

Table S5. SSR molecular marker details table.

Chromosome	Marker name	Physical location	Primer forward(5'→3')	Primer reverse(3'→5')
Chr.1	RM10049	746,085	attgacaattgtgaagcgagaaaaggg	cctccagggtcttcgaccgccagt
Chr.1	RM10116	2,169,138	atcccacttgacagacgtagg	acagcagcaaggtgcctc
Chr.1	RM10176	3,637,718	agcaccatcagctcagctactcc	gaaggcttctgtcaagacgatcc
Chr.1	RM243	7,970,722	gatctgcagactgcagttgc	agctgcaacgatgtgtcc
Chr.1	RM1151	8,577,052	gaccgcaaaagatcatcgac	gtaacagcgaccgttggtg
Chr.1	RM6466	9,191,088	cgaacgagaactccctcatg	attgcaccaaggagatcg
Chr.1	RM23	10,705,594	cattggagtggaggctgg	gtcaggcttctgccattctc
Chr.1	RM140	12,300,716	tgcctcttccctggctcccctg	ggcatgccgaatgaaatgcatg
Chr.1	RM129	19,008,692	tctctcggagccaaggcgagg	cgagccacgacgcgatgtacc
Chr.1	RM3475	26,041,024	gtcggtttgctagttagc	ttctcgggtgatgggtctc
Chr.1	RM246	27,335,176	gagctccatcagccattcag	ctgagtgtgtgctgcgact
Chr.1	RM297	32,099,566	tctttggaggcgagctgag	cgaagggtacatctgcttag
Chr.1	RM212	33,053,493	ccactttcagctactaccag	caccatttgtctctcattatg
Chr.1	RM315	36,734,135	gaggtacttctccgtttcac	agtcagctcactgtgcagtg
Chr.1	RM12208	41,941,608	gggaggcatgtagatgcagagc	ctccaatggtgaaatcgaatgg
Chr.2	RM154	1,083,820	gacggtgacgcactttatgaacc	cgatctgcgagaaacctctcc
Chr.2	RM1285	3,837,901	tctccagggaacagggtacac	gtggtacaatgtgcagtggc
Chr.2	RM3294	5,204,941	ttacacacactacggacgag	cctggtggtacctctcttaatc
Chr.2	RM5780	5,453,144	gctgctgcacttctactgc	acgcacatgcctaagcctag
Chr.2	RM71	8,760,433	ctagaggcgaaaacgagatg	gggtgggcgaggttaataatg
Chr.2	RM29	16,575,205	cagggaccacctgtcatc	aacgttggtcatatcggtgg
Chr.2	RM475	20,399,319	cctcacgatttctccaac	acggtgggattagactgtgc
Chr.2	RM262	20,794,972	cattccgtctcggtcaact	cagagcaaggtggcttgc
Chr.2	RM6	29,579,845	gtccctccaccaattc	tcgtctactgttggtgcac
Chr.2	RM213	34,652,316	atctgtttgcaggggacaag	aggtctagacgatgtcgtga
Chr.2	RM208	35,135,783	tctgcaagccttgtctgatg	taagtcatcattgtgtggacc
Chr.2	RM138	35,674,147	agcgcaacaaccaatccatccg	aagaagctgcctttgacgctatgg
Chr.3	RM22	1,519,587	ggtttgggagcccataatct	ctgggcttcttctactcgtc
Chr.3	RM569	1,888,272	gacattctcgcttgcctc	tgccccctctaaaacctcc
Chr.3	RM4352	4,313,896	gttgttcaccatagtcaga	atacattcatgaaacctgcc
Chr.3	RM545	4,947,911	caatggcagagacccaaaag	ctggcatgtaacgacagtgg
Chr.3	RM14586	5,987,554	gggtgtgagccaagaactgacc	cctcaaggaaatcctcgtaagtgcg

