

SNP	SNPName_OARv1.0	SNPName_OARv2.0	SNP Type	Reference	Genotype	SNP Consensus Sequence
398	FADS_ locus_ 43597444	FADS_ locus_ 38013637	SNP	G	A/G	AACTGCCCACTGTTCCAGCTCTGAAGGCCAGTAATCTTAGCATGAAGAGTTCCTAC(A/G)CTCCCTTGTCTCCAGCGGAGCTGGGAGCAGATGCTCTGGGTGAGCCCA
399	FADS_ locus_ 43597462	FADS_ locus_ 38013655	SNP	C	C/G	GCTCTTGAAGGCCAGTAATCTTAGCATGAAGAGTTCCTACGCTTCCTGTTCTTCCAG(C/G)GGAGCTCGAGGCACTGGGACAGATGCTCTGGGTGAGCCAGGGGTCACTGCTCAGTCT
400	FADS_ locus_ 43597890	FADS_ locus_ 38014084	SNP	G	A/G	TGACAAAGGCTACTGCTCTGCCAGTAAACAGCCCACTGCTCTCTAAGGAGTCCAG(C/G)AGTGCAGGGAGGCGAGGCTGGTACGTCATTTCGACAGTGTGGGCATATAGCAACCAAC
401	FADS_ locus_ 43598352	FADS_ locus_ 38014546	SNP	A	G/A	TGCTAGCACTCTACAGCTGCTCCCAAGTCTCCCACTCTCAGGAATCACTCCG(T/A)GCGGCTGCACTGTAATGTTCTCACAGCTCAGATGGCAACTCAAAACCCAGCTGACC
402	FADS_ locus_ 43598565	FADS_ locus_ 38014759	SNP	G	A/G	TAGCTGTGTGGGGAGACAGTACACTGAAGGACGCTGGGAGCGATTAACAAGTGC(A/G)JGGGGCTGACGGCTGGGGTGGGGTGTCTAAAAGACCTGCAAGGAGGACCATCCATCG
403	FADS_ locus_ 43598840	FADS_ locus_ 38015034	SNP	C	C/T	CTCCACGACTCCAGTGCCTGGCCAGCCGGCAATGCTTACCACACAGACAGCA(C/T)GTGGAGACTCCCCGCAAGCCACTGTGCTGGCTGGTTCTGTGCTCCAAAGCATTAC
404	FADS_ locus_ 43599098	FADS_ locus_ 38015292	SNP	G	G/C	GGGGCCCTACAGAAAAGTGGGGTGTGAGTGAAGACCTGTGCCCTCTCCCCGG(T/C)JCTGAGTTTCAGAGAGTTCCTCCCACTCCCACTGACCTTCAAGTACCAAAATGAT
405	FADS_ locus_ 43599099	FADS_ locus_ 38015293	SNP	T	T/C	GGGCCCCCTACAGAAAAGTGGGGTGTGAGTGAAGACCTGTGCCCTCTCCCCGG(T/C)JGAGTTTCAGAGAGTTCCTCCCACTCCCACTGACCTTCAAGTACCAAAATGAT
406	FADS_ locus_ 43609296	FADS_ locus_ 38024477	SNP	T	T/C	GGTGGCTAGTTTCGCTGCAACTGCCAACCCAGAACAGACAGGAATGCAGATCTACT(C/G)JGAGAAAATGCTCCCTACCAGCGCTGTGAGCTAAACATTCAAGGATGAAGTAGGATC/
407	FADS_ locus_ 43609299	FADS_ locus_ 38024477	SNP	A	A/C	TGGCTTAGTTTCGCTGCAACTGCCAACCCAGAACAGACAGGAATGCAGATCTACTGG(A/C)JGAAATGCTCCCTACCAGCGCTGTGAGCTTAAACATTCAAGGATGAAGTAGGATC/
408	FADS_ locus_ 43609533	FADS_ locus_ 38024714	SNP	T	T/A	GACATAGCAAGGAAGGAGGAGCTGTGATAGAAAGACAGGATTCCTCTGAGAGACT(T/A)JGGGACTAGTCCGCTACTCCACTGCTGCTGTGTAATGTGTAAGTCAAGTCAAGCTC
409	FADS_ locus_ 43612630	FADS_ locus_ 38027197	SNP	C	C/G	AACTCTGACTCTCAGGCACAGGGTCTTCTTCTAATGTTAATAATAGCAAGGAGTCA(C/G)TGAGCACTCAGTATACCAGGCACTGTGCTAAACACATCAATTTTACTGGACAAAAC
410	FADS_ locus_ 43612823	FADS_ locus_ 38027390	SNP	G	G/A	CTGGACTATCTTTTTAAAGACTGAGGAGATTAGCTTTTTGTA AAAAGTGTGCCCAAAT(G/A)ATTTGAAACCAAGTCCCTTAAACCGAATTCCTGAAAGTCCCACTGTTTATAATTA/
411	FADS_ locus_ 43612947	FADS_ locus_ 38027514	SNP	G	G/A	TCTCATCTAGAATTCATCCCTTTCTTCCCTCTGACCTCAATCTGTCTACTGAG(A/J)CATTCATCAGCCAGAGTCAAGTACTAAACTACCATGGTGTGATAACATCACTACCTC
412	FADS_ locus_ 43613368	FADS_ locus_ 38027935	SNP	C	C/G	ACGCAGGACTATTTCCCTGACCAAGGATTGAATTCAGGCCCTTCGATTTGGGAGCAG(A/C)JCTCAGCCACTGGACCAGGAGGATTCCTCGCCCTTTTTAAAAATTTATTTTGA
413	FADS_ locus_ 43616829	FADS_ locus_ 38031384	SNP	C	C/T	CCTTATGCAGCTTTGCTCCCTCTGCAATCACAGAACCTGGAATGGTCTTGGAG(C/T)ATTTAAGTCACTGTCAGTTTCTAGTGTCAAGTCAAGGCACTGAAAGTAAATCCTT
414	FADS_ locus_ 43625530	FADS_ locus_ 38034183	SNP	G	G/T	AGTTTAGTCCATGCAACCAATATGGCTTCCATCCCGCTCTTCTCCCTGGGAAGGAAG(G/T)GGCACTAAATGCAGTGGAAAGGAATTTGGACTCAGAGTAAAGTCTTCAAGAAATGTGG
415	FADS_ locus_ 43625612	FADS_ locus_ 38034265	SNP	T	C/T	GAATTTGACTCTCAGAGTAAGCTCTTCAAGAGATGGCTGAAACAACTGTTTGTCTA(C/T)JTTGAGCTTAAAGAACTGCAGAACCACTGCAGAGAGGATAAGAGACTGGGCTGTTGCTC
416	FADS_ locus_ 43625956	FADS_ locus_ 38034610	SNP	A	A/G	CTTTATGCAGCTTTGAACTGTGGTGTGGAGAGAGTCTTGAAGTCTGTGGTGC(A/G)JGAGAACTCAACCACTGTTCACTTAAAGAGATCAGTCTGGGCTTATTGGAGAGCACTG
417	FADS_ locus_ 43626577	FADS_ locus_ 38035227	SNP	G	G/A	TGGCAGTCTTGGCCAGGCTTACTCAGTGGGATGTGATGACACTGAATGGCTCAGTCA(C/G)JGTTGCTGGCAGTTGGCAGGCTATTTAGACTGGGGAGTCTCACAATCTGAAAGTGGCTT
418	FADS_ locus_ 43629407	FADS_ locus_ 38038485	SNP	C	C/G	CCCAAATGCTAGCTCTCCGCTTACTCAGTCTCAAGACACACTGAACTCAACAACTCAACAACT(C/G)CCATCCAGTACATAGTATGAGGACTCAGCAAGAGGCTTTGGGCAAGGAAATG
419	FADS_ locus_ 43629508	FADS_ locus_ 38038586	SNP	G	G/A	TGTGGCAAAGGAGAAATGCTCACTGACTGCTATGTATCAATAACAACTGCTTCTC(G/A)JATAGTGTAAAACCTTGAAGCAAGGATGAAGACCCAGCAGATGGAAGAGAAAGGAAACCA/
420	FADS_ locus_ 43629577	FADS_ locus_ 38038655	SNP	A	A/G	AAAACCTTGAAGCAAGGATGAAGACCCAGCAGTGAAGAGAAAGGAAAGAACTTCTCA(C/A)GJGAAAGCAAGGTTGCTGTTGGGGCTGGGACCTGCTCTTAGAGAGGGAAGCAAGAC
421	FADS_ locus_ 43629738	FADS_ locus_ 38038816	SNP	G	A/G	CCTCTCCCTTGGTGGAGGACAGAAAGTATGATCAACCTCACTTCTGCTGTGAG(A/G)GATGGGAGGAGGACTTACAGAGAGAGTATTCTGAGGCTTCTCAGATGGTGTGACAGT
422	FADS_ locus_ 43630889	FADS_ locus_ 38039967	SNP	G	G/A	ACAAATGGGTATCTTGGCCCTTCCAAGGCACTCTGGGCCATTTGCTCATGGCAA(G/A)JATGGGTAATTTGACAGTATAGATATTAGAGAGTCAACCAAGGACTAAGTTGAGACAGGGGAGG
423	FADS_ locus_ 43632068	FADS_ locus_ 38041135	SNP	A	A/G	CAGAGGTTTTGTTGACTGTTGAAATATCAGTACTGACAAATGGGGAGGGAAGGG(A/G)GCCACAGTCCCAAGTCTTAAAGGATAAGCCCTTTATTTCTGCTTTGGGCTACACCT
424	FADS_ locus_ 43633161	FADS_ locus_ 38041827	SNP	G	G/A	GAATTCAGGTATGGTGGCTTGGTCCCAAGCCCTGTCTCCCAAGGCTTCA(C/A)JGAGTACTCGATGAAGCTTAAACTTCACTAGTGTCTTCCATCAGCCTTATAGGAGA
425	FADS_ locus_ 43633291	FADS_ locus_ 38041957	SNP	T	C/T	GGAACTACATTCAAGTATTTCAGACATCAGCCTTATTGCAATACATACTAATTC(C/T)JGTGCTGGCTGTAGAGTCTTAAAGATAAATGAATATAGAAGTATGCTTACTCCCA/
426	FADS_ locus_ 43636333	FADS_ locus_ 38043810	SNP	G	G/A	TGTAGTTTGGCCCTGGGGAAGGCTCCAGGTCACAGAGTTGTGACATATCAGAAAG(C/G)JGTTGTTGCTGACTCAGAGTTTGGGGAGAAAGGCTGGGTTCTTAAAGGATTTGGGAG
427	FADS_ locus_ 43636988	FADS_ locus_ 38044466	SNP	C	C/T	GGGTAATGAGACCCACTTTTGGAGAGCAGAAAGGTTGATGAAAGAGTCAAGTCAAGCTGACAGTCC(C/G)JGATGGTGAATGGAGAGGACACCTGAGATCTTAAAGGGGAGCCGCTTGGAACTG
428	FADS_ locus_ 43637100	FADS_ locus_ 38044578	SNP	C	C/A	CTGGAACGGATATTGACAGAGCCAAAGGATGTGATAAGTATAGTTTGGATTTCTG(C/A)JGTTAGAGACACTGTGTTGAAAGGAAAGTAAACATTTACATAACCTCTGCTCTCTT
429	FADS_ locus_ 43637603	FADS_ locus_ 38045080	SNP	A	G/A	GTGCTTGGTCTCTGAACTAGCTGTTGTGCAACAGTGTGACACCCAGGACAGATGGT(G/A)JTCAGCAGCTGGAGAGGAGCTGCTTGGGGCACTAGATCTTGGCGCTGGGGCCCTGG
430	FADS_ locus_ 43637678	FADS_ locus_ 38045155	SNP	A	G/A	GGGAGCTGCTGTTAGGGGCATAGATCTTGGCGCTTGGCCCTGGTGGGTGAGTGAAT(G/A)JGAGAAACAACTGAGCCAGCTGGGGACACTGTGAGAGTGAAGGAGGAGCCAGGGAAGAT
