabuli-Chr7	5581968	[G/C]	-	DRR	-
CWSNP6082	Ca-Kabuli-Chr7	5658445	[G/T]	-	DRR	-
CWSNP6083	Ca-Kabuli-Chr7	5671902	[G/T]	-	Intergenic	-
CWSNP6084	Ca-Kabuli-Chr7	5672156	[T/C]	-	Intergenic	-
CWSNP6085	Ca-Kabuli-Chr7	5683412	[T/A]	Ca06789	Intron	RNA polymerase I specific transcription initiation factor RRN3
CWSNP6086	Ca-Kabuli-Chr7	5713977	[T/C]	-	Intergenic	-
CWSNP6087	Ca-Kabuli-Chr7	5737305	[G/A]	Ca06783	Synonymous-CDS	Protein kinase, catalytic domain
CWSNP6088	Ca-Kabuli-Chr7	5756269	[C/T]	-	Intergenic	-
CWSNP6089	Ca-Kabuli-Chr7	5756832	[A/C]	-	Intergenic	-
CWSNP6090	Ca-Kabuli-Chr7	5774218	[T/A]	Ca06781	Intron	Dienelactonehydrolase
CWSNP6091	Ca-Kabuli-Chr7	5774219	[T/A]	Ca06781	Intron	Dienelactonehydrolase
CWSNP6092	Ca-Kabuli-Chr7	5774220	[A/T]	Ca06781	Intron	Dienelactonehydrolase
CWSNP6093	Ca-Kabuli-Chr7	5774221	[A/T]	Ca06781	Intron	Dienelactonehydrolase
CWSNP6094	Ca-Kabuli-Chr7	5774230	[G/A]	Ca06781	Intron	Dienelactonehydrolase
CWSNP6095	Ca-Kabuli-Chr7	5774257	[C/T]	Ca06781	Intron	Dienelactonehydrolase
CWSNP6096	Ca-Kabuli-Chr7	5774310	[A/G]	Ca06781	Intron	Dienelactonehydrolase

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP6097	Ca-Kabuli-Chr7	5811097	[G/A]	-	Intergenic	-
CWSNP6098	Ca-Kabuli-Chr7	5836421	[A/T]	-	URR	-
CWSNP6099	Ca-Kabuli-Chr7	5846477	[A/G]	-	DRR	-
CWSNP6100	Ca-Kabuli-Chr7	5849936	[C/T]	-	Intergenic	-
CWSNP6101	Ca-Kabuli-Chr7	5849904	[C/A]	-	Intergenic	-
CWSNP6102	Ca-Kabuli-Chr7	5850058	[T/C]	-	Intergenic	-
CWSNP6103	Ca-Kabuli-Chr7	5854598	[C/T]	-	DRR	-
CWSNP6104	Ca-Kabuli-Chr7	5929009	[C/G]	Ca06764	Intron	ATPase ,P-type, H+transporting proton pump
CWSNP6105	Ca-Kabuli-Chr7	5946113	[G/A]	-	DRR	-
CWSNP6106	Ca-Kabuli-Chr7	5950352	[T/A]	Ca06762	Intron	DNA-dependent ATPase MCM
CWSNP6107	Ca-Kabuli-Chr7	5950492	[T/C]	Ca06762	Synonymous-CDS	DNA-dependent ATPase MCM
CWSNP6108	Ca-Kabuli-Chr7	5957696	[T/C]	Ca06761	Intron	Ribonucleaselll
CWSNP6109	Ca-Kabuli-Chr7	5963611	[C/G]	Ca06761	Intron	Ribonucleaselll
CWSNP6110	Ca-Kabuli-Chr7	5963609	[C/A]	Ca06761	Intron	Ribonucleaselll
CWSNP6111	Ca-Kabuli-Chr7	6012561	[A/C]	-	DRR	-
CWSNP6112	Ca-Kabuli-Chr7	6012611	[A/C]	-	DRR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP6113	Ca-Kabuli-Chr7	6029990	[C/G]	-	URR	-
CWSNP6114	Ca-Kabuli-Chr7	6066322	[G/A]	-	DRR	-
CWSNP6115	Ca-Kabuli-Chr7	6074408	[T/A]	Ca06752	Synonymous-CDS	Phox/Bem1p
CWSNP6116	Ca-Kabuli-Chr7	6075124	[T/G]	Ca06752	Non-Synonymous-CDS	Phox/Bem1p
CWSNP6117	Ca-Kabuli-Chr7	6075218	[C/G]	Ca06752	Non-Synonymous-CDS	Phox/Bem1p
CWSNP6118	Ca-Kabuli-Chr7	6096238	[C/A]	-	DRR	-
CWSNP6119	Ca-Kabuli-Chr7	6110019	[T/C]	-	DRR	-
CWSNP6120	Ca-Kabuli-Chr7	6132021	[G/A]	Ca06744	Intron	Ubiquitin
CWSNP6121	Ca-Kabuli-Chr7	6232777	[T/C]	-	Intergenic	-
CWSNP6122	Ca-Kabuli-Chr7	6299248	[A/G]	-	URR	-
CWSNP6123	Ca-Kabuli-Chr7	6299249	[C/G]	-	URR	-
CWSNP6124	Ca-Kabuli-Chr7	6393366	[G/A]	Ca06712	Intron	Metallo-dependent phosphatase
CWSNP6125	Ca-Kabuli-Chr7	6467903	[C/T]	Ca06705	Synonymous-CDS	Mak10 subunit,NatCN(alpha)-terminal acetyltransferase
CWSNP6126	Ca-Kabuli-Chr7	6540624	[A/G]	Ca06700	Intron	Rap1-interactingfactor1N-terminal
CWSNP6127	Ca-Kabuli-Chr7	6540602	[G/A]	Ca06700	Intron	Rap1-interactingfactor1N-terminal
CWSNP6128	Ca-Kabuli-Chr7	6540601	[G/C]	Ca06700	Intron	Rap1-interactingfactor1N-terminal

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP6129	Ca-Kabuli-Chr7	6566322	[T/C]	-	Intergenic	-
CWSNP6130	Ca-Kabuli-Chr7	6682454	[A/G]	-	Intergenic	-
CWSNP6131	Ca-Kabuli-Chr7	6682453	[G/T]	-	Intergenic	-
CWSNP6132	Ca-Kabuli-Chr7	6682448	[T/C]	-	Intergenic	-
CWSNP6133	Ca-Kabuli-Chr7	6682443	[C/T]	-	Intergenic	-
CWSNP6134	Ca-Kabuli-Chr7	6682439	[T/A]	-	Intergenic	-
CWSNP6135	Ca-Kabuli-Chr7	6682455	[G/T]	-	Intergenic	-
CWSNP6136	Ca-Kabuli-Chr7	6703849	[G/T]	Ca06691	Non-Synonymous-CDS	WD40 repeat
CWSNP6137	Ca-Kabuli-Chr7	6792606	[T/G]	-	Intergenic	-
CWSNP6138	Ca-Kabuli-Chr7	6859511	[C/G]	-	Intergenic	-
CWSNP6139	Ca-Kabuli-Chr7	7026516	[T/C]	-	DRR	-
CWSNP6140	Ca-Kabuli-Chr7	7146159	[C/G]	-	Intergenic	-
CWSNP6141	Ca-Kabuli-Chr7	7265386	[T/A]	-	Intergenic	-
CWSNP6142	Ca-Kabuli-Chr7	7423419	[G/A]	Ca06617	Non-Synonymous-CDS	Heat shock protein DnaJ,N-terminal
CWSNP6143	Ca-Kabuli-Chr7	7576668	[A/C]	-	Intergenic	-
CWSNP6144	Ca-Kabuli-Chr7	7580158	[T/C]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP6145	Ca-Kabuli-Chr7	7706816	[A/G]	-	Intergenic	-
CWSNP6146	Ca-Kabuli-Chr7	7756455	[C/T]	Ca13243	Non-Synonymous-CDS	SNF2-related
CWSNP6147	Ca-Kabuli-Chr7	7756566	[G/A]	Ca13243	Intron	SNF2-related
CWSNP6148	Ca-Kabuli-Chr7	7809179	[T/G]	Ca13237	Intron	PeptidaseS49
CWSNP6149	Ca-Kabuli-Chr7	7809192	[A/C]	Ca13237	Intron	PeptidaseS49
CWSNP6150	Ca-Kabuli-Chr7	8061808	[A/G]	Ca13209	Synonymous-CDS	Nucleic acid binding,OB-fold,tRNA/helicase-type
CWSNP6151	Ca-Kabuli-Chr7	8169947	[T/C]	-	URR	-
CWSNP6152	Ca-Kabuli-Chr7	8187181	[G/A]	Ca13195	Synonymous-CDS	Chaperonin ClpA/B
CWSNP6153	Ca-Kabuli-Chr7	8188004	[C/G]	Ca13195	Non-Synonymous-CDS	Chaperonin ClpA/B
CWSNP6154	Ca-Kabuli-Chr7	8261062	[C/A]	-	DRR	-
CWSNP6155	Ca-Kabuli-Chr7	8569632	[A/G]	-	URR	-
CWSNP6156	Ca-Kabuli-Chr7	8583890	[T/C]	Ca15359	Synonymous-CDS	Zinc finger,C2HC5-type
CWSNP6157	Ca-Kabuli-Chr7	8626875	[A/T]	-	URR	-
CWSNP6158	Ca-Kabuli-Chr7	8835601	[G/A]	-	DRR	-
CWSNP6159	Ca-Kabuli-Chr7	8835602	[A/G]	-	DRR	-
CWSNP6160	Ca-Kabuli-Chr7	8835610	[G/A]	-	DRR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP6161	Ca-Kabuli-Chr7	8835659	[G/T]	-	DRR	-
CWSNP6162	Ca-Kabuli-Chr7	8835757	[T/C]	-	DRR	-
CWSNP6163	Ca-Kabuli-Chr7	8835718	[T/G]	-	DRR	-
CWSNP6164	Ca-Kabuli-Chr7	8835705	[T/A]	-	DRR	-
CWSNP6165	Ca-Kabuli-Chr7	9128044	[A/G]	-	Intergenic	-
CWSNP6166	Ca-Kabuli-Chr7	9128050	[C/A]	-	Intergenic	-
CWSNP6167	Ca-Kabuli-Chr7	9147367	[A/T]	Ca15301	Intron	Transcription factor E2F/dimerisationpartner (TDP)
CWSNP6168	Ca-Kabuli-Chr7	9147366	[T/G]	Ca15301	Intron	Transcription factor E2F/dimerisationpartner (TDP)
CWSNP6169	Ca-Kabuli-Chr7	9147502	[C/T]	Ca15301	Intron	Transcription factor E2F/dimerisationpartner (TDP)
CWSNP6170	Ca-Kabuli-Chr7	9151709	[T/G]	-	DRR	-
CWSNP6171	Ca-Kabuli-Chr7	9151755	[C/T]	-	DRR	-
CWSNP6172	Ca-Kabuli-Chr7	9153104	[C/A]	-	DRR	-
CWSNP6173	Ca-Kabuli-Chr7	9153062	[G/A]	-	DRR	-
CWSNP6174	Ca-Kabuli-Chr7	9214457	[T/A]	-	Intergenic	-
CWSNP6175	Ca-Kabuli-Chr7	9214422	[C/T]	-	Intergenic	-
CWSNP6176	Ca-Kabuli-Chr7	9301825	[G/C]	Ca17330	Non-Synonymous-CDS	rRNA small subunit methyltransferase G

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP6177	Ca-Kabuli-Chr7	9301881	[C/T]	-	Intergenic	-
CWSNP6178	Ca-Kabuli-Chr7	9348281	[T/C]	-	DRR	-
CWSNP6179	Ca-Kabuli-Chr7	9350506	[T/G]	-	DRR	-
CWSNP6180	Ca-Kabuli-Chr7	9350535	[A/C]	-	DRR	-
CWSNP6181	Ca-Kabuli-Chr7	9351783	[C/G]	Ca17325	Intron	Glycosidehydrolase,family47
CWSNP6182	Ca-Kabuli-Chr7	9351863	[G/A]	Ca17325	Non-Synonymous-CDS	Glycosidehydrolase,family47
CWSNP6183	Ca-Kabuli-Chr7	9475275	[T/G]	-	DRR	-
CWSNP6184	Ca-Kabuli-Chr7	9523902	[C/T]	-	URR	-
CWSNP6185	Ca-Kabuli-Chr7	9612558	[A/C]	-	DRR	-
CWSNP6186	Ca-Kabuli-Chr7	9671210	[T/C]	-	DRR	-
CWSNP6187	Ca-Kabuli-Chr7	9696620	[A/G]	-	Intergenic	-
CWSNP6188	Ca-Kabuli-Chr7	9744436	[G/T]	-	Intergenic	-
CWSNP6189	Ca-Kabuli-Chr7	9897698	[T/G]	-	DRR	-
CWSNP6190	Ca-Kabuli-Chr7	9914751	[G/A]	-	Intergenic	-
CWSNP6191	Ca-Kabuli-Chr7	9914764	[G/A]	-	Intergenic	-
CWSNP6192	Ca-Kabuli-Chr7	9914785	[T/C]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP6193	Ca-Kabuli-Chr7	9914794	[G/A]	-	Intergenic	-
CWSNP6194	Ca-Kabuli-Chr7	9914745	[T/C]	-	Intergenic	-
CWSNP6195	Ca-Kabuli-Chr7	9914802	[T/G]	-	Intergenic	-
CWSNP6196	Ca-Kabuli-Chr7	10208029	[T/C]	-	Intergenic	-
CWSNP6197	Ca-Kabuli-Chr7	10223068	[G/T]	-	URR	-
CWSNP6198	Ca-Kabuli-Chr7	10223069	[G/T]	-	URR	-
CWSNP6199	Ca-Kabuli-Chr7	10223071	[T/A]	-	URR	-
CWSNP6200	Ca-Kabuli-Chr7	10223074	[G/T]	-	URR	-
CWSNP6201	Ca-Kabuli-Chr7	10223075	[C/T]	-	URR	-
CWSNP6202	Ca-Kabuli-Chr7	10322726	[T/C]	Ca12794	Synonymous-CDS	tRNA/rRNAmethyltransferase,SpoU
CWSNP6203	Ca-Kabuli-Chr7	10435983	[C/A]	Ca12803	Non-Synonymous-CDS	CaseinkinaseII,regulatory subunit
CWSNP6204	Ca-Kabuli-Chr7	10484200	[G/A]	Ca12810	Intron	Protein of unknown function DUF702
CWSNP6205	Ca-Kabuli-Chr7	10521449	[C/A]	Ca12811	Non-Synonymous-CDS	Zinc finger,RING-type
CWSNP6206	Ca-Kabuli-Chr7	10688189	[T/G]	Ca12825	Intron	Signal transduction response regulator,receiver domain
CWSNP6207	Ca-Kabuli-Chr7	10703569	[A/T]	-	Intergenic	-
CWSNP6208	Ca-Kabuli-Chr7	10703704	[G/A]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP6209	Ca-Kabuli-Chr7	10712231	[G/A]	-	Intergenic	-
CWSNP6210	Ca-Kabuli-Chr7	10775881	[C/T]	-	Intergenic	-
CWSNP6211	Ca-Kabuli-Chr7	10775860	[A/G]	-	Intergenic	-
CWSNP6212	Ca-Kabuli-Chr7	10780680	[C/G]	-	Intergenic	-
CWSNP6213	Ca-Kabuli-Chr7	10780682	[G/A]	-	Intergenic	-
CWSNP6214	Ca-Kabuli-Chr7	10780686	[T/C]	-	Intergenic	-
CWSNP6215	Ca-Kabuli-Chr7	10797204	[T/C]	Ca12832	Intron	Protein kinase, catalytic domain
CWSNP6216	Ca-Kabuli-Chr7	10816523	[T/G]	-	DRR	-
CWSNP6217	Ca-Kabuli-Chr7	10900910	[T/C]	-	DRR	-
CWSNP6218	Ca-Kabuli-Chr7	11105847	[C/G]	Ca09376	Non-Synonymous-CDS	Hexokinase
CWSNP6219	Ca-Kabuli-Chr7	11192703	[A/C]	Ca09371	Synonymous-CDS	Homeobox
CWSNP6220	Ca-Kabuli-Chr7	11261924	[G/A]	-	URR	-
CWSNP6221	Ca-Kabuli-Chr7	11393795	[A/G]	-	Intergenic	-
CWSNP6222	Ca-Kabuli-Chr7	11545846	[A/G]	Ca09342	Non-Synonymous-CDS	Lateral organ boundaries, LOB
CWSNP6223	Ca-Kabuli-Chr7	11568963	[T/A]	-	Intergenic	-
CWSNP6224	Ca-Kabuli-Chr7	11630509	[A/G]	-	URR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP6225	Ca-Kabuli-Chr7	11735368	[G/C]	-	URR	-
CWSNP6226	Ca-Kabuli-Chr7	11803091	[T/G]	-	Intergenic	-
CWSNP6227	Ca-Kabuli-Chr7	11858425	[C/T]	-	DRR	-
CWSNP6228	Ca-Kabuli-Chr7	11886954	[A/G]	-	Intergenic	-
CWSNP6229	Ca-Kabuli-Chr7	12010432	[G/A]	-	Intergenic	-
CWSNP6230	Ca-Kabuli-Chr7	12010471	[C/T]	-	Intergenic	-
CWSNP6231	Ca-Kabuli-Chr7	12010504	[G/A]	-	Intergenic	-
CWSNP6232	Ca-Kabuli-Chr7	12010499	[C/T]	-	Intergenic	-
CWSNP6233	Ca-Kabuli-Chr7	12010494	[G/A]	-	Intergenic	-
CWSNP6234	Ca-Kabuli-Chr7	12010491	[G/T]	-	Intergenic	-
CWSNP6235	Ca-Kabuli-Chr7	12010483	[C/T]	-	Intergenic	-
CWSNP6236	Ca-Kabuli-Chr7	12010457	[C/T]	-	Intergenic	-
CWSNP6237	Ca-Kabuli-Chr7	12010489	[C/T]	-	Intergenic	-
CWSNP6238	Ca-Kabuli-Chr7	12030080	[A/C]	Ca09301	Synonymous-CDS	tRNA-dihydrouridine synthase
CWSNP6239	Ca-Kabuli-Chr7	12071764	[T/C]	Ca09297	Intron	Kinesin , motor domain
CWSNP6240	Ca-Kabuli-Chr7	12244259	[G/A]	Ca09285	Intron	Nicotinatephosphoribosyltransferase-related

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP6241	Ca-Kabuli-Chr7	12390774	[G/A]	Ca09275	Synonymous-CDS	-
CWSNP6242	Ca-Kabuli-Chr7	12481556	[G/C]	-	DRR	-
CWSNP6243	Ca-Kabuli-Chr7	12482953	[A/C]	-	DRR	-
CWSNP6244	Ca-Kabuli-Chr7	12483290	[A/C]	-	DRR	-
CWSNP6245	Ca-Kabuli-Chr7	12718820	[C/G]	-	Intergenic	-
CWSNP6246	Ca-Kabuli-Chr7	12718853	[G/A]	-	Intergenic	-
CWSNP6247	Ca-Kabuli-Chr7	12730600	[C/A]	-	DRR	-
CWSNP6248	Ca-Kabuli-Chr7	12737516	[T/C]	-	DRR	-
CWSNP6249	Ca-Kabuli-Chr7	12893655	[C/T]	-	DRR	-
CWSNP6250	Ca-Kabuli-Chr7	13059710	[C/A]	Ca09222	Non-Synonymous-CDS	BTB/POZ-like
CWSNP6251	Ca-Kabuli-Chr7	13059712	[C/A]	Ca09222	Non-Synonymous-CDS	BTB/POZ-like
CWSNP6252	Ca-Kabuli-Chr7	13059852	[G/A]	Ca09222	Synonymous-CDS	BTB/POZ-like
CWSNP6253	Ca-Kabuli-Chr7	13514074	[C/T]	Ca16037	Synonymous-CDS	Protein of unknown function DUF677
CWSNP6254	Ca-Kabuli-Chr7	13605200	[A/C]	Ca16044	Synonymous-CDS	Zinc finger,C2H2-type
CWSNP6255	Ca-Kabuli-Chr7	13605191	[A/C]	Ca16044	Synonymous-CDS	Zinc finger,C2H2-type
CWSNP6256	Ca-Kabuli-Chr7	13605188	[A/C]	Ca16044	Synonymous-CDS	Zinc finger,C2H2-type

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP6257	Ca-Kabuli-Chr7	13605578	[C/G]	Ca16044	Synonymous-CDS	Zinc finger,C2H2-type
CWSNP6258	Ca-Kabuli-Chr7	13903980	[T/G]	Ca16064	Non-Synonymous-CDS	Tubby,C-terminal
CWSNP6259	Ca-Kabuli-Chr7	13949259	[A/G]	Ca16067	Non-Synonymous-CDS	Heat shock protein DnaJ,N-terminal
CWSNP6260	Ca-Kabuli-Chr7	14051146	[G/T]	Ca16074	Intron	-
CWSNP6261	Ca-Kabuli-Chr7	14281993	[G/T]	Ca23042	Non-Synonymous-CDS	Protein of unknown function DUF702
CWSNP6262	Ca-Kabuli-Chr7	14328649	[T/C]	-	Intergenic	-
CWSNP6263	Ca-Kabuli-Chr7	14329126	[C/T]	-	Intergenic	-
CWSNP6264	Ca-Kabuli-Chr7	14329175	[G/A]	-	Intergenic	-
CWSNP6265	Ca-Kabuli-Chr7	14329196	[G/A]	-	Intergenic	-
CWSNP6266	Ca-Kabuli-Chr7	14329217	[C/T]	-	Intergenic	-
CWSNP6267	Ca-Kabuli-Chr7	14329167	[A/T]	-	Intergenic	-
CWSNP6268	Ca-Kabuli-Chr7	14345799	[T/A]	Ca23045	Non-Synonymous-CDS	D-galactoside/L-rhamnose binding SUEL lectin domain
CWSNP6269	Ca-Kabuli-Chr7	14470549	[C/G]	Ca09992	Non-Synonymous-CDS	Forkhead-associated (FHA) domain
CWSNP6270	Ca-Kabuli-Chr7	14685011	[G/C]	-	Intergenic	-
CWSNP6271	Ca-Kabuli-Chr7	14685017	[C/T]	-	Intergenic	-
CWSNP6272	Ca-Kabuli-Chr7	14685024	[A/G]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP6273	Ca-Kabuli-Chr7	14712518	[C/A]	-	Intergenic	-
CWSNP6274	Ca-Kabuli-Chr7	14712568	[C/A]	-	Intergenic	-
CWSNP6275	Ca-Kabuli-Chr7	14712596	[T/C]	-	Intergenic	-
CWSNP6276	Ca-Kabuli-Chr7	14712601	[C/T]	-	Intergenic	-
CWSNP6277	Ca-Kabuli-Chr7	14748257	[T/A]	-	Intergenic	-
CWSNP6278	Ca-Kabuli-Chr7	14997794	[G/A]	Ca09954	Non-Synonymous-CDS	RNA helicase, ATP-dependent, DEAD-box, conserved site
CWSNP6279	Ca-Kabuli-Chr7	15039606	[T/A]	-	Intergenic	-
CWSNP6280	Ca-Kabuli-Chr7	15070091	[T/A]	Ca09947	Intron	Uncharacterised protein family Cys-rich
CWSNP6281	Ca-Kabuli-Chr7	15125638	[G/C]	Ca09942	Non-Synonymous-CDS	Peptidase A1
CWSNP6282	Ca-Kabuli-Chr7	15399421	[T/C]	Ca09920	Non-Synonymous-CDS	Glycoside hydrolase, family 19, catalytic
CWSNP6283	Ca-Kabuli-Chr7	15463183	[G/T]	Ca09916	Non-Synonymous-CDS	AMP-dependent synthetase/ligase
CWSNP6284	Ca-Kabuli-Chr7	15463169	[G/A]	Ca09916	Synonymous-CDS	AMP-dependent synthetase/ligase
CWSNP6285	Ca-Kabuli-Chr7	15530329	[G/T]	Ca09913	Non-Synonymous-CDS	AMP-dependent synthetase/ligase
CWSNP6286	Ca-Kabuli-Chr7	15530315	[G/A]	Ca09913	Synonymous-CDS	AMP-dependent synthetase/ligase
CWSNP6287	Ca-Kabuli-Chr7	15568060	[G/T]	-	DRR	-
CWSNP6288	Ca-Kabuli-Chr7	15568046	[G/A]	-	DRR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP6289	Ca-Kabuli-Chr7	15826588	[A/C]	Ca09889	Synonymous-CDS	Lipid-bindingSTART
CWSNP6290	Ca-Kabuli-Chr7	15966680	[A/G]	Ca09880	Synonymous-CDS	Sugar/inositol transporter
CWSNP6291	Ca-Kabuli-Chr7	15966714	[G/A]	Ca09880	Non-Synonymous-CDS	Sugar/inositol transporter
CWSNP6292	Ca-Kabuli-Chr7	16289794	[G/T]	Ca09857	Non-Synonymous-CDS	Tafazzin
CWSNP6293	Ca-Kabuli-Chr7	16324985	[T/C]	Ca09853	Intron	Drug/metabolite transporter
CWSNP6294	Ca-Kabuli-Chr7	16626047	[T/G]	Ca20562	Synonymous-CDS	Nodulin-like
CWSNP6295	Ca-Kabuli-Chr7	16665577	[A/G]	Ca20568	Synonymous-CDS	Tetratricopeptide repeat-containing
CWSNP6296	Ca-Kabuli-Chr7	16735437	[G/A]	-	Intergenic	-
CWSNP6297	Ca-Kabuli-Chr7	16821274	[A/C]	Ca20581	Non-Synonymous-CDS	-
CWSNP6298	Ca-Kabuli-Chr7	16936123	[C/G]	Ca15885	Non-Synonymous-CDS	H/ACA ribonucleoprotein complex,subunit Nop10
CWSNP6299	Ca-Kabuli-Chr7	17140664	[C/T]	-	Intergenic	-
CWSNP6300	Ca-Kabuli-Chr7	17228904	[T/G]	-	URR	-
CWSNP6301	Ca-Kabuli-Chr7	17318174	[G/T]	Ca15859	Non-Synonymous-CDS	SET domain
CWSNP6302	Ca-Kabuli-Chr7	17766952	[T/A]	-	Intergenic	-
CWSNP6303	Ca-Kabuli-Chr7	17766914	[C/A]	-	Intergenic	-
CWSNP6304	Ca-Kabuli-Chr7	17779414	[A/G]	Ca15839	Non-Synonymous-CDS	Basic-leucine zipper (bZIP) Transcription factor

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP6305	Ca-Kabuli-Chr7	18011604	[G/C]	Ca15826	Non-Synonymous-CDS	Protein kinase, catalytic domain
CWSNP6306	Ca-Kabuli-Chr7	18090289	[T/A]	-	Intergenic	-
CWSNP6307	Ca-Kabuli-Chr7	18319049	[T/G]	-	Intergenic	-
CWSNP6308	Ca-Kabuli-Chr7	18319073	[T/G]	-	Intergenic	-
CWSNP6309	Ca-Kabuli-Chr7	18365218	[G/A]	-	Intergenic	-
CWSNP6310	Ca-Kabuli-Chr7	18469422	[C/T]	Ca22127	Non-Synonymous-CDS	-
CWSNP6311	Ca-Kabuli-Chr7	18638565	[A/G]	Ca12302	Non-Synonymous-CDS	-
CWSNP6312	Ca-Kabuli-Chr7	18642538	[A/G]	Ca12302	Non-Synonymous-CDS	-
CWSNP6313	Ca-Kabuli-Chr7	18658563	[C/G]	Ca12303	Synonymous-CDS	Phosphatetransporter
CWSNP6314	Ca-Kabuli-Chr7	18696645	[G/A]	-	Intergenic	-
CWSNP6315	Ca-Kabuli-Chr7	18910468	[A/G]	-	Intergenic	-
CWSNP6316	Ca-Kabuli-Chr7	19042183	[C/T]	Ca12316	Intron	Kinesin , motor domain
CWSNP6317	Ca-Kabuli-Chr7	19217501	[A/C]	Ca12328	Non-Synonymous-CDS	Pathogenesis-related transcriptional factor/ERF, DNA-binding
CWSNP6318	Ca-Kabuli-Chr7	19472689	[T/A]	-	DRR	-
CWSNP6319	Ca-Kabuli-Chr7	19818789	[C/A]	-	Intergenic	-
CWSNP6320	Ca-Kabuli-Chr7	19818770	[T/C]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP6321	Ca-Kabuli-Chr7	19818759	[G/C]	-	Intergenic	-
CWSNP6322	Ca-Kabuli-Chr7	19818757	[G/C]	-	Intergenic	-
CWSNP6323	Ca-Kabuli-Chr7	20031805	[T/C]	-	Intergenic	-
CWSNP6324	Ca-Kabuli-Chr7	20032205	[A/C]	Ca12371	Synonymous-CDS	General substrate transporter
CWSNP6325	Ca-Kabuli-Chr7	20252133	[T/C]	-	Intergenic	-
CWSNP6326	Ca-Kabuli-Chr7	20252134	[G/A]	-	Intergenic	-
CWSNP6327	Ca-Kabuli-Chr7	20252135	[A/G]	-	Intergenic	-
CWSNP6328	Ca-Kabuli-Chr7	20252144	[G/A]	-	Intergenic	-
CWSNP6329	Ca-Kabuli-Chr7	20252145	[A/G]	-	Intergenic	-
CWSNP6330	Ca-Kabuli-Chr7	20252181	[C/T]	-	Intergenic	-
CWSNP6331	Ca-Kabuli-Chr7	20252192	[G/A]	-	Intergenic	-
CWSNP6332	Ca-Kabuli-Chr7	20252201	[C/A]	-	Intergenic	-
CWSNP6333	Ca-Kabuli-Chr7	20252233	[C/T]	-	Intergenic	-
CWSNP6334	Ca-Kabuli-Chr7	20252221	[T/C]	-	Intergenic	-
CWSNP6335	Ca-Kabuli-Chr7	20252309	[C/T]	-	Intergenic	-
CWSNP6336	Ca-Kabuli-Chr7	20252334	[A/T]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP6337	Ca-Kabuli-Chr7	20252340	[A/G]	-	Intergenic	-
CWSNP6338	Ca-Kabuli-Chr7	20414703	[C/A]	-	Intergenic	-
CWSNP6339	Ca-Kabuli-Chr7	20496378	[G/A]	Ca12400	Synonymous-CDS	Pathogenesis-related transcriptional factor/ERF, DNA-binding
CWSNP6340	Ca-Kabuli-Chr7	20496303	[C/T]	Ca12400	Synonymous-CDS	Pathogenesis-related transcriptional factor/ERF, DNA-binding
CWSNP6341	Ca-Kabuli-Chr7	20496438	[C/T]	Ca12400	Synonymous-CDS	Pathogenesis-related transcriptional factor/ERF, DNA-binding
CWSNP6342	Ca-Kabuli-Chr7	20498552	[T/C]	Ca12400	Intron	Pathogenesis-related transcriptional factor/ERF, DNA-binding
CWSNP6343	Ca-Kabuli-Chr7	20498626	[T/G]	Ca12400	Intron	Pathogenesis-related transcriptional factor/ERF, DNA-binding
CWSNP6344	Ca-Kabuli-Chr7	20540780	[C/T]	-	Intergenic	-
CWSNP6345	Ca-Kabuli-Chr7	20540791	[G/A]	-	Intergenic	-
CWSNP6346	Ca-Kabuli-Chr7	20543119	[T/C]	-	DRR	-
CWSNP6347	Ca-Kabuli-Chr7	20550563	[G/A]	-	Intergenic	-
CWSNP6348	Ca-Kabuli-Chr7	20550575	[C/G]	-	Intergenic	-
CWSNP6349	Ca-Kabuli-Chr7	20552041	[G/A]	Ca12405	Synonymous-CDS	SGT1
CWSNP6350	Ca-Kabuli-Chr7	20552053	[C/G]	Ca12405	Synonymous-CDS	SGT1
CWSNP6351	Ca-Kabuli-Chr7	20556466	[G/C]	-	Intergenic	-
CWSNP6352	Ca-Kabuli-Chr7	20556576	[C/T]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP6353	Ca-Kabuli-Chr7	20563931	[G/A]	Ca12406	Synonymous-CDS	KIP1-like
CWSNP6354	Ca-Kabuli-Chr7	20564024	[G/A]	Ca12406	Synonymous-CDS	KIP1-like
CWSNP6355	Ca-Kabuli-Chr7	20564266	[G/A]	Ca12406	Non-Synonymous-CDS	KIP1-like
CWSNP6356	Ca-Kabuli-Chr7	20564269	[C/T]	Ca12406	Non-Synonymous-CDS	KIP1-like
CWSNP6357	Ca-Kabuli-Chr7	20564297	[A/G]	Ca12406	Synonymous-CDS	KIP1-like
CWSNP6358	Ca-Kabuli-Chr7	20579963	[G/T]	-	Intergenic	-
CWSNP6359	Ca-Kabuli-Chr7	20579974	[A/T]	-	Intergenic	-
CWSNP6360	Ca-Kabuli-Chr7	20605389	[G/A]	-	Intergenic	-
CWSNP6361	Ca-Kabuli-Chr7	20605384	[C/G]	-	Intergenic	-
CWSNP6362	Ca-Kabuli-Chr7	20605373	[C/A]	-	Intergenic	-
CWSNP6363	Ca-Kabuli-Chr7	20633040	[A/G]	-	Intergenic	-
CWSNP6364	Ca-Kabuli-Chr7	20637152	[G/A]	Ca12415	Synonymous-CDS	Protein synthesis factor, GTP-binding
CWSNP6365	Ca-Kabuli-Chr7	20917747	[A/G]	-	URR	-
CWSNP6366	Ca-Kabuli-Chr7	20917743	[T/G]	-	URR	-
CWSNP6367	Ca-Kabuli-Chr7	20917740	[A/G]	-	URR	-
CWSNP6368	Ca-Kabuli-Chr7	21073385	[A/C]	Ca14490	Non-Synonymous-CDS	Alcohol dehydrogenase superfamily, zinc-containing