Chr.3	RM1324	6,036,117	tgttgatcccttgataggg	agcaagatcagctagctgcc
Chr.3	RM232	9,734,810	ccggtatccttcgatattgc	ccgacttttctcctgacg
Chr.3	RM251	9,928,907	gaatggcaatggcgctag	atgcggttcaagattcgatc
Chr.3	RM282	12,407,382	ctgtgtcgaaaggctgcac	cagtctctgtttgcagcaag
Chr.3	RM16	23,126,064	cgctagggcagcatctaaa	aacacagcaggtacgcgc
Chr.3	RM15759	28,314,615	caggatcggacaggatcacagg	gctcctggcgagctatagacc
Chr.3	RM85	36,348,226	ccaaagatgaaacctggattg	gcacaaggtgagcagtc
Chr.4	RM335	688,353	gtacacacccacatcgagaag	gctctatgcgagtatccatgg
Chr.4	RM518	2,030,135	ctttcactcactcacatgg	atccatctggagcaagcaac
Chr.4	RM307	13,126,513	gtactaccgacctaccgttac	ctgctatgatgaactgctc
Chr.4	RM401	13,154,172	tggaacagatagggtgtaaggg	ccgttcacaacactatacaagc
Chr.4	RM6314	18,444,943	gattcgtgtcggttgtcaag	gggtcagggacgaattcag
Chr.4	RM471	18,824,746	acgcacaagcagatgatgag	gggagaagacgaatgtttgc
Chr.4	RM273	24,044,220	gaagccgtcgtgaagtacc	gtttcctacctgatcgcgac
Chr.4	RM241	26,857,374	gagccaaataagatcgctga	tgcaagcagcagatttagtg
Chr.4	RM280	34,989,558	acacgatccactttgcgc	tgtgtcttgagcagccagg
Chr.5	RM153	189,782	gcctcgagcatcatcatcag	atcaacctgcacttcctgg
Chr.5	RM13	1,989,212	tccaacatggcaagagagag	gggtggcattcgattccag
Chr.5	RM267	2,881,317	tgcagacatagagaaggaagtg	agcaacagcacaacttgatg
Chr.5	RM289	7,807,745	ttcatggcacacaagcc	ctgtgcacgaactccaaag
Chr.5	RM249	10,776,494	ggcgtaaagggtttgcatgt	atgatccatgaaggtcagc
Chr.5	RM509	16,324,561	tagtgaggagtggaacgg	atcgtecccaaatctcatc
Chr.5	RM164	19,196,472	tcttgccgctcactgcagatatcc	gcagccctaatgtacaattcttc
Chr.5	RM3870	22,900,326	tacatctccggcggtttacac	ccaaggttgaacaggaagc
Chr.5	RM18851	23,154,908	gcatcggtcaggtgatttacc	ggacgagttagtaagcacgatgg
Chr.5	RM274	26,848,154	cctcgcttatgagagcttcg	cttctccatcactcccatgg
Chr.5	RM87	27,104,235	cctctccgatacacccgtatg	gcgaaggtacgaaaggaaag
Chr.5	RM334	28,547,534	gttcagtggtcagtgccacc	gactttgatctttggtggacg
Chr.6	RM508	441,616	ggatagatcatgtgtggggg	acccgtgaaccacaaagaac
Chr.6	RM3805	2,853,061	agaggaagaagccaaggagg	catcaacgtaccaaccatgg
Chr.6	RM204	3,168,314	gtgactgacttggtcataggg	gtagccatgctctcgtacc
Chr.6	RM225	3,416,533	tgcccatatggtctggatg	gaaagtggtatcaggaaggc
Chr.6	RM314	4,878,802	ctagcaggaactccttcagg	aacattccacacacacgc
Chr.6	RM111	5,096,744	cacaaccttgagcaccgggtc	acgcctgcagttgatccagg
Chr.6	RM253	5,425,408	tcctcaagagtgcaaaacc	gcattgtcatgtcgaagcc

Chr.6	RM276	6,230,045	ctcaacgttgacacctcgtg	tcctccatcgagcagtatca
Chr.6	RM7551	20,948,206	tcacctcctctgccatctc	ctaactcacctccagcctgc
Chr.6	RM20361	24,099,497	cttgaaatttgtcgggaggttgc	gatgtcaccatcacggagaattagg
Chr.6	RM20509	27,027,550	caccgtcggagaaggactactgg	gagcagccgtaggtgtcaaatgc
Chr.6	RM20591	28,016,785	tcgtctgcgcgaatatttagagagg	atctgcatcggagtcagcaacg
Chr.6	RM340	28,599,181	ggtaaatggacaatcctatggc	gacaaatataagggcagtgctgc
Chr.7	RM5752	2,566,819	ttgcaattaatcgcctcc	gcagatcgattcgttagttc
Chr.7	RM481	2,874,465	tagctagccgattgaatggc	ctccacctcctatgttgttg
Chr.7	RM320	18,693,223	caacgtgatcgaggatagatc	ggatttgcttaccacagctc
Chr.7	RM11	19,256,914	tctcctcttccccgatc	atagcgggcgaggcttag
Chr.7	RM346	21,043,408	cgagagagcccataactacg	acaagacgacgaggaggagac
Chr.7	RM336	21,871,205	cttacagagaaacggcatcg	gctggtttgttcaggttcg
Chr.7	RM18	25,652,511	ttcctctcatgagctccat	gagtgcttggcgctgtac
Chr.7	RM3555	27,890,587	tggaagtttctggcgatag	tggttgactgaaaagtccc
Chr.8	RM152	682,963	gaaaccaccacacctcacg	ccgtagaccttctgaagtag
Chr.8	RM22804	11,313,822	ggaccaacctaagcagtactcg	ctgaagagcgcgatcatcaaatgtgg
Chr.8	RM339	17,812,339	gtaatcgatgctgtgggaag	gagtcatgtgatagccgatatg
Chr.8	RM42	20,094,533	atcctaccgctgacctgag	tttggtctacgtggcgtaga
Chr.8	RM210	22,471,837	tcacattcgggtggcattg	cgaggatggtgttcacttg
Chr.8	RM23339	24,012,302	acagcctatagctcacaccaaacc	gaacacctccgtctccattgc
Chr.8	RM447	26,546,992	cccttgctgtctcctctc	acgggcttcttctcctctc
Chr.8	RM3761	27,106,702	cctcaacaatagcaccaccc	ctgcaagtctgcaagcacag
Chr.8	RM264	27,926,632	gttgctgctactgctacttc	gatccgtgtcgatgattagc
Chr.9	RM444	5,925,016	gtccacctgcttaagcatc	tgaagacatgttctgcagg
Chr.9	RM219	7,888,320	cgtcggatgatgtaaagcct	catatcggcattcgcctg
Chr.9	RM1896	11,767,349	ggacagggtaaagtgttaga	cctaagacctatcaactcca
Chr.9	RM278	19,320,020	gtagtgagcctaacaataatc	tcaactcagcatctctgtcc
Chr.9	RM107	20,068,688	agatcgaagcatcgcgccgag	actgcgtcctctgggttcccgg
Chr.9	RM201	20,174,289	ctcgtttattacctacagtacc	ctacctctttctagaccgata
Chr.9	RM205	22,720,624	ctggttctgtatgggagcag	ctggcccttcacgtttcagtg
Chr.10	RM7492	53,666	agatgggtgccaagagcatg	gtcacgtggcgatttaggag
Chr.10	RM6370	344,385	ttgacaagccacacacag	gtcctcccttggttcttcc
Chr.10	RM311	9,747,442	tggtagtataggtactaaacat	tcctatacacatacaaacatac
Chr.10	RM467	13,488,471	ggtctctctctctctctctc	ctcctgacaattcaactcgcg
Chr.10	RM5708	14,456,288	aattagaacctctgaattg	gtatttaaggtcacgtatcg