431	FADS_ locus_ 43638406	FADS_ locus_ 38045884	SNP	G	G/A	AAATGAAAAATCTATACAACAAGTAGAGGAAAAATACAACTACTTCCACAGTACCACT(C/G)JCCCGTTTCAACGGTTTTACTTTAGTTCAGTTTCAATTCATCAACCAACGTTTTCT
432	FADS_ locus_ 43638430	FADS_ locus_ 38045908	SNP	T	C/T	GAGGAAAAATACAACTACTTCCACGCTACCCCTGTCGCTTCAACGGTTTTCAAC(T/C)JATGCTAGTTTCAATTCATCAACCAACGTTTTCTCTCGTAGAATTTGAAGCACT
433	FADS_ locus_ 43638666	FADS_ locus_ 38046143	SNP	A	A/G	ACAATTTTTATGTGGATAAAACATAGGATAAAGAGTGGGAAATCTTTTTTAAAAAC(T/C)JGACAAACAAAAACAAATAGTCTGCAAGACTCAGGCAAGACAGTTAACTTTCCCATAGC/
434	FADS_ locus_ 43645216	FADS_ locus_ 38052929	SNP	G	G/A	GCTGCAATGGGAAGCAGGTTCTTACCATAGCACCAGCTGGGGAAGCCCAAGTATGAC(C/G)JGAGTACTTACCTCAATAAAGCTACCAGGAAATTTGGGCAAGGATTTAGAAAGTACGCC
435	FADS_ locus_ 43645243	FADS_ locus_ 38052956	SNP	C	C/T	CATAGCCACAGCTGGGGAAGCCCAAGTATGTACGTAAGTTTACTCAATAAAGGCTACC(C/G)JGAAAAATGGGCAAGGGAATTTAGAAAGTACCTTGTGGATTTACTAGTGGCAACAC
436	FADS_ locus_ 43645612	FADS_ locus_ 38053325	SNP	G	G/A	TTCCCAAGTGTAGTCACTGGCGTTAAGCAGGGCTCTCACTTCAACCTGATTTCT(C/G)AJCTCATGTAATTCACCTTTTGGGAACATAGCACCTTATAAAGGCTAATTTAGAGTT
437	FADS_ locus_ 43645649	FADS_ locus_ 38053362	SNP	T	A/T	CTCACTTCAACCTGATTTCTGCACTGATTAATCCACTTTGGGAACATAGCACCT(A/T)JATAAAGGTCATTAAATTTAGAGTTTATTATTGCTTTTGGCAGATGGCCCACTTCTTGT
438	FADS_ locus_ 43645797	FADS_ locus_ 38053509	SNP	C	C/T	GTTGTCCCTTGAAGGATCTCCATCACTCTCAGCCTCTGGCTCTAGTGTGCT(C/T)JGTGTGATAGGGCCAGTGGACTCCAGCTCACGTGCCAGTCTCTTGTCTAATGTA
439	FADS_ locus_ 43645823	FADS_ locus_ 38053535	SNP	C	C/T	CACTCTTCCAGCTCTGGCTCTAGTGTGCTACTCTGTGTATAGGGCCAGTGGACTCA(C/T)JGTCAGTGGCCAGTCTCTTGTCTAATGTATATCTTACTGCTGTGCTAGATGCT
440	FADS_ locus_ 43646512	FADS_ locus_ 38054223	SNP	G	A/G	TGCAACCCCTGCTGCTCATCTGGCCAGCTGCTGCTGCTGGGCTGACCACTG(C/G)JTAGACTGGGAGGCTGGTGTAGTGGAGCAACACTCATATCACCAGCTGAGTCTGCTG
441	FADS_ locus_ 43646922	FADS_ locus_ 38054632	SNP	G	G/A	TACTCAGTATGGGTGAGTGGTGTTCACCAAGTCAAGTCTGCAAGTACAGCACTG(C/G)JGAGAACTTACTGTTGAGCAAGGAGCCCTTCCAGGGCCAAAGAGGAGGCTTGTCTG
442	FADS_ locus_ 43650411	FADS_ locus_ 38056739	SNP	G	G/A	ATCCATGAAATAGTCTGCAAGTCCCAATGGCTCAAATCTTCTAGTCTTCTAGGAC(G/A)JGAGAAAGGCTCCCAAGTGGCTAGTGTAAAAGAAAAAATCCACTTCCCGTGC/
443	FADS_ locus_ 43650537	FADS_ locus_ 38056866	SNP	A	A/C	CTCAGAAGAGGGGGTGTGCTGCTGGTGGGAGGCTCACTGGAAGAGGAAATGGCAAC(A/C)JCACTCAGTATTTCTGCTGGAAAAATCCAGTGAATGGGGAGACTGGCAGGCTACAGTCC
444	FADS_ locus_ 43650621	FADS_ locus_ 38056950	SNP	G	C/G	AATCCAGTGAATGGGGAGACTGGCAGCTACAGTCCAGGCTCAAAAAGTCCAGAG(C/G)JGACTGAGTGAAGTAC
445	FADS_ locus_ 43650789	FADS_ locus_ 38057118	SNP	A	A/C	GTAATAAATTTCCAGTCTTCTCTAGAAAAGGATGAAAAGAACTCAGTCAAGTATTA(A/C)JTGCTGCAATCCGCTACTTGAATGGTGAAGAACTCTCGGAGTTGACTTAAGTTGAAGCA/
446	FADS_ locus_ 43650801	FADS_ locus_ 38057130	SNP	C	G/T	CAGCTCTTCTTAGAAAAGGATGAAAAGAACTCAGTCAAGTATTAATGGCTGCAT(C/G)JGCTGACTGAAATGGTGAAGAACTCTCGGAGTTGACTTAAGTTGAAGCAAGAGTCTGGAC
447	FADS_ locus_ 43650828	FADS_ locus_ 38057157	SNP	G	G/A	AGAATCACTCAGCATTATTAATGGCTGCATACCCGCTACTGAAATGAGTAACTCT(C/G)AJGACTGACTTAAGTTGAAGCAAGAGGCTGGACCTTGTCTTATGCTCAACCCCA
448	FADS_ locus_ 43650864	FADS_ locus_ 38057193	SNP	C	C/G	GACTTGAATTTGAGGAGCAGCTCGGAGTGTGACTTAAAGTGAAGCAAGAGGCTGACTG(C/G)JGCTTATGGCTCAACAGCCACTAGATTCATAGTCCCAAGGAGAGGCTTAACTT
449	FADS_ locus_ 43650872	FADS_ locus_ 38057201	SNP	T	T/C	AATGTAGAACTCTCAGGATCTTAAAGTGAAGCAAGAGTCTGCTGCTT(C/T)JGCTCTCAACAGCCACTGACTGCTCCCAAGGAGGAGGCTTAACTTGGTGGAG
450	FADS_ locus_ 43654283	FADS_ locus_ 38089512	SNP	G	G/T	ATTTAGCAGAGTTTGTGCATAGAAAATGTTCAATAAATGTTCTTATCGTCTGACAG(G/T)JAAAGAAACAAACAAATGGCAAGGACACAGAGCTCCAGCACCCTGAGCAGAAACAGTAC
451	FADS_ locus_ 43654521	FADS_ locus_ 38089750	SNP	G	G/A	TACTACATTTAACAGATGAGGAGCAGGCTCAGAGGATCAAGAGACTGCTGCAAGGAG(C/G)JGACACAGCAATAGGGCCAGGCTGGCTGAGAAATCGGGCTTGTAAATACGGGTATT
452	FADS_ locus_ 43654827	FADS_ locus_ 38090058	SNP	G	G/C	TGTCATATATTGTTGCTACTCTCTTAGTCTTCCAGGAGCCCTCTT(C/G)JCTTACTTAGGACTTATGTTCCCTTACCCCAACTTATTTTGTCTTCTCT
453	FADS_ locus_ 43655176	FADS_ locus_ 38090410	SNP	A	A/G	CCTTCTCTTCTGCTCACTCCCTGGCTGATTCAGTCCGGCAGGCAATGTGAAACTATGG(A/G)AAGTGTCTGCGAAGTCCAGGAAAGAGCCGGCTGAGCGGAGGCGACTGACGAGTG
454	FADS_ locus_ 43655259	FADS_ locus_ 38090493	SNP	G	G/A	GGAAAGCCGGGCTGAGGCGGAGGCGACTGCAGCAGTGCATCGTATGTTGGGTTTCGG(G/A)JGACTCTCAACGGGAGCAGCAGACTGGCATCAGAAACAGAGGGGCTGATGCGAAACAT

SNP	SNPName_OARv1.0	SNPName_OARv2.0	SNP Type	Reference	Genotype	SNP Consensus Sequence
512	FADS_ locus_ 43718973	FADS_ locus_ 38138725	SNP	G	G/A	AGAATTTGGGGATTTTTTTGGCCGCACCTCATAGCATGCAGGATCTTAGTTTCTGATGA(G/A)GGATCAAAACCCGGGCCACTGCCATTTGGAAGCACAGAGTCTTAACCACTTAAGCCGGCCAC
513	FADS_ locus_ 43719382	FADS_ locus_ 38139133	SNP	C	C/T	CTGTCTCCCTGCACCTCTTTGCCCTTACCCTTGACACCAGTGGCCCTGGTCTGTGA(C/T)CGTTTTGCCACCAAGTTAATAAGCACACACCTCCATTAATATATGTGTACATACTGTCTGC
514	FADS_ locus_ 43719856	FADS_ locus_ 38139893	SNP	G	G/A	GCCTCTCAGTCCCTCCGCCACCTCTTCCACTCTTCCCTCCCAAGTGTAGTACAC(C/A)JACACCCGGGACACAGCTGGTTCACCATGACCAAGCAGCTCTGCACAGCAGTCCGCCCC
515	FADS_ locus_ 43719861	FADS_ locus_ 38139898	SNP	C	C/T	TCAGTCCCTCCCAAGCTCTTCCACTCTTCCCTCCCAAGTGTAGTACAC(C/A)JGGGACACAGCTGGTTCACCATGACCAAGCAGTCTGTGCACAGCAGTCCGCCCCCTCC
516	FADS_ locus_ 43719879	FADS_ locus_ 38139916	SNP	C	C/T	ACTCTTCCCACTCTTCCCTCCCAAGTGTAGTACAC(C/A)JGGGACACAGCTGGTTCACCATGACCAAGCAGTCTGTGCACAGCAGTCCGCCCCCTCCACTAGTCTGGAGACTGT
517	FADS_ locus_ 43720105	FADS_ locus_ 38140141	SNP	G	G/T	TTTTATGATTGGAATGGAACCACTCTTGTGTTTTAAAGCAGAGTGGTCTTCCCTT(G/T)JCCGCAAAATAGAGCCGACCTCCCCAGCGGAGTGTGACCTGGCCACCGCTCTTGCC
518	FADS_ locus_ 43720137	FADS_ locus_ 38140173	SNP	G	G/A	TTTTAAAGCAGTGGTCTTCCCTTCCGCAAAATAGAGCCAGTCTCCCAAGTGTAGTACAC(C/A)JGGGACACAGCTGGTTCACCATGACCAAGCAGTCTGTGCACAGCAGTCCGCCCCCTCC
519	FADS_ locus_ 43720301	FADS_ locus_ 38140337	SNP	T	T/C	TCCGGACTCTCTGCGATTGTCATTTCTGCAAAACATCCATCTCTGTTCTTGTGG(T/C)CAACCTTCACTATATCCAGCCTGGCTGGCCACACCTCTGATGGGAGTCTTTCTAAA
520	FADS_ locus_ 43720359	FADS_ locus_ 38140395	SNP	A	A/G	GGTCAACCTTCACTATATCCAGCCTGGCTGGCCACACCTCTGATGGAGTCTTCT(A/G)AATCAGGACAGGGTTGGACCGATGCCATGCTCCATCCACCCTGTAACATGTGTGCC