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP6369	Ca-Kabuli-Chr7	21099782	[G/T]	-	Intergenic	-
CWSNP6370	Ca-Kabuli-Chr7	21402075	[A/G]	Ca14503	Synonymous-CDS	Aldehydedehydrogenase domain
CWSNP6371	Ca-Kabuli-Chr7	21402117	[A/C]	Ca14503	Intron	Aldehydedehydrogenase domain
CWSNP6372	Ca-Kabuli-Chr7	21595525	[C/T]	-	DRR	-
CWSNP6373	Ca-Kabuli-Chr7	21616285	[A/G]	Ca14512	Intron	Clathrin/coatomer adaptor,adaptin-like,N-terminal
CWSNP6374	Ca-Kabuli-Chr7	21616287	[T/G]	Ca14512	Intron	Clathrin/coatomer adaptor,adaptin-like,N-terminal
CWSNP6375	Ca-Kabuli-Chr7	21616294	[T/G]	Ca14512	Intron	Clathrin/coatomer adaptor,adaptin-like,N-terminal
CWSNP6376	Ca-Kabuli-Chr7	21633103	[C/G]	-	Intergenic	-
CWSNP6377	Ca-Kabuli-Chr7	21639234	[G/A]	Ca14515	Intron	Clathrin/coatomer adaptor,adaptin-like,N-terminal
CWSNP6378	Ca-Kabuli-Chr7	21639238	[G/A]	Ca14515	Intron	Clathrin/coatomer adaptor,adaptin-like,N-terminal
CWSNP6379	Ca-Kabuli-Chr7	21639244	[T/G]	Ca14515	Intron	Clathrin/coatomer adaptor,adaptin-like,N-terminal
CWSNP6380	Ca-Kabuli-Chr7	21639251	[T/G]	Ca14515	Intron	Clathrin/coatomer adaptor,adaptin-like,N-terminal
CWSNP6381	Ca-Kabuli-Chr7	21639254	[T/G]	Ca14515	Intron	Clathrin/coatomer adaptor,adaptin-like,N-terminal
CWSNP6382	Ca-Kabuli-Chr7	21639375	[T/G]	Ca14515	Intron	Clathrin/coatomer adaptor,adaptin-like,N-terminal
CWSNP6383	Ca-Kabuli-Chr7	21644279	[C/T]	-	Intergenic	-
CWSNP6384	Ca-Kabuli-Chr7	21644342	[G/A]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP6385	Ca-Kabuli-Chr7	21713147	[T/G]	Ca14519	Intron	-
CWSNP6386	Ca-Kabuli-Chr7	21744514	[T/C]	-	DRR	-
CWSNP6387	Ca-Kabuli-Chr7	22721356	[A/C]	Ca19530	Synonymous-CDS	Haloacid dehalogenase-like hydrolase
CWSNP6388	Ca-Kabuli-Chr7	22738152	[C/G]	Ca19530	Intron	Haloacid dehalogenase-like hydrolase
CWSNP6389	Ca-Kabuli-Chr7	22738482	[A/G]	Ca19530	Intron	Haloacid dehalogenase-like hydrolase
CWSNP6390	Ca-Kabuli-Chr7	22808696	[A/G]	-	Intergenic	-
CWSNP6391	Ca-Kabuli-Chr7	22808687	[C/T]	-	Intergenic	-
CWSNP6392	Ca-Kabuli-Chr7	22808717	[C/T]	-	Intergenic	-
CWSNP6393	Ca-Kabuli-Chr7	22839776	[G/A]	-	Intergenic	-
CWSNP6394	Ca-Kabuli-Chr7	23574823	[C/T]	-	DRR	-
CWSNP6395	Ca-Kabuli-Chr7	23575629	[G/A]	Ca26017	Non-Synonymous-CDS	Phosphatidyl inositol 3-/4-kinase, catalytic
CWSNP6396	Ca-Kabuli-Chr7	23616050	[A/G]	Ca26014	Intron	Translin
CWSNP6397	Ca-Kabuli-Chr7	24021690	[T/A]	Ca19916	Non-Synonymous-CDS	ZF-HD homeobox protein,Cys/His-rich dimerisation domain
CWSNP6398	Ca-Kabuli-Chr7	24181321	[G/A]	Ca19912	Non-Synonymous-CDS	Zinc finger,RING-CH-type
CWSNP6399	Ca-Kabuli-Chr7	24190633	[G/A]	-	Intergenic	-
CWSNP6400	Ca-Kabuli-Chr7	24190636	[G/A]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP6401	Ca-Kabuli-Chr7	24190645	[A/T]	-	Intergenic	-
CWSNP6402	Ca-Kabuli-Chr7	24190650	[G/A]	-	Intergenic	-
CWSNP6403	Ca-Kabuli-Chr7	24190671	[C/T]	-	Intergenic	-
CWSNP6404	Ca-Kabuli-Chr7	24245096	[C/T]	-	Intergenic	-
CWSNP6405	Ca-Kabuli-Chr7	25218407	[C/T]	-	Intergenic	-
CWSNP6406	Ca-Kabuli-Chr7	25362272	[T/C]	-	Intergenic	-
CWSNP6407	Ca-Kabuli-Chr7	25428518	[T/C]	-	Intergenic	-
CWSNP6408	Ca-Kabuli-Chr7	25428548	[G/T]	-	Intergenic	-
CWSNP6409	Ca-Kabuli-Chr7	25428566	[T/C]	-	Intergenic	-
CWSNP6410	Ca-Kabuli-Chr7	25428660	[G/A]	-	Intergenic	-
CWSNP6411	Ca-Kabuli-Chr7	25569665	[T/G]	Ca23609	Intron	Zinc finger,PHD-type
CWSNP6412	Ca-Kabuli-Chr7	25569657	[T/C]	Ca23609	Intron	Zinc finger,PHD-type
CWSNP6413	Ca-Kabuli-Chr7	26070513	[G/T]	-	Intergenic	-
CWSNP6414	Ca-Kabuli-Chr7	26070515	[A/G]	-	Intergenic	-
CWSNP6415	Ca-Kabuli-Chr7	26094562	[G/T]	-	Intergenic	-
CWSNP6416	Ca-Kabuli-Chr7	26094567	[G/A]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP6417	Ca-Kabuli-Chr7	26137315	[T/C]	Ca23640	Synonymous-CDS	IQ motif, EF-hand binding site
CWSNP6418	Ca-Kabuli-Chr7	26146779	[C/T]	Ca23640	Intron	IQ motif, EF-hand binding site
CWSNP6419	Ca-Kabuli-Chr7	26226146	[G/C]	-	Intergenic	-
CWSNP6420	Ca-Kabuli-Chr7	26692131	[T/G]	-	DRR	-
CWSNP6421	Ca-Kabuli-Chr7	26692130	[C/T]	-	DRR	-
CWSNP6422	Ca-Kabuli-Chr7	26692128	[A/C]	-	DRR	-
CWSNP6423	Ca-Kabuli-Chr7	26692194	[C/A]	-	Intergenic	-
CWSNP6424	Ca-Kabuli-Chr7	26692195	[G/T]	-	Intergenic	-
CWSNP6425	Ca-Kabuli-Chr7	26694365	[G/A]	-	URR	-
CWSNP6426	Ca-Kabuli-Chr7	26694440	[C/A]	-	URR	-
CWSNP6427	Ca-Kabuli-Chr7	26694441	[G/A]	-	URR	-
CWSNP6428	Ca-Kabuli-Chr7	26897910	[A/G]	-	Intergenic	-
CWSNP6429	Ca-Kabuli-Chr7	26897920	[A/G]	-	Intergenic	-
CWSNP6430	Ca-Kabuli-Chr7	26897923	[G/A]	-	Intergenic	-
CWSNP6431	Ca-Kabuli-Chr7	26897948	[A/T]	-	Intergenic	-
CWSNP6432	Ca-Kabuli-Chr7	26940917	[G/A]	Ca16240	Non-Synonymous-CDS	Plastocyanin-like

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP6433	Ca-Kabuli-Chr7	26940967	[A/G]	Ca16240	Synonymous-CDS	Plastocyanin-like
CWSNP6434	Ca-Kabuli-Chr7	26940979	[A/G]	Ca16240	Synonymous-CDS	Plastocyanin-like
CWSNP6435	Ca-Kabuli-Chr7	26940985	[T/G]	Ca16240	Synonymous-CDS	Plastocyanin-like
CWSNP6436	Ca-Kabuli-Chr7	27050259	[C/G]	Ca16234	Non-Synonymous-CDS	Dynamamin,GTPase domain
CWSNP6437	Ca-Kabuli-Chr7	27176481	[C/A]	Ca16229	Non-Synonymous-CDS	Lactate/malatedehydrogenase,N-terminal
CWSNP6438	Ca-Kabuli-Chr7	27210919	[C/T]	-	URR	-
CWSNP6439	Ca-Kabuli-Chr7	27210881	[C/T]	-	URR	-
CWSNP6440	Ca-Kabuli-Chr7	27210871	[C/A]	-	URR	-
CWSNP6441	Ca-Kabuli-Chr7	27210858	[C/T]	-	URR	-
CWSNP6442	Ca-Kabuli-Chr7	27210853	[A/G]	-	URR	-
CWSNP6443	Ca-Kabuli-Chr7	27210848	[A/T]	-	URR	-
CWSNP6444	Ca-Kabuli-Chr7	27210988	[C/T]	-	URR	-
CWSNP6445	Ca-Kabuli-Chr7	27210989	[C/T]	-	URR	-
CWSNP6446	Ca-Kabuli-Chr7	27210992	[C/A]	-	URR	-
CWSNP6447	Ca-Kabuli-Chr7	27211004	[T/C]	-	URR	-
CWSNP6448	Ca-Kabuli-Chr7	27211036	[G/A]	-	URR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP6449	Ca-Kabuli-Chr7	27211051	[C/A]	-	URR	-
CWSNP6450	Ca-Kabuli-Chr7	27633960	[C/A]	-	Intergenic	-
CWSNP6451	Ca-Kabuli-Chr7	27735234	[A/G]	Ca16212	Intron	Cyclin,C-terminal
CWSNP6452	Ca-Kabuli-Chr7	27899782	[T/C]	-	Intergenic	-
CWSNP6453	Ca-Kabuli-Chr7	28931212	[A/C]	-	DRR	-
CWSNP6454	Ca-Kabuli-Chr7	28931223	[C/A]	-	DRR	-
CWSNP6455	Ca-Kabuli-Chr7	29150927	[A/C]	Ca11791	Intron	-
CWSNP6456	Ca-Kabuli-Chr7	29153994	[T/C]	Ca11791	Synonymous-CDS	-
CWSNP6457	Ca-Kabuli-Chr7	29157286	[A/G]	Ca11791	Synonymous-CDS	-
CWSNP6458	Ca-Kabuli-Chr7	29168982	[G/A]	-	DRR	-
CWSNP6459	Ca-Kabuli-Chr7	29168980	[C/T]	-	DRR	-
CWSNP6460	Ca-Kabuli-Chr7	29190659	[T/G]	Ca11786	Non-Synonymous-CDS	Glutamyl/glutaminyI-tRNA synthetase,classic
CWSNP6461	Ca-Kabuli-Chr7	29225385	[T/G]	-	URR	-
CWSNP6462	Ca-Kabuli-Chr7	29225351	[T/G]	-	URR	-
CWSNP6463	Ca-Kabuli-Chr7	29225348	[G/C]	-	URR	-
CWSNP6464	Ca-Kabuli-Chr7	29229965	[A/G]	-	URR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP6465	Ca-Kabuli-Chr7	29313080	[T/C]	-	Intergenic	-
CWSNP6466	Ca-Kabuli-Chr7	29313067	[G/T]	-	Intergenic	-
CWSNP6467	Ca-Kabuli-Chr7	29313059	[G/A]	-	Intergenic	-
CWSNP6468	Ca-Kabuli-Chr7	29313058	[T/C]	-	Intergenic	-
CWSNP6469	Ca-Kabuli-Chr7	29313051	[T/C]	-	Intergenic	-
CWSNP6470	Ca-Kabuli-Chr7	29313257	[G/A]	-	Intergenic	-
CWSNP6471	Ca-Kabuli-Chr7	29482556	[G/A]	-	Intergenic	-
CWSNP6472	Ca-Kabuli-Chr7	29484304	[G/A]	-	Intergenic	-
CWSNP6473	Ca-Kabuli-Chr7	29607943	[C/T]	-	URR	-
CWSNP6474	Ca-Kabuli-Chr7	29613699	[C/T]	Ca11764	Synonymous-CDS	F-boxdomain,cyclin-like
CWSNP6475	Ca-Kabuli-Chr7	29625884	[T/C]	-	Intergenic	-
CWSNP6476	Ca-Kabuli-Chr7	29705531	[T/G]	Ca11752	Non-Synonymous-CDS	-
CWSNP6477	Ca-Kabuli-Chr7	29705499	[T/C]	Ca11752	Non-Synonymous-CDS	-
CWSNP6478	Ca-Kabuli-Chr7	29796564	[G/T]	Ca11746	Non-Synonymous-CDS	Spc97/Spc98
CWSNP6479	Ca-Kabuli-Chr7	29801148	[A/G]	Ca11746	Non-Synonymous-CDS	Spc97/Spc98
CWSNP6480	Ca-Kabuli-Chr7	29801154	[T/C]	Ca11746	Non-Synonymous-CDS	Spc97/Spc98

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP6481	Ca-Kabuli-Chr7	29837035	[G/A]	-	DRR	-
CWSNP6482	Ca-Kabuli-Chr7	29838073	[C/T]	-	DRR	-
CWSNP6483	Ca-Kabuli-Chr7	29848248	[T/C]	Ca11739	Intron	Lipase,class3
CWSNP6484	Ca-Kabuli-Chr7	29848433	[C/T]	Ca11739	Synonymous-CDS	Lipase,class3
CWSNP6485	Ca-Kabuli-Chr7	29849509	[C/T]	Ca11739	Non-Synonymous-CDS	Lipase,class3
CWSNP6486	Ca-Kabuli-Chr7	29849544	[A/G]	Ca11739	Synonymous-CDS	Lipase,class3
CWSNP6487	Ca-Kabuli-Chr7	29884719	[G/T]	Ca11736	Non-Synonymous-CDS	TetratricopeptideTPR-1
CWSNP6488	Ca-Kabuli-Chr7	29884718	[C/A]	Ca11736	Synonymous-CDS	TetratricopeptideTPR-1
CWSNP6489	Ca-Kabuli-Chr7	29925008	[G/A]	-	DRR	-
CWSNP6490	Ca-Kabuli-Chr7	30004767	[C/T]	-	Intergenic	-
CWSNP6491	Ca-Kabuli-Chr7	30004934	[A/C]	-	Intergenic	-
CWSNP6492	Ca-Kabuli-Chr7	30026039	[T/G]	Ca11727	Intron	Glycosyltransferase,family2
CWSNP6493	Ca-Kabuli-Chr7	30026017	[C/T]	Ca11727	Intron	Glycosyltransferase,family2
CWSNP6494	Ca-Kabuli-Chr7	30029793	[A/C]	-	DRR	-
CWSNP6495	Ca-Kabuli-Chr7	30029820	[T/C]	-	DRR	-
CWSNP6496	Ca-Kabuli-Chr7	30060299	[C/A]	Ca11722	Synonymous-CDS	ATPase,P-type,K/Mg/Cd/Cu/Zn/Na/Ca/Na/H-transporter

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP6497	Ca-Kabuli-Chr7	30085847	[C/T]	Ca11718	Non-Synonymous-CDS	Domain of unknown function DUF828
CWSNP6498	Ca-Kabuli-Chr7	30085883	[T/G]	Ca11718	Non-Synonymous-CDS	Domain of unknown function DUF828
CWSNP6499	Ca-Kabuli-Chr7	30085906	[C/T]	-	Intergenic	-
CWSNP6500	Ca-Kabuli-Chr7	30085910	[T/A]	-	Intergenic	-
CWSNP6501	Ca-Kabuli-Chr7	30099003	[C/T]	-	Intergenic	-
CWSNP6502	Ca-Kabuli-Chr7	30107340	[A/G]	-	Intergenic	-
CWSNP6503	Ca-Kabuli-Chr7	30403618	[G/A]	-	Intergenic	-
CWSNP6504	Ca-Kabuli-Chr7	30691324	[A/C]	Ca23327	Non-Synonymous-CDS	-
CWSNP6505	Ca-Kabuli-Chr7	30691318	[A/C]	Ca23327	Non-Synonymous-CDS	-
CWSNP6506	Ca-Kabuli-Chr7	30768315	[G/A]	-	URR	-
CWSNP6507	Ca-Kabuli-Chr7	30850950	[A/C]	-	Intergenic	-
CWSNP6508	Ca-Kabuli-Chr7	31190059	[G/A]	Ca10139	Synonymous-CDS	RNApolymeraseII-associated,Paf1
CWSNP6509	Ca-Kabuli-Chr7	31193786	[T/G]	Ca10139	Synonymous-CDS	RNApolymeraseII-associated,Paf1
CWSNP6510	Ca-Kabuli-Chr7	31314421	[T/A]	-	DRR	-
CWSNP6511	Ca-Kabuli-Chr7	31324279	[A/G]	-	Intergenic	-
CWSNP6512	Ca-Kabuli-Chr7	31401807	[T/C]	-	URR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP6513	Ca-Kabuli-Chr7	31442425	[A/C]	Ca10114	Intron	PWWP
CWSNP6514	Ca-Kabuli-Chr7	31612697	[T/A]	Ca10100	Non-Synonymous-CDS	ABC transporter, transmembrane domain
CWSNP6515	Ca-Kabuli-Chr7	31639701	[C/T]	Ca10099	Intron	Domain of unknown function DUF250
CWSNP6516	Ca-Kabuli-Chr7	31830238	[A/G]	-	Intergenic	-
CWSNP6517	Ca-Kabuli-Chr7	31851096	[T/A]	Ca10079	Non-Synonymous-CDS	Prenyltransferase/squaleneoxidase
CWSNP6518	Ca-Kabuli-Chr7	31873079	[G/T]	-	Intergenic	-
CWSNP6519	Ca-Kabuli-Chr7	31996345	[A/C]	-	Intergenic	-
CWSNP6520	Ca-Kabuli-Chr7	32017288	[G/T]	-	Intergenic	-
CWSNP6521	Ca-Kabuli-Chr7	32017286	[T/G]	-	Intergenic	-
CWSNP6522	Ca-Kabuli-Chr7	32017252	[G/A]	-	Intergenic	-
CWSNP6523	Ca-Kabuli-Chr7	32017238	[C/T]	-	Intergenic	-
CWSNP6524	Ca-Kabuli-Chr7	32017228	[G/A]	-	Intergenic	-
CWSNP6525	Ca-Kabuli-Chr7	32017221	[C/T]	-	Intergenic	-
CWSNP6526	Ca-Kabuli-Chr7	32127288	[T/A]	-	URR	-
CWSNP6527	Ca-Kabuli-Chr7	32283585	[T/G]	Ca10045	Intron	vonWillebrandfactor,typeA
CWSNP6528	Ca-Kabuli-Chr7	32309397	[A/T]	Ca10045	Intron	vonWillebrandfactor,typeA

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP6529	Ca-Kabuli-Chr7	32309411	[G/T]	Ca10045	Intron	vonWillebrandfactor,typeA
CWSNP6530	Ca-Kabuli-Chr7	32309415	[C/T]	Ca10045	Intron	vonWillebrandfactor,typeA
CWSNP6531	Ca-Kabuli-Chr7	32309429	[C/T]	Ca10045	Intron	vonWillebrandfactor,typeA
CWSNP6532	Ca-Kabuli-Chr7	32309377	[C/T]	Ca10045	Intron	vonWillebrandfactor,typeA
CWSNP6533	Ca-Kabuli-Chr7	32309376	[C/G]	Ca10045	Intron	vonWillebrandfactor,typeA
CWSNP6534	Ca-Kabuli-Chr7	32399759	[C/T]	Ca10038	Synonymous-CDS	LsmADdomain
CWSNP6535	Ca-Kabuli-Chr7	32404932	[T/C]	-	URR	-
CWSNP6536	Ca-Kabuli-Chr7	32451377	[A/C]	Ca10034	Intron	Protein of unknown function DUF1296
CWSNP6537	Ca-Kabuli-Chr7	32522201	[A/G]	Ca10028	Synonymous-CDS	SANT domain, DNA binding
CWSNP6538	Ca-Kabuli-Chr7	32522203	[A/G]	Ca10028	Non-Synonymous-CDS	SANT domain, DNA binding
CWSNP6539	Ca-Kabuli-Chr7	32522207	[T/G]	Ca10028	Synonymous-CDS	SANT domain, DNA binding
CWSNP6540	Ca-Kabuli-Chr7	32522213	[A/G]	Ca10028	Synonymous-CDS	SANT domain, DNA binding
CWSNP6541	Ca-Kabuli-Chr7	32522230	[T/G]	Ca10028	Non-Synonymous-CDS	SANT domain, DNA binding
CWSNP6542	Ca-Kabuli-Chr7	32557599	[G/A]	-	Intergenic	-
CWSNP6543	Ca-Kabuli-Chr7	32669570	[A/G]	-	Intergenic	-
CWSNP6544	Ca-Kabuli-Chr7	32754633	[T/G]	Ca10017	Intron	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP6545	Ca-Kabuli-Chr7	32755662	[G/T]	Ca10017	Non-Synonymous-CDS	-
CWSNP6546	Ca-Kabuli-Chr7	32784903	[T/G]	Ca10015	Synonymous-CDS	TranscriptioninitiationfactorTFIID
CWSNP6547	Ca-Kabuli-Chr7	32799037	[A/G]	-	Intergenic	-
CWSNP6548	Ca-Kabuli-Chr7	32807457	[T/A]	-	Intergenic	-
CWSNP6549	Ca-Kabuli-Chr7	32807499	[A/G]	-	Intergenic	-
CWSNP6550	Ca-Kabuli-Chr7	32874847	[C/T]	-	Intergenic	-
CWSNP6551	Ca-Kabuli-Chr7	32874840	[C/T]	-	Intergenic	-
CWSNP6552	Ca-Kabuli-Chr7	32875799	[T/A]	Ca10011	Synonymous-CDS	Germin
CWSNP6553	Ca-Kabuli-Chr7	32942199	[A/G]	-	DRR	-
CWSNP6554	Ca-Kabuli-Chr7	32942951	[T/G]	-	Intergenic	-
CWSNP6555	Ca-Kabuli-Chr7	32989796	[T/A]	Ca10000	Synonymous-CDS	Protein kinase, catalytic domain
CWSNP6556	Ca-Kabuli-Chr7	32989838	[C/T]	Ca10000	Synonymous-CDS	Protein kinase, catalytic domain
CWSNP6557	Ca-Kabuli-Chr7	32989903	[A/G]	Ca10000	Intron	Protein kinase, catalytic domain
CWSNP6558	Ca-Kabuli-Chr7	32989902	[C/A]	Ca10000	Intron	Protein kinase, catalytic domain
CWSNP6559	Ca-Kabuli-Chr7	33065611	[G/T]	-	Intergenic	-
CWSNP6560	Ca-Kabuli-Chr7	33121674	[G/C]	-	DRR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP6561	Ca-Kabuli-Chr7	33121640	[C/A]	-	DRR	-
CWSNP6562	Ca-Kabuli-Chr7	33122473	[A/C]	-	DRR	-
CWSNP6563	Ca-Kabuli-Chr7	33182932	[G/A]	Ca16149	Synonymous-CDS	Lipase,class3
CWSNP6564	Ca-Kabuli-Chr7	33267485	[T/C]	-	URR	-
CWSNP6565	Ca-Kabuli-Chr7	33267496	[T/A]	-	URR	-
CWSNP6566	Ca-Kabuli-Chr7	33335978	[C/A]	Ca16158	Non-Synonymous-CDS	RNA recognition motif domain
CWSNP6567	Ca-Kabuli-Chr7	33364329	[C/T]	-	DRR	-
CWSNP6568	Ca-Kabuli-Chr7	33364354	[G/A]	-	DRR	-
CWSNP6569	Ca-Kabuli-Chr7	33378427	[C/T]	Ca16163	Intron	Spt20family
CWSNP6570	Ca-Kabuli-Chr7	33411746	[C/A]	Ca16164	Intron	Zinc finger,CCCH-type
CWSNP6571	Ca-Kabuli-Chr7	33465828	[C/A]	-	URR	-
CWSNP6572	Ca-Kabuli-Chr7	33465818	[G/A]	-	URR	-
CWSNP6573	Ca-Kabuli-Chr7	33465805	[T/C]	-	URR	-
CWSNP6574	Ca-Kabuli-Chr7	33465802	[C/A]	-	URR	-
CWSNP6575	Ca-Kabuli-Chr7	33465800	[T/A]	-	URR	-
CWSNP6576	Ca-Kabuli-Chr7	33465781	[G/T]	-	URR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP6577	Ca-Kabuli-Chr7	33465855	[A/C]	-	URR	-
CWSNP6578	Ca-Kabuli-Chr7	33480940	[C/T]	-	Intergenic	-
CWSNP6579	Ca-Kabuli-Chr7	33573605	[C/T]	Ca16177	Synonymous-CDS	CCAAT-binding factor
CWSNP6580	Ca-Kabuli-Chr7	33573655	[A/C]	Ca16177	Non-Synonymous-CDS	CCAAT-binding factor
CWSNP6581	Ca-Kabuli-Chr7	33619268	[G/C]	-	Intergenic	-
CWSNP6582	Ca-Kabuli-Chr7	33641799	[G/T]	Ca16180	Synonymous-CDS	Pathogenesis-related transcriptional factor/ERF, DNA-binding
CWSNP6583	Ca-Kabuli-Chr7	33641882	[A/T]	Ca16180	Intron	Pathogenesis-related transcriptional factor/ERF, DNA-binding
CWSNP6584	Ca-Kabuli-Chr7	33674454	[T/C]	Ca16181	Synonymous-CDS	PeptidaseS8/S53,subtilisin/kexin/sedolisin
CWSNP6585	Ca-Kabuli-Chr7	33744521	[C/G]	Ca16182	Intron	ARID/BRIGHTDNA-binding domain
CWSNP6586	Ca-Kabuli-Chr7	33753917	[G/A]	Ca16183	Synonymous-CDS	Initiation factor2B-related
CWSNP6587	Ca-Kabuli-Chr7	33761944	[G/A]	Ca16184	Synonymous-CDS	-
CWSNP6588	Ca-Kabuli-Chr7	33762053	[T/G]	Ca16184	Non-Synonymous-CDS	-
CWSNP6589	Ca-Kabuli-Chr7	33821658	[C/T]	Ca16190	Intron	1-aminocyclopropane-1-carboxylatesynthase
CWSNP6590	Ca-Kabuli-Chr7	33865463	[T/C]	Ca16193	Intron	Exocyst complex component Sec10
CWSNP6591	Ca-Kabuli-Chr7	33865475	[G/A]	Ca16193	Intron	Exocyst complex component Sec10
CWSNP6592	Ca-Kabuli-Chr7	33867334	[C/T]	Ca16193	Intron	Exocyst complex component Sec10

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP6593	Ca-Kabuli-Chr7	33867491	[C/T]	Ca16193	Intron	Exocyst complex component Sec10
CWSNP6594	Ca-Kabuli-Chr7	33867674	[C/T]	Ca16193	Intron	Exocyst complex component Sec10
CWSNP6595	Ca-Kabuli-Chr7	33869367	[G/A]	Ca16193	Synonymous-CDS	Exocyst complex component Sec10
CWSNP6596	Ca-Kabuli-Chr7	33910324	[C/A]	-	Intergenic	-
CWSNP6597	Ca-Kabuli-Chr7	33910870	[C/A]	-	Intergenic	-
CWSNP6598	Ca-Kabuli-Chr7	33912719	[T/G]	-	Intergenic	-
CWSNP6599	Ca-Kabuli-Chr7	33912866	[T/C]	-	Intergenic	-
CWSNP6600	Ca-Kabuli-Chr7	33912899	[T/A]	-	Intergenic	-
CWSNP6601	Ca-Kabuli-Chr7	33912902	[A/T]	-	Intergenic	-
CWSNP6602	Ca-Kabuli-Chr7	33912913	[A/T]	-	Intergenic	-
CWSNP6603	Ca-Kabuli-Chr7	33912916	[G/T]	-	Intergenic	-
CWSNP6604	Ca-Kabuli-Chr7	33912921	[T/G]	-	Intergenic	-
CWSNP6605	Ca-Kabuli-Chr7	33912950	[C/T]	-	Intergenic	-
CWSNP6606	Ca-Kabuli-Chr7	33912966	[T/C]	-	Intergenic	-
CWSNP6607	Ca-Kabuli-Chr7	33913094	[A/G]	-	Intergenic	-
CWSNP6608	Ca-Kabuli-Chr7	33913047	[C/T]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP6609	Ca-Kabuli-Chr7	33913045	[G/T]	-	Intergenic	-
CWSNP6610	Ca-Kabuli-Chr7	34107603	[C/A]	-	Intergenic	-
CWSNP6611	Ca-Kabuli-Chr7	34152124	[G/C]	Ca21006	Non-Synonymous-CDS	DNA-directed RNA polymerase, subunit 2, domain 6
CWSNP6612	Ca-Kabuli-Chr7	34271486	[A/G]	-	DRR	-
CWSNP6613	Ca-Kabuli-Chr7	34277014	[G/T]	-	URR	-
CWSNP6614	Ca-Kabuli-Chr7	34277010	[A/G]	-	URR	-
CWSNP6615	Ca-Kabuli-Chr7	34279673	[G/A]	-	URR	-
CWSNP6616	Ca-Kabuli-Chr7	34279725	[A/G]	-	URR	-
CWSNP6617	Ca-Kabuli-Chr7	34279715	[A/C]	-	URR	-
CWSNP6618	Ca-Kabuli-Chr7	34318860	[C/T]	-	Intergenic	-
CWSNP6619	Ca-Kabuli-Chr7	34318862	[A/G]	-	Intergenic	-
CWSNP6620	Ca-Kabuli-Chr7	34474614	[A/C]	Ca17602	Non-Synonymous-CDS	SSXT
CWSNP6621	Ca-Kabuli-Chr7	34801839	[A/T]	Ca17614	Synonymous-CDS	-
CWSNP6622	Ca-Kabuli-Chr7	34857693	[C/T]	Ca17617	Non-Synonymous-CDS	Armadillo
CWSNP6623	Ca-Kabuli-Chr7	34947743	[A/C]	Ca17626	Intron	Phosphoribosyltransferase
CWSNP6624	Ca-Kabuli-Chr7	35016516	[G/C]	-	Intergenic	-