Chr.10	RM1375	16,644,899	ctacacgcgcaaactctgtc	atgaaggctaggtgcacc
Chr.10	RM5620	17,403,621	tcgacttgaagcatcacacc	tctgaaatgtcaagtgggcc
Chr.10	RM1125	17,771,479	ggggccagagttttcttcag	gtacgcgcagaaaatgagag
Chr.10	RM6704	17,934,263	cacacattgcattacgaggg	caggggcagcttgaatactg
Chr.10	RM258	18,014,265	tgctgtatgtagctcgcacc	tggcctttaaagctgtcgc
Chr.10	RM304	18,655,588	tcaaaccggcacatataagac	gatagggagctgaaggagatg
Chr.10	RM171	19,048,795	aacgcgaggacacgtacttac	acgagatacgtacgcctttg
Chr.10	RM590	23,043,156	catctccgctctccatgc	ggagttggggtcttgttcg
Chr.11	RM286	383,711	ggcttcacgtttggcgac	ccggattcacgagataaactc
Chr.11	RM332	2,840,211	gcgaaggcgaaggtgaag	catgagtgtatcactcaccc
Chr.11	RM167	4,073,024	gatccagcgtgaggaacacgt	agtccgaccacaaggtgcgtgtc
Chr.11	RM202	9,001,608	cagattggagatgaagtcctcc	ccagcaagcatgtcaatgta
Chr.11	RM287	16,767,319	ttccctgttaagagagaaatc	gtgtatttggtaaagcaac
Chr.11	RM21	19,137,833	acagtattccgtaggcacgg	gctccatgaggggtgtagag
Chr.11	RM206	22,014,679	cccattgcgtttaactattct	cgttccatcgatccgatgg
Chr.11	RM254	23,729,167	agccccgaataatccacct	ctggaggagcatttggtagc
Chr.11	RM1233	26,534,048	ttcgttttcttggttagtg	attggctcctgaagaagg
Chr.11	RM224	27,673,353	atcgatcgatcttcacgagg	tgtataaaaaggcattcggg
Chr.11	RM144	28,281,693	tgccctggcgcaaatttgatcc	gctagaggagatcagatggtagtc
Chr.12	RM20A	970,538	atcttgccttcgaggcat	gaaacagaggcacatttcattg
Chr.12	RM19	2,432,080	caaaaacagagcagatgac	ctcaagatggacccaaga
Chr.12	RM247	3,185,384	tagtgccgatcgatgtaacg	catatggtttgacaaagcg
Chr.12	RM101	8,826,555	gtgaatggtaagttaggtggc	acacaacatgttcctcccatgc
Chr.12	RM28339	20,742,171	gttcaagtcgatcggctctgg	cgacgagaagaggtcgcagagg
Chr.12	RM270	25,002,547	ggccgttggttctaaaatc	tgcgcagtatcatcggcgag
Chr.12	RM2734	26,153,565	gctctactgctctagagcaa	gccacggattaatatatgaa
Chr.12	RM17	26,954,657	tgccctgttattttctctctc	ggtgatcctttccatttca