521	FADS_ locus_ 43720949	FADS_ locus_ 38140957	SNP	T	T/C	TGTTGCCACACCTTCAGACCTGTAGAACCCTGGGGGATATTTTCCCTACTGAAGA(T/C)GGAGGATCAGAGGCACAGCTCAGAAAATTACTTCAAGCTACACGAATAGCCACAAGG
522	FADS_ locus_ 43725763	FADS_ locus_ 38145736	SNP	C	C/T	TTGCTTACCCCTCTTGGAGGACACCCGAGGCCAGCTGCTTCTGCAACCT(C/T)GGCCCTACCCCTCTGGTCAAGTGTGCCAAGCCCTAGGGGACAGTCTCAGAAAGGGCGG
523	FADS_ locus_ 43725882	FADS_ locus_ 38145883	SNP	C	C/T	GGGGAGCCCTGGAGATCAGGTGTCTTGGGCCCTGTGCCATCAGGGGCTTATGGG(C/T)CCCAAGCCTGAAAAATTTCCCAAGAAACACCCAGGACAGTGGCCCTAGTGGGCC
524	FADS_ locus_ 43726193	FADS_ locus_ 38146194	SNP	G	G/A	GACCTCAGTGTAGCTGGCAGGACACTCAGCTGATCCGGTACATGTGTATTCCCT(C/A)GTGGGCACAGGTCTCTCAACAGCCTGTGAGCCTTTGGCCTTGCCTGCCCTGACACC
525	FADS_ locus_ 43726754	FADS_ locus_ 38146754	SNP	G	G/A	TAGCCCCGGGTGTACAGAAGCAACCTCGATTACAGGGGAGGAGCTGAAAGGAC(C/A)JAGGAAAGGACTGGGACGCTGAACTCCAGCCCTCACCCTCCCTCCCAAGCGGGGGCC
526	FADS_ locus_ 43726790	FADS_ locus_ 38146790	SNP	C	C/T	CACAGGGGAGGAGCTGAAGGACAGAGAAAGGACTGGGACGCTGAACTCAGCCCTCA(C/T)CTCCCTTCCCAAGCGGGGCCCCCAAGAAAGGGCCATTTCCAGAGCCTGGGCT
527	FADS_ locus_ 43729120	FADS_ locus_ 38149070	SNP	A	A/G	ACTGGCCTCAGCTCCGGGGCTACCTCCAGGGCCACAGGATCAGGAGTCAAG(C/A)JAGGGGGTCCAGAGGGGCCCCCTCATCTCTACTGTGAGAGACGACCCACACCTC
528	FADS_ locus_ 43729669	FADS_ locus_ 38149617	SNP	G	G/A	CTCAGCGTTTCTTTTTTCTCAATCTGCTGACACTTCTTCAAGTAAATCTTCCACT(C/G)ATGTTGGAGTGTCTGACGAGGGGTCAGCAGCTGGCTCTCCCTCCCTCCACTTCCAG
529	FADS_ locus_ 43733178	FADS_ locus_ 38153072	SNP	C	C/T	CACTGTGTGTTCAAGCAGTCAAGTGTGTGGAGGACTGGCCAGCTGAGCCCAAGCAG(C/T)TACTCAAGAGGTTGGACACCCAGATAGCTTCCCTGAGACCCGCCACCATGGATGCT
530	FADS_ locus_ 43733689	FADS_ locus_ 38153583	SNP	G	G/A	TGGATTGTGCAAGGGTGTGGATGAAGGAGCCTTCCGCAAGCAATATCCCGG(C/A)JAGGGGGTCCAGAGGGGCCCCCTCATCTCTACTGTGAGAGACGACCCACACCTC
531	FADS_ locus_ 43733777	FADS_ locus_ 38153671	SNP	G	G/C	TCTCTACTGTGAGAGACGACCAACACCTCTGTGACACCTGACTGGCAACACAC(C/G)CJGACCACTACTCCCTGCTCTGACAGACAGTGTCCACATCACTACACGACACCC
532	FADS_ locus_ 43736089	FADS_ locus_ 38156033	SNP	G	G/A	CTGATCAGCTGAGGAAAGGAGGAGGGCCCTTCCACCTTCCCAAGCAGTCTTCC(C/G)ATCTTCCGGGACCCCTCCACAGCCTCTCTAGGTTCCAGGGGTGGCCAAAGGGG
533	FADS_ locus_ 43736109	FADS_ locus_ 38156053	SNP	C	C/T	GGGAGGCCCCCTTCCACCCCTCCATCCCCCAACCTCTGCTTCCGGGACCCCTCA(C/T)JAGCCACTCTCTAGGGTCCAAAGGGGTGGCCAAAGGGGATGGAGTCCAGCTTGGGG
534	FADS_ locus_ 43736126	FADS_ locus_ 38156070	SNP	G	G/A	CACCTTCAATCCCAACCCCTGCTTCCGGGACCCCTCCACAGCCTCTCTTAGG(C/T)JCCAAGGGTGTGGCCAAAGGGGATGGAGTCCAGCTTGGGGTTCCTCCCTCCCAAA
535	FADS_ locus_ 43736595	FADS_ locus_ 38156530	SNP	C	C/A	CCTGGTGAAGGGCTGGAAGCCTCTTGAAGGAGAGCAGGGGAGTCAAGTACAGACAG(C/A)JAGACAGCTGGGACCAACCCAGCAGCAGGACAGCAAGCAAGCAAGGAAATGAACC
536	FADS_ locus_ 43736888	FADS_ locus_ 38156832	SNP	C	C/G	CTTGGTGGGTGTTTTAAATCTGGATTACAGAAAGTTTTCCCTGGAACACTCTGCTT(C/G)JTTTCATGAAAGGGTTTACTTTCCAAAAAGATGGCGGAAAGCTTCTTGAAGTACA
537	FADS_ locus_ 43736905	FADS_ locus_ 38156849	SNP	T	T/G	AAATCTGATTTACAGAAAGTTTTCCCTGGAACACTCTGCTCCGTTCAATGAAAGGGT(T/G)ACTTTTCCAAAAAGATGGCGGAAAGCTTCTTGAAGTCAACAGCTTTCTACTGGGTC
538	FADS_ locus_ 43736959	FADS_ locus_ 38156903	SNP	C	C/T	GGGTTTTACTTTTCCAAAAAGATTTGGCGAAAGCTTCTTGAAGTCAACAGCTTCTT(C/T)TGGGTCACAAATGTACAGATCTACAGCTTTTCAAAACATGAAGCAGTGAAGTAACTGGGAG
539	FADS_ locus_ 43737070	FADS_ locus_ 38157014	SNP	T	T/A	AACTGGGAGTGAAGAACTGGCAATTGATGACACTGGGCCACAGGAAAGAAAAA(T/A)JCCACCGAAGCACACAGCCTGAAGTGTGCAACAGTAAACTTACTAATTTGAAAAAC
540	FADS_ locus_ 43737586	FADS_ locus_ 38157531	SNP	T	T/C	TGGGGCCAGTTGGGATGGGATCTCCCAAGGAGTGTGACTGCTGGTCTGATTTGCTT(C/T)JGCTAATGAGCCTAGCAGCAGCTGGTGGGAAATCTGCAACAACAGCTCCACACCTCTTA
541	FADS_ locus_ 43737886	FADS_ locus_ 38157859	SNP	C	C/A	TTGGGGCCCTCTTGAAGCTCAGTGAAGGAGCAGGGGCTGATTGGTATAGATCTGCT(C/A)JAGGAAAGGCTGATGGGGGGGGGACAGCAGCTGGGAGACAGGGGGTTCAGGGGAGA
542	FADS_ locus_ 43737903	FADS_ locus_ 38157876	SNP	G	G/T	AGCTCAGCTAGGGGACGGGGCTGATTGGTATAGATGCTTCCAGGAAAGGCTGAT(G/T)JGGGGGGGACAGCCTGGGAGACAGGGGGTGGAGGAGACTTGGCCCCAGGAG
543	FADS_ locus_ 43738047	FADS_ locus_ 38158020	SNP	T	C/T	GGACAGTGTGGCCGGGAGCTAAGGAAAGATGCTCTGCTGGTGGCTGACCTGCT(C/T)JACAGTGACCCGACAGTGTGTTCTCTGCTGGAACATAGGCAATCCAGGGGGCAAT
544	FADS_ locus_ 43738366	FADS_ locus_ 38158339	SNP	G	G/C	GCTGGAAGTCTGCCCTTCCCAACTCTCCCAATTTCTACTCTCCAGCCCTCAGA(G/C)JGCTGATTTGATTAAGAAATGGCCGAGTGCAGGAGACCCAGATCGATCTAGGTCAGG
545	FADS_ locus_ 43738462	FADS_ locus_ 38158435	SNP	G	G/A	ACCCAGATGATTCTAGTGCAGGAAGACCTCTGGAGAAAGGATGAACTACCACTT(C/G)JGTTTTCTGGGCTTCCCTGTGGCTCAGCTGTGAAGAAATCCGCTGCAATGTGGGAGAC
546	FADS_ locus_ 43739653	FADS_ locus_ 38159585	SNP	G	G/A	GATGGTGGGAAAGGCGCTGGGTAGTCTGGGAAAGCAGCTCAGGTTCTGGGGT(G/A)JGGTGGGACTCAGAGCTACACTTGTGAGTATCAACACAGTAGTCTGGCTCTG
547	FADS_ locus_ 43740144	FADS_ locus_ 38160051	SNP	G	G/A	CAGGAAAGGTGTCTGGCATTCTGGGGTCTGACTGACCAAACTCAGGTTCCAGGAG(C/A)JGTTCCAGCTTACACTGCGCTCCCAACCCCTCCCAAGCTGCACTTGGAAACATCTT
548	FADS_ locus_ 43740371	FADS_ locus_ 38160413	SNP	A	G/A	GGTGTCTTAAACATAGACTGCAGGTGGCAGGACAGCCCTGTTCAACAGCTGGCTG(C/A)JAGCCCTGCAGAGCAGGCGCAGGATGGCAGGTGTGAATGTGTGGCCAAAGCCGACCC
549	FADS_ locus_ 43740418	FADS_ locus_ 38160460	SNP	C	C/A	CAGCGTGGCCTCAGAGCCCTCATTGCTGGCCCTTCTCACTGCTGGCTCCGCA(C/A)JAGGAGTGGTCTTGTATTCCCTGACCCAGCAGAGTATGGCCCACTCTGAGCCTTGGC
550	FADS_ locus_ 43741770	FADS_ locus_ 38161838	SNP	C	C/A	TGCCAGCACCCACAATCTGACACCTCCCAAGGCACTGTGACCCCTTCCCAAGC(C/A)JCCAGCCTCACCAGGGGCTGGGGGGTGGGACACAGCAAGAAATCTACAGAGCC
551	FADS_ locus_ 43742003	FADS_ locus_ 38162071	SNP	C	C/T	CATCTGAGTCCCGCCAGCCCTCTCTCCGGCCACTCTCACTCCAGAGCTCAGAT(C/T)JGCTCAGACTGCCCTACTCACTCCAGACACAAACCCCACTTCAAGCCCAAGGAC
552	FADS_ locus_ 43742543	FADS_ locus_ 38162612	SNP	C	C/T	TGATTTCCCTGCTACCAACCGTCTCATTGCTGGCCCTTCTCACTGCTGGCTCCGCA(C/A)JAGGAGTGGTCTTGTATTCCCTGACCCAGCAGAGTATGGCCCACTCTGAGCCTTGGC
553	FADS_ locus_ 43742600	FADS_ locus_ 38162669	SNP	T	T/C	CAACCCGATGGTCTGCTTCCCTGAAAGCAGAGTATGGCCCACTCTGAGCCTT(T/C)GCCCTAGTGGTCCCTCTGCAAGAACACCTTCTAGCAGATCTTCTTCTGCTGCTCT
554	FADS_ locus_ 43744519	FADS_ locus_ 38164600	SNP	G	G/A	CCTTCTAGAGTTTACAGGAGTGTCTGATCCCTAATCTCTCACTGCTCCGGGAAAGTCCAGG(C/A)JAGGAGACTTTTCTTTAAAAGAGTCCCGGGAAGATCCCAACCCCAAGAGGAGCAG