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CWSNP6625	Ca-Kabuli-Chr7	35072425	[A/T]	-	Intergenic	-
CWSNP6626	Ca-Kabuli-Chr7	35074362	[T/C]	-	Intergenic	-
CWSNP6627	Ca-Kabuli-Chr7	35112785	[T/C]	Ca17637	Synonymous-CDS	Importin-beta,N-terminal
CWSNP6628	Ca-Kabuli-Chr7	35114049	[C/T]	Ca17637	Non-Synonymous-CDS	Importin-beta,N-terminal
CWSNP6629	Ca-Kabuli-Chr7	35134809	[A/C]	Ca17638	Non-Synonymous-CDS	Pathogenesis-related transcriptional factor/ERF, DNA-binding
CWSNP6630	Ca-Kabuli-Chr7	35134863	[T/C]	Ca17638	Synonymous-CDS	Pathogenesis-related transcriptional factor/ERF, DNA-binding
CWSNP6631	Ca-Kabuli-Chr7	35181619	[T/G]	Ca17639	Non-Synonymous-CDS	Helix-loop-helix DNA-binding domain
CWSNP6632	Ca-Kabuli-Chr7	35181661	[T/C]	Ca17639	Synonymous-CDS	Helix-loop-helix DNA-binding domain
CWSNP6633	Ca-Kabuli-Chr7	35181660	[G/A]	Ca17639	Non-Synonymous-CDS	Helix-loop-helix DNA-binding domain
CWSNP6634	Ca-Kabuli-Chr7	35181635	[G/C]	Ca17639	Non-Synonymous-CDS	Helix-loop-helix DNA-binding domain
CWSNP6635	Ca-Kabuli-Chr7	35227794	[A/C]	-	URR	-
CWSNP6636	Ca-Kabuli-Chr7	35258029	[T/G]	Ca17644	Intron	Dynamain central domain
CWSNP6637	Ca-Kabuli-Chr7	35263711	[A/T]	-	Intergenic	-
CWSNP6638	Ca-Kabuli-Chr7	35263712	[G/T]	-	Intergenic	-
CWSNP6639	Ca-Kabuli-Chr7	35263736	[C/G]	-	Intergenic	-
CWSNP6640	Ca-Kabuli-Chr7	35263758	[A/G]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP6641	Ca-Kabuli-Chr7	35274368	[A/G]	-	Intergenic	-
CWSNP6642	Ca-Kabuli-Chr7	35274859	[T/G]	-	Intergenic	-
CWSNP6643	Ca-Kabuli-Chr7	35274858	[G/A]	-	Intergenic	-
CWSNP6644	Ca-Kabuli-Chr7	35274828	[A/G]	-	Intergenic	-
CWSNP6645	Ca-Kabuli-Chr7	35279675	[A/G]	Ca17646	Non-Synonymous-CDS	-
CWSNP6646	Ca-Kabuli-Chr7	35280189	[G/A]	Ca17646	Synonymous-CDS	-
CWSNP6647	Ca-Kabuli-Chr7	35280167	[A/G]	Ca17646	Synonymous-CDS	-
CWSNP6648	Ca-Kabuli-Chr7	35576427	[C/A]	Ca17765	Non-Synonymous-CDS	Reticulon
CWSNP6649	Ca-Kabuli-Chr7	35619487	[G/A]	-	Intergenic	-
CWSNP6650	Ca-Kabuli-Chr7	35619518	[G/C]	-	Intergenic	-
CWSNP6651	Ca-Kabuli-Chr7	35622168	[A/G]	Ca17769	Non-Synonymous-CDS	Ketopantoate hydroxy methyltransferase
CWSNP6652	Ca-Kabuli-Chr7	35680423	[A/C]	-	Intergenic	-
CWSNP6653	Ca-Kabuli-Chr7	35911620	[T/G]	-	URR	-
CWSNP6654	Ca-Kabuli-Chr7	35911617	[A/C]	-	URR	-
CWSNP6655	Ca-Kabuli-Chr7	35911615	[C/T]	-	URR	-
CWSNP6656	Ca-Kabuli-Chr7	35911612	[T/G]	-	URR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP6657	Ca-Kabuli-Chr7	35911606	[T/C]	-	URR	-
CWSNP6658	Ca-Kabuli-Chr7	35947529	[T/C]	Ca17800	Non-Synonymous-CDS	Transposase,Ptta/En/Spm,plant
CWSNP6659	Ca-Kabuli-Chr7	35947550	[C/T]	Ca17800	Non-Synonymous-CDS	Transposase,Ptta/En/Spm,plant
CWSNP6660	Ca-Kabuli-Chr7	35947551	[A/G]	Ca17800	Synonymous-CDS	Transposase,Ptta/En/Spm,plant
CWSNP6661	Ca-Kabuli-Chr7	35959825	[G/A]	-	Intergenic	-
CWSNP6662	Ca-Kabuli-Chr7	35959878	[G/A]	-	Intergenic	-
CWSNP6663	Ca-Kabuli-Chr7	36711954	[C/A]	Ca13756	Non-Synonymous-CDS	Mediator complex,subunit Med12
CWSNP6664	Ca-Kabuli-Chr7	36715249	[T/C]	Ca13756	Synonymous-CDS	Mediator complex,subunit Med12
CWSNP6665	Ca-Kabuli-Chr7	36745439	[T/G]	-	Intergenic	-
CWSNP6666	Ca-Kabuli-Chr7	36916273	[T/A]	-	Intergenic	-
CWSNP6667	Ca-Kabuli-Chr7	36998096	[T/C]	Ca13784	Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP6668	Ca-Kabuli-Chr7	36998113	[C/T]	Ca13784	Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP6669	Ca-Kabuli-Chr7	37058979	[C/T]	Ca13790	Non-Synonymous-CDS	Hydroxy methylglutaryl-CoAlyase,active site
CWSNP6670	Ca-Kabuli-Chr7	37187439	[A/G]	-	Intergenic	-
CWSNP6671	Ca-Kabuli-Chr7	37626729	[G/T]	Ca22806	Non-Synonymous-CDS	Transposase,Ptta/En/Spm,plant
CWSNP6672	Ca-Kabuli-Chr7	37626653	[A/C]	Ca22806	Non-Synonymous-CDS	Transposase,Ptta/En/Spm,plant

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP6673	Ca-Kabuli-Chr7	37626687	[A/G]	Ca22806	Non-Synonymous-CDS	Transposase,Ptta/En/Spm,plant
CWSNP6674	Ca-Kabuli-Chr7	37626666	[C/T]	Ca22806	Non-Synonymous-CDS	Transposase,Ptta/En/Spm,plant
CWSNP6675	Ca-Kabuli-Chr7	37703967	[G/A]	-	Intergenic	-
CWSNP6676	Ca-Kabuli-Chr7	37703966	[C/T]	-	Intergenic	-
CWSNP6677	Ca-Kabuli-Chr7	37703965	[C/T]	-	Intergenic	-
CWSNP6678	Ca-Kabuli-Chr7	37703921	[G/T]	-	Intergenic	-
CWSNP6679	Ca-Kabuli-Chr7	37703912	[G/A]	-	Intergenic	-
CWSNP6680	Ca-Kabuli-Chr7	37703913	[C/G]	-	Intergenic	-
CWSNP6681	Ca-Kabuli-Chr7	37703936	[C/T]	-	Intergenic	-
CWSNP6682	Ca-Kabuli-Chr7	37857936	[G/T]	-	DRR	-
CWSNP6683	Ca-Kabuli-Chr7	37857928	[A/T]	-	DRR	-
CWSNP6684	Ca-Kabuli-Chr7	38047374	[A/G]	-	Intergenic	-
CWSNP6685	Ca-Kabuli-Chr7	38047378	[C/A]	-	Intergenic	-
CWSNP6686	Ca-Kabuli-Chr7	38143361	[A/G]	Ca16396	Intron	RNA recognition motif domain
CWSNP6687	Ca-Kabuli-Chr7	38143524	[T/A]	Ca16396	Intron	RNA recognition motif domain
CWSNP6688	Ca-Kabuli-Chr7	38143452	[G/A]	Ca16396	Intron	RNA recognition motif domain

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CWSNP6689	Ca-Kabuli-Chr7	38460464	[G/A]	-	Intergenic	-
CWSNP6690	Ca-Kabuli-Chr7	38460452	[C/T]	-	Intergenic	-
CWSNP6691	Ca-Kabuli-Chr7	38460425	[G/A]	-	Intergenic	-
CWSNP6692	Ca-Kabuli-Chr7	39182564	[A/T]	Ca19581	Non-Synonymous-CDS	BEACH domain
CWSNP6693	Ca-Kabuli-Chr7	39339510	[T/G]	Ca19588	Non-Synonymous-CDS	WRC
CWSNP6694	Ca-Kabuli-Chr7	39339509	[G/A]	Ca19588	Synonymous-CDS	WRC
CWSNP6695	Ca-Kabuli-Chr7	39339508	[G/A]	Ca19588	Non-Synonymous-CDS	WRC
CWSNP6696	Ca-Kabuli-Chr7	39339503	[C/A]	Ca19588	Synonymous-CDS	WRC
CWSNP6697	Ca-Kabuli-Chr7	39339502	[C/A]	Ca19588	Non-Synonymous-CDS	WRC
CWSNP6698	Ca-Kabuli-Chr7	39339501	[G/C]	Ca19588	Non-Synonymous-CDS	WRC
CWSNP6699	Ca-Kabuli-Chr7	39339500	[G/T]	Ca19588	Synonymous-CDS	WRC
CWSNP6700	Ca-Kabuli-Chr7	39339499	[C/T]	Ca19588	Non-Synonymous-CDS	WRC
CWSNP6701	Ca-Kabuli-Chr7	39339498	[G/T]	Ca19588	Non-Synonymous-CDS	WRC
CWSNP6702	Ca-Kabuli-Chr7	39339495	[G/T]	Ca19588	Non-Synonymous-CDS	WRC
CWSNP6703	Ca-Kabuli-Chr7	39399280	[T/C]	Ca19592	Synonymous-CDS	Domain of unknown function DUF296
CWSNP6704	Ca-Kabuli-Chr7	39680221	[A/C]	Ca19607	Intron	Domain of unknown function DUF296

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP6705	Ca-Kabuli-Chr7	39680222	[G/A]	Ca19607	Intron	Domain of unknown function DUF296
CWSNP6706	Ca-Kabuli-Chr7	39944444	[T/C]	Ca25106	Synonymous-CDS	Mitochondrial carrier protein
CWSNP6707	Ca-Kabuli-Chr7	40092198	[G/A]	Ca24269	Non-Synonymous-CDS	-
CWSNP6708	Ca-Kabuli-Chr7	40092181	[C/T]	Ca24269	Non-Synonymous-CDS	-
CWSNP6709	Ca-Kabuli-Chr7	40092218	[A/T]	Ca24269	Non-Synonymous-CDS	-
CWSNP6710	Ca-Kabuli-Chr7	40092213	[G/A]	Ca24269	Non-Synonymous-CDS	-
CWSNP6711	Ca-Kabuli-Chr7	40092201	[G/A]	Ca24269	Non-Synonymous-CDS	-
CWSNP6712	Ca-Kabuli-Chr7	40092211	[C/T]	Ca24269	Non-Synonymous-CDS	-
CWSNP6713	Ca-Kabuli-Chr7	40092214	[C/G]	Ca24269	Non-Synonymous-CDS	-
CWSNP6714	Ca-Kabuli-Chr7	40092229	[C/A]	Ca24269	Non-Synonymous-CDS	-
CWSNP6715	Ca-Kabuli-Chr7	40092237	[C/T]	Ca24269	Synonymous-CDS	-
CWSNP6716	Ca-Kabuli-Chr7	40092250	[A/C]	Ca24269	Non-Synonymous-CDS	-
CWSNP6717	Ca-Kabuli-Chr7	40092253	[C/T]	Ca24269	Non-Synonymous-CDS	-
CWSNP6718	Ca-Kabuli-Chr7	40092256	[T/C]	Ca24269	Non-Synonymous-CDS	-
CWSNP6719	Ca-Kabuli-Chr7	40092267	[G/C]	Ca24269	Non-Synonymous-CDS	-
CWSNP6720	Ca-Kabuli-Chr7	40183449	[C/A]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP6721	Ca-Kabuli-Chr7	40183452	[A/C]	-	Intergenic	-
CWSNP6722	Ca-Kabuli-Chr7	40242765	[A/G]	Ca24261	Intron	RNA recognition motif domain
CWSNP6723	Ca-Kabuli-Chr7	40323213	[C/A]	-	Intergenic	-
CWSNP6724	Ca-Kabuli-Chr7	40323251	[T/A]	-	Intergenic	-
CWSNP6725	Ca-Kabuli-Chr7	40429548	[A/G]	-	DRR	-
CWSNP6726	Ca-Kabuli-Chr7	40429552	[C/T]	-	DRR	-
CWSNP6727	Ca-Kabuli-Chr7	40429564	[G/T]	-	DRR	-
CWSNP6728	Ca-Kabuli-Chr7	40429573	[G/T]	-	DRR	-
CWSNP6729	Ca-Kabuli-Chr7	40429629	[G/T]	-	DRR	-
CWSNP6730	Ca-Kabuli-Chr7	40429621	[G/T]	-	DRR	-
CWSNP6731	Ca-Kabuli-Chr7	40429604	[C/T]	-	DRR	-
CWSNP6732	Ca-Kabuli-Chr7	40429600	[C/T]	-	DRR	-
CWSNP6733	Ca-Kabuli-Chr7	40429596	[G/A]	-	DRR	-
CWSNP6734	Ca-Kabuli-Chr7	40429567	[G/A]	-	DRR	-
CWSNP6735	Ca-Kabuli-Chr7	40456574	[T/C]	-	DRR	-
CWSNP6736	Ca-Kabuli-Chr7	40889596	[A/C]	-	DRR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP6737	Ca-Kabuli-Chr7	40889598	[C/G]	-	DRR	-
CWSNP6738	Ca-Kabuli-Chr7	40889632	[C/T]	-	DRR	-
CWSNP6739	Ca-Kabuli-Chr7	40889633	[G/A]	-	DRR	-
CWSNP6740	Ca-Kabuli-Chr7	40889640	[G/A]	-	DRR	-
CWSNP6741	Ca-Kabuli-Chr7	40889641	[C/T]	-	DRR	-
CWSNP6742	Ca-Kabuli-Chr7	40889643	[G/A]	-	DRR	-
CWSNP6743	Ca-Kabuli-Chr7	40889673	[C/A]	-	DRR	-
CWSNP6744	Ca-Kabuli-Chr7	40889670	[C/T]	-	DRR	-
CWSNP6745	Ca-Kabuli-Chr7	40889723	[C/G]	-	DRR	-
CWSNP6746	Ca-Kabuli-Chr7	40889684	[C/T]	-	DRR	-
CWSNP6747	Ca-Kabuli-Chr7	41282883	[A/T]	-	Intergenic	-
CWSNP6748	Ca-Kabuli-Chr7	41282961	[G/T]	-	Intergenic	-
CWSNP6749	Ca-Kabuli-Chr7	41282960	[A/C]	-	Intergenic	-
CWSNP6750	Ca-Kabuli-Chr7	41282957	[G/A]	-	Intergenic	-
CWSNP6751	Ca-Kabuli-Chr7	41325886	[A/G]	Ca18002	Synonymous-CDS	Orotidine5'-phosphate decarboxylase domain
CWSNP6752	Ca-Kabuli-Chr7	41387475	[A/C]	Ca17996	Non-Synonymous-CDS	WD40 repeat

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CWSNP6753	Ca-Kabuli-Chr7	41657180	[G/T]	Ca17988	Intron	RNA polymerase,alpha subunit
CWSNP6754	Ca-Kabuli-Chr7	41657241	[T/C]	Ca17988	Non-Synonymous-CDS	RNA polymerase,alpha subunit
CWSNP6755	Ca-Kabuli-Chr7	41821410	[T/C]	-	Intergenic	-
CWSNP6756	Ca-Kabuli-Chr7	42272939	[G/C]	-	DRR	-
CWSNP6757	Ca-Kabuli-Chr7	42355002	[T/G]	-	Intergenic	-
CWSNP6758	Ca-Kabuli-Chr7	42354938	[C/T]	-	Intergenic	-
CWSNP6759	Ca-Kabuli-Chr7	42354999	[C/T]	-	Intergenic	-
CWSNP6760	Ca-Kabuli-Chr7	42355011	[G/T]	-	Intergenic	-
CWSNP6761	Ca-Kabuli-Chr7	43210821	[A/T]	-	Intergenic	-
CWSNP6762	Ca-Kabuli-Chr7	44232239	[G/A]	Ca21369	Synonymous-CDS	-
CWSNP6763	Ca-Kabuli-Chr7	44232204	[T/A]	Ca21369	Synonymous-CDS	-
CWSNP6764	Ca-Kabuli-Chr7	44232221	[C/T]	Ca21369	Non-Synonymous-CDS	-
CWSNP6765	Ca-Kabuli-Chr7	44232266	[C/T]	Ca21369	Non-Synonymous-CDS	-
CWSNP6766	Ca-Kabuli-Chr7	44540553	[T/G]	-	Intergenic	-
CWSNP6767	Ca-Kabuli-Chr7	44540596	[C/A]	-	Intergenic	-
CWSNP6768	Ca-Kabuli-Chr7	44540629	[G/A]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP6769	Ca-Kabuli-Chr7	44540616	[C/A]	-	Intergenic	-
CWSNP6770	Ca-Kabuli-Chr7	44612651	[C/A]	Ca15697	Non-Synonymous-CDS	Ethyleneinsensitive3
CWSNP6771	Ca-Kabuli-Chr7	44747668	[C/T]	Ca15701	Synonymous-CDS	-
CWSNP6772	Ca-Kabuli-Chr7	44765450	[C/T]	Ca15703	Synonymous-CDS	Transposase,Ptta/En/Spm,plant
CWSNP6773	Ca-Kabuli-Chr7	44765522	[A/C]	Ca15703	Synonymous-CDS	Transposase,Ptta/En/Spm,plant
CWSNP6774	Ca-Kabuli-Chr7	44877324	[A/C]	Ca15708	Non-Synonymous-CDS	Zinc finger,C2H2-type
CWSNP6775	Ca-Kabuli-Chr7	44926768	[C/T]	-	Intergenic	-
CWSNP6776	Ca-Kabuli-Chr7	44926783	[C/A]	-	Intergenic	-
CWSNP6777	Ca-Kabuli-Chr7	45280659	[T/A]	-	Intergenic	-
CWSNP6778	Ca-Kabuli-Chr7	45936581	[C/A]	Ca15757	Non-Synonymous-CDS	Dedicatorofcytokinesis
CWSNP6779	Ca-Kabuli-Chr7	46053109	[G/A]	Ca15758	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP6780	Ca-Kabuli-Chr7	46485934	[A/G]	Ca22756	Intron	-
CWSNP6781	Ca-Kabuli-Chr7	46747255	[A/C]	-	Intergenic	-
CWSNP6782	Ca-Kabuli-Chr7	46747283	[T/C]	-	Intergenic	-
CWSNP6783	Ca-Kabuli-Chr7	46747290	[G/T]	-	Intergenic	-
CWSNP6784	Ca-Kabuli-Chr7	46747295	[G/C]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP6785	Ca-Kabuli-Chr7	46747309	[C/T]	-	Intergenic	-
CWSNP6786	Ca-Kabuli-Chr7	46747330	[G/A]	-	Intergenic	-
CWSNP6787	Ca-Kabuli-Chr7	46826036	[T/A]	Ca19475	Synonymous-CDS	Glycosidehydrolase,family18,catalytic domain
CWSNP6788	Ca-Kabuli-Chr7	46826030	[T/C]	Ca19475	Synonymous-CDS	Glycosidehydrolase,family18,catalytic domain
CWSNP6789	Ca-Kabuli-Chr7	46826028	[C/A]	Ca19475	Non-Synonymous-CDS	Glycosidehydrolase,family18,catalytic domain
CWSNP6790	Ca-Kabuli-Chr7	46826020	[G/A]	Ca19475	Non-Synonymous-CDS	Glycosidehydrolase,family18,catalytic domain
CWSNP6791	Ca-Kabuli-Chr7	46826015	[G/A]	Ca19475	Synonymous-CDS	Glycosidehydrolase,family18,catalytic domain
CWSNP6792	Ca-Kabuli-Chr7	46826008	[A/T]	Ca19475	Non-Synonymous-CDS	Glycosidehydrolase,family18,catalytic domain
CWSNP6793	Ca-Kabuli-Chr7	46825997	[A/G]	Ca19475	Synonymous-CDS	Glycosidehydrolase,family18,catalytic domain
CWSNP6794	Ca-Kabuli-Chr7	46825992	[T/G]	Ca19475	Non-Synonymous-CDS	Glycosidehydrolase,family18,catalytic domain
CWSNP6795	Ca-Kabuli-Chr7	46825985	[T/G]	Ca19475	Synonymous-CDS	Glycosidehydrolase,family18,catalytic domain
CWSNP6796	Ca-Kabuli-Chr7	46825957	[A/T]	Ca19475	Non-Synonymous-CDS	Glycosidehydrolase,family18,catalytic domain
CWSNP6797	Ca-Kabuli-Chr7	46825952	[A/G]	Ca19475	Synonymous-CDS	Glycosidehydrolase,family18,catalytic domain
CWSNP6798	Ca-Kabuli-Chr7	47127331	[T/G]	-	Intergenic	-
CWSNP6799	Ca-Kabuli-Chr7	47127342	[T/G]	-	Intergenic	-
CWSNP6800	Ca-Kabuli-Chr7	47127343	[C/T]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP6801	Ca-Kabuli-Chr7	47335940	[G/A]	-	Intergenic	-
CWSNP6802	Ca-Kabuli-Chr7	47335916	[C/G]	-	Intergenic	-
CWSNP6803	Ca-Kabuli-Chr7	47524173	[A/C]	Ca19499	Non-Synonymous-CDS	Protein kinase, catalytic domain
CWSNP6804	Ca-Kabuli-Chr7	47694706	[A/C]	-	Intergenic	-
CWSNP6805	Ca-Kabuli-Chr7	47839952	[G/T]	Ca22546	Non-Synonymous-CDS	Ubiquitin-conjugating enzyme,E2
CWSNP6806	Ca-Kabuli-Chr7	47840092	[A/C]	Ca22546	Synonymous-CDS	Ubiquitin-conjugating enzyme,E2
CWSNP6807	Ca-Kabuli-Chr7	48200865	[A/G]	-	Intergenic	-
CWSNP6808	Ca-Kabuli-Chr7	48200822	[G/A]	-	Intergenic	-
CWSNP6809	Ca-Kabuli-Chr7	48200823	[G/A]	-	Intergenic	-
CWSNP6810	Ca-Kabuli-Chr7	48200848	[T/G]	-	Intergenic	-
CWSNP6811	Ca-Kabuli-Chr8	54095	[A/C]	Ca11935	Synonymous-CDS	Heat shock protein DnaJ,N-terminal
CWSNP6812	Ca-Kabuli-Chr8	281622	[G/A]	-	Intergenic	-
CWSNP6813	Ca-Kabuli-Chr8	281630	[A/C]	-	Intergenic	-
CWSNP6814	Ca-Kabuli-Chr8	356295	[A/T]	Ca11899	Intron	HEAT
CWSNP6815	Ca-Kabuli-Chr8	499819	[A/C]	Ca11887	Intron	Protein phosphatase2C,manganese/magnesium aspartate binding site
CWSNP6816	Ca-Kabuli-Chr8	560746	[A/G]	Ca11882	Intron	Cystathioninebeta-synthase,core

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP6817	Ca-Kabuli-Chr8	566094	[A/G]	-	DRR	-
CWSNP6818	Ca-Kabuli-Chr8	614324	[G/A]	-	Intergenic	-
CWSNP6819	Ca-Kabuli-Chr8	614301	[C/A]	-	Intergenic	-
CWSNP6820	Ca-Kabuli-Chr8	619605	[T/C]	-	Intergenic	-
CWSNP6821	Ca-Kabuli-Chr8	634862	[C/T]	-	Intergenic	-
CWSNP6822	Ca-Kabuli-Chr8	649491	[A/C]	Ca11866	Synonymous-CDS	Protein of unknown function DUF1423,plant
CWSNP6823	Ca-Kabuli-Chr8	660610	[T/G]	-	Intergenic	-
CWSNP6824	Ca-Kabuli-Chr8	666294	[G/A]	-	DRR	-
CWSNP6825	Ca-Kabuli-Chr8	666288	[A/T]	-	DRR	-
CWSNP6826	Ca-Kabuli-Chr8	666284	[T/A]	-	DRR	-
CWSNP6827	Ca-Kabuli-Chr8	666274	[T/G]	-	DRR	-
CWSNP6828	Ca-Kabuli-Chr8	673820	[A/G]	Ca11861	Non-Synonymous-CDS	KIP1-like
CWSNP6829	Ca-Kabuli-Chr8	701803	[C/T]	Ca11858	Intron	Protein kinase, catalytic domain
CWSNP6830	Ca-Kabuli-Chr8	701811	[T/G]	Ca11858	Intron	Protein kinase, catalytic domain
CWSNP6831	Ca-Kabuli-Chr8	701837	[G/A]	Ca11858	Intron	Protein kinase, catalytic domain
CWSNP6832	Ca-Kabuli-Chr8	706514	[T/C]	-	DRR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP6833	Ca-Kabuli-Chr8	706482	[G/C]	-	DRR	-
CWSNP6834	Ca-Kabuli-Chr8	706614	[C/T]	-	DRR	-
CWSNP6835	Ca-Kabuli-Chr8	706793	[A/G]	-	DRR	-
CWSNP6836	Ca-Kabuli-Chr8	706800	[G/A]	-	DRR	-
CWSNP6837	Ca-Kabuli-Chr8	709063	[T/C]	-	Intergenic	-
CWSNP6838	Ca-Kabuli-Chr8	709094	[T/C]	-	Intergenic	-
CWSNP6839	Ca-Kabuli-Chr8	709124	[A/T]	-	Intergenic	-
CWSNP6840	Ca-Kabuli-Chr8	714967	[A/G]	-	URR	-
CWSNP6841	Ca-Kabuli-Chr8	714974	[G/A]	-	URR	-
CWSNP6842	Ca-Kabuli-Chr8	822302	[A/G]	Ca11839	Non-Synonymous-CDS	Zinc finger,PHD-type
CWSNP6843	Ca-Kabuli-Chr8	875236	[T/G]	Ca11831	Intron	PeptidaseM16,C-terminal
CWSNP6844	Ca-Kabuli-Chr8	894184	[C/A]	-	URR	-
CWSNP6845	Ca-Kabuli-Chr8	898089	[C/T]	-	URR	-
CWSNP6846	Ca-Kabuli-Chr8	924715	[A/G]	-	DRR	-
CWSNP6847	Ca-Kabuli-Chr8	1011320	[G/T]	-	URR	-
CWSNP6848	Ca-Kabuli-Chr8	1194886	[G/A]	Ca15060	Intron	Alpha/beta hydrolase fold-1

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP6849	Ca-Kabuli-Chr8	1241739	[C/T]	-	URR	-
CWSNP6850	Ca-Kabuli-Chr8	1534461	[A/C]	-	DRR	-
CWSNP6851	Ca-Kabuli-Chr8	1544916	[C/T]	-	Intergenic	-
CWSNP6852	Ca-Kabuli-Chr8	1573877	[G/T]	Ca15012	Non-Synonymous-CDS	ATPase,AAA+type,core
CWSNP6853	Ca-Kabuli-Chr8	1708860	[T/C]	Ca02436	Synonymous-CDS	-
CWSNP6854	Ca-Kabuli-Chr8	1782034	[C/G]	-	DRR	-
CWSNP6855	Ca-Kabuli-Chr8	1794755	[C/A]	Ca02426	Non-Synonymous-CDS	ATPase,P-type,K/Mg/Cd/Cu/Zn/Na/Ca/Na/H-transporter
CWSNP6856	Ca-Kabuli-Chr8	1794756	[G/T]	Ca02426	Synonymous-CDS	ATPase,P-type,K/Mg/Cd/Cu/Zn/Na/Ca/Na/H-transporter
CWSNP6857	Ca-Kabuli-Chr8	1794759	[C/T]	Ca02426	Synonymous-CDS	ATPase,P-type,K/Mg/Cd/Cu/Zn/Na/Ca/Na/H-transporter
CWSNP6858	Ca-Kabuli-Chr8	1817388	[T/C]	-	DRR	-
CWSNP6859	Ca-Kabuli-Chr8	1932975	[T/C]	-	URR	-
CWSNP6860	Ca-Kabuli-Chr8	1932981	[T/C]	-	URR	-
CWSNP6861	Ca-Kabuli-Chr8	1932990	[A/C]	-	URR	-
CWSNP6862	Ca-Kabuli-Chr8	1932993	[C/T]	-	URR	-
CWSNP6863	Ca-Kabuli-Chr8	1932997	[G/T]	-	URR	-
CWSNP6864	Ca-Kabuli-Chr8	1933026	[G/A]	-	URR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP6865	Ca-Kabuli-Chr8	1933064	[G/C]	-	URR	-
CWSNP6866	Ca-Kabuli-Chr8	1933053	[G/A]	-	URR	-
CWSNP6867	Ca-Kabuli-Chr8	1933052	[T/C]	-	URR	-
CWSNP6868	Ca-Kabuli-Chr8	1933039	[G/T]	-	URR	-
CWSNP6869	Ca-Kabuli-Chr8	1933035	[T/A]	-	URR	-
CWSNP6870	Ca-Kabuli-Chr8	2088892	[T/G]	Ca02391	Non-Synonymous-CDS	Cellcycleregulatedmicrotubuleassociatedprotein
CWSNP6871	Ca-Kabuli-Chr8	2090852	[A/G]	-	Intergenic	-
CWSNP6872	Ca-Kabuli-Chr8	2095607	[A/G]	-	DRR	-
CWSNP6873	Ca-Kabuli-Chr8	2482834	[A/G]	-	DRR	-
CWSNP6874	Ca-Kabuli-Chr8	2524188	[A/G]	-	DRR	-
CWSNP6875	Ca-Kabuli-Chr8	2524148	[A/G]	-	DRR	-
CWSNP6876	Ca-Kabuli-Chr8	2543156	[A/G]	Ca02330	Non-Synonymous-CDS	-
CWSNP6877	Ca-Kabuli-Chr8	2604759	[C/T]	Ca02321	Intron	Polycombprotein,VEFS-Box
CWSNP6878	Ca-Kabuli-Chr8	2621973	[T/G]	Ca02319	Synonymous-CDS	Monooxygenase,FAD-binding
CWSNP6879	Ca-Kabuli-Chr8	2722673	[C/A]	-	DRR	-
CWSNP6880	Ca-Kabuli-Chr8	2827984	[T/C]	Ca02297	Intron	Pleckstrin homology domain

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP6881	Ca-Kabuli-Chr8	2838179	[T/A]	Ca02297	Intron	Pleckstrin homology domain
CWSNP6882	Ca-Kabuli-Chr8	2871095	[G/A]	Ca02297	Intron	Pleckstrin homology domain
CWSNP6883	Ca-Kabuli-Chr8	2871064	[G/A]	Ca02297	Intron	Pleckstrin homology domain
CWSNP6884	Ca-Kabuli-Chr8	2888353	[G/T]	Ca02296	Intron	PeptidaseS16,Lonprotease,C-terminal
CWSNP6885	Ca-Kabuli-Chr8	2943631	[G/T]	-	DRR	-
CWSNP6886	Ca-Kabuli-Chr8	3041947	[A/G]	Ca02278	Synonymous-CDS	Protein of unknown function DUF947
CWSNP6887	Ca-Kabuli-Chr8	3050452	[T/C]	-	URR	-
CWSNP6888	Ca-Kabuli-Chr8	3171324	[C/T]	-	Intergenic	-
CWSNP6889	Ca-Kabuli-Chr8	3250707	[C/T]	-	DRR	-
CWSNP6890	Ca-Kabuli-Chr8	3269088	[A/C]	Ca02251	Synonymous-CDS	Homeobox
CWSNP6891	Ca-Kabuli-Chr8	3269085	[A/C]	Ca02251	Synonymous-CDS	Homeobox
CWSNP6892	Ca-Kabuli-Chr8	3297410	[T/C]	Ca02249	Non-Synonymous-CDS	SANT domain, DNA binding
CWSNP6893	Ca-Kabuli-Chr8	3394931	[T/C]	-	Intergenic	-
CWSNP6894	Ca-Kabuli-Chr8	3539690	[A/G]	-	Intergenic	-
CWSNP6895	Ca-Kabuli-Chr8	3539745	[T/C]	-	Intergenic	-
CWSNP6896	Ca-Kabuli-Chr8	3730369	[A/C]	-	DRR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP6897	Ca-Kabuli-Chr8	3837306	[G/C]	-	URR	-
CWSNP6898	Ca-Kabuli-Chr8	3951767	[C/A]	-	DRR	-
CWSNP6899	Ca-Kabuli-Chr8	3951768	[A/G]	-	DRR	-
CWSNP6900	Ca-Kabuli-Chr8	4042166	[A/C]	-	URR	-
CWSNP6901	Ca-Kabuli-Chr8	4042424	[G/A]	-	URR	-
CWSNP6902	Ca-Kabuli-Chr8	4073528	[C/T]	Ca02163	Non-Synonymous-CDS	Zinc finger,RING-type
CWSNP6903	Ca-Kabuli-Chr8	4073603	[A/G]	Ca02163	Non-Synonymous-CDS	Zinc finger,RING-type
CWSNP6904	Ca-Kabuli-Chr8	4106644	[C/T]	-	URR	-
CWSNP6905	Ca-Kabuli-Chr8	4172368	[T/C]	Ca02150	Synonymous-CDS	Forkhead-associated (FHA) domain
CWSNP6906	Ca-Kabuli-Chr8	4198214	[A/C]	Ca02148	Non-Synonymous-CDS	Splicing factor,suppressor of white apricot
CWSNP6907	Ca-Kabuli-Chr8	4344459	[C/A]	-	DRR	-
CWSNP6908	Ca-Kabuli-Chr8	4346749	[A/G]	-	Intergenic	-
CWSNP6909	Ca-Kabuli-Chr8	4347535	[A/C]	-	Intergenic	-
CWSNP6910	Ca-Kabuli-Chr8	4351751	[G/A]	-	URR	-
CWSNP6911	Ca-Kabuli-Chr8	4406956	[C/G]	Ca02125	Synonymous-CDS	Lateral organ boundaries, LOB
CWSNP6912	Ca-Kabuli-Chr8	4484606	[T/A]	Ca02117	Intron	Zinc finger,LIM-type