555	FADS_ locus_ 43744548	FADS_ locus_ 38164629	SNP	G	G/A	CCTAATCTCAGCTTCCGGGAAAGTCAAGGAGGAGGACTTTTTCTTAAAAGAGTCC(C/A)JAGGAAATCACCACCCCAAGGAGGAGTGGGAGAGAGAAAGTGGTCTGGGAGC
556	FADS_ locus_ 43744644	FADS_ locus_ 38164725	SNP	T	T/A	CAGAGAGAGGGTGGTCTGGCAGCAGGACCACTGACCTGCTCAGACAGGACAACTT(C/T)ATTTGTTAATTAAGCCTCGCAGTTAGAGATGATCCCTGGAAATCTTGAAGAACTTCT
557	FADS_ locus_ 43747064	FADS_ locus_ 38167359	SNP	G	G/A	AGCAGGTATCAGCTGAGCCACATCAATACCACAGAGGGTGTGTTGAGGCACAGACT(G/A)JGTTGGCTCCGCCCCAGCAGGGCTCAGCAGGTTGGTTTGGGGGGCAGAGAATTCATT
558	FADS_ locus_ 43747265	FADS_ locus_ 38167560	SNP	A	G/A	TGTCTATGATTTTATTCTTAAAGCCTTGGAGAAATCACTCAGTAATATTTGGG(G/A)JACCAGATTTGGCCAGGGTCCAAAGAGGGTTGAAGAGGCTTGAATTTCTCTTGTATTC
559	FADS_ locus_ 43747341	FADS_ locus_ 38167636	SNP	C	C/T	GTCCAAAGAGGGTTTGAAGAGGCTCTGAATTTCTCTTGTACCCAGAGCAGCTGATTT(C/T)JGGTTACAGGACAAACAGTAAAGGCTTATAGAGACCATGGTGGAGGGTGGCTGAGCTGT
560	FADS_ locus_ 43752298	FADS_ locus_ 38172483	SNP	G	G/A	GGCTCAGGCTCAATGACTGATGCTGGTGTGGCTTTAGGACTTGGCTGTCTGTCAGG(C/G)AJGCACTTACAGACCTGAGCGGGTATCTAGAAAGTCACTTGAAGGAAAGGACTCTGT
561	FADS_ locus_ 43754153	FADS_ locus_ 38174041	SNP	A	A/G	GATTTGGCTGACCTCGCCCTACTGGGGGACACCAAGAAATGCTACCCGAGTGCAGG(A/G)JGCGAGAGTCTGGGGTGGGAAATCTTCCAGGGTGGGAGTGGTGGTCTGCTCT
562	FADS_ locus_ 43754228	FADS_ locus_ 38174119	SNP	G	A/G	GGAATCTTCCAGGAGGCTTGAAGTGTGCTGCTGCTCTTGGTGTGGTGTGGCAG(C/A)JGGCCCAAGCAGAAACTCCGGGACAGGATGGGGCGCTCAGGGTCCAGACTCCATCC
563	SLC26A10_172953135	SLC26A10_161696670	SNP	G	G/T	TTGAATGCGAAAGTGGGGTGTGCTGTGCTCACTTCCATGAGTAACTGATGAGTGG(C/G)JGGGCTGAGGGGCTTCTCCCGGCTTCCAGAGCTGCTGTGCAAAATTTGAGTTG
564	SLC26A10_172953459	SLC26A10_161696994	SNP	C	C/T	GTGGTAGGAGAGAGACCCGCTCCCTTATTCTCTGCTGCTCCCTTCACTCCT(C/T)JAGGAGCCAGTGTGCTGCTGACAGCTGCTCATAGCCCTGCCAACTCCCGCTACAGTAC
565	SLC26A10_172953582	SLC26A10_161697117	SNP	T	T/C	CCTGAGGTTGGAGGCTCAGCCCTCAGAAGTCTTGGTCCAGGTTGGGAGAGG(A/T)JCCAAAGGGGGGACCTAAACACTGTAGGGTGGCAGAGCCAGGGTGGGTTGGAATGAAT
566	SLC26A10_172957326	SLC26A10_161700580	SNP	G	G/A	AAATACCCAGCTCAAAACATCAATTTAAACCTACGAAGCGGCGAGTACAGCCTGGGCT(G/C)TCTGATGCTTCCCACTTCCAGCTCCTACCTAGGCTCTACTCTCCCTCAACGAACTCTCT
567	SLC26A10_172957527	SLC26A10_161700794	SNP	C	C/G	TTTCAAAGCACAAGGTAAGGATTTGACACATTTTACAAGACTCAAGGGTGTGATTTA(C/G)JATGCTAAGTCTTAGAGATGGAGTCTTGCATATGACCCACCATATCCAAATCTC
568	SLC26A10_172958229	SLC26A10_161701495	SNP	G	G/A	GGGGGACTTAAAAACCTAAGCAGAAATACCTCTACTCTTGGTACTAAGGGTGG(G/G)AJGAGGCCCCAGTATATAGTCCAGGGCTGTGCCCTTCTGTGATCCAGGACTCTGTGC

SNP	SNPName_OARv1.0	SNPName_OARv2.0	SNP Type	Reference	Genotype	SNP Consensus Sequence
569	SLC26A10_172958309	SLC26A10_161701575	SNP	C	C/G	CCCAGGGCTGTGCCCTATCTCGGATCCAGGACTCTGTGCAGTGGCTGCAGCCTCACCC(C/G)CATGGAGAGAATGGAGTTGGAATGGGGCTGGTGAACATACAGGGGAAAGCCGTTTTAG
570	SLC26A10_172960186	SLC26A10_161702925	SNP	G	G/A	CCACCTGTCTTTGGAGCTCCTGTGAGTAGAGAAGGGGAGTCAACATTTCTGAGTCAATG(A/G)CACAAACATGCACCAAGTAGGCCAAGAATCGCCCTGGAAACACCCACCTGTCCCAA#
571	SLC26A10_172960751	SLC26A10_161703493	SNP	C	C/T	GACACACCTACGGCCAGGCCAGGTCCACACTCAGGGTCAAGGACAGCCACCAATGTGAC(C/T)GTCCACACAGCTGCAGGATATGGATGGAGTGAACCGCTAGAAGAAATGGCAGGCC#
572	SLC26A10_172960858	SLC26A10_161703600	SNP	C	C/T	AAATGGCAGGCCCTCACTGCCAGGAAGCGGGTCCAGGGCAGTGACAGCCAGGCCAA(C/T)GTATGGGAGGGGAGGGCTCAGGAGAAGTGAAGAAATGACTGACGGAAAGGATGAGTTT
573	SLC26A10_172960935	SLC26A10_161703677	SNP	C	C/T	TCAGGAGAAAGTAGAAAGAAATGACTGACGGAAAGGATGAGTTGACCTAATAGGGGTACA(C/T)ACCAAGGGTAAAGACCTCACACCTTGAACACCTGGGGAGTTACAATACTCAGGTCTGA
574	SLC26A10_172961184	SLC26A10_161703926	SNP	G	G/A	ATGCTAGGAAGGTGGGAGGGGGACTCTGAGAGCAATGCTGCCATTTCTCAAAAAGTCCAC(G/A)CGGCTGATGCGCATAGTTGAGGGAGTTCTCGCATCTGGAAGAACATCTGGCGCATGCTG
575	SLC26A10_172962015	SLC26A10_161705260	SNP	G	G/A	GGACCTTCTCTCTATGTTCTCCAGATAATCCCACTCCCACTCCCTCACA(C/G)ATCCCATGTTCTCTACAGGACTGCCACCTGGGTATCTTCAACTTCCCACTGTTCCAC
576	SLC26A10_172962842	SLC26A10_161706087	SNP	G	G/A	ATGGCCCCCAGCAGAGGCTAGAAGGGCTCAATATGAGAGGACTGTAAGTCAAGGATTAGG(G/A)GTTGCAGAAGCCCACTAGAGGAGCTGGGGTGTGTTGGGATGGGTGAAAACTATG
577	SLC26A10_172963258	SLC26A10_161706513	SNP	G	G/C	TGTGGGGTGAATGGAATGCTGTTAACTGAGGAGAGAGAGAAATGTAGGTGGACGCCA(G/C)AAGGGAGATGAGCCTTGAGTTACAGTGAAGACCGGGTGAAGAGAAAAGGGAGTGGAA#
578	SLC26A10_172966494	SLC26A10_161709729	SNP	A	A/G	ATAAGGGGCTCCACTGGCCTCAGCTGTTTACAGACCCTAGATGGAAGCAGCTACAT(A/G)CATAGGATAGGGAACCCACACCCACCTCTGCTGGGAGTGGCTGGGCCAATTACCA#
579	SLC26A10_172966957	SLC26A10_161710272	SNP	G	G/A	GTCTTATCTGGGCTGTAGCTGCTGCTCCCCCTTAAAGTCCCTCCCCCATTTGGGCCA(G/A)AGAGACCTCAGGCCACAGGAGGCTCCAGCTCTCTCAGCTCCACCCAGCAGCT
580	SLC26A10_172967109	SLC26A10_161710424	SNP	A	A/G	ACTGGGCCCAGGGGACGAATGGACAGTGGACACACCCGATGACCAAGGACCCAGGCAGG(A/G)CAGGGCATCTGGACGCAATCTCTGCATGTTGGGTCTCGGTCCAGGGCCTGCCAGA
581	SLC26A10_172967526	SLC26A10_161710840	SNP	G	A/G	ATGGGAGGGAAGGGGCTGGATAAAAAGGAGGATACATCAAGTTCTAGGGTTTTCTGT(A/G)CCCCAAGACCTGGACTGAGAGATGCTGCAACTGCAAGTGAAGGACAAAAGATACTACAT
582	SLC26A10_172967580	SLC26A10_161710894	SNP	C	C/G	CCTGTAGCCCCAAGACTGGACTGAGAGATGCTGCAACTGCAAGTGAAGGACAAGATAA(C/G)TACATTTTTTAATCTTACATCCCAACCCCTCTCTCTTACCAGACTTTCTCCAAATG
583	SLC26A10_172967622	SLC26A10_161710936	SNP	C	C/T	AGTGAGGGACAAGATAACTACATTTTTTAACTTACATCCCAACCCCTCTCTCTTTA(C/T)CAGACCTTCTCTCAATGACTGATTTGAGGGCCACTGATCTCTCCACTCTTTAC
584	ELOVL2_48150336	ELOVL2_43939543	SNP	A	A/G	GCAACCAATTGATAGAACCAAAAGCCACCCCTCTACCTAAAAAAGAAAGCAAT(A/G)TTGTAGCAGACTAAGCAATTTGTTGGTGTGAAACTGAAGGAATCCATAGTCCCG
585	ELOVL2_48150463	ELOVL2_43939693	SNP	A	A/G	GAGCAGTGGTGTCTCAGAGCCACAGTCAAGGTCAAGTCTGACCTGAGTTGGTAACTATT(C/A)GCTTTTTTAAAAAAGTGAATCATATATTTGCTGAATAGGGAGGCTGTGCCAAGACAC
586	ELOVL2_48150495	ELOVL2_43939725	SNP	G	G/A	AGTCTGACCTGAGTTGGTAACTATTCATTTTTTAAAAAAGTGAATCATATATTTT(G/A)TCTGAATAGGGAGGCTGTGCCAAGACACAATCAAGCCAAAAGCTCAGGTACCAGTACT
587	ELOVL2_48150506	ELOVL2_43939736	SNP	G	G/A	TGAGTTGGTAACTATTCATTTTTTAAAAAAGTGAATCATATATTTTGTCTGAATAGG(G/A)AGGCTGTGCCAAGACACAATCAAGCCAAAAGCTCAGGTACCAGTACTTTTTGAAATAAT#