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP6913	Ca-Kabuli-Chr8	4512311	[T/C]	-	DRR	-
CWSNP6914	Ca-Kabuli-Chr8	4611094	[C/T]	Ca02096	Non-Synonymous-CDS	SET domain
CWSNP6915	Ca-Kabuli-Chr8	4773205	[A/C]	-	Intergenic	-
CWSNP6916	Ca-Kabuli-Chr8	4858262	[C/A]	Ca02071	Non-Synonymous-CDS	NADPH-dependent FMN reductase
CWSNP6917	Ca-Kabuli-Chr8	4899983	[G/A]	-	DRR	-
CWSNP6918	Ca-Kabuli-Chr8	4980949	[A/T]	-	Intergenic	-
CWSNP6919	Ca-Kabuli-Chr8	4980916	[C/T]	-	Intergenic	-
CWSNP6920	Ca-Kabuli-Chr8	5115522	[G/C]	-	DRR	-
CWSNP6921	Ca-Kabuli-Chr8	5134706	[A/C]	-	Intergenic	-
CWSNP6922	Ca-Kabuli-Chr8	5184227	[C/G]	Ca02036	Non-Synonymous-CDS	Sugar/inositol transporter
CWSNP6923	Ca-Kabuli-Chr8	5197004	[G/T]	-	DRR	-
CWSNP6924	Ca-Kabuli-Chr8	5390602	[T/C]	-	DRR	-
CWSNP6925	Ca-Kabuli-Chr8	5399503	[G/A]	-	URR	-
CWSNP6926	Ca-Kabuli-Chr8	5400188	[A/G]	-	DRR	-
CWSNP6927	Ca-Kabuli-Chr8	5412489	[T/C]	Ca02004	Synonymous-CDS	Protein of unknown function DUF702
CWSNP6928	Ca-Kabuli-Chr8	5487769	[G/A]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP6929	Ca-Kabuli-Chr8	5538696	[A/C]	Ca01989	Intron	Protein of unknown function DUF726
CWSNP6930	Ca-Kabuli-Chr8	5538695	[T/C]	Ca01989	Intron	Protein of unknown function DUF726
CWSNP6931	Ca-Kabuli-Chr8	5538683	[T/C]	Ca01989	Intron	Protein of unknown function DUF726
CWSNP6932	Ca-Kabuli-Chr8	5870664	[T/C]	Ca01965	Non-Synonymous-CDS	Armadillo
CWSNP6933	Ca-Kabuli-Chr8	5935435	[A/C]	Ca01957	Synonymous-CDS	Senescence/spartin-associated
CWSNP6934	Ca-Kabuli-Chr8	6084594	[G/A]	-	DRR	-
CWSNP6935	Ca-Kabuli-Chr8	6192944	[T/G]	Ca01927	Synonymous-CDS	Pentatrigo peptide repeat
CWSNP6936	Ca-Kabuli-Chr8	6193078	[G/A]	Ca01927	Non-Synonymous-CDS	Pentatrigo peptide repeat
CWSNP6937	Ca-Kabuli-Chr8	6372230	[G/A]	-	Intergenic	-
CWSNP6938	Ca-Kabuli-Chr8	6664509	[T/A]	-	DRR	-
CWSNP6939	Ca-Kabuli-Chr8	6748294	[T/C]	Ca10708	Non-Synonymous-CDS	Sugar/inositol transporter
CWSNP6940	Ca-Kabuli-Chr8	6780592	[T/G]	Ca10705	Non-Synonymous-CDS	ATPase-like,ATP-binding domain
CWSNP6941	Ca-Kabuli-Chr8	6942651	[G/T]	Ca10698	Intron	ARID/BRIGHTDNA-binding domain
CWSNP6942	Ca-Kabuli-Chr8	6987609	[G/T]	Ca10694	Non-Synonymous-CDS	PeptidaseS8/S53,subtilisin/kexin/sedolisin
CWSNP6943	Ca-Kabuli-Chr8	6987615	[A/C]	Ca10694	Non-Synonymous-CDS	PeptidaseS8/S53,subtilisin/kexin/sedolisin
CWSNP6944	Ca-Kabuli-Chr8	7041901	[A/C]	-	URR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP6945	Ca-Kabuli-Chr8	7162826	[T/G]	-	Intergenic	-
CWSNP6946	Ca-Kabuli-Chr8	7174066	[C/T]	Ca10671	Synonymous-CDS	F-boxdomain,cyclin-like
CWSNP6947	Ca-Kabuli-Chr8	7175086	[A/C]	Ca10671	Intron	F-boxdomain,cyclin-like
CWSNP6948	Ca-Kabuli-Chr8	7357621	[A/G]	-	URR	-
CWSNP6949	Ca-Kabuli-Chr8	7357583	[T/C]	-	URR	-
CWSNP6950	Ca-Kabuli-Chr8	7563385	[C/G]	-	Intergenic	-
CWSNP6951	Ca-Kabuli-Chr8	7563370	[T/C]	-	Intergenic	-
CWSNP6952	Ca-Kabuli-Chr8	7563373	[T/A]	-	Intergenic	-
CWSNP6953	Ca-Kabuli-Chr8	7665291	[T/C]	-	Intergenic	-
CWSNP6954	Ca-Kabuli-Chr8	7694747	[A/G]	-	DRR	-
CWSNP6955	Ca-Kabuli-Chr8	7733573	[A/C]	-	DRR	-
CWSNP6956	Ca-Kabuli-Chr8	7733574	[G/A]	-	DRR	-
CWSNP6957	Ca-Kabuli-Chr8	7733670	[C/T]	-	DRR	-
CWSNP6958	Ca-Kabuli-Chr8	7733647	[G/T]	-	DRR	-
CWSNP6959	Ca-Kabuli-Chr8	7776466	[G/A]	-	URR	-
CWSNP6960	Ca-Kabuli-Chr8	7776592	[T/C]	-	URR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP6961	Ca-Kabuli-Chr8	7776897	[A/T]	-	URR	-
CWSNP6962	Ca-Kabuli-Chr8	7776934	[G/T]	-	URR	-
CWSNP6963	Ca-Kabuli-Chr8	7776970	[T/G]	-	URR	-
CWSNP6964	Ca-Kabuli-Chr8	7777023	[G/A]	-	URR	-
CWSNP6965	Ca-Kabuli-Chr8	8066006	[C/A]	-	Intergenic	-
CWSNP6966	Ca-Kabuli-Chr8	8066005	[A/G]	-	Intergenic	-
CWSNP6967	Ca-Kabuli-Chr8	8104884	[T/A]	-	URR	-
CWSNP6968	Ca-Kabuli-Chr8	8194232	[C/A]	Ca11454	Non-Synonymous-CDS	Aspartyl/Asparaginyl-tRNA synthetase,classIIb
CWSNP6969	Ca-Kabuli-Chr8	8194234	[C/A]	Ca11454	Non-Synonymous-CDS	Aspartyl/Asparaginyl-tRNA synthetase,classIIb
CWSNP6970	Ca-Kabuli-Chr8	8389117	[C/T]	Ca11471	Non-Synonymous-CDS	Transcription factor jumonji/aspartyl beta-hydroxylase
CWSNP6971	Ca-Kabuli-Chr8	8458383	[G/A]	-	DRR	-
CWSNP6972	Ca-Kabuli-Chr8	8533479	[G/T]	-	Intergenic	-
CWSNP6973	Ca-Kabuli-Chr8	8533978	[G/A]	-	Intergenic	-
CWSNP6974	Ca-Kabuli-Chr8	8560330	[C/A]	-	Intergenic	-
CWSNP6975	Ca-Kabuli-Chr8	8560331	[C/G]	-	Intergenic	-
CWSNP6976	Ca-Kabuli-Chr8	8560332	[A/C]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP6977	Ca-Kabuli-Chr8	8560326	[G/T]	-	Intergenic	-
CWSNP6978	Ca-Kabuli-Chr8	8661327	[T/C]	-	Intergenic	-
CWSNP6979	Ca-Kabuli-Chr8	8670242	[T/G]	Ca11498	Non-Synonymous-CDS	Tetratricopeptide repeat-containing
CWSNP6980	Ca-Kabuli-Chr8	8772131	[C/G]	-	Intergenic	-
CWSNP6981	Ca-Kabuli-Chr8	8772124	[G/A]	-	Intergenic	-
CWSNP6982	Ca-Kabuli-Chr8	8853602	[G/A]	-	DRR	-
CWSNP6983	Ca-Kabuli-Chr8	8853664	[A/G]	-	DRR	-
CWSNP6984	Ca-Kabuli-Chr8	8856046	[C/T]	-	DRR	-
CWSNP6985	Ca-Kabuli-Chr8	8856047	[C/T]	-	DRR	-
CWSNP6986	Ca-Kabuli-Chr8	8856150	[A/G]	-	DRR	-
CWSNP6987	Ca-Kabuli-Chr8	8856143	[G/A]	-	DRR	-
CWSNP6988	Ca-Kabuli-Chr8	8864079	[C/T]	Ca11517	Synonymous-CDS	VQ
CWSNP6989	Ca-Kabuli-Chr8	8864157	[G/A]	Ca11517	Synonymous-CDS	VQ
CWSNP6990	Ca-Kabuli-Chr8	8888412	[A/G]	-	URR	-
CWSNP6991	Ca-Kabuli-Chr8	8888414	[G/T]	-	URR	-
CWSNP6992	Ca-Kabuli-Chr8	8888426	[T/C]	-	URR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP6993	Ca-Kabuli-Chr8	8888476	[A/C]	-	URR	-
CWSNP6994	Ca-Kabuli-Chr8	8904346	[C/A]	Ca11521	Intron	Major facilitator superfamily MFS-1
CWSNP6995	Ca-Kabuli-Chr8	8904366	[A/G]	Ca11521	Intron	Major facilitator superfamily MFS-1
CWSNP6996	Ca-Kabuli-Chr8	8914018	[A/C]	Ca11522	Intron	Starchsynthase,catalytic domain
CWSNP6997	Ca-Kabuli-Chr8	9097585	[A/C]	-	URR	-
CWSNP6998	Ca-Kabuli-Chr8	9099798	[G/T]	-	URR	-
CWSNP6999	Ca-Kabuli-Chr8	9100111	[C/T]	-	URR	-
CWSNP7000	Ca-Kabuli-Chr8	9109896	[T/A]	-	Intergenic	-
CWSNP7001	Ca-Kabuli-Chr8	9109907	[A/T]	-	Intergenic	-
CWSNP7002	Ca-Kabuli-Chr8	9109920	[C/A]	-	Intergenic	-
CWSNP7003	Ca-Kabuli-Chr8	9112178	[G/A]	Ca11534	Synonymous-CDS	Protein of unknown function DUF1399
CWSNP7004	Ca-Kabuli-Chr8	9112172	[A/C]	Ca11534	Synonymous-CDS	Protein of unknown function DUF1399
CWSNP7005	Ca-Kabuli-Chr8	9118582	[C/T]	-	Intergenic	-
CWSNP7006	Ca-Kabuli-Chr8	9118667	[A/G]	-	Intergenic	-
CWSNP7007	Ca-Kabuli-Chr8	9143840	[C/A]	-	DRR	-
CWSNP7008	Ca-Kabuli-Chr8	9151722	[G/T]	Ca11539	Synonymous-CDS	PeptidaseM3A/M3B,thimet/oligopeptidaseF

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP7009	Ca-Kabuli-Chr8	9389347	[G/A]	-	Intergenic	-
CWSNP7010	Ca-Kabuli-Chr8	10004481	[T/C]	-	Intergenic	-
CWSNP7011	Ca-Kabuli-Chr8	10155981	[A/C]	Ca18411	Synonymous-CDS	NADH:flavinooxidoreductase/NADHoxidase,N-terminal
CWSNP7012	Ca-Kabuli-Chr8	10258892	[T/G]	Ca18416	Synonymous-CDS	Zinc finger,PHD-type
CWSNP7013	Ca-Kabuli-Chr8	10668422	[A/C]	-	Intergenic	-
CWSNP7014	Ca-Kabuli-Chr8	10733404	[A/G]	Ca19724	Synonymous-CDS	Ankyrin repeat
CWSNP7015	Ca-Kabuli-Chr8	10733503	[C/T]	Ca19724	Synonymous-CDS	Ankyrin repeat
CWSNP7016	Ca-Kabuli-Chr8	10733661	[G/A]	Ca19724	Synonymous-CDS	Ankyrin repeat
CWSNP7017	Ca-Kabuli-Chr8	10733747	[C/T]	Ca19724	Non-Synonymous-CDS	Ankyrin repeat
CWSNP7018	Ca-Kabuli-Chr8	10763656	[A/T]	-	DRR	-
CWSNP7019	Ca-Kabuli-Chr8	10953767	[C/T]	-	Intergenic	-
CWSNP7020	Ca-Kabuli-Chr8	11015680	[G/T]	-	Intergenic	-
CWSNP7021	Ca-Kabuli-Chr8	11015678	[C/G]	-	Intergenic	-
CWSNP7022	Ca-Kabuli-Chr8	11015666	[G/C]	-	Intergenic	-
CWSNP7023	Ca-Kabuli-Chr8	11066644	[C/T]	Ca16843	Synonymous-CDS	Multiantimicrobial extrusion protein
CWSNP7024	Ca-Kabuli-Chr8	11066728	[G/A]	Ca16843	Intron	Multiantimicrobial extrusion protein

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP7025	Ca-Kabuli-Chr8	11087143	[A/G]	-	Intergenic	-
CWSNP7026	Ca-Kabuli-Chr8	11087302	[A/T]	-	Intergenic	-
CWSNP7027	Ca-Kabuli-Chr8	11087250	[T/C]	-	Intergenic	-
CWSNP7028	Ca-Kabuli-Chr8	11087247	[T/C]	-	Intergenic	-
CWSNP7029	Ca-Kabuli-Chr8	11186986	[A/C]	Ca16839	Synonymous-CDS	Zinc finger,RanBP2-type
CWSNP7030	Ca-Kabuli-Chr8	11231812	[A/G]	Ca16835	Synonymous-CDS	Protein kinase, catalytic domain
CWSNP7031	Ca-Kabuli-Chr8	11240258	[C/A]	-	URR	-
CWSNP7032	Ca-Kabuli-Chr8	11243263	[A/C]	Ca16834	Non-Synonymous-CDS	HistoneH1/H5
CWSNP7033	Ca-Kabuli-Chr8	11243256	[A/C]	Ca16834	Synonymous-CDS	HistoneH1/H5
CWSNP7034	Ca-Kabuli-Chr8	11266447	[G/A]	-	DRR	-
CWSNP7035	Ca-Kabuli-Chr8	11310460	[G/A]	-	Intergenic	-
CWSNP7036	Ca-Kabuli-Chr8	11310480	[T/A]	-	Intergenic	-
CWSNP7037	Ca-Kabuli-Chr8	11332934	[C/T]	-	Intergenic	-
CWSNP7038	Ca-Kabuli-Chr8	11332940	[T/C]	-	Intergenic	-
CWSNP7039	Ca-Kabuli-Chr8	11333057	[C/G]	-	Intergenic	-
CWSNP7040	Ca-Kabuli-Chr8	11334190	[A/T]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP7041	Ca-Kabuli-Chr8	11334210	[C/T]	-	Intergenic	-
CWSNP7042	Ca-Kabuli-Chr8	11349891	[T/A]	-	DRR	-
CWSNP7043	Ca-Kabuli-Chr8	11349995	[A/G]	-	DRR	-
CWSNP7044	Ca-Kabuli-Chr8	11403805	[G/A]	Ca16820	Synonymous-CDS	SANT domain, DNA binding
CWSNP7045	Ca-Kabuli-Chr8	11403754	[G/A]	Ca16820	Non-Synonymous-CDS	SANT domain, DNA binding
CWSNP7046	Ca-Kabuli-Chr8	11562814	[A/C]	-	Intergenic	-
CWSNP7047	Ca-Kabuli-Chr8	11631836	[C/T]	Ca16809	Non-Synonymous-CDS	Ketose-bisphosphatealdolase,class-II
CWSNP7048	Ca-Kabuli-Chr8	11656700	[G/T]	-	DRR	-
CWSNP7049	Ca-Kabuli-Chr8	11656687	[A/G]	-	DRR	-
CWSNP7050	Ca-Kabuli-Chr8	11656675	[T/C]	-	DRR	-
CWSNP7051	Ca-Kabuli-Chr8	11656670	[A/G]	-	DRR	-
CWSNP7052	Ca-Kabuli-Chr8	11735882	[A/C]	Ca16799	Synonymous-CDS	Heat shock protein DnaJ,cysteine-richdomain
CWSNP7053	Ca-Kabuli-Chr8	12875217	[A/G]	-	Intergenic	-
CWSNP7054	Ca-Kabuli-Chr8	13248268	[T/C]	Ca20108	Synonymous-CDS	C2 calcium-dependent membrane targeting
CWSNP7055	Ca-Kabuli-Chr8	13745335	[A/G]	-	Intergenic	-
CWSNP7056	Ca-Kabuli-Chr8	13840865	[A/C]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP7057	Ca-Kabuli-Chr8	13864026	[T/G]	-	DRR	-
CWSNP7058	Ca-Kabuli-Chr8	13998102	[A/G]	-	Intergenic	-
CWSNP7059	Ca-Kabuli-Chr8	14006709	[G/A]	Ca22742	Intron	-
CWSNP7060	Ca-Kabuli-Chr8	14007431	[A/G]	Ca22742	Intron	-
CWSNP7061	Ca-Kabuli-Chr8	14124588	[C/A]	-	URR	-
CWSNP7062	Ca-Kabuli-Chr8	14129040	[G/A]	Ca13047	Non-Synonymous-CDS	Protein phosphatase2C-like
CWSNP7063	Ca-Kabuli-Chr8	14325980	[C/A]	Ca13032	Intron	Kinesin , motor domain
CWSNP7064	Ca-Kabuli-Chr8	14444424	[G/A]	-	URR	-
CWSNP7065	Ca-Kabuli-Chr8	14444438	[A/C]	-	URR	-
CWSNP7066	Ca-Kabuli-Chr8	14445205	[C/A]	-	URR	-
CWSNP7067	Ca-Kabuli-Chr8	14528966	[C/G]	-	DRR	-
CWSNP7068	Ca-Kabuli-Chr8	14613302	[G/A]	Ca13006	Intron	Endonuclease/exonuclease/phosphatase
CWSNP7069	Ca-Kabuli-Chr8	14640967	[A/C]	Ca13004	Intron	Toprimdomain
CWSNP7070	Ca-Kabuli-Chr8	14715495	[T/G]	Ca12997	Intron	HEAT
CWSNP7071	Ca-Kabuli-Chr8	14759784	[G/T]	-	DRR	-
CWSNP7072	Ca-Kabuli-Chr8	14760479	[C/G]	-	DRR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP7073	Ca-Kabuli-Chr8	14760497	[G/A]	-	DRR	-
CWSNP7074	Ca-Kabuli-Chr8	14821416	[G/A]	Ca12987	Synonymous-CDS	Mrp, conserved site
CWSNP7075	Ca-Kabuli-Chr8	15000109	[A/G]	Ca12972	Non-Synonymous-CDS	Aldehydedehydrogenase domain
CWSNP7076	Ca-Kabuli-Chr8	15034465	[T/C]	-	Intergenic	-
CWSNP7077	Ca-Kabuli-Chr8	15131175	[G/A]	Ca12965	Synonymous-CDS	Sugar/inositol transporter
CWSNP7078	Ca-Kabuli-Chr8	15555771	[A/C]	Ca17888	Synonymous-CDS	Protein of unknown function DUF1675
CWSNP7079	Ca-Kabuli-Chr8	15699180	[T/C]	Ca17876	Intron	RNA-dependent RNA polymerase, eukaryotic-type
CWSNP7080	Ca-Kabuli-Chr8	15764874	[G/A]	Ca17866	Synonymous-CDS	Chromodomain
CWSNP7081	Ca-Kabuli-Chr8	15857192	[A/G]	-	Intergenic	-
CWSNP7082	Ca-Kabuli-Chr8	15857359	[T/G]	-	Intergenic	-
CWSNP7083	Ca-Kabuli-Chr8	15873071	[A/C]	Ca17857	Synonymous-CDS	HEAT
CWSNP7084	Ca-Kabuli-Chr8	15873133	[A/G]	Ca17857	Non-Synonymous-CDS	HEAT
CWSNP7085	Ca-Kabuli-Chr8	16004976	[G/C]	-	Intergenic	-
CWSNP7086	Ca-Kabuli-Chr8	16005046	[C/T]	-	Intergenic	-
CWSNP7087	Ca-Kabuli-Chr8	16005078	[A/G]	-	Intergenic	-
CWSNP7088	Ca-Kabuli-Chr8	16020239	[C/A]	-	DRR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP7089	Ca-Kabuli-Chr8	16020277	[T/G]	-	DRR	-
CWSNP7090	Ca-Kabuli-Chr8	16020323	[G/T]	-	DRR	-
CWSNP7091	Ca-Kabuli-Chr8	16022432	[C/T]	-	Intergenic	-
CWSNP7092	Ca-Kabuli-Chr8	16027974	[A/T]	-	URR	-
CWSNP7093	Ca-Kabuli-Chr8	16028064	[G/T]	-	URR	-
CWSNP7094	Ca-Kabuli-Chr8	16028062	[G/A]	-	URR	-
CWSNP7095	Ca-Kabuli-Chr8	16028040	[A/G]	-	URR	-
CWSNP7096	Ca-Kabuli-Chr8	16076161	[C/G]	Ca15517	Non-Synonymous-CDS	Gamma-glutamyltranspeptidase
CWSNP7097	Ca-Kabuli-Chr8	16076168	[A/G]	Ca15517	Synonymous-CDS	Gamma-glutamyltranspeptidase
CWSNP7098	Ca-Kabuli-Chr8	16102414	[G/T]	-	Intergenic	-
CWSNP7099	Ca-Kabuli-Chr8	16144279	[T/A]	-	URR	-
CWSNP7100	Ca-Kabuli-Chr8	16145275	[A/G]	Ca15527	Intron	Domain of unknown function DUF292,eukaryotic
CWSNP7101	Ca-Kabuli-Chr8	16145411	[C/G]	Ca15527	Non-Synonymous-CDS	Domain of unknown function DUF292,eukaryotic
CWSNP7102	Ca-Kabuli-Chr8	16145370	[C/A]	Ca15527	Intron	Domain of unknown function DUF292,eukaryotic
CWSNP7103	Ca-Kabuli-Chr8	16264310	[G/T]	-	DRR	-
CWSNP7104	Ca-Kabuli-Chr8	16278758	[T/C]	-	URR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP7105	Ca-Kabuli-Chr8	16283660	[C/T]	-	URR	-
CWSNP7106	Ca-Kabuli-Chr8	16283661	[A/G]	-	URR	-
CWSNP7107	Ca-Kabuli-Chr8	16283722	[A/G]	-	URR	-
CWSNP7108	Ca-Kabuli-Chr8	16283738	[G/C]	-	URR	-
CWSNP7109	Ca-Kabuli-Chr8	16411550	[A/G]	Ca15562	Intron	-
CWSNP7110	Ca-Kabuli-Chr8	16421407	[G/A]	-	DRR	-
CWSNP7111	Ca-Kabuli-Chr8	16421441	[C/A]	Ca15563	Non-Synonymous-CDS	-
CWSNP7112	Ca-Kabuli-Chr8	16421442	[C/G]	Ca15563	Synonymous-CDS	-
CWSNP7113	Ca-Kabuli-Chr8	16421497	[C/T]	Ca15563	Non-Synonymous-CDS	-
CWSNP7114	Ca-Kabuli-Chr8	16421595	[A/C]	Ca15563	Synonymous-CDS	-
CWSNP7115	Ca-Kabuli-Chr8	16432907	[T/G]	Ca15563	Intron	-
CWSNP7116	Ca-Kabuli-Chr8	16472919	[T/A]	-	Intergenic	-
CWSNP7117	Ca-Kabuli-Chr8	16472932	[C/T]	-	Intergenic	-
CWSNP7118	Ca-Kabuli-Chr8	16472933	[G/C]	-	Intergenic	-
CWSNP7119	Ca-Kabuli-Chr8	16473139	[C/T]	-	Intergenic	-
CWSNP7120	Ca-Kabuli-Chr8	16473157	[C/T]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP7121	Ca-Kabuli-Chr8	16473290	[A/G]	-	Intergenic	-
CWSNP7122	scaffold1006	40651	[T/A]	-	Intergenic	-
CWSNP7123	scaffold1006	382579	[C/T]	-	URR	-
CWSNP7124	scaffold1006	436923	[T/C]	-	Intergenic	-
CWSNP7125	scaffold1006	644893	[A/C]	Ca18050	Non-Synonymous-CDS	CoA-binding
CWSNP7126	scaffold1006	667620	[A/G]	Ca18053	Intron	-
CWSNP7127	scaffold1006	667713	[G/A]	Ca18053	Intron	-
CWSNP7128	scaffold1006	674495	[A/G]	-	DRR	-
CWSNP7129	scaffold1006	674823	[G/A]	-	DRR	-
CWSNP7130	scaffold1006	674826	[C/T]	-	DRR	-
CWSNP7131	scaffold1006	674844	[T/C]	-	DRR	-
CWSNP7132	scaffold1006	674847	[T/G]	-	DRR	-
CWSNP7133	scaffold1006	674862	[G/A]	-	DRR	-
CWSNP7134	scaffold1006	674865	[T/C]	-	DRR	-
CWSNP7135	scaffold1006	674871	[A/G]	-	DRR	-
CWSNP7136	scaffold1006	674881	[G/A]	-	DRR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP7137	scaffold1010	90092	[G/A]	-	DRR	-
CWSNP7138	scaffold1013	56140	[G/A]	-	Intergenic	-
CWSNP7139	scaffold1013	56116	[C/T]	-	Intergenic	-
CWSNP7140	scaffold1013	56114	[C/A]	-	Intergenic	-
CWSNP7141	scaffold1013	56075	[T/A]	-	Intergenic	-
CWSNP7142	scaffold1013	56074	[C/T]	-	Intergenic	-
CWSNP7143	scaffold1013	56069	[C/T]	-	Intergenic	-
CWSNP7144	scaffold10186	410	[A/C]	-	Intergenic	-
CWSNP7145	scaffold10186	378	[A/T]	-	Intergenic	-
CWSNP7146	scaffold10186	397	[G/A]	-	Intergenic	-
CWSNP7147	scaffold10186	573	[T/G]	-	Intergenic	-
CWSNP7148	scaffold1027	256612	[A/C]	-	Intergenic	-
CWSNP7149	scaffold1034	73684	[G/A]	Ca27683	Non-Synonymous-CDS	-
CWSNP7150	scaffold10420	40193	[G/T]	-	URR	-
CWSNP7151	scaffold1043	16328	[A/T]	-	Intergenic	-
CWSNP7152	scaffold1043	16333	[A/T]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP7153	scaffold1047	235352	[T/C]	Ca17194	Intron	Engulfment/cellmotility,ELMO
CWSNP7154	scaffold1047	577874	[T/G]	-	Intergenic	-
CWSNP7155	scaffold1050	3415	[C/T]	Ca25913	Non-Synonymous-CDS	-
CWSNP7156	scaffold1050	3463	[C/T]	Ca25913	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP7157	scaffold1050	126986	[T/G]	Ca25916	Intron	Synaptojanin,N-terminal
CWSNP7158	scaffold1050	127022	[G/A]	Ca25916	Intron	Synaptojanin,N-terminal
CWSNP7159	scaffold1050	127023	[G/T]	Ca25916	Intron	Synaptojanin,N-terminal
CWSNP7160	scaffold1050	127054	[C/T]	Ca25916	Intron	Synaptojanin,N-terminal
CWSNP7161	scaffold1055	344459	[G/A]	-	Intergenic	-
CWSNP7162	scaffold1060	394867	[C/T]	Ca21793	Intron	Transposase,Ptta/En/Spm,plant
CWSNP7163	scaffold1060	395029	[C/T]	Ca21793	Intron	Transposase,Ptta/En/Spm,plant
CWSNP7164	scaffold1061	63613	[A/G]	-	Intergenic	-
CWSNP7165	scaffold1061	63620	[C/T]	-	Intergenic	-
CWSNP7166	scaffold1065	142678	[A/C]	-	Intergenic	-
CWSNP7167	scaffold1089	1154	[C/A]	-	Intergenic	-
CWSNP7168	scaffold1089	1240	[T/G]	Ca24272	Non-Synonymous-CDS	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP7169	scaffold1089	1281	[G/A]	Ca24272	Non-Synonymous-CDS	-
CWSNP7170	scaffold1089	3160	[C/A]	-	Intergenic	-
CWSNP7171	scaffold1089	3236	[T/G]	-	Intergenic	-
CWSNP7172	scaffold1089	3249	[T/G]	-	Intergenic	-
CWSNP7173	scaffold1089	3248	[C/T]	-	Intergenic	-
CWSNP7174	scaffold1089	3240	[G/C]	-	Intergenic	-
CWSNP7175	scaffold1089	3228	[C/T]	-	Intergenic	-
CWSNP7176	scaffold1089	3191	[G/A]	-	Intergenic	-
CWSNP7177	scaffold109_1	156485	[C/T]	Ca11572	Intron	MembraneboundO-acyltransferase,MBOAT
CWSNP7178	scaffold109_1	328757	[C/T]	Ca11580	Non-Synonymous-CDS	-
CWSNP7179	scaffold109_1	385653	[C/T]	-	DRR	-
CWSNP7180	scaffold109_1	696869	[A/C]	Ca11606	Intron	TetratricopeptideTPR-1
CWSNP7181	scaffold109_1	741607	[G/A]	Ca11609	Synonymous-CDS	uDENN
CWSNP7182	scaffold1109	150672	[G/A]	Ca25534	Non-Synonymous-CDS	-
CWSNP7183	scaffold1109	150720	[G/A]	Ca25534	Non-Synonymous-CDS	-
CWSNP7184	scaffold1109	150676	[C/T]	Ca25534	Non-Synonymous-CDS	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP7185	scaffold1115	153349	[T/C]	-	DRR	-
CWSNP7186	scaffold1118	2215	[T/C]	-	Intergenic	-
CWSNP7187	scaffold1118	2224	[T/A]	-	Intergenic	-
CWSNP7188	scaffold1118	2225	[C/T]	-	Intergenic	-
CWSNP7189	scaffold1118	2226	[T/G]	-	Intergenic	-
CWSNP7190	scaffold1118	2315	[T/C]	-	Intergenic	-
CWSNP7191	scaffold1118	9568	[A/G]	Ca27404	Intron	Inositol polyphosphate-related phosphatase
CWSNP7192	scaffold1118	9556	[C/T]	Ca27404	Intron	-
CWSNP7193	scaffold1128	94196	[T/A]	Ca23728	Intron	ABC transporter-like
CWSNP7194	scaffold1128	112702	[G/A]	-	Intergenic	-
CWSNP7195	scaffold1128	341416	[T/A]	-	Intergenic	-
CWSNP7196	scaffold1128	360567	[T/A]	-	Intergenic	-
CWSNP7197	scaffold1128	360529	[A/C]	-	Intergenic	-
CWSNP7198	scaffold1128	423553	[A/G]	-	Intergenic	-
CWSNP7199	scaffold1132	26497	[C/T]	-	Intergenic	-
CWSNP7200	scaffold1132	26492	[G/A]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP7201	scaffold1151	228312	[C/G]	-	Intergenic	-
CWSNP7202	scaffold1151	228304	[A/T]	-	Intergenic	-
CWSNP7203	scaffold1151	228291	[C/T]	-	Intergenic	-
CWSNP7204	scaffold1176_2	52146	[T/C]	-	Intergenic	-
CWSNP7205	scaffold1176_2	52142	[G/T]	-	Intergenic	-
CWSNP7206	scaffold1176_2	52125	[C/T]	-	Intergenic	-
CWSNP7207	scaffold1176_2	52124	[C/T]	-	Intergenic	-
CWSNP7208	scaffold1176_2	330840	[C/A]	-	Intergenic	-
CWSNP7209	scaffold118	206562	[A/G]	Ca22950	Non-Synonymous-CDS	-
CWSNP7210	scaffold118	303784	[A/C]	Ca22952	Intron	Sulfatase
CWSNP7211	scaffold118	332673	[T/C]	-	URR	-
CWSNP7212	scaffold1180	114508	[C/A]	Ca25739	Synonymous-CDS	Staphylococcal nuclease (SNase-like)
CWSNP7213	scaffold1185	944	[G/A]	-	Intergenic	-
CWSNP7214	scaffold1185	1110	[G/A]	-	Intergenic	-
CWSNP7215	scaffold1185	1134	[T/A]	-	Intergenic	-
CWSNP7216	scaffold1185	1098	[T/C]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP7217	scaffold119	12259	[A/G]	-	Intergenic	-
CWSNP7218	scaffold119	12263	[C/A]	-	Intergenic	-
CWSNP7219	scaffold119	12279	[G/A]	-	Intergenic	-
CWSNP7220	scaffold1196	70506	[G/A]	-	Intergenic	-
CWSNP7221	scaffold1196	70552	[A/C]	-	Intergenic	-
CWSNP7222	scaffold1196	70549	[G/A]	-	Intergenic	-
CWSNP7223	scaffold1196	70547	[G/C]	-	Intergenic	-
CWSNP7224	scaffold1196	70535	[G/A]	-	Intergenic	-
CWSNP7225	scaffold1196	70526	[T/C]	-	Intergenic	-
CWSNP7226	scaffold1197	344239	[A/C]	-	Intergenic	-
CWSNP7227	scaffold1197	407641	[G/A]	Ca24073	Synonymous-CDS	TGS
CWSNP7228	scaffold1197	407658	[C/G]	Ca24073	Non-Synonymous-CDS	TGS
CWSNP7229	scaffold1197	407691	[T/C]	Ca24073	Non-Synonymous-CDS	TGS
CWSNP7230	scaffold1197	407695	[T/C]	Ca24073	Synonymous-CDS	TGS
CWSNP7231	scaffold1197	447890	[C/T]	-	DRR	-
CWSNP7232	scaffold1197	520164	[T/A]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP7233	scaffold1197	520153	[C/G]	-	Intergenic	-
CWSNP7234	scaffold1197	520148	[A/T]	-	Intergenic	-
CWSNP7235	scaffold12	200573	[G/C]	-	Intergenic	-
CWSNP7236	scaffold12	331890	[A/G]	-	URR	-
CWSNP7237	scaffold12	332909	[C/T]	-	URR	-
CWSNP7238	scaffold12	332921	[G/A]	-	URR	-
CWSNP7239	scaffold12	332963	[C/T]	-	URR	-
CWSNP7240	scaffold1202	46904	[C/T]	Ca24659	Intron	CDP-alcoholphosphatidyltransferase
CWSNP7241	scaffold1215	40741	[G/T]	Ca28164	Synonymous-CDS	PeptidaseS8/S53,subtilisin/kexin/sedolisin
CWSNP7242	scaffold1215	40793	[A/G]	Ca28164	Synonymous-CDS	PeptidaseS8/S53,subtilisin/kexin/sedolisin
CWSNP7243	scaffold1215	40797	[A/T]	Ca28164	Non-Synonymous-CDS	PeptidaseS8/S53,subtilisin/kexin/sedolisin
CWSNP7244	scaffold1215	40817	[G/A]	Ca28164	Non-Synonymous-CDS	PeptidaseS8/S53,subtilisin/kexin/sedolisin
CWSNP7245	scaffold1215	40814	[A/T]	Ca28164	Non-Synonymous-CDS	PeptidaseS8/S53,subtilisin/kexin/sedolisin
CWSNP7246	scaffold1219	34791	[G/A]	-	Intergenic	-
CWSNP7247	scaffold1219	85015	[A/C]	-	Intergenic	-
CWSNP7248	scaffold1259	71428	[C/T]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP7249	scaffold1259	71649	[C/T]	-	Intergenic	-
CWSNP7250	scaffold127	28809	[A/T]	-	Intergenic	-
CWSNP7251	scaffold127	28776	[T/G]	-	Intergenic	-
CWSNP7252	scaffold127	28772	[G/A]	-	Intergenic	-
CWSNP7253	scaffold1272	57303	[C/A]	Ca26853	Intron	Glycosyltransferase, family20
CWSNP7254	scaffold128	52855	[G/C]	-	Intergenic	-
CWSNP7255	scaffold128	52844	[A/T]	-	Intergenic	-
CWSNP7256	scaffold128	263586	[T/A]	-	Intergenic	-
CWSNP7257	scaffold128	263572	[T/A]	-	Intergenic	-
CWSNP7258	scaffold128	334180	[G/T]	-	Intergenic	-
CWSNP7259	scaffold128	334129	[G/A]	-	Intergenic	-
CWSNP7260	scaffold128	593782	[T/C]	-	Intergenic	-
CWSNP7261	scaffold128	860975	[G/A]	Ca21452	Intron	Helicase, C-terminal
CWSNP7262	scaffold128	860981	[T/A]	Ca21452	Intron	Helicase, C-terminal
CWSNP7263	scaffold128	860983	[A/T]	Ca21452	Intron	Helicase, C-terminal
CWSNP7264	scaffold128	860987	[C/T]	Ca21452	Intron	Helicase, C-terminal

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP7265	scaffold128	861003	[C/A]	Ca21452	Intron	Helicase,C-terminal
CWSNP7266	scaffold128	861010	[C/T]	Ca21452	Intron	Helicase,C-terminal
CWSNP7267	scaffold128	861022	[T/C]	Ca21452	Intron	Helicase,C-terminal
CWSNP7268	scaffold128	861028	[T/C]	Ca21452	Intron	Helicase,C-terminal
CWSNP7269	scaffold128	861053	[G/A]	Ca21452	Intron	Helicase,C-terminal
CWSNP7270	scaffold128	861015	[C/T]	Ca21452	Intron	Helicase,C-terminal
CWSNP7271	scaffold1281	244153	[A/C]	Ca21517	Synonymous-CDS	Protein kinase, catalytic domain
CWSNP7272	scaffold1281	316037	[A/G]	-	URR	-
CWSNP7273	scaffold1281	398729	[T/G]	Ca21525	Non-Synonymous-CDS	Armadillo
CWSNP7274	scaffold1281	526446	[C/T]	-	Intergenic	-
CWSNP7275	scaffold1281	526442	[T/C]	-	Intergenic	-
CWSNP7276	scaffold1281	527012	[C/T]	-	Intergenic	-
CWSNP7277	scaffold1281	527008	[T/C]	-	Intergenic	-
CWSNP7278	scaffold1285	68330	[G/A]	Ca24805	Intron	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP7279	scaffold1285	68327	[G/T]	Ca24805	Intron	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP7280	scaffold1285	68324	[T/C]	Ca24805	Intron	PeptidaseC48,SUMO/Sentrin/Ubl1

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP7281	scaffold1285	68311	[G/A]	Ca24805	Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP7282	scaffold1285	96310	[A/C]	-	Intergenic	-
CWSNP7283	scaffold1285	96358	[T/C]	-	Intergenic	-
CWSNP7284	scaffold1285	96429	[C/T]	-	Intergenic	-
CWSNP7285	scaffold1285	96428	[G/A]	-	Intergenic	-
CWSNP7286	scaffold1285	96414	[C/T]	-	Intergenic	-
CWSNP7287	scaffold1285	96411	[G/A]	-	Intergenic	-
CWSNP7288	scaffold1285	96409	[C/T]	-	Intergenic	-
CWSNP7289	scaffold1285	96399	[C/T]	-	Intergenic	-
CWSNP7290	scaffold1285	105553	[T/C]	-	Intergenic	-
CWSNP7291	scaffold1285	105507	[A/T]	-	Intergenic	-
CWSNP7292	scaffold1285	105504	[G/A]	-	Intergenic	-
CWSNP7293	scaffold1285	192068	[T/G]	-	Intergenic	-
CWSNP7294	scaffold1285	240762	[C/T]	Ca24811	Intron	-
CWSNP7295	scaffold1285	240735	[G/A]	Ca24811	Intron	-
CWSNP7296	scaffold1285	240730	[T/C]	Ca24811	Intron	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP7297	scaffold1285	240723	[C/T]	Ca24811	Intron	-
CWSNP7298	scaffold1301_1	45565	[A/C]	Ca11165	Synonymous-CDS	-
CWSNP7299	scaffold1301_1	45566	[G/A]	Ca11165	Synonymous-CDS	-
CWSNP7300	scaffold1301_1	58243	[A/G]	-	Intergenic	-
CWSNP7301	scaffold1301_1	154342	[A/C]	-	Intergenic	-
CWSNP7302	scaffold1308	44260	[A/G]	-	Intergenic	-
CWSNP7303	scaffold1309	49259	[G/A]	Ca26762	Synonymous-CDS	Transposase,Ptta/En/Spm,plant
CWSNP7304	scaffold1312	98400	[T/C]	-	Intergenic	-
CWSNP7305	scaffold1313	18173	[A/G]	Ca25873	Intron	Homeobox
CWSNP7306	scaffold1315	115471	[G/A]	-	Intergenic	-
CWSNP7307	scaffold1315	115446	[C/A]	-	Intergenic	-
CWSNP7308	scaffold132	153364	[A/G]	-	Intergenic	-
CWSNP7309	scaffold132	153361	[A/G]	-	Intergenic	-
CWSNP7310	scaffold1324	228151	[G/A]	Ca19765	Synonymous-CDS	-
CWSNP7311	scaffold1324	228159	[A/C]	Ca19765	Non-Synonymous-CDS	-
CWSNP7312	scaffold1324	262208	[C/G]	Ca19766	Non-Synonymous-CDS	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP7313	scaffold134	218352	[T/G]	Ca22581	Non-Synonymous-CDS	SET domain
CWSNP7314	scaffold134	218336	[T/G]	Ca22581	Non-Synonymous-CDS	SET domain
CWSNP7315	scaffold134	223318	[C/T]	Ca22581	Intron	SET domain
CWSNP7316	scaffold1348_1	134572	[G/A]	-	Intergenic	-
CWSNP7317	scaffold1348_1	380225	[T/G]	Ca08725	Synonymous-CDS	PeptidaseS8/S53,subtilisin/kexin/sedolisin
CWSNP7318	scaffold1348_1	452011	[G/T]	Ca08730	Non-Synonymous-CDS	Glucose-methanol-cholineoxidoreductase,N-terminal
CWSNP7319	scaffold1348_1	454342	[G/T]	-	URR	-
CWSNP7320	scaffold1348_1	535984	[G/T]	Ca08741	Non-Synonymous-CDS	IQ motif, EF-hand binding site
CWSNP7321	scaffold1348_1	553863	[G/T]	-	DRR	-
CWSNP7322	scaffold1348_1	554134	[A/G]	-	DRR	-
CWSNP7323	scaffold1348_1	652067	[A/G]	Ca08753	Non-Synonymous-CDS	PeptidaseS8/S53,subtilisin/kexin/sedolisin
CWSNP7324	scaffold1348_1	667541	[A/C]	Ca08754	Synonymous-CDS	PeptidaseS8/S53,subtilisin/kexin/sedolisin
CWSNP7325	scaffold1348_1	732450	[A/C]	Ca08761	Synonymous-CDS	Forkhead-associated (FHA) domain
CWSNP7326	scaffold1348_1	732454	[T/G]	Ca08761	Intron	Forkhead-associated (FHA) domain
CWSNP7327	scaffold1348_1	732460	[T/A]	Ca08761	Intron	Forkhead-associated (FHA) domain
CWSNP7328	scaffold1348_1	732496	[G/T]	Ca08761	Intron	Forkhead-associated (FHA) domain

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP7329	scaffold1348_1	750213	[C/A]	Ca08762	Intron	COGcomplexcomponent,COG2
CWSNP7330	scaffold1348_1	909909	[A/G]	-	DRR	-
CWSNP7331	scaffold1348_1	959608	[A/C]	Ca08787	Non-Synonymous-CDS	Transcription factor jumonji/aspartyl beta-hydroxylase
CWSNP7332	scaffold1348_1	959828	[G/A]	Ca08787	Synonymous-CDS	Transcription factor jumonji/aspartyl beta-hydroxylase
CWSNP7333	scaffold1348_1	1066818	[A/C]	Ca08793	Intron	Peptidase,cysteinepeptidaseactivesite
CWSNP7334	scaffold1348_1	1072750	[C/T]	Ca08794	Synonymous-CDS	WD40 repeat
CWSNP7335	scaffold1348_1	1265627	[T/C]	Ca08816	Synonymous-CDS	Protein kinase, catalytic domain
CWSNP7336	scaffold1348_1	1265635	[T/G]	Ca08816	Non-Synonymous-CDS	Protein kinase, catalytic domain
CWSNP7337	scaffold1348_1	1273341	[G/A]	-	Intergenic	-
CWSNP7338	scaffold1348_1	1288448	[A/G]	Ca08820	Intron	RNA helicase, ATP-dependent, DEAD-box,conserved site
CWSNP7339	scaffold1348_1	1296453	[G/A]	-	DRR	-
CWSNP7340	scaffold1348_1	1330288	[A/G]	-	DRR	-
CWSNP7341	scaffold1348_1	1330400	[A/G]	-	DRR	-
CWSNP7342	scaffold1348_1	1403480	[A/G]	-	DRR	-
CWSNP7343	scaffold1351	177159	[G/A]	-	Intergenic	-
CWSNP7344	scaffold1351	177172	[G/A]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP7345	scaffold1351	177178	[T/C]	-	Intergenic	-
CWSNP7346	scaffold1351	177171	[T/G]	-	Intergenic	-
CWSNP7347	scaffold1351	177193	[T/C]	-	Intergenic	-
CWSNP7348	scaffold1351	177256	[T/G]	-	Intergenic	-
CWSNP7349	scaffold1351	177248	[G/T]	-	Intergenic	-
CWSNP7350	scaffold1351	177247	[G/A]	-	Intergenic	-
CWSNP7351	scaffold1351	177242	[G/A]	-	Intergenic	-
CWSNP7352	scaffold1351	177241	[T/G]	-	Intergenic	-
CWSNP7353	scaffold1351	177240	[C/A]	-	Intergenic	-
CWSNP7354	scaffold1351	177235	[G/T]	-	Intergenic	-
CWSNP7355	scaffold1351	177234	[A/C]	-	Intergenic	-
CWSNP7356	scaffold1351	177210	[T/A]	-	Intergenic	-
CWSNP7357	scaffold1351	177200	[T/G]	-	Intergenic	-
CWSNP7358	scaffold1351	177191	[C/T]	-	Intergenic	-
CWSNP7359	scaffold1351	177188	[G/T]	-	Intergenic	-
CWSNP7360	scaffold1351	204656	[C/A]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP7361	scaffold1351	335227	[T/C]	Ca22005	Synonymous-CDS	-
CWSNP7362	scaffold1351	335239	[G/T]	Ca22005	Non-Synonymous-CDS	-
CWSNP7363	scaffold1351	367576	[A/G]	-	Intergenic	-
CWSNP7364	scaffold1351	367578	[G/A]	-	Intergenic	-
CWSNP7365	scaffold1351	367745	[G/A]	-	Intergenic	-
CWSNP7366	scaffold1369	8115	[T/G]	-	Intergenic	-
CWSNP7367	scaffold1369	8154	[T/G]	-	Intergenic	-
CWSNP7368	scaffold1369	8221	[T/G]	-	Intergenic	-
CWSNP7369	scaffold1369	31000	[A/G]	-	Intergenic	-
CWSNP7370	scaffold1390	98354	[A/G]	-	Intergenic	-
CWSNP7371	scaffold1417	4906	[G/A]	Ca25454	Non-Synonymous-CDS	-
CWSNP7372	scaffold1417	4917	[G/T]	Ca25454	Non-Synonymous-CDS	-
CWSNP7373	scaffold1417	76627	[A/C]	-	Intergenic	-
CWSNP7374	scaffold1417	230210	[T/G]	-	Intergenic	-
CWSNP7375	scaffold1419	24845	[C/T]	-	DRR	-
CWSNP7376	scaffold143	18492	[A/G]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP7377	scaffold1439	242972	[A/G]	Ca23658	Synonymous-CDS	-
CWSNP7378	scaffold1448	47306	[A/G]	Ca26687	Intron	Importin-beta,N-terminal
CWSNP7379	scaffold1448	74436	[C/T]	Ca26687	Intron	Importin-beta,N-terminal
CWSNP7380	scaffold1448	74434	[C/T]	Ca26687	Intron	Importin-beta,N-terminal
CWSNP7381	scaffold1448	74529	[C/T]	Ca26687	Intron	Importin-beta,N-terminal
CWSNP7382	scaffold1448	76809	[G/A]	Ca26687	Intron	Importin-beta,N-terminal
CWSNP7383	scaffold1449	55474	[T/G]	Ca28129	Synonymous-CDS	-
CWSNP7384	scaffold1449	55532	[G/A]	Ca28129	Non-Synonymous-CDS	-
CWSNP7385	scaffold1452	3501	[C/A]	-	Intergenic	-
CWSNP7386	scaffold1452	3496	[A/T]	-	Intergenic	-
CWSNP7387	scaffold1452	3495	[C/A]	-	Intergenic	-
CWSNP7388	scaffold1452	3737	[C/A]	-	Intergenic	-
CWSNP7389	scaffold1462	1556	[T/G]	Ca28230	Intron	Protein kinase, catalytic domain
CWSNP7390	scaffold1466	90846	[C/A]	-	Intergenic	-
CWSNP7391	scaffold1466	322287	[G/A]	-	Intergenic	-
CWSNP7392	scaffold1466	322315	[G/T]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP7393	scaffold1466	322450	[G/T]	-	Intergenic	-
CWSNP7394	scaffold1466	322448	[T/G]	-	Intergenic	-
CWSNP7395	scaffold1466	322415	[G/A]	-	Intergenic	-
CWSNP7396	scaffold1466	322414	[G/A]	-	Intergenic	-
CWSNP7397	scaffold1466	322400	[C/T]	-	Intergenic	-
CWSNP7398	scaffold1466	322390	[G/A]	-	Intergenic	-
CWSNP7399	scaffold1466	322383	[C/T]	-	Intergenic	-
CWSNP7400	scaffold1467	205803	[C/T]	-	DRR	-
CWSNP7401	scaffold1467	205833	[G/A]	-	DRR	-
CWSNP7402	scaffold1467	205845	[A/G]	-	DRR	-
CWSNP7403	scaffold1467	206121	[G/A]	-	DRR	-
CWSNP7404	scaffold1467	206118	[C/T]	-	DRR	-
CWSNP7405	scaffold1467	206100	[G/A]	-	DRR	-
CWSNP7406	scaffold1467	206094	[T/C]	-	DRR	-
CWSNP7407	scaffold1467	206085	[T/C]	-	DRR	-
CWSNP7408	scaffold1467	206067	[T/G]	-	DRR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP7409	scaffold1475	4820	[G/A]	-	Intergenic	-
CWSNP7410	scaffold1475	4796	[C/T]	-	Intergenic	-
CWSNP7411	scaffold1475	4794	[C/A]	-	Intergenic	-
CWSNP7412	scaffold1475	4755	[T/A]	-	Intergenic	-
CWSNP7413	scaffold1475	4754	[C/T]	-	Intergenic	-
CWSNP7414	scaffold1475	4749	[C/T]	-	Intergenic	-
CWSNP7415	scaffold1475	4845	[A/T]	-	Intergenic	-
CWSNP7416	scaffold1483	56686	[A/T]	-	DRR	-
CWSNP7417	scaffold1493	81740	[C/T]	Ca26514	Intron	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP7418	scaffold1493	81784	[C/A]	Ca26514	Intron	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP7419	scaffold1493	81789	[G/A]	Ca26514	Intron	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP7420	scaffold1496	289997	[G/T]	-	Intergenic	-
CWSNP7421	scaffold1496	290018	[C/A]	-	Intergenic	-
CWSNP7422	scaffold1498	3474	[A/C]	Ca28063	Synonymous-CDS	Multiantimicrobial extrusion protein
CWSNP7423	scaffold1498	3641	[T/C]	Ca28063	Intron	Multiantimicrobial extrusion protein
CWSNP7424	scaffold1504	160623	[G/T]	Ca24092	Synonymous-CDS	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP7425	scaffold1504	189700	[A/G]	-	Intergenic	-
CWSNP7426	scaffold1504	189699	[C/T]	-	Intergenic	-
CWSNP7427	scaffold1504	189681	[C/T]	-	Intergenic	-
CWSNP7428	scaffold1504	189664	[G/A]	-	Intergenic	-
CWSNP7429	scaffold1504	189663	[G/A]	-	Intergenic	-
CWSNP7430	scaffold1504	197789	[G/A]	-	Intergenic	-
CWSNP7431	scaffold1504	197790	[G/A]	-	Intergenic	-
CWSNP7432	scaffold1504	197819	[T/G]	-	Intergenic	-
CWSNP7433	scaffold1505	33297	[A/C]	Ca28120	Synonymous-CDS	-
CWSNP7434	scaffold151	267060	[T/G]	Ca25631	Synonymous-CDS	LETM1-like
CWSNP7435	scaffold151	275743	[T/A]	Ca25631	Non-Synonymous-CDS	LETM1-like
CWSNP7436	scaffold1521	20779	[T/C]	-	Intergenic	-
CWSNP7437	scaffold1545	111476	[G/A]	Ca23856	Non-Synonymous-CDS	Phosphoenol pyruvatecarboxylase,active site
CWSNP7438	scaffold1553	5115	[C/T]	Ca27877	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP7439	scaffold157	100228	[A/G]	Ca21065	Synonymous-CDS	RNA recognition motif domain
CWSNP7440	scaffold157	100529	[T/C]	Ca21065	Non-Synonymous-CDS	RNA recognition motif domain

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP7441	scaffold157	106331	[G/A]	Ca21065	Intron	RNA recognition motif domain
CWSNP7442	scaffold157	106349	[C/T]	Ca21065	Intron	RNA recognition motif domain
CWSNP7443	scaffold157	151081	[G/A]	Ca21070	Non-Synonymous-CDS	Zinc finger,DHHC-type,palmitoyltransferase
CWSNP7444	scaffold157	151199	[T/A]	Ca21070	Intron	Zinc finger,DHHC-type,palmitoyltransferase
CWSNP7445	scaffold157	151192	[T/C]	Ca21070	Intron	Zinc finger,DHHC-type,palmitoyltransferase
CWSNP7446	scaffold157	151177	[A/G]	Ca21070	Intron	Zinc finger,DHHC-type,palmitoyltransferase
CWSNP7447	scaffold157	151131	[T/A]	Ca21070	Synonymous-CDS	Zinc finger,DHHC-type,palmitoyltransferase
CWSNP7448	scaffold157	213380	[C/G]	Ca21071	Non-Synonymous-CDS	Mitochondrial substrate/solute carrier
CWSNP7449	scaffold157	213398	[T/G]	Ca21071	Non-Synonymous-CDS	Mitochondrial substrate/solute carrier
CWSNP7450	scaffold157	213404	[T/G]	Ca21071	Synonymous-CDS	Mitochondrial substrate/solute carrier
CWSNP7451	scaffold157	213518	[T/C]	Ca21071	Intron	Mitochondrial substrate/solute carrier
CWSNP7452	scaffold157	213487	[G/C]	Ca21071	Intron	Mitochondrial substrate/solute carrier
CWSNP7453	scaffold157	213477	[G/A]	Ca21071	Intron	Mitochondrial substrate/solute carrier
CWSNP7454	scaffold157	229917	[G/A]	-	Intergenic	-
CWSNP7455	scaffold157	229900	[G/A]	-	Intergenic	-
CWSNP7456	scaffold157	321386	[C/T]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP7457	scaffold157	326434	[A/G]	Ca21078	Intron	Protein of unknown function DUF3755
CWSNP7458	scaffold157	326467	[C/T]	Ca21078	Intron	Protein of unknown function DUF3755
CWSNP7459	scaffold157	326494	[A/G]	Ca21078	Intron	Protein of unknown function DUF3755
CWSNP7460	scaffold157	326497	[A/G]	Ca21078	Intron	Protein of unknown function DUF3755
CWSNP7461	scaffold157	352687	[C/T]	Ca21079	Intron	DEPdomain
CWSNP7462	scaffold157	352712	[G/A]	Ca21079	Intron	DEPdomain
CWSNP7463	scaffold157	352747	[T/C]	Ca21079	Intron	DEPdomain
CWSNP7464	scaffold157	355222	[G/A]	Ca21079	Intron	DEPdomain
CWSNP7465	scaffold157	469198	[A/C]	-	Intergenic	-
CWSNP7466	scaffold157	535057	[T/G]	-	Intergenic	-
CWSNP7467	scaffold1575	2230	[C/T]	-	Intergenic	-
CWSNP7468	scaffold1580	71861	[G/T]	-	Intergenic	-
CWSNP7469	scaffold1603	11828	[C/G]	-	Intergenic	-
CWSNP7470	scaffold1613	48917	[T/G]	Ca27472	Intron	Protein kinase, catalytic domain
CWSNP7471	scaffold1613	107750	[T/A]	Ca27474	Non-Synonymous-CDS	Photosyntheticreactioncentre,L/M
CWSNP7472	scaffold1635	83227	[G/C]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP7473	scaffold1635	83345	[A/T]	-	Intergenic	-
CWSNP7474	scaffold1654	26432	[G/A]	-	Intergenic	-
CWSNP7475	scaffold1659	303945	[T/G]	-	Intergenic	-
CWSNP7476	scaffold1661	70434	[A/G]	-	Intergenic	-
CWSNP7477	scaffold1664	94984	[A/T]	-	Intergenic	-
CWSNP7478	scaffold167	11018	[T/A]	-	Intergenic	-
CWSNP7479	scaffold167	11009	[A/T]	-	Intergenic	-
CWSNP7480	scaffold167	137869	[C/T]	-	Intergenic	-
CWSNP7481	scaffold167	137848	[A/G]	-	Intergenic	-
CWSNP7482	scaffold167	239687	[G/A]	-	Intergenic	-
CWSNP7483	scaffold1687	82935	[A/C]	Ca26679	Synonymous-CDS	Plant lipidtransfer protein/Parallergen
CWSNP7484	scaffold1699	27556	[A/C]	-	Intergenic	-
CWSNP7485	scaffold1699	27607	[T/G]	-	Intergenic	-
CWSNP7486	scaffold171	96763	[T/C]	Ca25945	Synonymous-CDS	-
CWSNP7487	scaffold171	183718	[T/C]	Ca25948	Intron	Short-chain dehydrogenase/reductaseSDR
CWSNP7488	scaffold171	183720	[C/T]	Ca25948	Intron	Short-chain dehydrogenase/reductaseSDR