588	ELOVL2_48150709	ELOVL2_43939940	SNP	T	T/C	GATCTTAAAAGTTCTCATACAAGAAAAAATCTTGTGGGATGGTAAATGTTGTTGTTT(C/T)ATATGTGGGATGGTAAAGTACACAGTGTGACATTTAAACAAGCATTAATATTACAAC
589	ELOVL2_48151350	ELOVL2_43940619	SNP	A	A/G	ATATATAATAGCTAAACAGATCCCGTGTGTTTAAAGCAAAAGACTGAATGAAAGTATAT(A/G)GTTTTAGCATAAACTAATTTCTTTGAGTTTCATAAATCATTTGTACCAGAAATGAT
590	ELOVL2_48151794	ELOVL2_43941088	SNP	G	C/G	CAGTACACAATCGGTCCATTTGTTCTTTAGGAATCAACCCAGAAAATATTAATGGT(C/G)ACATAGATGGACAACCCAGCAACCCCTCTCTCTCAAGTCTGTTATGTCCAGAATC
591	ELOVL2_48151843	ELOVL2_43941137	SNP	A	A/T	ATTAATGTTGATAGATAGTGGACAACCCAGCAACCCCTCTCTCTCAAGTCTGTTT(A/T)GTCCAGAATCTCAGATTTCCACAATTAATCTCAATTTAGTGACATGGTAAT#
592	ELOVL2_48152098	ELOVL2_43941391	SNP	C	C/A	TCCTATGTTAAGGTGCCCTGGGTTAGGATAACAGACTGCTCAGTTTTTAAAGTAGAAT(C/T)TTAAAAAAGGGCTCGCTTGGATGACTCTCCGCTCCCGTAAACAAGTCCACGAC
593	ELOVL2_48152312	ELOVL2_43941605	SNP	T	T/A	TTATGAGCTGCTTGTGAATATATCCCAACAGCTGCTGTTGTCTTACAGTTAGG(T/A)TTTTGAAAATAGGAAGAAAGAGAGGGCTGTGGAAAGTTCCAGCCCTGCCGAGTAAAA
594	ELOVL2_48152880	ELOVL2_43942170	SNP	C	C/T	CTTGAACGCCCAAGGGTCCCGCTGAGAGGCAACTGGCCTCCAGTCTCCG(C/T)GGCAAGGGTGTGCTGCGCTCCAGCCCTCTCTGCCAGCAGGCCAATTTCCGGGAACAG
595	ELOVL2_48153078	ELOVL2_43942368	SNP	C	C/T	CCCTCCTTCCATCACATCAGGCTGCAGAGCTGAAGTACCATGCCCTCCAGAAAAC(C/T)TTAAAAAAGGGCTCGCTTGGATGACTCTCCGCTCCCGTAAACAAGTCCACGAC
596	ELOVL2_48153172	ELOVL2_43942462	SNP	C	C/G	CCCTGCTCCCGTAAACAAGTCCAGCAGACTAGGAGGAAACCCCTTGGAGGAGTGA(C/G)TGTGTGAGTTTGGTCTCAGCAGGAGCTAAAATGTTTCAAAATGACTCAGCCG#
597	ELOVL2_48153202	ELOVL2_43942492	SNP	G	G/A	CTAGGGAGGAAACCCCTTGGAGGAGTAGACTCTGGTGCAGTTTAGGCTCAGACGGGA(G/A)CTAAAATGTTATCAAAATGCACTACCCGAGGTCAAAAGGAGGCTCAGAAAGCAGAGGTC
598	ELOVL2_48153484	ELOVL2_43942774	SNP	G	G/A	GGGGAAGCTTGGTTAGTTTACACTCTCAGCTCGATTTGGATAGAGGCTCAGGATGCTT(G/A)CTTCTGACTGTATCTGTAATCCTAGGGAAGCTTCAAGAACACTTGATAGCTTAAACCA
599	ELOVL2_48154090	ELOVL2_43943361	SNP	G	G/A	GGGACTTCTTATTTGAAAATAAGGATACTACTTTTTTATTTCCTTGGAAAACACTT(G/A)TATCTTAAAGAACATAGTATCATGACTGAGGTGGCTGGGAGGCAAGAACCAATTTTC
600	ELOVL2_48154167	ELOVL2_43943466	SNP	C	C/T	TATCATGACTGAGGTGGCTGGAGGAGCAGAAAGCCATTTTTCTTTGTAGATAAAAAG(C/T)ATCTGTATGATTTGTGATAAATAATGATTTTACACTAAAGTATGTCATGATTCCTT
601	ELOVL2_48154246	ELOVL2_43943545	SNP	G	G/T	TAATAAATGATTTTACACTAAAGTATGTCATGATTCCTTTTATCCGCTCAAAGAAGT(G/T)AAAAATGTTCTGATGCTATTCCAAGTACACTATTACACAGGAATTTGGTTTTTTTT
602	ELOVL2_48154346	ELOVL2_43943646	SNP	A	A/C	CAGGAATTTGGTTTTTTTTTAAACAAGTATATTTTAGCAATTAATTTTGCAGGTGTAAT(A/C)CATTTAGTAAAGCAGTGGGCTTTATATAACAATGACCTTTATGAGTATTCATATAC

SNP	RefSeq	SNPName_OARv1.0	SNPName_OARv2.0	SNP Type	Reference	Genotype	SNP Consensus Sequence
105	171391	FADS locus 43655644	FADS locus 38090879	Indel	A	A/insA	AGATGTGTTCAAAGGAAGGGCTTGGGAACGCAAGAGGACAAATTCAGGCTTATACCAGA(A/insA)CAGTGAAGCTTAGACCTGAGTACGCCAGGAACACACCCGGGACGGCTGTCTCTGGAA
106	175181	FADS locus 43665768		Indel	T	T/delT	CAGCAGGAAGTAGGCTTCCAACGAGTCTTTCCAGACTCAGACAGTCTGAAAAGAAAAC(T/delT)AGGTTTTTATTTTCCTGGGGTTCTGCCTCAGTATTTTCTTACAATCCTTTGGGGATC
107	175363	FADS locus 43665950		Indel	A	A/delA	AGCCAAAGACAGTAGAAGTTTCTGTAGCAGTAATATTTTGTCTTCTATATAAAA(A/delA)TAGGCTCTGAGTACTCTTCTGTGGTTCCACTCTTCTCTCTGGTTATAGACTTCT
108	175416	FADS locus 43666003		Indel	G	G/delG	TAAAAAATAGGCTCTGAGTACTCTGTGGTTTCCACTCTTCTCTCTGTTATTA(G/delG)ATCTTCTCTATTTGTCACATGATTTCTTCACTAACTGCTATTTGCTGTGACTTTGA
109	175417	FADS locus 43666004		Indel	A	A/delA	AAAAAATAGGCTCTGAGTACTCTGTGGTTTCCACTCTTCTCTCTGTTATTAG(A/delA)TCTTCTCTATTTGTCACATGATTTCTTCACTAACTGCTATTTGCTGTGCATTTGAA
110	177183	FADS locus 43668425		Indel	A	A/delA	TTTTCTGTTAATATACATGTAGATACCCACTCTTAAATAAATTTGTATAAATTCAAA(A/delA)GTATGTCAATACCTGTTTTATGTAGTACCTCTAATTAAGCCACATTAATGACTATTT
111	177184	FADS locus 43668426		Indel	G	G/delG	TTTTCTGTTAATATACATGTAGATACCCACTCTTAAATAAATTTGTATAAATTCAAA(G/delG)TATGTCAATACCTGTTTTATGTAGTACCTCTAATTAAGCCACATTAATGACTATTTA
112	180216	FADS locus 43674031	FADS locus 38081725	Indel	C	C/delC	GTGGGACCTGGGTGTGTAGTCTGAGTGGAGTCCAGGCTCAGTGCATCAGTCTACATG(A/delC)TGGCAGGACTTGGACTCTCCAGGTTAGTGTGCAAAACCTTATTAATCTCATGGCC
113	180217	FADS locus 43674032	FADS locus 38081726	Indel	T	T/delT	TGGGACCTGGGTGTGTAGTCTGAGTGGAGTCCAGGCTCAGTGCATCAGTCTACATGAC(T/delT)GGCAGGACTTGGACTCTCCAGGTTAGTGTGCAAAACCTTATTAATCTCATGGCC
114	181367	FADS locus 43676679	FADS locus 38084199	Indel	A	A/delA	GATGAGGGGACAGTGGGAAGGCTCTCACACCTGTGATCCCATGTTGTGGTACCCT(A/delA)GGGACGACTGGGGCCACACCCAGAGGCGACACTCCAGCCAGGGTGCAGGGGGC
115	181370	FADS locus 43676682	FADS locus 38084202	Indel	G	G/delG	GAGGGGACAGTGGGAAGGCTCTCACACCTGTGATCCCATGTTGTGGTACCCTAGG(G/delG)ACCAGCTGGGGCCACACCCAGAGGCGACACTCCAGCCAGGGTGCAGGGGCTGC
116	186109	FADS locus 43698800	FADS locus 38118654	Indel	C	C/delC	CCACACTCTCACACACAGAGGCTCCTCACTTCTACGGCTACATGATCTTCC(C/delC)AGTGTTCATGCGGCATTTGATTGTCTCTCCAAAGCAAGTGCAGAACTTG
117	186382	FADS locus 43699439	FADS locus 38119296	Indel	A	A/delA	CTGTACATTTTGTGAATTTGCCAAAATCATCCATGCTTAATAATTTGGGAAAAAAA(A/delA)GATTAAGAGCACAGCATTGATCTTTAATTTAAAAGCAATGCAGCAGTATTAGAGTTT
118	190785	FADS locus 43706678	FADS locus 38126241	Indel	C	C/delC	GGCTTAGGGACTTGTCCCTGACAGGGACTGAAGTGGGCTCGGTAGTGA(AA/C/delC)TGGACTGCCAGGAAATCCCTGGGATTATCATTTCCCTGTAGAACAGAAAGCAAGTCA
119	191591	FADS locus 43707964	FADS locus 38127505	Indel	A	A/delA	CTGTGGAAACCATCCCACTCCAGCACCACGCAAAACCAACATCTTCCACAAGGACCC(A/delA)GAGATGTGAACATGCTGCTGATGTTTCTGGGCGAGTGGCAACCCATTAGGTACG
120	191592	FADS locus 43707965	FADS locus 38127506	Indel	A	A/delA	TGGTGGAAACCATCCCACTCCAGCACCACGCAAAACCAATCTTCCACAAGGACCC(A/delA)GAGATGTGAACATGCTGCTGATGTTTCTGGGCGAGTGGCAACCCATTAGGTACG
121	191593	FADS locus 43707966	FADS locus 38127506	Indel	G	G/delG	GGTGGAAACCATCCCACTCCAGCACCACGCAAAACCAATCTTCCACAAGGACCC(A/delG)GAGATGTGAACATGCTGCTGATGTTTCTGGGCGAGTGGCAACCCATTAGGTACG
122	191594	FADS locus 43707967	FADS locus 38127506	Indel	A	A/delA	GTGGAAACCATCCCACTCCAGCACCACGCAAAACCAATCTTCCACAAGGACCC(A/delA)GAGATGTGAACATGCTGCTGATGTTTCTGGGCGAGTGGCAACCCATTAGGTACG
123	194691	FADS locus 43712855	FADS locus 38132693	Indel	C	C/delC	TTGCTTAGTCCCTGGGCCAGCCCTGGTGAAGTACACATGAGGAGTGGGCTCGGTAGTGA(AA/C/delC)TGGCTTAAACAGGAGCAGGCTCTCTCAAGCCACTTATAGATGGACAGCTGAAG
124	195816	FADS locus 43714390	FADS locus 38134254	Indel	A	A/delA	TACGCTGGAGCTTTAAATTTGTTTATTTATTTATTTGGCGGGCTGGTCTTACTGCT(A/delA)GTCCAGGGCTTCTCTCATTGCAAGTGGGCGGCTCTCTGTTAGGATGCAAGG
125	195817	FADS locus 43714391	FADS locus 38134255	Indel	G	G/delG	TACGCTGGAGCTTTAAATTTGTTTATTTATTTATTTGGCGGGCTGGTCTTACTGCT(A/delG)TGGTGGAGTGGGCGGCTTCTCTGCAAGTGGGCGGCTCTCTGTTAGGATGCAAGG
126	197086	FADS locus 43716180	FADS locus 38136019	Indel	C	C/delC	ATACCTGCTTACAATCACAGATGAGTACTTCTTCTGAGTGGTGGCGGGACCC(C/delC)ACAAACCCCTGACCTCTTCCACCCCAATGCGCCATCCATCCCGCTCCCACTGACA
127	197091	FADS locus 43716185	FADS locus 38136023	Indel	A	A/delA	TGCTTACAATCACAGCATGAGTACTTCTTCTGAGTGGTGGCGGGACCCCCACA(A/delA)CCCTGACCTCTTCCACCCCAATGCGCCATCCATCCCGCTCCCACTGACACCTT
128	197092	FADS locus 43716186	FADS locus 38136023	Indel	C	C/delC	GCCTTACAATCACAGCATGAGTACTTCTTCTGAGTGGTGGCGGGACCCCCACA(A/delC)CCCTGACCTCTTCCACCCCAATGCGCCATCCATCCCGCTCCCACTGACACCTT
129	197708	FADS locus 43716202	FADS locus 38136966	Indel	A	A/delA	TCTGGAGACTAGTCCAAGATCAAGGAGTCTGCAAGCTTGGCCCTCGGAGGGCTG(A/delA)GAAAAATGTTTGGGCGGCTCTGTCTGACACATGAGCGGCAACGCTTCTCTGTG
130	197709	FADS locus 43716203	FADS locus 38136966	Indel	A	A/delA	CTGGAGACTAGTCCAAGATCAAGGAGTCTGCAAGCTTGGCCCTCGGAGGGCTG(A/delA)GAAAAATGTTTGGGCGGCTCTGTCTGACACATGAGCGGCAACGCTTCTCTGTG
131	197714	FADS locus 43716208	FADS locus 38136966	Indel	A	A/delA	GACTAGACTCCAAGATCAAGGAGTCTGCAAGCTTGGCCCTCGGAGGGCTG(A/delA)GAAAAATGTTTGGGCGGCTCTGTCTGACACATGAGCGGCAACGCTTCTCTGTGGTGTG
132	197895	FADS locus 43717318	FADS locus 38137150	Indel	G	G/delG	CGACCGATCTTCACTAATGACACTGTCTCAAATAGTCCCACTGTGAGTCCCGGG(G/delG)ATGAAGAGTCAATTTAGGGGACACATCCCGCCATCACTCCAGAGAGAAGGGGACT
133	199724	FADS locus 43719952	FADS locus 38139989	Indel	T	T/delT	CCCTCTGCACAGCATGCCCCCGCTCTACAGTCTGGAGACTTGGCCCTCGGCT(T/delT)GGGGCCGGGGTCTGGATTGGGCTCCCTATTTCATCCCTGAGTCTCGGAATAACCA
134	203452	FADS locus 43726311	FADS locus 38146312	Indel	C	C/delC	ACCATTAGAGGCGCTGGAGTCTGGGGATCTTGGGGAACATGCCTCCGCCCTTACC(C/delC)TGTGCTCTTCTCTCTCACTGGGCTGGGCGGACAGTGTGAGCTCAGGATGTA
135	205270	FADS locus 43729240	FADS locus 38149190	Indel	G	G/delG	GGCTGGAGGCTTCCCAAGTGGAGACTTGTGATGGCCAGGGCCAGTATTGACAC(G/delG)ATTTTAAAGATAAATGGCTCCGCTGTGCTGACGCTCTCAGCAAAAGCTTCCAA
136	217311	FADS locus 43745313	FADS locus 38165389	Indel	C	C/delC	AGCGCCTCACTAGGGCAGGCTCTGCCCCGACACACCACTCTGAGACCC(C/delC)TCTCTCCACAGACATCTGCTGAGCTCAGCCAGGACTGTTTCCAGGCTGGCTG
137	218932	FADS locus 43747351	FADS locus 38168745	Indel	A	A/delA	TCCATGAGTCTTACGGCCTGTGGACACACTGAAGTCTCCATCCCTGAGGAGCCAA(G/delA)ACCAGTCACTGCTGGAGCTGAGTGTCTGTGTAGGCCAGCAGGGCTCAGGCAAGT
138	218933	FADS locus 43747352	FADS locus 38168745	Indel	G	G/delG	CCATGAGTCTTACGGCCTGTGGACACACTGAAGTCTCCATCCCTGAGGAGCCAA(G/delG)ACCAGTCACTGCTGGAGCTGAGTGTCTGTGTAGGCCAGCAGGGCTCAGGCAAGT
139	218934	FADS locus 43747353	FADS locus 38168745	Indel	A	A/delA	CATGAGTCTTACGGCCTGTGGACACACTGAAGTCTCCATCCCTGAGGAGCCAA(G/delA)CCAGTCACTGCTGGAGCTGAGTGTCTGTGTAGGCCAGCAGGGCTCAGGCAAGT
140	219996	FADS locus 43754092	FADS locus 38173983	Indel	A	A/delA	CTGAGATACTGAGGCCACAGTGTGAGTACACGCGCTCAGGATCTTACGCTACTA(A/delA)GATTGGCTGACCTGCCTCATCTGGGCTGACACAGGAAATGCTACCGCAGGTGCAGGC
141	219997	FADS locus 43754093	FADS locus 38173983	Indel	G	G/delG	TGAGATACTGAGGCCACAGTGTGAGTACACGCGCTCAGGATCTTACGCTACTA(A/delG)ATTGGCTGACCTGCCTCACTGGGCTGACACAGGAAATGCTACCGCAGGTGCAGGC
142	219998	FADS locus 43754094	FADS locus 38173983	Indel	A	A/delA	GAGATACTGAGGCCACAGTGTGAGTACACGCGCTCAGGATCTTACGCTACTA(A/delA)TTGGCTGACCTGCCTCACTGGGCTGACACAGGAAATGCTACCGCAGGTGCAGGC
143	223408	SLC26A10 172957287	SLC26A10 161700554	Indel	A	A/delA	CCCGTCCCGGGCAGAGAAAGCTCAAATATCCAGCTCCAAACATCAITTAACCT(A/delA)CGAAGCGCCAGTACAGCCACTGGGTGCCTTGAAGTCTCCCACTGCTCACCTAGGC
144	223410	SLC26A10 172957289	SLC26A10 161700554	Indel	G	G/delG	CGTCCCGGGCAGAGAAAGCTCAAATATCCAGCTCCAAACATCAITTAACCTAC(G/delG)AAGCGCCAGTACAGCCACTGGGTGCCTTGAAGTCTCCCACTGCTCACCTAGGC
145	223411	SLC26A10 172957290	SLC26A10 161700554	Indel	A	A/delA	GTGCCCGGGCAGAGAAAGCTCAAATATCCAGCTCCAAACATCAITTAACCTAC(G/delA)AGCGCCAGTACAGCCACTGGGTGCCTTGAAGTCTCCCACTGCTCACCTAGGC
146	224324	SLC26A10 172958200	SLC26A10 161701467	Indel	C	C/delC	GTGCTTTTCAAGTGCAAAAGAGCCATGAGGGGACTTAAACCTAAAGCAAAATAC(C/delC)TCTCATCTTGGTAACTAAGGGTGGGGAAGCCCAAGTATATAGTCCAGGGCTGTC
147	231811	SLC26A10 172967421	SLC26A10 161710736	Indel	T	T/delT	AAAGAGTACTGTGGGACTTAGTGTAGTACACTGGGTGTGGGGAAATGGTGGGAA(G/delT)ACCACAGCAGGCTTCCAGTGGGCTTGAACAAGAGACCAAGTGGAGGAAAGGG
148	233670	ELOVL2 48150330	ELOVL2 43939543	Indel	A	A/delA	AAAGAAGCAACCATGATAGAACCAAAAGCCACCTCTACTAAAAAAAAG(A/delA)CGAATATTGCTAGCAGACTAAGCAATTTGCTTGGTGTGAACTTGAAGAAATCCATAC
149	234172	ELOVL2 48150832	ELOVL2 43940056	Indel	T	T/delT	TTAAATCTGTTATACACTGAACATAAGCACTGAATTTACTATACCTGATTTTTT(T/delT)AAAAAGACTTCCCAAAATCAITCCCTCCATGAAGCAACTAATGCAGAAATTTGAATGC
150	235860	ELOVL2 48152520	ELOVL2 43941813	Indel	G	G/delG	ACCAGTCTTCTCCCAAGGAAAGGGCTCAATTAATTTGCCAAGAAATAGAAACGG(G/delG)TATTTTCCGAAGTCTGATGAGATTTACACCTATAAAAATTTACCTCTGAAAAA
151	235860	ELOVL2 48152520	ELOVL2 43941813	Indel	G	G/delG	ACCAGTCTTCTCCCAAGGAAAGGGCTCAATTAATTTGCCAAGAAATAGAAACGG(G/delG)TATTTTCCGAAGTCTGATGAGATTTACACCTATAAAAATTTACCTCTGAAAAA

Supplementary Table 3: Minor Allele Frequency calculated for each sire group. The minor allele frequency was only calculated for SNPs represented in 12 or more animals sires out of a possible 35 sires from the Australian Sheep Industry

SNP	RefPos	Gene	Chr	SNPName_OARv1.0	SNPName_OARv2.0	SNP Type	Reference	SIRE Type	Maternal				Merino				Terminal			
								Genotype	AA	AB	BB	MAF	AA	AB	BB	MAF	AA	AB	BB	MAF
1	2873	CAPN1	21	CAPN1_47209416	CAPN1_41150484	SNP	C	C/T	0.25	0.00	0.75	0.75	0.78	0.00	0.22	0.22	0.75	0.00	0.25	0.25
2	3102	CAPN1	21	CAPN1_47209645	CAPN1_41150714	SNP	G	G/C	1.00	0.00	0.00	0.00	0.69	0.00	0.31	0.31	0.54	0.08	0.38	0.42
3	4018	CAPN1	21	CAPN1_47210879	CAPN1_41151951	SNP	A	A/G	0.00	0.00	1.00	1.00	0.11	0.11	0.78	0.83	0.00	0.31	0.69	0.85