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP7489	scaffold171	183721	[G/A]	Ca25948	Intron	Short-chain dehydrogenase/reductaseSDR
CWSNP7490	scaffold171	183727	[C/T]	Ca25948	Intron	Short-chain dehydrogenase/reductaseSDR
CWSNP7491	scaffold171	183759	[T/C]	Ca25948	Intron	Short-chain dehydrogenase/reductaseSDR
CWSNP7492	scaffold171	186125	[C/A]	Ca25948	Non-Synonymous-CDS	Short-chain dehydrogenase/reductaseSDR
CWSNP7493	scaffold171	208050	[A/G]	-	Intergenic	-
CWSNP7494	scaffold171	209964	[G/T]	-	Intergenic	-
CWSNP7495	scaffold1718	302	[G/A]	-	Intergenic	-
CWSNP7496	scaffold1718	295	[G/A]	-	Intergenic	-
CWSNP7497	scaffold1718	268	[C/G]	-	Intergenic	-
CWSNP7498	scaffold1718	3898	[G/C]	-	Intergenic	-
CWSNP7499	scaffold1718	21521	[A/G]	Ca27100	Intron	Protein kinase, catalytic domain
CWSNP7500	scaffold1718	40669	[T/C]	-	Intergenic	-
CWSNP7501	scaffold1722	65999	[C/A]	Ca26630	Intron	Ribulose-phosphate3-epimerase
CWSNP7502	scaffold1722	135589	[C/T]	-	Intergenic	-
CWSNP7503	scaffold1728	33301	[A/C]	-	Intergenic	-
CWSNP7504	scaffold174	44014	[T/G]	-	URR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP7505	scaffold174	61454	[T/C]	Ca21706	Non-Synonymous-CDS	Protein kinase, catalytic domain
CWSNP7506	scaffold174	263899	[G/A]	Ca21715	Non-Synonymous-CDS	RNA polymerase,alpha subunit
CWSNP7507	scaffold174	335077	[C/T]	Ca21719	Intron	RNA polymerase,alpha subunit
CWSNP7508	scaffold174	341322	[C/T]	Ca21719	Intron	RNA polymerase,alpha subunit
CWSNP7509	scaffold174	457627	[G/A]	Ca21723	Intron	-
CWSNP7510	scaffold1750	15510	[C/T]	Ca24921	Synonymous-CDS	UBA/THIF-typeNAD/FAD binding fold
CWSNP7511	scaffold1751	192417	[C/A]	-	Intergenic	-
CWSNP7512	scaffold1751	192713	[G/T]	-	Intergenic	-
CWSNP7513	scaffold1751	193013	[T/G]	-	Intergenic	-
CWSNP7514	scaffold1751	266583	[G/A]	-	Intergenic	-
CWSNP7515	scaffold1751	496626	[G/A]	Ca23938	Non-Synonymous-CDS	-
CWSNP7516	scaffold1751	528896	[A/C]	-	Intergenic	-
CWSNP7517	scaffold1751	528979	[T/C]	-	Intergenic	-
CWSNP7518	scaffold1751	625362	[C/T]	-	Intergenic	-
CWSNP7519	scaffold1751	625355	[C/T]	-	Intergenic	-
CWSNP7520	scaffold1751	625342	[C/T]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP7521	scaffold1751	625335	[G/A]	-	Intergenic	-
CWSNP7522	scaffold1751	625395	[A/G]	-	Intergenic	-
CWSNP7523	scaffold1751	625394	[C/T]	-	Intergenic	-
CWSNP7524	scaffold1751	625389	[A/C]	-	Intergenic	-
CWSNP7525	scaffold1751	625378	[G/A]	-	Intergenic	-
CWSNP7526	scaffold1751	625375	[G/A]	-	Intergenic	-
CWSNP7527	scaffold1751	625366	[T/C]	-	Intergenic	-
CWSNP7528	scaffold1751	625365	[T/C]	-	Intergenic	-
CWSNP7529	scaffold1751	625332	[A/C]	-	Intergenic	-
CWSNP7530	scaffold1751	625396	[G/A]	-	Intergenic	-
CWSNP7531	scaffold1777	164730	[T/G]	-	Intergenic	-
CWSNP7532	scaffold1777	169037	[G/T]	-	Intergenic	-
CWSNP7533	scaffold1777	343173	[C/T]	-	Intergenic	-
CWSNP7534	scaffold1777	343185	[G/A]	-	Intergenic	-
CWSNP7535	scaffold1777	448166	[A/G]	-	Intergenic	-
CWSNP7536	scaffold1777	448176	[C/T]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP7537	scaffold1777	448187	[G/T]	-	Intergenic	-
CWSNP7538	scaffold1777	448216	[C/T]	-	Intergenic	-
CWSNP7539	scaffold1779	957	[G/A]	-	DRR	-
CWSNP7540	scaffold1779	890	[G/A]	-	DRR	-
CWSNP7541	scaffold1802	17068	[A/G]	-	Intergenic	-
CWSNP7542	scaffold1802	17033	[A/G]	-	Intergenic	-
CWSNP7543	scaffold1802	17111	[C/T]	-	Intergenic	-
CWSNP7544	scaffold1802	17117	[T/C]	-	Intergenic	-
CWSNP7545	scaffold1802	17120	[C/T]	-	Intergenic	-
CWSNP7546	scaffold1802	17123	[G/T]	-	Intergenic	-
CWSNP7547	scaffold1802	17132	[C/T]	-	Intergenic	-
CWSNP7548	scaffold1802	17150	[T/C]	-	Intergenic	-
CWSNP7549	scaffold1802	17151	[T/C]	-	Intergenic	-
CWSNP7550	scaffold1802	17177	[T/A]	-	Intergenic	-
CWSNP7551	scaffold1835	9398	[C/A]	-	Intergenic	-
CWSNP7552	scaffold1835	10541	[C/G]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP7553	scaffold1835	10563	[T/C]	-	Intergenic	-
CWSNP7554	scaffold1844	41899	[C/A]	-	DRR	-
CWSNP7555	scaffold1845	16292	[C/G]	-	Intergenic	-
CWSNP7556	scaffold1845	16317	[C/G]	-	Intergenic	-
CWSNP7557	scaffold1845	40886	[T/A]	-	Intergenic	-
CWSNP7558	scaffold1845	40872	[T/G]	-	Intergenic	-
CWSNP7559	scaffold1845	40871	[T/A]	-	Intergenic	-
CWSNP7560	scaffold1845	40842	[T/G]	-	Intergenic	-
CWSNP7561	scaffold1845	40821	[T/G]	-	Intergenic	-
CWSNP7562	scaffold1848	583	[A/G]	-	Intergenic	-
CWSNP7563	scaffold1848	565	[T/C]	-	Intergenic	-
CWSNP7564	scaffold1848	562	[G/C]	-	Intergenic	-
CWSNP7565	scaffold1848	532	[G/C]	-	Intergenic	-
CWSNP7566	scaffold186	11965	[A/G]	-	Intergenic	-
CWSNP7567	scaffold186	279942	[A/G]	-	Intergenic	-
CWSNP7568	scaffold186	280062	[T/C]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP7569	scaffold186	280047	[A/G]	-	Intergenic	-
CWSNP7570	scaffold186	280023	[C/T]	-	Intergenic	-
CWSNP7571	scaffold186	280015	[T/C]	-	Intergenic	-
CWSNP7572	scaffold186	280009	[G/T]	-	Intergenic	-
CWSNP7573	scaffold1899	187	[A/G]	-	Intergenic	-
CWSNP7574	scaffold1918	216231	[T/G]	-	Intergenic	-
CWSNP7575	scaffold1918	216180	[C/A]	-	Intergenic	-
CWSNP7576	scaffold1918	245929	[T/C]	Ca24715	Synonymous-CDS	Trehalose-phosphatase
CWSNP7577	scaffold1928	103092	[A/G]	-	Intergenic	-
CWSNP7578	scaffold1928	103114	[G/A]	-	Intergenic	-
CWSNP7579	scaffold193	38279	[C/A]	-	URR	-
CWSNP7580	scaffold193	186538	[C/T]	-	Intergenic	-
CWSNP7581	scaffold193	186523	[T/C]	-	Intergenic	-
CWSNP7582	scaffold193	186515	[T/G]	-	Intergenic	-
CWSNP7583	scaffold193	186510	[C/A]	-	Intergenic	-
CWSNP7584	scaffold193	186582	[C/A]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP7585	scaffold193	186587	[G/T]	-	Intergenic	-
CWSNP7586	scaffold193	186588	[C/G]	-	Intergenic	-
CWSNP7587	scaffold193	186595	[C/T]	-	Intergenic	-
CWSNP7588	scaffold193	186598	[A/G]	-	Intergenic	-
CWSNP7589	scaffold193	186611	[G/A]	-	Intergenic	-
CWSNP7590	scaffold193	186639	[C/T]	-	Intergenic	-
CWSNP7591	scaffold193	186651	[T/C]	-	Intergenic	-
CWSNP7592	scaffold193	186657	[G/A]	-	Intergenic	-
CWSNP7593	scaffold193	186661	[T/C]	-	Intergenic	-
CWSNP7594	scaffold193	242763	[T/C]	-	Intergenic	-
CWSNP7595	scaffold193	242733	[G/T]	-	Intergenic	-
CWSNP7596	scaffold1943	163784	[G/A]	-	Intergenic	-
CWSNP7597	scaffold1943	163780	[C/T]	-	Intergenic	-
CWSNP7598	scaffold1959	84160	[G/A]	-	Intergenic	-
CWSNP7599	scaffold1964	54613	[G/A]	-	Intergenic	-
CWSNP7600	scaffold1964	54604	[T/C]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP7601	scaffold198	631160	[G/A]	-	Intergenic	-
CWSNP7602	scaffold198	631174	[C/T]	-	Intergenic	-
CWSNP7603	scaffold198	631185	[G/A]	-	Intergenic	-
CWSNP7604	scaffold198	641266	[C/T]	-	Intergenic	-
CWSNP7605	scaffold198	641252	[A/G]	-	Intergenic	-
CWSNP7606	scaffold198	641243	[A/G]	-	Intergenic	-
CWSNP7607	scaffold1981	265110	[A/C]	-	Intergenic	-
CWSNP7608	scaffold1981	265126	[G/T]	-	Intergenic	-
CWSNP7609	scaffold1981	265216	[A/G]	-	Intergenic	-
CWSNP7610	scaffold1981	269879	[A/G]	-	Intergenic	-
CWSNP7611	scaffold1981	385683	[T/A]	Ca21269	Synonymous-CDS	Nucleotidyltransferase domain
CWSNP7612	scaffold1984	212011	[G/A]	Ca25764	Non-Synonymous-CDS	Leo1-like protein
CWSNP7613	scaffold1984	215969	[G/C]	Ca25764	Intron	Leo1-like protein
CWSNP7614	scaffold1984	292507	[A/C]	-	Intergenic	-
CWSNP7615	scaffold1984	292511	[G/C]	-	Intergenic	-
CWSNP7616	scaffold1985	98611	[C/T]	-	DRR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP7617	scaffold1991	62009	[C/A]	-	Intergenic	-
CWSNP7618	scaffold1991	62121	[G/A]	-	Intergenic	-
CWSNP7619	scaffold1991	62085	[A/C]	-	Intergenic	-
CWSNP7620	scaffold1991	62131	[G/A]	-	Intergenic	-
CWSNP7621	scaffold1991	62154	[T/A]	-	Intergenic	-
CWSNP7622	scaffold1991	62147	[G/A]	-	Intergenic	-
CWSNP7623	scaffold2	137309	[T/G]	-	Intergenic	-
CWSNP7624	scaffold2	504258	[C/T]	-	Intergenic	-
CWSNP7625	scaffold2	504253	[C/T]	-	Intergenic	-
CWSNP7626	scaffold2	504248	[G/A]	-	Intergenic	-
CWSNP7627	scaffold202	92532	[C/A]	Ca27126	Intron	Vacuolar protein sorting-associated protein
CWSNP7628	scaffold202	96456	[T/C]	Ca27126	Intron	Vacuolar protein sorting-associated protein
CWSNP7629	scaffold202	96444	[G/A]	Ca27126	Intron	Vacuolar protein sorting-associated protein
CWSNP7630	scaffold202	96532	[G/T]	Ca27126	Intron	Vacuolar protein sorting-associated protein
CWSNP7631	scaffold202	96589	[A/T]	Ca27126	Intron	Vacuolar protein sorting-associated protein
CWSNP7632	scaffold202	96580	[T/G]	Ca27126	Intron	Vacuolar protein sorting-associated protein

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP7633	scaffold202	99123	[C/T]	-	Intergenic	-
CWSNP7634	scaffold2027	152763	[C/A]	-	DRR	-
CWSNP7635	scaffold2030	13855	[G/A]	-	Intergenic	-
CWSNP7636	scaffold2030	13807	[G/A]	-	Intergenic	-
CWSNP7637	scaffold2030	13889	[C/T]	-	Intergenic	-
CWSNP7638	scaffold2030	13874	[G/T]	-	Intergenic	-
CWSNP7639	scaffold2033	118779	[G/T]	Ca26141	Intron	-
CWSNP7640	scaffold2040	139597	[A/G]	-	Intergenic	-
CWSNP7641	scaffold2040	139584	[G/A]	-	Intergenic	-
CWSNP7642	scaffold2040	139581	[G/A]	-	Intergenic	-
CWSNP7643	scaffold2040	139560	[G/T]	-	Intergenic	-
CWSNP7644	scaffold2040	139548	[C/T]	-	Intergenic	-
CWSNP7645	scaffold2040	139544	[C/A]	-	Intergenic	-
CWSNP7646	scaffold2040	139541	[T/C]	-	Intergenic	-
CWSNP7647	scaffold2040	139538	[G/A]	-	Intergenic	-
CWSNP7648	scaffold2040	139545	[G/A]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP7649	scaffold2040	139603	[C/T]	-	Intergenic	-
CWSNP7650	scaffold205	74448	[T/G]	-	Intergenic	-
CWSNP7651	scaffold205	74430	[A/G]	-	Intergenic	-
CWSNP7652	scaffold205	74397	[G/A]	-	Intergenic	-
CWSNP7653	scaffold205	74399	[C/T]	-	Intergenic	-
CWSNP7654	scaffold205	74424	[T/C]	-	Intergenic	-
CWSNP7655	scaffold205	74432	[G/A]	-	Intergenic	-
CWSNP7656	scaffold206	58349	[C/A]	Ca27283	Intron	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP7657	scaffold206	62985	[G/A]	Ca27283	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP7658	scaffold208	344503	[G/T]	-	Intergenic	-
CWSNP7659	scaffold208	344515	[A/G]	-	Intergenic	-
CWSNP7660	scaffold208	344519	[A/T]	-	Intergenic	-
CWSNP7661	scaffold208	344533	[C/T]	-	Intergenic	-
CWSNP7662	scaffold208	344556	[T/G]	-	Intergenic	-
CWSNP7663	scaffold210	293799	[G/A]	Ca21905	Non-Synonymous-CDS	-
CWSNP7664	scaffold210	355284	[G/T]	Ca21906	Non-Synonymous-CDS	Mitochondrial carrier protein

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP7665	scaffold210	533416	[G/A]	Ca21912	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP7666	scaffold2104	61757	[T/C]	-	Intergenic	-
CWSNP7667	scaffold2104	61745	[T/G]	-	Intergenic	-
CWSNP7668	scaffold2104	61723	[G/A]	-	Intergenic	-
CWSNP7669	scaffold2104	61710	[C/T]	-	Intergenic	-
CWSNP7670	scaffold2104	61705	[C/T]	-	Intergenic	-
CWSNP7671	scaffold2152	372404	[A/T]	-	Intergenic	-
CWSNP7672	scaffold2166	228653	[G/C]	-	Intergenic	-
CWSNP7673	scaffold2170	4821	[G/A]	-	Intergenic	-
CWSNP7674	scaffold221	53841	[T/G]	Ca27612	Synonymous-CDS	AMP-dependent synthetase/ligase
CWSNP7675	scaffold2248	5538	[A/T]	-	Intergenic	-
CWSNP7676	scaffold2248	5562	[C/T]	-	Intergenic	-
CWSNP7677	scaffold2248	5570	[T/C]	-	Intergenic	-
CWSNP7678	scaffold2248	5520	[C/A]	-	Intergenic	-
CWSNP7679	scaffold2249	4446	[A/C]	-	DRR	-
CWSNP7680	scaffold2269	58091	[A/T]	-	URR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP7681	scaffold2269	123799	[A/C]	Ca27079	Synonymous-CDS	RNA recognition motif domain
CWSNP7682	scaffold2269	126013	[A/C]	Ca27079	Synonymous-CDS	RNA recognition motif domain
CWSNP7683	scaffold2301	70721	[A/G]	-	Intergenic	-
CWSNP7684	scaffold2330	65482	[T/G]	-	URR	-
CWSNP7685	scaffold2330	65617	[G/A]	-	Intergenic	-
CWSNP7686	scaffold2330	83112	[A/G]	-	DRR	-
CWSNP7687	scaffold2371	139149	[A/G]	-	Intergenic	-
CWSNP7688	scaffold2373	3815	[T/A]	-	Intergenic	-
CWSNP7689	scaffold2373	3811	[C/T]	-	Intergenic	-
CWSNP7690	scaffold2373	3793	[C/T]	-	Intergenic	-
CWSNP7691	scaffold2373	3923	[T/C]	-	Intergenic	-
CWSNP7692	scaffold2373	3871	[A/T]	-	Intergenic	-
CWSNP7693	scaffold2373	3862	[C/T]	-	Intergenic	-
CWSNP7694	scaffold2373	12916	[C/A]	-	Intergenic	-
CWSNP7695	scaffold2373	12969	[G/C]	-	Intergenic	-
CWSNP7696	scaffold2373	12978	[A/T]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP7697	scaffold2373	62495	[C/T]	-	Intergenic	-
CWSNP7698	scaffold2373	62494	[A/G]	-	Intergenic	-
CWSNP7699	scaffold2373	62473	[G/A]	-	Intergenic	-
CWSNP7700	scaffold2373	62433	[A/G]	-	Intergenic	-
CWSNP7701	scaffold2373	127884	[A/C]	-	Intergenic	-
CWSNP7702	scaffold2373	127851	[C/T]	-	Intergenic	-
CWSNP7703	scaffold2373	127905	[C/T]	-	Intergenic	-
CWSNP7704	scaffold2373	127870	[T/G]	-	Intergenic	-
CWSNP7705	scaffold2373	127855	[A/C]	-	Intergenic	-
CWSNP7706	scaffold2392	35402	[A/C]	Ca25129	Intron	-
CWSNP7707	scaffold2392	198120	[G/T]	-	DRR	-
CWSNP7708	scaffold2392	314322	[T/C]	-	Intergenic	-
CWSNP7709	scaffold2392	314323	[G/A]	-	Intergenic	-
CWSNP7710	scaffold2392	314343	[G/A]	-	Intergenic	-
CWSNP7711	scaffold2392	314344	[T/C]	-	Intergenic	-
CWSNP7712	scaffold2392	314349	[C/G]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP7713	scaffold2392	314353	[G/A]	-	Intergenic	-
CWSNP7714	scaffold2392	314401	[A/C]	-	Intergenic	-
CWSNP7715	scaffold240	6231	[T/A]	-	Intergenic	-
CWSNP7716	scaffold240	6193	[G/A]	-	Intergenic	-
CWSNP7717	scaffold240	6152	[C/T]	-	Intergenic	-
CWSNP7718	scaffold240	119157	[G/A]	Ca25659	Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP7719	scaffold240	119301	[T/C]	Ca25659	Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP7720	scaffold240	119297	[C/A]	Ca25659	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP7721	scaffold240	119278	[T/C]	Ca25659	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP7722	scaffold240	119269	[C/T]	Ca25659	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP7723	scaffold240	119267	[G/C]	Ca25659	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP7724	scaffold240	119265	[C/G]	Ca25659	Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP7725	scaffold242	293872	[A/G]	Ca22265	Intron	Raffinosesynthase
CWSNP7726	scaffold250	38270	[A/G]	Ca27037	Intron	SH2motif
CWSNP7727	scaffold2501	287	[C/T]	-	Intergenic	-
CWSNP7728	scaffold2501	282	[C/A]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP7729	scaffold2501	251	[T/G]	-	Intergenic	-
CWSNP7730	scaffold2501	242	[C/G]	-	Intergenic	-
CWSNP7731	scaffold2516	58947	[T/C]	Ca26451	Synonymous-CDS	Domain of unknown function DUF125,transmembrane
CWSNP7732	scaffold2521	57762	[T/C]	Ca27549	Synonymous-CDS	-
CWSNP7733	scaffold2521	57725	[G/A]	Ca27549	Non-Synonymous-CDS	-
CWSNP7734	scaffold2521	57709	[G/T]	Ca27549	Non-Synonymous-CDS	-
CWSNP7735	scaffold2557	110378	[C/T]	Ca26665	Non-Synonymous-CDS	Domain of unknown function DUF828
CWSNP7736	scaffold2557	110414	[T/G]	Ca26665	Non-Synonymous-CDS	Domain of unknown function DUF828
CWSNP7737	scaffold2557	110437	[C/T]	-	Intergenic	-
CWSNP7738	scaffold2557	110441	[T/A]	-	Intergenic	-
CWSNP7739	scaffold2569	58152	[T/G]	Ca26161	Synonymous-CDS	WD40 repeat
CWSNP7740	scaffold2617	467848	[C/T]	-	DRR	-
CWSNP7741	scaffold263	85006	[G/A]	-	Intergenic	-
CWSNP7742	scaffold263	84970	[T/C]	-	Intergenic	-
CWSNP7743	scaffold263	84952	[T/G]	-	Intergenic	-
CWSNP7744	scaffold2720	177550	[G/T]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP7745	scaffold2720	177578	[T/C]	-	Intergenic	-
CWSNP7746	scaffold2722	52416	[G/T]	-	Intergenic	-
CWSNP7747	scaffold2722	52397	[G/T]	-	Intergenic	-
CWSNP7748	scaffold2722	75609	[A/G]	Ca27216	Non-Synonymous-CDS	Glycosidehydrolase, family28
CWSNP7749	scaffold273	202514	[T/G]	-	Intergenic	-
CWSNP7750	scaffold2738	1307	[G/A]	-	Intergenic	-
CWSNP7751	scaffold275	208067	[C/A]	-	Intergenic	-
CWSNP7752	scaffold275	208786	[G/C]	-	Intergenic	-
CWSNP7753	scaffold275	230606	[A/G]	-	Intergenic	-
CWSNP7754	scaffold275	347422	[C/A]	-	Intergenic	-
CWSNP7755	scaffold275	347384	[G/A]	-	Intergenic	-
CWSNP7756	scaffold275	347361	[C/T]	-	Intergenic	-
CWSNP7757	scaffold275	479497	[C/T]	-	Intergenic	-
CWSNP7758	scaffold2763	4688	[A/C]	Ca24392	Synonymous-CDS	Glycosidehydrolase, family9
CWSNP7759	scaffold2763	4706	[G/T]	Ca24392	Non-Synonymous-CDS	Glycosidehydrolase, family9
CWSNP7760	scaffold2763	4719	[G/A]	Ca24392	Intron	Glycosidehydrolase, family9

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP7761	scaffold2763	4732	[C/G]	Ca24392	Intron	Glycosidehydrolase,family9
CWSNP7762	scaffold2763	4738	[C/G]	Ca24392	Intron	Glycosidehydrolase,family9
CWSNP7763	scaffold2763	4782	[C/T]	Ca24392	Intron	Glycosidehydrolase,family9
CWSNP7764	scaffold2763	25756	[T/G]	Ca24394	Synonymous-CDS	-
CWSNP7765	scaffold2763	25769	[A/G]	Ca24394	Non-Synonymous-CDS	-
CWSNP7766	scaffold2763	25771	[T/G]	Ca24394	Non-Synonymous-CDS	-
CWSNP7767	scaffold2763	43207	[G/A]	-	URR	-
CWSNP7768	scaffold2763	49533	[T/A]	Ca24396	Intron	Zinc finger,RING-type
CWSNP7769	scaffold2763	82193	[C/A]	-	Intergenic	-
CWSNP7770	scaffold2763	82232	[C/T]	-	Intergenic	-
CWSNP7771	scaffold2763	82249	[G/A]	-	Intergenic	-
CWSNP7772	scaffold2763	82250	[T/C]	-	Intergenic	-
CWSNP7773	scaffold2763	82253	[G/C]	-	Intergenic	-
CWSNP7774	scaffold2763	82262	[G/C]	-	Intergenic	-
CWSNP7775	scaffold2763	82261	[C/G]	-	Intergenic	-
CWSNP7776	scaffold2763	82302	[T/A]	Ca24399	Non-Synonymous-CDS	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP7777	scaffold2763	82319	[T/C]	Ca24399	Synonymous-CDS	-
CWSNP7778	scaffold2763	82328	[A/G]	Ca24399	Synonymous-CDS	-
CWSNP7779	scaffold2763	82342	[C/T]	Ca24399	Non-Synonymous-CDS	-
CWSNP7780	scaffold2763	82369	[G/A]	Ca24399	Non-Synonymous-CDS	-
CWSNP7781	scaffold2763	82417	[C/T]	Ca24399	Non-Synonymous-CDS	-
CWSNP7782	scaffold2763	82397	[T/C]	Ca24399	Synonymous-CDS	-
CWSNP7783	scaffold2763	95823	[G/A]	-	Intergenic	-
CWSNP7784	scaffold2763	99364	[A/G]	-	DRR	-
CWSNP7785	scaffold2763	99368	[C/G]	-	DRR	-
CWSNP7786	scaffold2763	99549	[C/A]	-	Intergenic	-
CWSNP7787	scaffold2763	104549	[G/C]	-	DRR	-
CWSNP7788	scaffold2763	104583	[T/C]	Ca24401	Non-Synonymous-CDS	-
CWSNP7789	scaffold2763	107087	[A/G]	Ca24401	Intron	-
CWSNP7790	scaffold2763	107033	[T/A]	Ca24401	Intron	-
CWSNP7791	scaffold2763	107437	[T/C]	Ca24401	Intron	-
CWSNP7792	scaffold2763	107376	[C/T]	Ca24401	Intron	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP7793	scaffold2763	107413	[A/G]	Ca24401	Intron	-
CWSNP7794	scaffold2763	108560	[T/G]	Ca24401	Intron	-
CWSNP7795	scaffold2763	108599	[T/A]	Ca24401	Intron	-
CWSNP7796	scaffold2763	108763	[T/G]	Ca24401	Intron	-
CWSNP7797	scaffold2763	117440	[C/T]	-	URR	-
CWSNP7798	scaffold2763	117430	[A/C]	-	URR	-
CWSNP7799	scaffold2763	125716	[C/T]	Ca24402	Synonymous-CDS	-
CWSNP7800	scaffold280	90875	[G/A]	-	Intergenic	-
CWSNP7801	scaffold280	90950	[C/A]	-	Intergenic	-
CWSNP7802	scaffold280	99357	[A/C]	-	Intergenic	-
CWSNP7803	scaffold280	111160	[C/A]	-	Intergenic	-
CWSNP7804	scaffold2812	56702	[G/A]	-	DRR	-
CWSNP7805	scaffold2812	89940	[C/T]	Ca26646	Synonymous-CDS	Lactate/malatedehydrogenase,N-terminal
CWSNP7806	scaffold2815	25626	[C/G]	-	Intergenic	-
CWSNP7807	scaffold2815	25655	[T/G]	-	Intergenic	-
CWSNP7808	scaffold2815	25668	[T/G]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP7809	scaffold2827	210	[A/G]	-	Intergenic	-
CWSNP7810	scaffold2827	285	[T/G]	-	Intergenic	-
CWSNP7811	scaffold2827	258	[T/C]	-	Intergenic	-
CWSNP7812	scaffold2827	240	[T/G]	-	Intergenic	-
CWSNP7813	scaffold284	522764	[T/G]	Ca20600	Synonymous-CDS	Oxidoreductase,molybdopterin-binding domain
CWSNP7814	scaffold284	613764	[G/A]	-	Intergenic	-
CWSNP7815	scaffold284	613861	[C/T]	-	Intergenic	-
CWSNP7816	scaffold284	613850	[C/T]	-	Intergenic	-
CWSNP7817	scaffold284	613811	[G/A]	-	Intergenic	-
CWSNP7818	scaffold284	826690	[T/C]	-	Intergenic	-
CWSNP7819	scaffold284	826644	[G/A]	-	Intergenic	-
CWSNP7820	scaffold2848	2403	[C/A]	Ca27862	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP7821	scaffold2848	2444	[C/A]	Ca27862	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP7822	scaffold2848	2517	[G/A]	Ca27862	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP7823	scaffold2848	2464	[A/G]	Ca27862	Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP7824	scaffold2853	14852	[C/G]	Ca28160	Intron	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP7825	scaffold2853	14916	[A/G]	Ca28160	Intron	-
CWSNP7826	scaffold2853	14917	[G/A]	Ca28160	Intron	-
CWSNP7827	scaffold2853	15086	[G/A]	Ca28160	Intron	-
CWSNP7828	scaffold287	3224	[G/A]	-	Intergenic	-
CWSNP7829	scaffold287	163591	[C/A]	-	Intergenic	-
CWSNP7830	scaffold290	179998	[T/C]	Ca19830	Intron	Xanthine/uracil/vitaminCpermease
CWSNP7831	scaffold290	179993	[C/T]	Ca19830	Intron	Xanthine/uracil/vitaminCpermease
CWSNP7832	scaffold290	179940	[G/A]	Ca19830	Intron	Xanthine/uracil/vitaminCpermease
CWSNP7833	scaffold290	179969	[A/T]	Ca19830	Intron	Xanthine/uracil/vitaminCpermease
CWSNP7834	scaffold290	211634	[A/C]	Ca19830	Intron	Xanthine/uracil/vitaminCpermease
CWSNP7835	scaffold290	212536	[A/C]	-	Intergenic	-
CWSNP7836	scaffold290	212514	[C/T]	-	Intergenic	-
CWSNP7837	scaffold290	255161	[G/A]	Ca19833	Intron	Villinheadpiece
CWSNP7838	scaffold290	728010	[T/A]	-	Intergenic	-
CWSNP7839	scaffold290	824906	[C/T]	-	Intergenic	-
CWSNP7840	scaffold2907	31202	[G/A]	Ca27010	Non-Synonymous-CDS	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP7841	scaffold2950	32650	[C/T]	-	Intergenic	-
CWSNP7842	scaffold2950	32703	[A/C]	-	Intergenic	-
CWSNP7843	scaffold2950	32739	[C/A]	-	Intergenic	-
CWSNP7844	scaffold2950	32776	[T/A]	-	Intergenic	-
CWSNP7845	scaffold2950	33081	[A/G]	-	Intergenic	-
CWSNP7846	scaffold2950	33207	[C/T]	-	Intergenic	-
CWSNP7847	scaffold296	41422	[T/G]	Ca20526	Intron	Glycosylhydrolase, family13, catalytic domain
CWSNP7848	scaffold296	59883	[A/C]	Ca20530	Synonymous-CDS	Alanineracemase, N-terminal
CWSNP7849	scaffold299	199050	[A/T]	-	Intergenic	-
CWSNP7850	scaffold299	199067	[A/T]	-	URR	-
CWSNP7851	scaffold299	199068	[G/T]	-	Intergenic	-
CWSNP7852	scaffold299	199073	[G/A]	-	Intergenic	-
CWSNP7853	scaffold299	204540	[G/A]	-	DRR	-
CWSNP7854	scaffold300	111914	[C/T]	Ca27306	Non-Synonymous-CDS	-
CWSNP7855	scaffold300	111924	[C/T]	Ca27306	Non-Synonymous-CDS	-
CWSNP7856	scaffold300	111926	[G/A]	Ca27306	Non-Synonymous-CDS	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP7857	scaffold300	111933	[C/T]	Ca27306	Non-Synonymous-CDS	-
CWSNP7858	scaffold300	111936	[C/A]	Ca27306	Non-Synonymous-CDS	-
CWSNP7859	scaffold300	111972	[A/T]	Ca27306	Non-Synonymous-CDS	-
CWSNP7860	scaffold300	111973	[A/T]	Ca27306	Non-Synonymous-CDS	-
CWSNP7861	scaffold300	111976	[C/T]	Ca27306	Synonymous-CDS	-
CWSNP7862	scaffold300	112011	[T/C]	Ca27306	Non-Synonymous-CDS	-
CWSNP7863	scaffold300	112006	[G/A]	Ca27306	Synonymous-CDS	-
CWSNP7864	scaffold300	112005	[G/A]	Ca27306	Non-Synonymous-CDS	-
CWSNP7865	scaffold300	111959	[C/T]	Ca27306	Non-Synonymous-CDS	-
CWSNP7866	scaffold300	111964	[C/T]	Ca27306	Synonymous-CDS	-
CWSNP7867	scaffold3016	32790	[C/T]	Ca26723	Synonymous-CDS	-
CWSNP7868	scaffold303	18213	[G/A]	-	Intergenic	-
CWSNP7869	scaffold305	49263	[G/A]	-	Intergenic	-
CWSNP7870	scaffold305	49266	[T/G]	-	Intergenic	-
CWSNP7871	scaffold305	138929	[G/A]	-	Intergenic	-
CWSNP7872	scaffold306	19215	[C/A]	-	DRR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP7873	scaffold306	85993	[T/A]	-	Intergenic	-
CWSNP7874	scaffold306	88389	[T/A]	-	Intergenic	-
CWSNP7875	scaffold3084	4409	[G/A]	-	Intergenic	-
CWSNP7876	scaffold308_2	143813	[C/G]	Ca10872	Non-Synonymous-CDS	Nucleoporin,Nsp1-like,C-terminal
CWSNP7877	scaffold308_2	144354	[C/T]	Ca10872	Synonymous-CDS	Nucleoporin,Nsp1-like,C-terminal
CWSNP7878	scaffold308_2	152576	[G/T]	-	Intergenic	-
CWSNP7879	scaffold311	86677	[C/T]	-	Intergenic	-
CWSNP7880	scaffold3116	159	[T/G]	-	Intergenic	-
CWSNP7881	scaffold314	432453	[T/C]	-	Intergenic	-
CWSNP7882	scaffold314	432471	[A/G]	-	Intergenic	-
CWSNP7883	scaffold314	535269	[A/C]	Ca21812	Non-Synonymous-CDS	Dual specificity phosphatase,catalytic domain
CWSNP7884	scaffold314	535266	[A/C]	Ca21812	Non-Synonymous-CDS	Dual specificity phosphatase,catalytic domain
CWSNP7885	scaffold3155	7438	[A/C]	-	Intergenic	-
CWSNP7886	scaffold3155	7442	[T/C]	-	Intergenic	-
CWSNP7887	scaffold3155	7443	[A/G]	-	Intergenic	-
CWSNP7888	scaffold3155	7444	[A/G]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP7889	scaffold3155	7462	[A/G]	-	Intergenic	-
CWSNP7890	scaffold3155	7464	[T/A]	-	Intergenic	-
CWSNP7891	scaffold3155	7472	[A/G]	-	Intergenic	-
CWSNP7892	scaffold3155	7477	[C/G]	-	Intergenic	-
CWSNP7893	scaffold3155	7480	[G/A]	-	Intergenic	-
CWSNP7894	scaffold3155	9404	[C/T]	Ca27112	Non-Synonymous-CDS	-
CWSNP7895	scaffold322	55475	[G/A]	-	Intergenic	-
CWSNP7896	scaffold322	55479	[G/T]	-	Intergenic	-
CWSNP7897	scaffold322	55589	[A/T]	-	Intergenic	-
CWSNP7898	scaffold3228	2926	[C/T]	-	Intergenic	-
CWSNP7899	scaffold3228	23138	[A/G]	-	DRR	-
CWSNP7900	scaffold3228	23190	[G/C]	-	DRR	-
CWSNP7901	scaffold3228	23315	[C/A]	-	DRR	-
CWSNP7902	scaffold3228	23270	[A/C]	-	DRR	-
CWSNP7903	scaffold324	15569	[A/C]	Ca24910	Non-Synonymous-CDS	-
CWSNP7904	scaffold324	15574	[G/A]	Ca24910	Synonymous-CDS	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP7905	scaffold324	15581	[G/C]	Ca24910	Non-Synonymous-CDS	-
CWSNP7906	scaffold324	15590	[G/T]	Ca24910	Non-Synonymous-CDS	-
CWSNP7907	scaffold324	15593	[G/A]	Ca24910	Non-Synonymous-CDS	-
CWSNP7908	scaffold324	15594	[C/A]	Ca24910	Non-Synonymous-CDS	-
CWSNP7909	scaffold324	15614	[C/T]	Ca24910	Non-Synonymous-CDS	-
CWSNP7910	scaffold324	15636	[G/A]	Ca24910	Non-Synonymous-CDS	-
CWSNP7911	scaffold3254_2	15616	[A/G]	Ca16296	Synonymous-CDS	PeptidaseA1
CWSNP7912	scaffold3254_2	186218	[G/A]	-	Intergenic	-
CWSNP7913	scaffold3254_2	186203	[C/G]	-	Intergenic	-
CWSNP7914	scaffold3254_2	186243	[A/C]	-	Intergenic	-
CWSNP7915	scaffold332	203691	[T/A]	-	Intergenic	-
CWSNP7916	scaffold332	204783	[A/G]	-	Intergenic	-
CWSNP7917	scaffold332	204785	[G/A]	-	DRR	-
CWSNP7918	scaffold332	204952	[G/A]	-	Intergenic	-
CWSNP7919	scaffold3321	17935	[C/A]	-	Intergenic	-
CWSNP7920	scaffold3337	17963	[C/T]	Ca28178	Non-Synonymous-CDS	Domain of unknown function DUF828