4	4184	CAPN1	21	CAPN1_47211045	CAPN1_41152117	SNP	G	G/A	0.11	0.00	0.89	0.89	0.33	0.00	0.67	0.67	0.54	0.15	0.31	0.38
5	4455	CAPN1	21	CAPN1_47211316	CAPN1_41152388	SNP	C	C/T	0.89	0.11	0.00	0.06	0.92	0.08	0.00	0.04	0.69	0.31	0.00	0.15
6	4522	CAPN1	21	CAPN1_47211383	CAPN1_41152455	SNP	T	T/C	1.00	0.00	0.00	0.00	0.38	0.38	0.23	0.42	0.62	0.38	0.00	0.19
7	4624	CAPN1	21	CAPN1_47211485	CAPN1_41152557	SNP	T	T/C	1.00	0.00	0.00	0.00	0.38	0.38	0.23	0.42	0.62	0.38	0.00	0.19
8	4820	CAPN1	21	CAPN1_47211681	CAPN1_41152753	SNP	G	G/A	0.11	0.00	0.89	0.89	0.38	0.31	0.31	0.46	0.54	0.23	0.23	0.35
9	4886	CAPN1	21	CAPN1_47211747	CAPN1_41152819	SNP	G	G/C	1.00	0.00	0.00	0.00	0.38	0.38	0.23	0.42	0.62	0.38	0.00	0.19
10	4936	CAPN1	21	CAPN1_47211797	CAPN1_41152869	SNP	G	G/A	0.89	0.00	0.11	0.11	0.77	0.23	0.00	0.12	0.23	0.54	0.23	0.50
11	5018	CAPN1	21	CAPN1_47211879	CAPN1_41152951	SNP	G	G/C	1.00	0.00	0.00	0.00	0.38	0.31	0.31	0.46	0.62	0.38	0.00	0.19
12	5393	CAPN1	21	CAPN1_47212254	CAPN1_41153326	SNP	C	C/T	0.11	0.00	0.89	0.89	0.38	0.31	0.31	0.46	0.62	0.15	0.23	0.31
13	5629	CAPN1	21	CAPN1_47212603	CAPN1_41153675	SNP	G	G/A	0.89	0.00	0.11	0.11	0.78	0.11	0.11	0.17	0.31	0.15	0.54	0.62
14	7058	CAPN1	21	CAPN1_47214822	CAPN1_41155577	SNP	C	C/T	0.78	0.00	0.22	0.22	0.38	0.15	0.46	0.54	0.82	0.00	0.18	0.18
15	8465	CAPN1	21	CAPN1_47220759	CAPN1_41161265	SNP	A	A/G	0.67	0.33	0.00	0.17	0.50	0.13	0.38	0.44	0.89	0.00	0.11	0.11
16	8571	CAPN1	21	CAPN1_47220865	CAPN1_41161371	SNP	A	A/G	0.22	0.44	0.33	0.56	0.23	0.46	0.31	0.54	0.46	0.38	0.15	0.35
17	9101	CAPN1	21	CAPN1_47222133	CAPN1_41162629	SNP	C	C/T	0.33	0.33	0.33	0.50	0.46	0.31	0.23	0.38	0.38	0.62	0.00	0.31
18	9206	CAPN1	21	CAPN1_47222238	CAPN1_41162734	SNP	G	G/A	0.33	0.22	0.44	0.56	0.38	0.38	0.23	0.42	0.46	0.31	0.23	0.38
19	9382	CAPN1	21	CAPN1_47222414	CAPN1_41162910	SNP	T	T/C	0.22	0.33	0.44	0.61	0.25	0.33	0.42	0.58	0.23	0.54	0.23	0.50
20	9724	CAPN1	21	CAPN1_47223093	CAPN1_41163594	SNP	A	A/T	0.57	0.29	0.14	0.29	0.83	0.00	0.17	0.17	0.83	0.17	0.00	0.08
21	10223	CAPN1	21	CAPN1_47224962	CAPN1_41165475	SNP	C	C/T	0.67	0.00	0.33	0.33	0.89	0.00	0.11	0.11	0.83	0.00	0.17	0.17
22	10639	CAPN1	21	CAPN1_47225378	CAPN1_41165891	SNP	C	C/T	0.38	0.25	0.38	0.50	0.40	0.20	0.40	0.50	0.45	0.36	0.18	0.36
23	12295	CAPN1	21	CAPN1_47230235	CAPN1_41170556	Indel	C	C/delC	0.75	0.13	0.13	0.19	0.88	0.13	0.00	0.06	0.73	0.27	0.00	0.14
24	12362	CAPN1	21	CAPN1_47230302	CAPN1_41170622	SNP	G	G/A	0.25	0.13	0.63	0.69	0.13	0.00	0.88	0.88	0.27	0.09	0.64	0.68
25	12638	CAPN1	21	CAPN1_47230617	CAPN1_41170931	SNP	G	G/A	0.71	0.00	0.29	0.29	0.38	0.13	0.50	0.56	0.71	0.00	0.29	0.29
26	12813	CAPN1	21	CAPN1_47230792	CAPN1_41171106	SNP	G	G/A	0.22	0.44	0.33	0.56	0.33	0.42	0.25	0.46	0.23	0.62	0.15	0.46
27	12959	CAPN1	21	CAPN1_47230938	CAPN1_41171252	SNP	G	G/A	0.22	0.44	0.33	0.56	0.25	0.50	0.25	0.50	0.23	0.62	0.15	0.46
28	13077	CAPN1	21	CAPN1_47231056	CAPN1_41171370	SNP	T	T/C	0.33	0.44	0.22	0.44	0.50	0.25	0.25	0.38	0.38	0.38	0.23	0.42
29	13148	CAPN1	21	CAPN1_47231127	CAPN1_41171441	SNP	T	T/C	0.63	0.13	0.25	0.31	0.67	0.17	0.17	0.25	0.15	0.46	0.38	0.62
30	13403	CAPN1	21	CAPN1_47231547	CAPN1_41171868	SNP	T	T/C	0.71	0.00	0.29	0.29	0.60	0.30	0.10	0.25	0.75	0.25	0.00	0.13
31	13584	CAPN1	21	CAPN1_47231728	CAPN1_41172049	SNP	G	G/A	0.57	0.29	0.14	0.29	0.55	0.18	0.27	0.36	0.25	0.42	0.33	0.54
32	16847	CAPN2	12	CAPN2_28663058	CAPN2_24837604	SNP	T	T/C	0.00	0.00	1.00	1.00	0.00	0.15	0.85	0.92	0.00	0.17	0.83	0.92
33	17062	CAPN2	12	CAPN2_28663273	CAPN2_24837803	Indel	T	T/delT	0.22	0.78	0.00	0.39	0.38	0.62	0.00	0.31	0.33	0.67	0.00	0.33
34	17506	CAPN2	12	CAPN2_28663717	CAPN2_24838246	SNP	G	G/A	0.22	0.11	0.67	0.72	0.23	0.23	0.54	0.65	0.38	0.00	0.62	0.62
35	17751	CAPN2	12	CAPN2_28663962	CAPN2_24838491	SNP	T	T/C	0.71	0.00	0.29	0.29	0.09	0.00	0.91	0.91	0.58	0.00	0.42	0.42
36	17812	CAPN2	12	CAPN2_28664023	CAPN2_24838551	Indel	A	A/delA	0.00	1.00	0.00	0.50	0.33	0.67	0.00	0.33	0.17	0.83	0.00	0.42
37	17813	CAPN2	12	CAPN2_28664024	CAPN2_24838551	Indel	G	G/delG	0.00	0.00	1.00	1.00	0.33	0.33	0.33	0.50	0.17	0.17	0.67	0.75
38	17814	CAPN2	12	CAPN2_28664025	CAPN2_24838551	Indel	A	A/delA	0.00	0.00	1.00	1.00	0.33	0.33	0.33	0.50	0.17	0.17	0.67	0.75
39	17815	CAPN2	12	CAPN2_28664026	CAPN2_24838551	Indel	G	G/delG	0.00	0.00	1.00	1.00	0.33	0.33	0.33	0.50	0.17	0.17	0.67	0.75
40	17816	CAPN2	12	CAPN2_28664027	CAPN2_24838551	Indel	C	C/delC	0.00	0.00	1.00	1.00	0.50	0.50	0.00	0.25	0.17	0.17	0.67	0.75
41	17817	CAPN2	12	CAPN2_28664028		Indel	A	A/delA	0.00	0.00	1.00	1.00	0.60	0.60	-0.20	0.10	0.29	0.29	0.43	0.57
42	17818	CAPN2	12	CAPN2_28664029		Indel	G	G/delG	0.00	0.00	1.00	1.00	0.60	0.60	-0.20	0.10	0.38	0.38	0.25	0.44
43	17819	CAPN2	12	CAPN2_28664030		Indel	G	G/delG	0.25	0.25	0.50	0.63	0.60	0.60	-0.20	0.10	0.38	0.38	0.25	0.44
44	17820	CAPN2	12	CAPN2_28664031		Indel	T	T/delT	0.25	0.25	0.50	0.63	0.60	0.60	-0.20	0.10	0.38	0.38	0.25	0.44
45	18701	CAPN2	12	CAPN2_28665130	CAPN2_24839640	Indel	T	T/delT	0.33	0.67	0.00	0.33	0.31	0.69	0.00	0.35	0.33	0.67	0.00	0.33
46	18834	CAPN2	12	CAPN2_28665263	CAPN2_24839772	SNP	C	C/G	0.44	0.33	0.22	0.39	0.23	0.15	0.62	0.69	0.45	0.36	0.18	0.36
47	18921	CAPN2	12	CAPN2_28665350	CAPN2_24839859	SNP	C	C/T	0.57	0.43	0.00	0.21	0.55	0.00	0.45	0.45	0.60	0.30	0.10	0.25
48	18962	CAPN2	12	CAPN2_28665391	CAPN2_24839900	SNP	A	A/G	0.57	0.00	0.43	0.43	0.40	0.20	0.40	0.50	0.67	0.00	0.33	0.33
49	19592	CAPN2	12	CAPN2_28666275	CAPN2_24840757	SNP	C	C/A	0.11	0.00	0.89	0.89	0.38	0.00	0.62	0.62	0.18	0.00	0.82	0.82
50	19778	CAPN2	12	CAPN2_28666669	CAPN2_24841151	SNP	T	T/C	1.00	0.00	0.00	0.00	0.54	0.38	0.08	0.27	0.55	0.45	0.00	0.23
51	20028	CAPN2	12	CAPN2_28667200	CAPN2_24841682	SNP	G	G/A	0.78	0.22	0.00	0.11	0.77	0.23	0.00	0.12	0.70	0.30	0.00	0.15
52	20453	CAPN2	12	CAPN2_28667683	CAPN2_24842165	SNP	A	A/C	1.00	0.00	0.00	0.00	0.54	0.38	0.08	0.27	0.62	0.38	0.00	0.19
53	20840	CAPN2	12	CAPN2_28668484	CAPN2_24842935	SNP	C	C/T	1.00	0.00	0.00	0.00	0.77	0.23	0.00	0.12	0.54	0.46	0.00	0.23