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP7921	scaffold3337	17999	[T/G]	Ca28178	Non-Synonymous-CDS	Domain of unknown function DUF828
CWSNP7922	scaffold3337	18022	[C/T]	-	Intergenic	-
CWSNP7923	scaffold3337	18026	[T/A]	-	Intergenic	-
CWSNP7924	scaffold3337	17959	[A/G]	Ca28178	Non-Synonymous-CDS	Domain of unknown function DUF828
CWSNP7925	scaffold3337	17956	[G/A]	Ca28178	Non-Synonymous-CDS	Domain of unknown function DUF828
CWSNP7926	scaffold334	43160	[G/A]	Ca25777	Non-Synonymous-CDS	-
CWSNP7927	scaffold335	60951	[T/C]	-	DRR	-
CWSNP7928	scaffold335	60952	[T/C]	-	DRR	-
CWSNP7929	scaffold335	60956	[T/C]	-	DRR	-
CWSNP7930	scaffold335	60957	[T/C]	-	DRR	-
CWSNP7931	scaffold335	60960	[T/C]	-	DRR	-
CWSNP7932	scaffold335	60962	[T/G]	-	DRR	-
CWSNP7933	scaffold335	60906	[T/G]	-	DRR	-
CWSNP7934	scaffold335	136017	[C/G]	Ca26029	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP7935	scaffold335	135969	[C/T]	Ca26029	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP7936	scaffold335	135976	[C/T]	Ca26029	Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP7937	scaffold335	136077	[G/C]	Ca26029	Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP7938	scaffold335	136076	[G/C]	Ca26029	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP7939	scaffold335	136073	[G/A]	Ca26029	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP7940	scaffold335	136051	[T/A]	Ca26029	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP7941	scaffold335	136030	[G/A]	Ca26029	Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP7942	scaffold335	136129	[T/C]	Ca26029	Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP7943	scaffold335	136109	[G/T]	Ca26029	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP7944	scaffold335	136106	[G/A]	Ca26029	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP7945	scaffold335	136096	[T/C]	Ca26029	Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP7946	scaffold335	136091	[G/A]	Ca26029	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP7947	scaffold336	468863	[T/A]	Ca21282	Non-Synonymous-CDS	Protein kinase, catalytic domain
CWSNP7948	scaffold336	563363	[C/T]	-	Intergenic	-
CWSNP7949	scaffold336	618427	[C/T]	Ca21291	Non-Synonymous-CDS	ABC transporter, transmembrane domain
CWSNP7950	scaffold336	771169	[C/T]	Ca21296	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP7951	scaffold3362	69878	[C/A]	Ca26010	Intron	Protein kinase, catalytic domain
CWSNP7952	scaffold3397	45363	[T/C]	Ca26273	Non-Synonymous-CDS	WD40 repeat

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP7953	scaffold342	311411	[G/A]	-	Intergenic	-
CWSNP7954	scaffold342	311394	[A/C]	-	Intergenic	-
CWSNP7955	scaffold342	359376	[A/C]	Ca24729	Intron	-
CWSNP7956	scaffold3422	13376	[T/A]	-	Intergenic	-
CWSNP7957	scaffold346_1	105461	[A/G]	-	Intergenic	-
CWSNP7958	scaffold346_1	105521	[A/C]	-	Intergenic	-
CWSNP7959	scaffold346_1	105523	[G/A]	-	Intergenic	-
CWSNP7960	scaffold346_1	105546	[C/T]	-	Intergenic	-
CWSNP7961	scaffold349	51381	[A/T]	-	Intergenic	-
CWSNP7962	scaffold349	51396	[G/A]	-	Intergenic	-
CWSNP7963	scaffold349	51414	[C/T]	-	Intergenic	-
CWSNP7964	scaffold349	51435	[C/T]	-	Intergenic	-
CWSNP7965	scaffold349	51548	[T/C]	-	Intergenic	-
CWSNP7966	scaffold349	51637	[T/A]	-	Intergenic	-
CWSNP7967	scaffold349	51624	[G/A]	-	Intergenic	-
CWSNP7968	scaffold349	174039	[A/T]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP7969	scaffold3514	42134	[G/A]	Ca26926	Synonymous-CDS	Lipase,GDSL
CWSNP7970	scaffold3514	42135	[G/T]	Ca26926	Synonymous-CDS	Lipase,GDSL
CWSNP7971	scaffold3514	42156	[G/A]	Ca26926	Synonymous-CDS	Lipase,GDSL
CWSNP7972	scaffold3514	42163	[T/C]	Ca26926	Synonymous-CDS	Lipase,GDSL
CWSNP7973	scaffold3514	42164	[A/G]	Ca26926	Synonymous-CDS	Lipase,GDSL
CWSNP7974	scaffold3514	42175	[G/A]	Ca26926	Synonymous-CDS	Lipase,GDSL
CWSNP7975	scaffold352	22672	[C/T]	-	Intergenic	-
CWSNP7976	scaffold352	22675	[G/A]	-	Intergenic	-
CWSNP7977	scaffold352	22693	[C/T]	-	Intergenic	-
CWSNP7978	scaffold352	22708	[A/G]	-	Intergenic	-
CWSNP7979	scaffold352	22777	[T/G]	-	Intergenic	-
CWSNP7980	scaffold352	22726	[A/C]	-	Intergenic	-
CWSNP7981	scaffold36	167556	[C/T]	-	DRR	-
CWSNP7982	scaffold36	226511	[A/G]	Ca25864	Synonymous-CDS	-
CWSNP7983	scaffold362	84943	[A/G]	-	Intergenic	-
CWSNP7984	scaffold362	84945	[T/C]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP7985	scaffold362	84972	[C/A]	-	Intergenic	-
CWSNP7986	scaffold362	84988	[T/G]	-	Intergenic	-
CWSNP7987	scaffold362	84994	[G/A]	-	Intergenic	-
CWSNP7988	scaffold362	164620	[C/T]	-	URR	-
CWSNP7989	scaffold362	164789	[T/C]	-	URR	-
CWSNP7990	scaffold362	164787	[C/T]	-	URR	-
CWSNP7991	scaffold362	196556	[G/A]	Ca24993	Non-Synonymous-CDS	RNA recognition motif domain
CWSNP7992	scaffold362	219176	[T/C]	-	Intergenic	-
CWSNP7993	scaffold3693	81068	[C/T]	-	Intergenic	-
CWSNP7994	scaffold3693	81080	[C/A]	-	Intergenic	-
CWSNP7995	scaffold3724	68378	[G/A]	Ca27523	Intron	Pseudouridine-5'-phosphateglycosidase
CWSNP7996	scaffold374	132907	[A/C]	-	Intergenic	-
CWSNP7997	scaffold374	132896	[T/C]	-	Intergenic	-
CWSNP7998	scaffold374	132873	[A/G]	-	Intergenic	-
CWSNP7999	scaffold374	132859	[C/T]	-	Intergenic	-
CWSNP8000	scaffold374	132858	[G/A]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP8001	scaffold374	132849	[A/C]	-	Intergenic	-
CWSNP8002	scaffold374	132843	[C/T]	-	Intergenic	-
CWSNP8003	scaffold377	393535	[G/T]	-	Intergenic	-
CWSNP8004	scaffold379	69075	[A/C]	Ca26154	Non-Synonymous-CDS	PGAP1-like
CWSNP8005	scaffold379	144442	[G/A]	-	Intergenic	-
CWSNP8006	scaffold379	177306	[T/C]	-	Intergenic	-
CWSNP8007	scaffold379	177354	[G/A]	-	Intergenic	-
CWSNP8008	scaffold379	177340	[C/T]	-	Intergenic	-
CWSNP8009	scaffold379	227608	[A/T]	-	Intergenic	-
CWSNP8010	scaffold38	69499	[A/G]	-	Intergenic	-
CWSNP8011	scaffold38	413691	[G/A]	-	Intergenic	-
CWSNP8012	scaffold38	413713	[A/C]	-	Intergenic	-
CWSNP8013	scaffold38	413719	[G/A]	-	Intergenic	-
CWSNP8014	scaffold38	457392	[C/A]	Ca23625	Synonymous-CDS	Armadillo
CWSNP8015	scaffold38	457596	[T/A]	Ca23625	Intron	Armadillo
CWSNP8016	scaffold38	520372	[T/G]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP8017	scaffold38	520311	[G/A]	-	Intergenic	-
CWSNP8018	scaffold38	520377	[T/C]	-	Intergenic	-
CWSNP8019	scaffold38	537059	[A/T]	-	Intergenic	-
CWSNP8020	scaffold382	36686	[A/T]	Ca27060	Intron	-
CWSNP8021	scaffold382	36703	[A/T]	Ca27060	Intron	-
CWSNP8022	scaffold382	36704	[G/T]	Ca27060	Intron	-
CWSNP8023	scaffold382	36709	[G/A]	Ca27060	Intron	-
CWSNP8024	scaffold3865	65093	[T/C]	-	Intergenic	-
CWSNP8025	scaffold3865	65127	[C/A]	-	Intergenic	-
CWSNP8026	scaffold3865	65129	[T/A]	-	Intergenic	-
CWSNP8027	scaffold387	3263	[G/A]	-	Intergenic	-
CWSNP8028	scaffold387	3309	[T/C]	-	Intergenic	-
CWSNP8029	scaffold3945	3367	[G/A]	Ca26968	Intron	-
CWSNP8030	scaffold3945	3371	[G/A]	Ca26968	Intron	-
CWSNP8031	scaffold3945	3880	[G/T]	-	Intergenic	-
CWSNP8032	scaffold3945	3879	[T/C]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP8033	scaffold3945	7260	[T/A]	-	DRR	-
CWSNP8034	scaffold3945	13468	[C/T]	Ca26970	Intron	-
CWSNP8035	scaffold3945	13440	[C/T]	Ca26970	Intron	-
CWSNP8036	scaffold3945	13892	[C/G]	Ca26970	Intron	-
CWSNP8037	scaffold3945	19359	[G/A]	Ca26970	Intron	-
CWSNP8038	scaffold3945	19366	[G/T]	Ca26970	Intron	-
CWSNP8039	scaffold3945	19367	[A/T]	Ca26970	Intron	-
CWSNP8040	scaffold3945	19368	[A/C]	Ca26970	Intron	-
CWSNP8041	scaffold396	130671	[A/G]	-	Intergenic	-
CWSNP8042	scaffold396	130639	[C/A]	-	Intergenic	-
CWSNP8043	scaffold396	130636	[G/A]	-	Intergenic	-
CWSNP8044	scaffold396	130635	[G/T]	-	Intergenic	-
CWSNP8045	scaffold396	130624	[A/G]	-	Intergenic	-
CWSNP8046	scaffold396	130621	[C/A]	-	Intergenic	-
CWSNP8047	scaffold396	195890	[A/G]	-	Intergenic	-
CWSNP8048	scaffold396	297325	[G/C]	Ca23551	Intron	SecYprotein

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP8049	scaffold398	441570	[C/T]	-	Intergenic	-
CWSNP8050	scaffold398	441605	[C/A]	-	Intergenic	-
CWSNP8051	scaffold40	386189	[A/C]	-	Intergenic	-
CWSNP8052	scaffold40	497729	[T/C]	Ca18973	Non-Synonymous-CDS	F-boxdomain,cyclin-like
CWSNP8053	scaffold40	542951	[C/G]	Ca18975	Intron	-
CWSNP8054	scaffold40	548453	[A/G]	Ca18975	Intron	-
CWSNP8055	scaffold40	871303	[A/C]	-	Intergenic	-
CWSNP8056	scaffold40	911602	[T/G]	Ca18994	Intron	-
CWSNP8057	scaffold40	968798	[G/A]	Ca18995	Synonymous-CDS	-
CWSNP8058	scaffold40	996604	[T/C]	Ca18996	Synonymous-CDS	-
CWSNP8059	scaffold40	1014875	[G/A]	-	Intergenic	-
CWSNP8060	scaffold40	1014834	[T/A]	-	Intergenic	-
CWSNP8061	scaffold40	1014826	[C/T]	-	Intergenic	-
CWSNP8062	scaffold40	1014805	[C/T]	-	Intergenic	-
CWSNP8063	scaffold40	1039218	[T/C]	-	Intergenic	-
CWSNP8064	scaffold40	1039233	[A/T]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP8065	scaffold40	1049594	[G/A]	Ca19000	Intron	SANT domain, DNA binding
CWSNP8066	scaffold40	1050164	[C/T]	Ca19000	Intron	SANT domain, DNA binding
CWSNP8067	scaffold40	1050175	[G/C]	Ca19000	Intron	SANT domain, DNA binding
CWSNP8068	scaffold40	1052597	[T/C]	Ca19000	Intron	SANT domain, DNA binding
CWSNP8069	scaffold40	1052983	[G/A]	Ca19000	Intron	SANT domain, DNA binding
CWSNP8070	scaffold40	1053215	[G/A]	Ca19000	Intron	SANT domain, DNA binding
CWSNP8071	scaffold401	49065	[G/A]	Ca25591	Non-Synonymous-CDS	-
CWSNP8072	scaffold4011	96223	[G/C]	Ca26888	Synonymous-CDS	Protein of unknown function DUF1296
CWSNP8073	scaffold404	273203	[C/A]	-	Intergenic	-
CWSNP8074	scaffold404	273209	[C/A]	-	Intergenic	-
CWSNP8075	scaffold404	273220	[G/A]	-	Intergenic	-
CWSNP8076	scaffold404	273245	[C/T]	-	Intergenic	-
CWSNP8077	scaffold404	285952	[T/C]	-	Intergenic	-
CWSNP8078	scaffold404	285958	[C/G]	-	Intergenic	-
CWSNP8079	scaffold404	285999	[T/G]	-	Intergenic	-
CWSNP8080	scaffold404	355859	[G/A]	Ca24364	Non-Synonymous-CDS	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP8081	scaffold4057	16503	[C/G]	Ca27489	Non-Synonymous-CDS	PeptidaseA1
CWSNP8082	scaffold4102	1160	[T/C]	-	Intergenic	-
CWSNP8083	scaffold411	60078	[C/T]	-	Intergenic	-
CWSNP8084	scaffold411	323122	[T/C]	-	Intergenic	-
CWSNP8085	scaffold411	323140	[T/C]	-	Intergenic	-
CWSNP8086	scaffold411	323141	[G/A]	-	Intergenic	-
CWSNP8087	scaffold411	323147	[T/C]	-	Intergenic	-
CWSNP8088	scaffold411	323161	[G/A]	-	Intergenic	-
CWSNP8089	scaffold411	323162	[T/C]	-	Intergenic	-
CWSNP8090	scaffold411	323167	[C/G]	-	Intergenic	-
CWSNP8091	scaffold415	8479	[A/C]	Ca28252	Non-Synonymous-CDS	-
CWSNP8092	scaffold418	6092	[C/G]	Ca24670	Intron	PeptidaseM48
CWSNP8093	scaffold418	13769	[T/G]	-	Intergenic	-
CWSNP8094	scaffold418	13811	[G/A]	-	Intergenic	-
CWSNP8095	scaffold418	13812	[C/A]	-	Intergenic	-
CWSNP8096	scaffold418	151205	[C/T]	-	DRR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP8097	scaffold418	151256	[G/A]	-	DRR	-
CWSNP8098	scaffold419	73537	[T/G]	-	Intergenic	-
CWSNP8099	scaffold420	34145	[T/G]	Ca22195	Non-Synonymous-CDS	Zinc finger,PHD-type
CWSNP8100	scaffold420	42532	[G/A]	Ca22196	Synonymous-CDS	Ubiquitin
CWSNP8101	scaffold420	42739	[C/T]	Ca22196	Synonymous-CDS	Ubiquitin
CWSNP8102	scaffold420	42811	[C/T]	Ca22196	Synonymous-CDS	Ubiquitin
CWSNP8103	scaffold420	42877	[T/C]	Ca22196	Synonymous-CDS	Ubiquitin
CWSNP8104	scaffold420	43372	[C/T]	Ca22196	Synonymous-CDS	Ubiquitin
CWSNP8105	scaffold420	92756	[C/T]	-	URR	-
CWSNP8106	scaffold420	92759	[A/G]	-	URR	-
CWSNP8107	scaffold420	92784	[C/T]	-	URR	-
CWSNP8108	scaffold420	92813	[G/T]	-	URR	-
CWSNP8109	scaffold420	149744	[C/G]	Ca22199	Intron	Protein kinase, catalytic domain
CWSNP8110	scaffold420	242503	[C/T]	-	Intergenic	-
CWSNP8111	scaffold420	242487	[A/G]	-	Intergenic	-
CWSNP8112	scaffold420	242922	[A/C]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP8113	scaffold420	254661	[T/G]	Ca22205	Intron	Fatty acid desaturase,type1
CWSNP8114	scaffold420	341184	[A/G]	Ca22212	Intron	Glycosidehydrolase,family1
CWSNP8115	scaffold420	341202	[T/G]	Ca22212	Intron	Glycosidehydrolase,family1
CWSNP8116	scaffold420	341206	[G/A]	Ca22212	Intron	Glycosidehydrolase,family1
CWSNP8117	scaffold421_2	142859	[G/C]	-	Intergenic	-
CWSNP8118	scaffold421_2	341136	[C/A]	-	DRR	-
CWSNP8119	scaffold424	32402	[C/G]	Ca27938	Non-Synonymous-CDS	RNA-binding,CRM domain
CWSNP8120	scaffold44	66280	[G/A]	Ca25409	Non-Synonymous-CDS	-
CWSNP8121	scaffold44	87412	[G/A]	Ca25411	Non-Synonymous-CDS	-
CWSNP8122	scaffold4452	20003	[G/A]	Ca26054	Intron	Aminotransferase-like,plant mobile domain
CWSNP8123	scaffold4452	20005	[G/A]	Ca26054	Intron	Aminotransferase-like,plant mobile domain
CWSNP8124	scaffold4452	20038	[A/G]	Ca26054	Intron	Aminotransferase-like,plant mobile domain
CWSNP8125	scaffold4452	20010	[G/A]	Ca26054	Intron	Aminotransferase-like,plant mobile domain
CWSNP8126	scaffold4452	29414	[G/T]	Ca26055	Intron	Zinc finger,PHD-type
CWSNP8127	scaffold4452	36715	[A/T]	Ca26055	Intron	Zinc finger,PHD-type
CWSNP8128	scaffold4452	70041	[T/C]	Ca26056	Synonymous-CDS	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP8129	scaffold450	132427	[A/T]	Ca23794	Synonymous-CDS	-
CWSNP8130	scaffold450	197287	[G/A]	-	Intergenic	-
CWSNP8131	scaffold450	197272	[G/A]	-	Intergenic	-
CWSNP8132	scaffold450	197262	[T/G]	-	Intergenic	-
CWSNP8133	scaffold450	197230	[C/A]	-	Intergenic	-
CWSNP8134	scaffold450	197226	[G/A]	-	Intergenic	-
CWSNP8135	scaffold450	250303	[G/T]	-	Intergenic	-
CWSNP8136	scaffold451	103555	[G/C]	-	Intergenic	-
CWSNP8137	scaffold451	103596	[A/G]	-	Intergenic	-
CWSNP8138	scaffold4511	40014	[C/T]	Ca28219	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP8139	scaffold4511	40089	[C/T]	Ca28219	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP8140	scaffold452	1892	[G/A]	-	Intergenic	-
CWSNP8141	scaffold452	1881	[A/G]	-	Intergenic	-
CWSNP8142	scaffold452	1841	[A/G]	-	Intergenic	-
CWSNP8143	scaffold452	1837	[A/C]	-	Intergenic	-
CWSNP8144	scaffold452	1836	[A/G]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP8145	scaffold452	1835	[C/T]	-	DRR	-
CWSNP8146	scaffold453	303193	[T/C]	-	Intergenic	-
CWSNP8147	scaffold453	303201	[G/C]	-	Intergenic	-
CWSNP8148	scaffold453	303246	[A/G]	-	Intergenic	-
CWSNP8149	scaffold453	303248	[C/T]	-	Intergenic	-
CWSNP8150	scaffold453	303259	[C/G]	-	Intergenic	-
CWSNP8151	scaffold46	39438	[C/A]	-	Intergenic	-
CWSNP8152	scaffold46	39470	[C/T]	-	Intergenic	-
CWSNP8153	scaffold461	20603	[C/T]	-	Intergenic	-
CWSNP8154	scaffold4620	2699	[T/C]	-	Intergenic	-
CWSNP8155	scaffold4620	23442	[T/C]	-	DRR	-
CWSNP8156	scaffold4641	511	[G/A]	-	Intergenic	-
CWSNP8157	scaffold4641	547	[A/C]	-	Intergenic	-
CWSNP8158	scaffold4641	553	[C/A]	-	Intergenic	-
CWSNP8159	scaffold4641	556	[G/C]	-	Intergenic	-
CWSNP8160	scaffold4662	7683	[T/C]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP8161	scaffold4662	7651	[T/C]	-	Intergenic	-
CWSNP8162	scaffold4662	7638	[C/T]	-	Intergenic	-
CWSNP8163	scaffold4662	7632	[A/G]	-	Intergenic	-
CWSNP8164	scaffold4695	5685	[A/G]	-	Intergenic	-
CWSNP8165	scaffold475	135286	[C/A]	-	Intergenic	-
CWSNP8166	scaffold475	135290	[G/A]	-	Intergenic	-
CWSNP8167	scaffold477	51898	[C/T]	-	Intergenic	-
CWSNP8168	scaffold4777	10546	[G/T]	Ca26707	Non-Synonymous-CDS	IQ motif, EF-hand binding site
CWSNP8169	scaffold4777	16224	[A/T]	Ca26707	Non-Synonymous-CDS	IQ motif, EF-hand binding site
CWSNP8170	scaffold4777	16239	[G/T]	Ca26707	Non-Synonymous-CDS	IQ motif, EF-hand binding site
CWSNP8171	scaffold4777	55347	[G/T]	Ca26708	Non-Synonymous-CDS	PWWP
CWSNP8172	scaffold4777	72624	[G/A]	Ca26709	Intron	Peptidoglycan-binding Lysin subgroup
CWSNP8173	scaffold4777	76950	[C/A]	-	URR	-
CWSNP8174	scaffold4777	106820	[A/G]	Ca26711	Intron	WD40 repeat
CWSNP8175	scaffold4777	112193	[A/C]	Ca26711	Intron	WD40 repeat
CWSNP8176	scaffold48	261719	[A/G]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP8177	scaffold480	67375	[T/C]	Ca26870	Intron	PeptidaseM24,structural domain
CWSNP8178	scaffold4836	5866	[T/A]	Ca28200	Non-Synonymous-CDS	-
CWSNP8179	scaffold4836	5891	[A/T]	Ca28200	Synonymous-CDS	-
CWSNP8180	scaffold484	209786	[A/C]	-	DRR	-
CWSNP8181	scaffold484	647868	[C/T]	-	Intergenic	-
CWSNP8182	scaffold484	647866	[A/G]	-	Intergenic	-
CWSNP8183	scaffold484	647809	[A/T]	-	Intergenic	-
CWSNP8184	scaffold484	660749	[C/G]	-	Intergenic	-
CWSNP8185	scaffold485	123578	[T/C]	-	Intergenic	-
CWSNP8186	scaffold495	128200	[A/T]	Ca26761	Intron	Pathogenesis-related transcriptional factor/ERF, DNA-binding
CWSNP8187	scaffold496	53652	[G/A]	-	Intergenic	-
CWSNP8188	scaffold496	53657	[A/T]	-	Intergenic	-
CWSNP8189	scaffold496	175493	[G/A]	Ca27202	Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP8190	scaffold50	191625	[T/C]	Ca24567	Non-Synonymous-CDS	-
CWSNP8191	scaffold50	201219	[C/G]	-	Intergenic	-
CWSNP8192	scaffold50	448866	[G/A]	Ca24573	Intron	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP8193	scaffold510	12383	[G/T]	-	Intergenic	-
CWSNP8194	scaffold510	12394	[C/A]	-	Intergenic	-
CWSNP8195	scaffold510	12414	[C/T]	-	Intergenic	-
CWSNP8196	scaffold511	10450	[T/G]	Ca26652	Synonymous-CDS	-
CWSNP8197	scaffold511	10520	[G/T]	Ca26652	Intron	-
CWSNP8198	scaffold513	7188	[A/C]	-	Intergenic	-
CWSNP8199	scaffold5163	2301	[A/G]	-	Intergenic	-
CWSNP8200	scaffold5185	1091	[G/A]	Ca28010	Non-Synonymous-CDS	-
CWSNP8201	scaffold520	143359	[C/T]	-	Intergenic	-
CWSNP8202	scaffold520	143358	[G/A]	-	Intergenic	-
CWSNP8203	scaffold520	143336	[T/C]	-	Intergenic	-
CWSNP8204	scaffold520	143334	[G/A]	-	Intergenic	-
CWSNP8205	scaffold520	143333	[A/T]	-	Intergenic	-
CWSNP8206	scaffold520	143324	[G/A]	-	Intergenic	-
CWSNP8207	scaffold520	143317	[T/A]	-	Intergenic	-
CWSNP8208	scaffold520	143300	[G/A]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP8209	scaffold520	143294	[G/A]	-	Intergenic	-
CWSNP8210	scaffold520	143291	[G/A]	-	Intergenic	-
CWSNP8211	scaffold520	143372	[G/A]	-	Intergenic	-
CWSNP8212	scaffold520	143355	[C/T]	-	Intergenic	-
CWSNP8213	scaffold520	143391	[A/C]	-	Intergenic	-
CWSNP8214	scaffold53	49273	[A/G]	-	URR	-
CWSNP8215	scaffold531	2668	[C/T]	-	Intergenic	-
CWSNP8216	scaffold531	65242	[T/G]	-	Intergenic	-
CWSNP8217	scaffold531	101520	[C/G]	-	DRR	-
CWSNP8218	scaffold531	124019	[T/G]	-	DRR	-
CWSNP8219	scaffold5328	85	[C/T]	-	Intergenic	-
CWSNP8220	scaffold5328	117	[C/T]	-	Intergenic	-
CWSNP8221	scaffold535	156836	[G/A]	-	Intergenic	-
CWSNP8222	scaffold5358	2561	[C/A]	-	Intergenic	-
CWSNP8223	scaffold5358	3329	[C/A]	-	Intergenic	-
CWSNP8224	scaffold537	216656	[A/G]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP8225	scaffold543	20780	[T/G]	-	Intergenic	-
CWSNP8226	scaffold543	20819	[T/C]	-	Intergenic	-
CWSNP8227	scaffold543	20827	[G/T]	-	Intergenic	-
CWSNP8228	scaffold543	143169	[C/T]	-	DRR	-
CWSNP8229	scaffold543	143191	[G/A]	-	DRR	-
CWSNP8230	scaffold543	266748	[A/C]	-	Intergenic	-
CWSNP8231	scaffold543	266729	[A/C]	-	Intergenic	-
CWSNP8232	scaffold543	266848	[A/C]	-	Intergenic	-
CWSNP8233	scaffold545	17699	[A/C]	-	Intergenic	-
CWSNP8234	scaffold545	139118	[A/T]	Ca23923	Synonymous-CDS	Zinc finger,C2H2-type
CWSNP8235	scaffold545	147549	[G/A]	Ca23924	Non-Synonymous-CDS	Uncharacterised protein familyUPF0503
CWSNP8236	scaffold548	17462	[G/A]	Ca21478	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP8237	scaffold548	231396	[G/A]	-	DRR	-
CWSNP8238	scaffold5511	353	[G/A]	-	Intergenic	-
CWSNP8239	scaffold5511	366	[G/A]	-	Intergenic	-
CWSNP8240	scaffold5511	365	[T/G]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP8241	scaffold5511	396	[G/A]	-	Intergenic	-
CWSNP8242	scaffold553	310759	[T/A]	Ca19934	Intron	-
CWSNP8243	scaffold553	441898	[G/A]	Ca19938	Intron	Protein kinase, catalytic domain
CWSNP8244	scaffold553	794439	[G/T]	Ca19955	Non-Synonymous-CDS	PeptidaseS8/S53,subtilisin/kexin/sedolisin
CWSNP8245	scaffold562	221686	[C/A]	Ca23135	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP8246	scaffold562	221714	[C/T]	Ca23135	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP8247	scaffold562	221735	[G/A]	Ca23135	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP8248	scaffold562	221748	[C/A]	Ca23135	Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP8249	scaffold562	221758	[G/A]	Ca23135	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP8250	scaffold562	221769	[T/A]	Ca23135	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP8251	scaffold562	221778	[G/A]	Ca23135	Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP8252	scaffold562	221779	[G/A]	Ca23135	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP8253	scaffold562	221788	[G/A]	Ca23135	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP8254	scaffold562	221828	[T/A]	Ca23135	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP8255	scaffold562	221792	[C/A]	Ca23135	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP8256	scaffold562	255295	[G/A]	Ca23136	Intron	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP8257	scaffold562	289080	[C/A]	-	URR	-
CWSNP8258	scaffold562	290071	[C/T]	Ca23141	Intron	Protein of unknown function DUF642
CWSNP8259	scaffold5714	24882	[A/C]	-	Intergenic	-
CWSNP8260	scaffold5714	36359	[G/C]	-	DRR	-
CWSNP8261	scaffold5730	192	[A/G]	-	Intergenic	-
CWSNP8262	scaffold575	36238	[C/T]	Ca27000	Intron	-
CWSNP8263	scaffold575	45254	[C/T]	-	URR	-
CWSNP8264	scaffold575	45250	[T/C]	-	Intergenic	-
CWSNP8265	scaffold575	45236	[G/A]	-	Intergenic	-
CWSNP8266	scaffold575	45215	[C/A]	-	Intergenic	-
CWSNP8267	scaffold575	45192	[C/T]	-	Intergenic	-
CWSNP8268	scaffold575	45279	[G/C]	-	Intergenic	-
CWSNP8269	scaffold575	45245	[G/A]	-	URR	-
CWSNP8270	scaffold575	45237	[C/T]	-	Intergenic	-
CWSNP8271	scaffold575	45234	[C/T]	-	Intergenic	-
CWSNP8272	scaffold575	110772	[G/T]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP8273	scaffold575	110785	[C/T]	-	Intergenic	-
CWSNP8274	scaffold575	110765	[C/T]	-	Intergenic	-
CWSNP8275	scaffold575	110759	[C/T]	-	Intergenic	-
CWSNP8276	scaffold575	110753	[G/A]	-	Intergenic	-
CWSNP8277	scaffold575	117287	[T/G]	-	Intergenic	-
CWSNP8278	scaffold5792	65166	[A/C]	Ca26785	Non-Synonymous-CDS	Paired amphipathic helix
CWSNP8279	scaffold5792	86716	[T/C]	-	Intergenic	-
CWSNP8280	scaffold584	53203	[G/T]	Ca25252	Intron	SAGA-associated factor29
CWSNP8281	scaffold590	88429	[A/T]	Ca25557	Intron	WD40 repeat
CWSNP8282	scaffold590	88420	[T/C]	Ca25557	Intron	WD40 repeat
CWSNP8283	scaffold598	300825	[A/C]	Ca21757	Non-Synonymous-CDS	F-boxdomain,cyclin-like
CWSNP8284	scaffold598	300940	[C/T]	Ca21757	Synonymous-CDS	F-boxdomain,cyclin-like
CWSNP8285	scaffold598	404254	[G/C]	-	Intergenic	-
CWSNP8286	scaffold598	404275	[G/T]	-	Intergenic	-
CWSNP8287	scaffold599	349605	[T/G]	-	Intergenic	-
CWSNP8288	scaffold5997	742	[G/C]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP8289	scaffold5997	679	[C/T]	-	Intergenic	-
CWSNP8290	scaffold601	71998	[T/A]	-	Intergenic	-
CWSNP8291	scaffold605	23769	[A/C]	-	Intergenic	-
CWSNP8292	scaffold605	23773	[T/C]	-	Intergenic	-
CWSNP8293	scaffold605	23774	[A/G]	-	Intergenic	-
CWSNP8294	scaffold605	23775	[A/G]	-	Intergenic	-
CWSNP8295	scaffold605	23793	[A/G]	-	Intergenic	-
CWSNP8296	scaffold605	23795	[T/A]	-	Intergenic	-
CWSNP8297	scaffold605	23803	[A/G]	-	Intergenic	-
CWSNP8298	scaffold605	23808	[C/G]	-	Intergenic	-
CWSNP8299	scaffold605	23811	[G/A]	-	Intergenic	-
CWSNP8300	scaffold605	23816	[T/A]	-	Intergenic	-
CWSNP8301	scaffold605	84761	[A/C]	-	Intergenic	-
CWSNP8302	scaffold605	84765	[T/C]	-	Intergenic	-
CWSNP8303	scaffold605	84766	[A/G]	-	Intergenic	-
CWSNP8304	scaffold605	84767	[A/G]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP8305	scaffold605	84785	[A/G]	-	Intergenic	-
CWSNP8306	scaffold605	84787	[T/A]	-	Intergenic	-
CWSNP8307	scaffold605	84795	[A/G]	-	Intergenic	-
CWSNP8308	scaffold605	84800	[C/G]	-	Intergenic	-
CWSNP8309	scaffold605	84803	[G/A]	-	Intergenic	-
CWSNP8310	scaffold605	84807	[A/G]	-	Intergenic	-
CWSNP8311	scaffold62	46088	[C/T]	Ca26577	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP8312	scaffold624	254901	[C/T]	-	Intergenic	-
CWSNP8313	scaffold624	254950	[G/A]	-	Intergenic	-
CWSNP8314	scaffold624	254959	[T/C]	-	Intergenic	-
CWSNP8315	scaffold624	254971	[G/A]	-	Intergenic	-
CWSNP8316	scaffold624	254992	[C/T]	-	Intergenic	-
CWSNP8317	scaffold624	254942	[A/T]	-	Intergenic	-
CWSNP8318	scaffold6339	190	[T/G]	-	Intergenic	-
CWSNP8319	scaffold6367	6825	[G/T]	Ca27012	Synonymous-CDS	BP28,C-terminal
CWSNP8320	scaffold6367	10856	[T/G]	Ca27012	Intron	BP28,C-terminal

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP8321	scaffold6367	10842	[T/A]	Ca27012	Intron	BP28,C-terminal
CWSNP8322	scaffold6367	13651	[G/A]	Ca27012	Intron	BP28,C-terminal
CWSNP8323	scaffold6367	25674	[T/C]	Ca27013	Synonymous-CDS	Metallo-dependent phosphatase
CWSNP8324	scaffold637	107661	[A/C]	-	Intergenic	-
CWSNP8325	scaffold637	107636	[T/C]	-	Intergenic	-
CWSNP8326	scaffold637	107613	[C/G]	-	Intergenic	-
CWSNP8327	scaffold6403	1553	[T/A]	Ca27958	Synonymous-CDS	-
CWSNP8328	scaffold645	91908	[C/T]	-	Intergenic	-
CWSNP8329	scaffold653	145231	[A/G]	-	DRR	-
CWSNP8330	scaffold653	183054	[T/C]	-	URR	-
CWSNP8331	scaffold653	183063	[G/A]	-	URR	-
CWSNP8332	scaffold653	183069	[C/A]	-	URR	-
CWSNP8333	scaffold653	183074	[C/G]	-	URR	-
CWSNP8334	scaffold653	183078	[T/G]	-	URR	-
CWSNP8335	scaffold653	183091	[T/C]	-	URR	-
CWSNP8336	scaffold653	183143	[T/A]	-	URR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP8337	scaffold653	183135	[T/C]	-	URR	-
CWSNP8338	scaffold653	183112	[T/C]	-	URR	-
CWSNP8339	scaffold653	189129	[C/T]	Ca24313	Synonymous-CDS	Aminotransferase,classI/classII
CWSNP8340	scaffold653	197878	[A/T]	Ca24313	Non-Synonymous-CDS	Aminotransferase,classI/classII
CWSNP8341	scaffold661	180364	[G/T]	Ca23946	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP8342	scaffold661	180362	[A/C]	Ca23946	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP8343	scaffold661	180348	[C/T]	Ca23946	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP8344	scaffold661	180302	[G/T]	Ca23946	Non-Synonymous-CDS	PeptidaseC48,SUMO/Sentrin/Ubl1
CWSNP8345	scaffold661	311222	[G/T]	-	Intergenic	-
CWSNP8346	scaffold661	311182	[C/T]	-	Intergenic	-
CWSNP8347	scaffold663	16068	[G/A]	-	Intergenic	-
CWSNP8348	scaffold663	16042	[C/A]	-	Intergenic	-
CWSNP8349	scaffold663	16029	[G/A]	-	Intergenic	-
CWSNP8350	scaffold663	16056	[C/T]	-	Intergenic	-
CWSNP8351	scaffold663	16061	[A/G]	-	Intergenic	-
CWSNP8352	scaffold663	156613	[G/C]	-	DRR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP8353	scaffold674	91979	[T/A]	-	Intergenic	-
CWSNP8354	scaffold674	360388	[C/T]	-	Intergenic	-
CWSNP8355	scaffold674	360421	[G/A]	-	Intergenic	-
CWSNP8356	scaffold674	360406	[C/T]	-	Intergenic	-
CWSNP8357	scaffold674	360349	[G/A]	-	Intergenic	-
CWSNP8358	scaffold674	360411	[G/A]	-	Intergenic	-
CWSNP8359	scaffold674	360408	[G/T]	-	Intergenic	-
CWSNP8360	scaffold674	608623	[T/G]	Ca20172	Intron	Basic-leucine zipper (bZIP) Transcription factor
CWSNP8361	scaffold674	652382	[G/A]	-	Intergenic	-
CWSNP8362	scaffold674	826136	[T/C]	-	Intergenic	-
CWSNP8363	scaffold682	157238	[G/C]	Ca23185	Non-Synonymous-CDS	Transcriptional factor B3
CWSNP8364	scaffold682	578200	[T/G]	Ca23199	Synonymous-CDS	AMP-dependent synthetase/ligase
CWSNP8365	scaffold684	78894	[G/A]	Ca26805	Non-Synonymous-CDS	-
CWSNP8366	scaffold684	78883	[T/G]	Ca26805	Non-Synonymous-CDS	-
CWSNP8367	scaffold684	78871	[C/G]	Ca26805	Non-Synonymous-CDS	-
CWSNP8368	scaffold684	78842	[G/A]	Ca26805	Synonymous-CDS	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP8369	scaffold684	78844	[A/G]	Ca26805	Non-Synonymous-CDS	-
CWSNP8370	scaffold684	78864	[C/T]	Ca26805	Non-Synonymous-CDS	-
CWSNP8371	scaffold684	78893	[C/T]	Ca26805	Synonymous-CDS	-
CWSNP8372	scaffold702	247644	[G/C]	-	Intergenic	-
CWSNP8373	scaffold711	153694	[C/T]	Ca24295	Non-Synonymous-CDS	-
CWSNP8374	scaffold711	153680	[C/A]	Ca24295	Non-Synonymous-CDS	-
CWSNP8375	scaffold711	153667	[G/A]	Ca24295	Non-Synonymous-CDS	-
CWSNP8376	scaffold711	153697	[G/A]	Ca24295	Non-Synonymous-CDS	-
CWSNP8377	scaffold711	153699	[A/G]	Ca24295	Synonymous-CDS	-
CWSNP8378	scaffold711	153706	[G/A]	Ca24295	Non-Synonymous-CDS	-
CWSNP8379	scaffold716	212326	[G/A]	-	DRR	-
CWSNP8380	scaffold716	269230	[A/C]	-	Intergenic	-
CWSNP8381	scaffold716	269242	[A/G]	-	Intergenic	-
CWSNP8382	scaffold716	269266	[G/T]	-	Intergenic	-
CWSNP8383	scaffold716	269281	[T/G]	-	Intergenic	-
CWSNP8384	scaffold716	269335	[G/A]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP8385	scaffold716	269332	[C/T]	-	Intergenic	-
CWSNP8386	scaffold716	269314	[G/A]	-	Intergenic	-
CWSNP8387	scaffold716	269299	[T/C]	-	Intergenic	-
CWSNP8388	scaffold719	11850	[C/T]	-	Intergenic	-
CWSNP8389	scaffold720	60880	[G/A]	-	URR	-
CWSNP8390	scaffold720	370639	[T/A]	-	Intergenic	-
CWSNP8391	scaffold720	370725	[G/A]	-	Intergenic	-
CWSNP8392	scaffold724	25019	[G/A]	-	Intergenic	-
CWSNP8393	scaffold724	25722	[G/C]	-	DRR	-
CWSNP8394	scaffold731	315093	[G/A]	-	Intergenic	-
CWSNP8395	scaffold731	315114	[C/T]	-	Intergenic	-
CWSNP8396	scaffold731	315135	[G/T]	-	Intergenic	-
CWSNP8397	scaffold731	315138	[C/T]	-	Intergenic	-
CWSNP8398	scaffold731	315141	[G/A]	-	Intergenic	-
CWSNP8399	scaffold731	332497	[G/A]	Ca23816	Synonymous-CDS	Ribosomal proteinS7
CWSNP8400	scaffold731	332467	[G/C]	Ca23816	Synonymous-CDS	Ribosomal proteinS7

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP8401	scaffold731	332465	[T/A]	Ca23816	Non-Synonymous-CDS	Ribosomal proteinS7
CWSNP8402	scaffold731	332464	[G/T]	Ca23816	Synonymous-CDS	Ribosomal proteinS7
CWSNP8403	scaffold731	332458	[A/T]	Ca23816	Non-Synonymous-CDS	Ribosomal proteinS7
CWSNP8404	scaffold731	357674	[G/A]	-	Intergenic	-
CWSNP8405	scaffold731	357645	[G/T]	-	Intergenic	-
CWSNP8406	scaffold731	357644	[G/C]	-	Intergenic	-
CWSNP8407	scaffold731	357642	[T/A]	-	Intergenic	-
CWSNP8408	scaffold731	357641	[G/T]	-	Intergenic	-
CWSNP8409	scaffold731	357635	[A/T]	-	Intergenic	-
CWSNP8410	scaffold731	362123	[G/A]	-	URR	-
CWSNP8411	scaffold731	362118	[C/A]	-	URR	-
CWSNP8412	scaffold731	362114	[A/C]	-	URR	-
CWSNP8413	scaffold731	362553	[C/T]	-	URR	-
CWSNP8414	scaffold731	362554	[T/A]	-	URR	-
CWSNP8415	scaffold731	362555	[T/G]	-	URR	-
CWSNP8416	scaffold731	362556	[C/A]	-	URR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP8417	scaffold731	362574	[T/C]	-	URR	-
CWSNP8418	scaffold731	362581	[A/G]	-	URR	-
CWSNP8419	scaffold731	362582	[T/C]	-	URR	-
CWSNP8420	scaffold731	362594	[G/T]	-	URR	-
CWSNP8421	scaffold731	362610	[C/T]	-	URR	-
CWSNP8422	scaffold731	372255	[G/A]	-	URR	-
CWSNP8423	scaffold731	372253	[G/T]	-	URR	-
CWSNP8424	scaffold731	372250	[G/A]	-	URR	-
CWSNP8425	scaffold731	372244	[C/T]	-	URR	-
CWSNP8426	scaffold731	372243	[A/T]	-	URR	-
CWSNP8427	scaffold731	372215	[A/G]	-	URR	-
CWSNP8428	scaffold731	372209	[G/C]	-	URR	-
CWSNP8429	scaffold731	372183	[C/T]	-	URR	-
CWSNP8430	scaffold731	372959	[A/C]	-	URR	-
CWSNP8431	scaffold7355	3608	[A/G]	Ca28031	Intron	CCT domain
CWSNP8432	scaffold7355	3602	[T/C]	Ca28031	Intron	CCT domain

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP8433	scaffold7355	3572	[A/G]	Ca28031	Intron	CCT domain
CWSNP8434	scaffold752	382375	[G/A]	Ca25235	Intron	Dual specificity phosphatase,catalytic domain
CWSNP8435	scaffold752	497452	[T/A]	-	DRR	-
CWSNP8436	scaffold752	497454	[A/G]	-	DRR	-
CWSNP8437	scaffold758	16480	[G/T]	-	Intergenic	-
CWSNP8438	scaffold7715	3434	[A/T]	Ca27664	Synonymous-CDS	-
CWSNP8439	scaffold772	53192	[C/T]	-	Intergenic	-
CWSNP8440	scaffold772	53196	[C/T]	-	Intergenic	-
CWSNP8441	scaffold775	89238	[T/C]	-	Intergenic	-
CWSNP8442	scaffold775	89239	[C/T]	-	Intergenic	-
CWSNP8443	scaffold775	356107	[C/A]	-	Intergenic	-
CWSNP8444	scaffold775	448604	[G/A]	-	DRR	-
CWSNP8445	scaffold775	448743	[T/C]	-	DRR	-
CWSNP8446	scaffold776	188888	[G/A]	-	Intergenic	-
CWSNP8447	scaffold7765	503	[C/T]	-	Intergenic	-
CWSNP8448	scaffold7765	549	[G/A]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP8449	scaffold783	201617	[T/C]	-	Intergenic	-
CWSNP8450	scaffold783	244209	[T/C]	-	Intergenic	-
CWSNP8451	scaffold7842	727	[C/T]	-	Intergenic	-
CWSNP8452	scaffold7842	1078	[G/A]	-	Intergenic	-
CWSNP8453	scaffold7842	1075	[C/T]	-	Intergenic	-
CWSNP8454	scaffold7842	1042	[T/C]	-	Intergenic	-
CWSNP8455	scaffold7842	1024	[T/G]	-	Intergenic	-
CWSNP8456	scaffold787	4363	[A/G]	-	Intergenic	-
CWSNP8457	scaffold794	50239	[G/A]	-	Intergenic	-
CWSNP8458	scaffold794	50240	[C/A]	-	Intergenic	-
CWSNP8459	scaffold799	3930	[A/G]	-	Intergenic	-
CWSNP8460	scaffold801	67115	[C/T]	Ca26176	Intron	PeptidaseS10,serine carboxypeptidase
CWSNP8461	scaffold806	129263	[A/G]	-	Intergenic	-
CWSNP8462	scaffold806	129265	[G/T]	-	Intergenic	-
CWSNP8463	scaffold809	48678	[T/C]	-	DRR	-
CWSNP8464	scaffold809	48650	[C/A]	-	DRR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP8465	scaffold809	53431	[G/A]	-	Intergenic	-
CWSNP8466	scaffold809	53444	[G/A]	-	Intergenic	-
CWSNP8467	scaffold809	53474	[G/A]	-	Intergenic	-
CWSNP8468	scaffold809	53464	[G/A]	-	Intergenic	-
CWSNP8469	scaffold809	53470	[C/G]	-	Intergenic	-
CWSNP8470	scaffold811	81373	[C/T]	-	Intergenic	-
CWSNP8471	scaffold812	34686	[C/T]	-	Intergenic	-
CWSNP8472	scaffold812	246208	[A/C]	-	Intergenic	-
CWSNP8473	scaffold812	528815	[C/G]	-	Intergenic	-
CWSNP8474	scaffold8226	21624	[G/A]	-	Intergenic	-
CWSNP8475	scaffold8226	21592	[T/G]	-	Intergenic	-
CWSNP8476	scaffold8226	21590	[T/C]	-	Intergenic	-
CWSNP8477	scaffold8226	21572	[T/A]	-	Intergenic	-
CWSNP8478	scaffold842	13898	[T/C]	-	Intergenic	-
CWSNP8479	scaffold842	13928	[G/T]	-	Intergenic	-
CWSNP8480	scaffold842	13946	[T/C]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP8481	scaffold845	28172	[G/T]	-	Intergenic	-
CWSNP8482	scaffold845	45557	[A/G]	Ca22411	Synonymous-CDS	Cation efflux protein
CWSNP8483	scaffold845	71041	[A/G]	-	DRR	-
CWSNP8484	scaffold845	129326	[C/G]	Ca22416	Synonymous-CDS	Dehydrogenase,E1component
CWSNP8485	scaffold845	129370	[A/G]	Ca22416	Synonymous-CDS	Dehydrogenase,E1component
CWSNP8486	scaffold845	130569	[G/C]	Ca22416	Synonymous-CDS	Dehydrogenase,E1component
CWSNP8487	scaffold845	131911	[A/G]	Ca22416	Intron	Dehydrogenase,E1component
CWSNP8488	scaffold845	136796	[A/G]	Ca22417	Intron	Zinc finger,RING-type
CWSNP8489	scaffold845	139268	[G/A]	Ca22417	Synonymous-CDS	Zinc finger,RING-type
CWSNP8490	scaffold845	154556	[T/C]	Ca22418	Intron	Glycosyltransferase,group1
CWSNP8491	scaffold845	205934	[T/C]	Ca22422	Synonymous-CDS	PeptidaseS8/S53,subtilisin/kexin/sedolisin
CWSNP8492	scaffold848	39934	[T/G]	-	Intergenic	-
CWSNP8493	scaffold848	39984	[G/T]	-	Intergenic	-
CWSNP8494	scaffold848	39985	[C/T]	-	Intergenic	-
CWSNP8495	scaffold848	39990	[A/G]	-	Intergenic	-
CWSNP8496	scaffold848	39994	[C/T]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP8497	scaffold848	158548	[T/C]	-	Intergenic	-
CWSNP8498	scaffold848	158557	[G/A]	-	Intergenic	-
CWSNP8499	scaffold848	158569	[C/T]	-	Intergenic	-
CWSNP8500	scaffold848	158570	[A/G]	-	Intergenic	-
CWSNP8501	scaffold848	158611	[C/T]	-	Intergenic	-
CWSNP8502	scaffold848	158638	[G/A]	-	Intergenic	-
CWSNP8503	scaffold848	158626	[G/T]	-	Intergenic	-
CWSNP8504	scaffold848	158594	[A/G]	-	Intergenic	-
CWSNP8505	scaffold8586	4415	[A/G]	-	Intergenic	-
CWSNP8506	scaffold8641	472	[C/T]	-	Intergenic	-
CWSNP8507	scaffold8641	460	[T/C]	-	Intergenic	-
CWSNP8508	scaffold8646	2056	[A/T]	-	Intergenic	-
CWSNP8509	scaffold8646	2073	[G/A]	-	Intergenic	-
CWSNP8510	scaffold8648	3977	[A/G]	-	Intergenic	-
CWSNP8511	scaffold866	27279	[C/T]	-	Intergenic	-
CWSNP8512	scaffold87	182788	[A/C]	Ca23388	Synonymous-CDS	PeptidaseS8/S53,subtilisin/kexin/sedolisin

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP8513	scaffold873	265386	[C/T]	-	URR	-
CWSNP8514	scaffold873	265396	[C/T]	-	URR	-
CWSNP8515	scaffold873	265399	[C/A]	-	URR	-
CWSNP8516	scaffold873	265458	[C/T]	-	URR	-
CWSNP8517	scaffold875	49179	[T/C]	-	Intergenic	-
CWSNP8518	scaffold875	51703	[C/G]	-	DRR	-
CWSNP8519	scaffold875	51702	[T/A]	-	DRR	-
CWSNP8520	scaffold875	51701	[T/C]	-	DRR	-
CWSNP8521	scaffold875	51704	[C/A]	-	DRR	-
CWSNP8522	scaffold875	62738	[A/G]	-	Intergenic	-
CWSNP8523	scaffold877	9813	[G/A]	Ca28083	Non-Synonymous-CDS	Orotidine5'-phosphate decarboxylase domain
CWSNP8524	scaffold877	9851	[C/T]	Ca28083	Synonymous-CDS	Orotidine5'-phosphate decarboxylase domain
CWSNP8525	scaffold88	9982	[C/A]	Ca22168	Intron	Dakkinase
CWSNP8526	scaffold88	16398	[C/T]	Ca22169	Non-Synonymous-CDS	ZF-HD homeobox protein,Cys/His-rich dimerisation domain
CWSNP8527	scaffold88	274006	[A/G]	Ca22187	Intron	RNA polymerase II subunit A
CWSNP8528	scaffold882	117376	[G/A]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP8529	scaffold882	118266	[G/T]	-	Intergenic	-
CWSNP8530	scaffold882	232570	[T/G]	-	Intergenic	-
CWSNP8531	scaffold882	358449	[T/A]	-	Intergenic	-
CWSNP8532	scaffold887_1	26134	[C/A]	Ca17229	Intron	Forkhead-associated (FHA) domain
CWSNP8533	scaffold887_1	26121	[A/C]	Ca17229	Intron	Forkhead-associated (FHA) domain
CWSNP8534	scaffold887_1	26108	[G/T]	Ca17229	Intron	Forkhead-associated (FHA) domain
CWSNP8535	scaffold887_1	144885	[T/C]	Ca17233	Intron	RNA recognition motif domain
CWSNP8536	scaffold887_1	260488	[A/C]	-	URR	-
CWSNP8537	scaffold892	24349	[T/C]	Ca27454	Non-Synonymous-CDS	Sugar/inositol transporter
CWSNP8538	scaffold892	24323	[A/G]	Ca27454	Intron	-
CWSNP8539	scaffold892	24317	[G/T]	Ca27454	Intron	-
CWSNP8540	scaffold892	24316	[T/A]	Ca27454	Intron	-
CWSNP8541	scaffold892	35527	[T/C]	Ca27455	Non-Synonymous-CDS	Sugar/inositol transporter
CWSNP8542	scaffold892	35501	[A/G]	Ca27455	Synonymous-CDS	-
CWSNP8543	scaffold892	35495	[G/T]	Ca27455	Synonymous-CDS	-
CWSNP8544	scaffold892	35494	[T/A]	Ca27455	Non-Synonymous-CDS	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP8545	scaffold892	35489	[A/G]	Ca27455	Synonymous-CDS	-
CWSNP8546	scaffold892	35514	[G/T]	Ca27455	Non-Synonymous-CDS	-
CWSNP8547	scaffold895	18621	[C/A]	-	Intergenic	-
CWSNP8548	scaffold895	18693	[G/C]	-	Intergenic	-
CWSNP8549	scaffold895	20978	[T/C]	Ca24246	Non-Synonymous-CDS	Leucine-rich repeat
CWSNP8550	scaffold895	158250	[A/G]	-	Intergenic	-
CWSNP8551	scaffold901	91817	[C/T]	Ca26439	Intron	K Homology
CWSNP8552	scaffold901	91849	[T/C]	Ca26439	Synonymous-CDS	K Homology
CWSNP8553	scaffold908	15845	[C/A]	-	Intergenic	-
CWSNP8554	scaffold908	15841	[G/A]	-	Intergenic	-
CWSNP8555	scaffold908	15816	[C/T]	-	Intergenic	-
CWSNP8556	scaffold908	15813	[G/T]	-	Intergenic	-
CWSNP8557	scaffold908	15810	[A/G]	-	Intergenic	-
CWSNP8558	scaffold908	15799	[C/T]	-	Intergenic	-
CWSNP8559	scaffold908	15786	[G/A]	-	Intergenic	-
CWSNP8560	scaffold908	15785	[G/A]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP8561	scaffold908	15822	[C/T]	-	Intergenic	-
CWSNP8562	scaffold908	15834	[C/A]	-	Intergenic	-
CWSNP8563	scaffold913	332494	[G/C]	Ca23215	Non-Synonymous-CDS	-
CWSNP8564	scaffold913	403513	[G/A]	-	Intergenic	-
CWSNP8565	scaffold913	403572	[C/G]	-	Intergenic	-
CWSNP8566	scaffold913	403553	[T/C]	-	Intergenic	-
CWSNP8567	scaffold913	403531	[A/C]	-	Intergenic	-
CWSNP8568	scaffold914	53125	[T/A]	-	Intergenic	-
CWSNP8569	scaffold914	53132	[C/T]	-	Intergenic	-
CWSNP8570	scaffold916	1036	[A/G]	Ca21034	Non-Synonymous-CDS	Major facilitator superfamily MFS-1
CWSNP8571	scaffold916	275497	[T/C]	Ca21047	Intron	C4-dicarboxylate transporter/malicacid transport protein
CWSNP8572	scaffold916	275510	[A/T]	Ca21047	Intron	C4-dicarboxylate transporter/malicacid transport protein
CWSNP8573	scaffold916	275512	[G/T]	Ca21047	Intron	C4-dicarboxylate transporter/malicacid transport protein
CWSNP8574	scaffold916	275519	[A/C]	Ca21047	Intron	C4-dicarboxylate transporter/malicacid transport protein
CWSNP8575	scaffold916	275493	[A/T]	Ca21047	Intron	C4-dicarboxylate transporter/malicacid transport protein
CWSNP8576	scaffold919	119274	[T/C]	Ca22829	Intron	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP8577	scaffold922	111921	[C/A]	Ca27326	Intron	Protein of unknown function DUF3414
CWSNP8578	scaffold922	121629	[T/C]	-	Intergenic	-
CWSNP8579	scaffold93	205677	[G/A]	Ca23069	Synonymous-CDS	Lipoxygenase
CWSNP8580	scaffold93	506983	[C/A]	-	URR	-
CWSNP8581	scaffold93	640373	[A/C]	-	Intergenic	-
CWSNP8582	scaffold93	640389	[G/T]	-	Intergenic	-
CWSNP8583	scaffold93	640430	[C/T]	-	Intergenic	-
CWSNP8584	scaffold93	640487	[A/C]	-	Intergenic	-
CWSNP8585	scaffold93	640459	[G/T]	-	Intergenic	-
CWSNP8586	scaffold93	640448	[T/C]	-	Intergenic	-
CWSNP8587	scaffold93	640445	[C/T]	-	Intergenic	-
CWSNP8588	scaffold93	640444	[G/T]	-	Intergenic	-
CWSNP8589	scaffold93	645328	[A/C]	-	Intergenic	-
CWSNP8590	scaffold93	645344	[G/T]	-	Intergenic	-
CWSNP8591	scaffold93	645442	[A/C]	-	Intergenic	-
CWSNP8592	scaffold93	645414	[G/T]	-	Intergenic	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP8593	scaffold93	645403	[T/C]	-	Intergenic	-
CWSNP8594	scaffold93	645400	[C/T]	-	Intergenic	-
CWSNP8595	scaffold93	645399	[G/T]	-	Intergenic	-
CWSNP8596	scaffold93	645402	[G/A]	-	Intergenic	-
CWSNP8597	scaffold93	651020	[C/T]	-	Intergenic	-
CWSNP8598	scaffold93	651018	[C/T]	-	Intergenic	-
CWSNP8599	scaffold93	650981	[T/C]	-	Intergenic	-
CWSNP8600	scaffold93	650968	[G/A]	-	Intergenic	-
CWSNP8601	scaffold93	650958	[G/A]	-	Intergenic	-
CWSNP8602	scaffold93	650955	[T/C]	-	Intergenic	-
CWSNP8603	scaffold931	13212	[T/C]	-	Intergenic	-
CWSNP8604	scaffold9323	5263	[A/G]	-	Intergenic	-
CWSNP8605	scaffold937	132087	[C/G]	-	DRR	-
CWSNP8606	scaffold937	134580	[C/G]	Ca25988	Intron	Vacuolar ATPase assembly integral membrane protein VMA21-like domain
CWSNP8607	scaffold937	134707	[G/A]	Ca25988	Intron	Vacuolar ATPase assembly integral membrane protein VMA21-like domain
CWSNP8608	scaffold948	12188	[C/T]	-	URR	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP8609	scaffold948	21152	[C/T]	Ca27369	Non-Synonymous-CDS	AHook,DNA-binding motif
CWSNP8610	scaffold953	42329	[T/C]	-	Intergenic	-
CWSNP8611	scaffold953	57413	[A/T]	-	Intergenic	-
CWSNP8612	scaffold956	21441	[C/A]	-	Intergenic	-
CWSNP8613	scaffold956	27710	[T/G]	-	Intergenic	-
CWSNP8614	scaffold956	27693	[T/C]	-	Intergenic	-
CWSNP8615	scaffold956	28015	[A/C]	-	Intergenic	-
CWSNP8616	scaffold956	28014	[T/A]	-	Intergenic	-
CWSNP8617	scaffold962	149524	[C/T]	Ca26502	Non-Synonymous-CDS	-
CWSNP8618	scaffold962	149545	[C/T]	Ca26502	Non-Synonymous-CDS	-
CWSNP8619	scaffold962	149580	[G/A]	Ca26502	Non-Synonymous-CDS	-
CWSNP8620	scaffold962	149585	[A/G]	Ca26502	Synonymous-CDS	-
CWSNP8621	scaffold962	149645	[G/T]	Ca26502	Synonymous-CDS	-
CWSNP8622	scaffold962	149631	[G/A]	Ca26502	Non-Synonymous-CDS	-
CWSNP8623	scaffold962	149589	[G/A]	Ca26502	Non-Synonymous-CDS	-
CWSNP8624	scaffold962	149583	[G/A]	Ca26502	Non-Synonymous-CDS	-

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP8625	scaffold962	149577	[G/T]	Ca26502	Non-Synonymous-CDS	-
CWSNP8626	scaffold962	149689	[G/A]	Ca26502	Non-Synonymous-CDS	-
CWSNP8627	scaffold962	149687	[A/T]	Ca26502	Synonymous-CDS	-
CWSNP8628	scaffold962	149676	[T/C]	Ca26502	Non-Synonymous-CDS	-
CWSNP8629	scaffold962	149661	[G/A]	Ca26502	Non-Synonymous-CDS	-
CWSNP8630	scaffold962	149649	[C/T]	Ca26502	Non-Synonymous-CDS	-
CWSNP8631	scaffold962	149628	[G/A]	Ca26502	Non-Synonymous-CDS	-
CWSNP8632	scaffold962	149613	[G/T]	Ca26502	Non-Synonymous-CDS	-
CWSNP8633	scaffold963	77099	[C/T]	-	Intergenic	-
CWSNP8634	scaffold98	287956	[T/A]	-	Intergenic	-
CWSNP8635	scaffold98	287933	[T/C]	-	Intergenic	-
CWSNP8636	scaffold98	440243	[G/C]	-	Intergenic	-
CWSNP8637	scaffold98	562979	[G/A]	Ca21399	Intron	Zinc finger, FYVE-type
CWSNP8638	scaffold981	84088	[C/G]	Ca27591	Non-Synonymous-CDS	Endonuclease/exonuclease/phosphatase
CWSNP8639	scaffold981	84072	[G/A]	Ca27591	Non-Synonymous-CDS	Endonuclease/exonuclease/phosphatase
CWSNP8640	scaffold981	84057	[A/G]	Ca27591	Non-Synonymous-CDS	Endonuclease/exonuclease/phosphatase

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP8641	scaffold981	84007	[C/G]	Ca27591	Intron	Endonuclease/exonuclease/phosphatase
CWSNP8642	scaffold999	77761	[A/T]	-	Intergenic	-
CWSNP8643	scaffold999	77763	[C/T]	-	Intergenic	-
CWSNP8644	scaffold999	77767	[A/T]	-	Intergenic	-
CWSNP8645	C11058086	341	[G/A]	-	Intergenic	-
CWSNP8646	C11062436	381	[T/A]	-	Intergenic	-
CWSNP8647	C11079766	1418	[A/C]	-	Intergenic	-
CWSNP8648	C11079766	1422	[G/C]	-	Intergenic	-
CWSNP8649	C11079766	1412	[A/T]	-	Intergenic	-
CWSNP8650	C11080716	1568	[A/C]	-	Intergenic	-
CWSNP8651	C11084624	656	[G/A]	-	Intergenic	-
CWSNP8652	C11086066	641	[A/C]	-	Intergenic	-
CWSNP8653	C11086066	624	[A/C]	-	Intergenic	-
CWSNP8654	C11132768	2177	[G/A]	-	Intergenic	-
CWSNP8655	C11142252	3299	[A/C]	Ca27871	Intron	Ribosomal proteinS7
CWSNP8656	C11143608	1389	[A/T]	Ca27926	Intron	DNA-directed RNA polymerase, subunit 2,domain 6

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP8657	C11147634	3004	[C/A]	Ca28253	Intron	Domain of unknown function DUF231,plant
CWSNP8658	C11147634	3028	[C/T]	Ca28253	Intron	Domain of unknown function DUF231,plant
CWSNP8659	C11149092	2474	[T/A]	-	Intergenic	-
CWSNP8660	C11149092	3190	[T/G]	-	Intergenic	-
CWSNP8661	C11149092	3284	[C/G]	-	Intergenic	-
CWSNP8662	C11157320	766	[C/G]	Ca28268	Intron	GCN5-relatedN-acetyltransferase (GNAT) domain
CWSNP8663	C11157320	2169	[T/A]	Ca28268	Intron	GCN5-relatedN-acetyltransferase (GNAT) domain
CWSNP8664	C11157320	2152	[G/C]	Ca28268	Intron	GCN5-relatedN-acetyltransferase (GNAT) domain
CWSNP8665	C11160518	4522	[A/G]	Ca28216	Non-Synonymous-CDS	CytochromeP450
CWSNP8666	C11164954	5784	[G/A]	Ca28056	Non-Synonymous-CDS	Protein of unknown function DUF2930
CWSNP8667	C11165890	154	[C/G]	-	Intergenic	-
CWSNP8668	C11175430	3929	[T/G]	Ca27727	Non-Synonymous-CDS	ABC transporter, transmembrane domain
CWSNP8669	C11175430	3936	[G/T]	Ca27727	Non-Synonymous-CDS	ABC transporter, transmembrane domain
CWSNP8670	C11175430	3952	[T/C]	Ca27727	Non-Synonymous-CDS	ABC transporter, transmembrane domain
CWSNP8671	C11177172	2529	[T/G]	Ca28257	Intron	U3 small nucleolar RNA-associated protein 10
CWSNP8672	C11177172	2515	[T/A]	Ca28257	Intron	U3 small nucleolar RNA-associated protein 10

SNP IDs	Chromosomes	Physical positions (bp)	SNPs	Gene accession IDs	Sequence components of genes	Putative functions
CWSNP8673	C11177172	5324	[G/A]	Ca28257	Intron	U3 small nucleolar RNA-associated protein 10
DRR: Downstream regulatory region						
URR: Upstream regulatory region						
CDS: Coding sequences						
CWSNP: Cultivated Wild SNP						