SNP	RefPos	Gene	Chr	SNPName_OARv1.0	SNPName_OARv2.0	SNP Type	Reference	SIRE Type	Maternal				Merino				Terminal			
								Genotype	AA	AB	BB	MAF	AA	AB	BB	MAF	AA	AB	BB	MAF
54	20945	CAPN2	12	CAPN2_28668589	CAPN2_24843040	SNP	T	T/C	0.56	0.22	0.22	0.33	0.62	0.38	0.00	0.19	0.46	0.54	0.00	0.27
55	21011	CAPN2	12	CAPN2_28668655	CAPN2_24843106	SNP	A	A/G	0.89	0.11	0.00	0.06	0.69	0.23	0.08	0.19	0.85	0.15	0.00	0.08
56	21079	CAPN2	12	CAPN2_28668723	CAPN2_24843174	SNP	A	A/G	0.22	0.00	0.78	0.78	0.23	0.38	0.38	0.58	0.31	0.31	0.38	0.54
57	22537	CAPN2	12	CAPN2_28671066	CAPN2_24845518	SNP	A	A/C	1.00	0.00	0.00	0.00	0.62	0.31	0.08	0.23	0.75	0.25	0.00	0.13
58	22678	CAPN2	12	CAPN2_28671207	CAPN2_24845659	SNP	G	G/C	0.86	0.00	0.14	0.14	0.64	0.00	0.36	0.36	0.33	0.33	0.33	0.50
59	22736	CAPN2	12	CAPN2_28671265	CAPN2_24845718	SNP	C	C/T	1.00	0.00	0.00	0.00	0.69	0.23	0.08	0.19	0.58	0.42	0.00	0.21
60	23400	CAPN2	12	CAPN2_28672268	CAPN2_24846750	SNP	G	G/C	0.75	0.00	0.25	0.25	0.85	0.08	0.08	0.12	0.85	0.15	0.00	0.08
61	23432	CAPN2	12	CAPN2_28672300	CAPN2_24846782	SNP	G	G/A	0.67	0.11	0.22	0.28	0.69	0.23	0.08	0.19	0.77	0.23	0.00	0.12
62	23442	CAPN2	12	CAPN2_28672310	CAPN2_24846792	SNP	C	C/A	0.67	0.00	0.33	0.33	0.77	0.00	0.23	0.23	0.62	0.00	0.38	0.38
63	23618	CAPN2	12	CAPN2_28672486	CAPN2_24846968	SNP	G	G/A	1.00	0.00	0.00	0.00	0.62	0.38	0.00	0.19	0.69	0.31	0.00	0.15
64	23745	CAPN2	12	CAPN2_28672613	CAPN2_24847095	SNP	C	C/T	0.78	0.11	0.11	0.17	0.46	0.54	0.00	0.27	0.54	0.31	0.15	0.31
65	23857	CAPN2	12	CAPN2_28672725	CAPN2_24847207	SNP	G	G/A	1.00	0.00	0.00	0.00	0.62	0.38	0.00	0.19	0.69	0.31	0.00	0.15
66	24029	CAPN2	12	CAPN2_28672897	CAPN2_24847379	SNP	T	T/A	0.56	0.22	0.22	0.33	0.92	0.08	0.00	0.04	0.62	0.38	0.00	0.19
67	24475	CAPN2	12	CAPN2_28673763	CAPN2_24848255	SNP	G	G/C	0.63	0.38	0.00	0.19	0.82	0.18	0.00	0.09	0.70	0.30	0.00	0.15
68	26235	CAPN2	12	CAPN2_28676222	CAPN2_24850971	SNP	T	T/C	0.43	0.29	0.29	0.43	0.54	0.15	0.31	0.38	0.44	0.22	0.33	0.44
69	26427	CAPN2	12	CAPN2_28676499	CAPN2_24851250	SNP	G	G/A	0.63	0.00	0.38	0.38	0.67	0.00	0.33	0.33	0.54	0.00	0.46	0.46
70	26897	CAPN2	12	CAPN2_28677102	CAPN2_24851852	SNP	T	T/C	0.71	0.00	0.29	0.29	0.77	0.23	0.00	0.12	0.77	0.00	0.23	0.23
71	26988	CAPN2	12	CAPN2_28677193		SNP	C	C/G	0.29	0.14	0.57	0.64	0.38	0.00	0.62	0.62	0.23	0.00	0.77	0.77
72	27531	CAPN2	12	CAPN2_28677736	CAPN2_24852468	Indel	C	C/delC	0.00	1.00	0.00	0.50	0.17	0.83	0.00	0.42	0.31	0.69	0.00	0.35
73	27622	CAPN2	12	CAPN2_28677827	CAPN2_24852558	SNP	T	T/C	0.78	0.22	0.00	0.11	0.69	0.23	0.08	0.19	0.77	0.23	0.00	0.12
74	27643	CAPN2	12	CAPN2_28677848	CAPN2_24852579	SNP	G	G/C	0.67	0.11	0.22	0.28	0.92	0.08	0.00	0.04	0.85	0.15	0.00	0.08
75	28045	CAPN2	12	CAPN2_28678751	CAPN2_24853472	SNP	T	T/C	1.00	0.00	0.00	0.00	0.67	0.00	0.33	0.33	0.33	0.00	0.67	0.67
76	28257	CAPN2	12	CAPN2_28678963	CAPN2_24853684	SNP	A	A/G	0.50	0.25	0.25	0.38	0.46	0.46	0.08	0.31	0.62	0.08	0.31	0.35
77	28515	CAPN2	12	CAPN2_28679541	CAPN2_24854184	SNP	G	G/T	0.50	0.00	0.50	0.50	0.00	0.00	1.00	1.00	0.14	0.00	0.86	0.86
78	29185	CAPN2	12	CAPN2_28680389	CAPN2_24855032	SNP	G	G/C	0.71	0.14	0.14	0.21	0.77	0.15	0.08	0.15	0.62	0.08	0.31	0.35
79	29244	CAPN2	12	CAPN2_28680448	CAPN2_24855091	Indel	T	T/delT	0.00	1.00	0.00	0.50	0.00	1.00	0.00	0.50	0.00	1.00	0.00	0.50
80	29351	CAPN2	12	CAPN2_28680555	CAPN2_24855197	SNP	A	A/C	1.00	0.00	0.00	0.00	0.75	0.25	0.00	0.13	0.75	0.08	0.17	0.21
81	29407	CAPN2	12	CAPN2_28680611	CAPN2_24855253	SNP	G	G/A	0.75	0.13	0.13	0.19	0.69	0.23	0.08	0.19	0.38	0.31	0.31	0.46
82	29507	CAPN2	12	CAPN2_28680711	CAPN2_24855353	SNP	A	A/G	0.56	0.11	0.33	0.39	0.92	0.08	0.00	0.04	0.90	0.00	0.10	0.10
83	29563	CAPN2	12	CAPN2_28680767	CAPN2_24855409	SNP	G	G/C	0.56	0.11	0.33	0.39	0.77	0.15	0.08	0.15	0.69	0.00	0.31	0.31
84	29732	CAPN2	12	CAPN2_28681047	CAPN2_24855714	SNP	C	C/G	0.78	0.00	0.22	0.22	0.92	0.00	0.08	0.08	0.73	0.00	0.27	0.27
85	29784	CAPN2	12	CAPN2_28681099	CAPN2_24855766	SNP	C	C/T	0.67	0.11	0.22	0.28	0.92	0.08	0.00	0.04	0.83	0.17	0.00	0.08
86	29798	CAPN2	12	CAPN2_28681113	CAPN2_24855780	SNP	A	A/C	1.00	0.00	0.00	0.00	0.69	0.08	0.23	0.27	0.62	0.00	0.38	0.38
87	29876	CAPN2	12	CAPN2_28681191	CAPN2_24855858	SNP	A	A/G	0.67	0.33	0.00	0.17	0.77	0.15	0.08	0.15	0.77	0.23	0.00	0.12
88	29982	CAPN2	12	CAPN2_28681297	CAPN2_24855964	SNP	G	G/A	0.56	0.00	0.44	0.44	0.91	0.00	0.09	0.09	0.92	0.00	0.08	0.08
89	30447	CAPN2	12	CAPN2_28682504	CAPN2_24857142	SNP	C	C/T	0.50	0.00	0.50	0.50	0.85	0.00	0.15	0.15	0.62	0.00	0.38	0.38
90	30656	CAPN2	12	CAPN2_28683226	CAPN2_24857705	SNP	A	A/G	1.00	0.00	0.00	0.00	0.50	0.00	0.50	0.50	0.20	0.40	0.40	0.60
91	31869	CAPN2	12	CAPN2_28686210	CAPN2_24860840	Indel	C	C/delC	0.50	0.50	0.00	0.25	0.75	0.25	0.00	0.13	0.33	0.67	0.00	0.33
92	33033	CAPN2	12	CAPN2_28689580	CAPN2_24863460	SNP	A	A/G	0.67	0.11	0.22	0.28	0.38	0.15	0.46	0.54	0.54	0.31	0.15	0.31
93	33260	CAPN2	12	CAPN2_28689807	CAPN2_24863687	SNP	A	A/G	0.78	0.00	0.22	0.22	0.77	0.08	0.15	0.19	0.92	0.08	0.00	0.04
94	33684	CAPN2	12	CAPN2_28690232	CAPN2_24864112	SNP	C	C/T	0.56	0.22	0.22	0.33	0.77	0.08	0.15	0.19	0.69	0.15	0.15	0.23
95	34090	CAPN2	12	CAPN2_28691440	CAPN2_24865315	SNP	A	A/G	0.33	0.00	0.67	0.67	0.15	0.08	0.77	0.81	0.31	0.00	0.69	0.69
96	34208	CAPN2	12	CAPN2_28691558	CAPN2_24865433	SNP	T	T/C	1.00	0.00	0.00	0.00	0.44	0.22	0.33	0.44	0.80	0.00	0.20	0.20
97	34427	CAPN2	12	CAPN2_28691777	CAPN2_24865652	SNP	G	G/C	0.13	0.00	0.88	0.88	0.20	0.00	0.80	0.80	0.10	0.00	0.90	0.90
98	34646	CAPN2	12	CAPN2_28691996	CAPN2_24865871	SNP	G	G/T	0.44	0.22	0.33	0.44	0.62	0.23	0.15	0.27	0.38	0.38	0.23	0.42
99	34882	CAPN2	12	CAPN2_28692364	CAPN2_24866253	SNP	G	G/A	0.57	0.29	0.14	0.29	0.82	0.18	0.00	0.09	0.80	0.20	0.00	0.10
100	35381	CAPN2	12	CAPN2_28692863	CAPN2_24866753	Indel	A	A/delA	0.56	0.56	-0.11	0.17	0.77	0.77	-0.54	-0.15	0.46	0.46	0.08	0.31
101	35382	CAPN2	12	CAPN2_28692864	CAPN2_24866754	Indel	G	G/delG	0.56	0.56	-0.11	0.17	0.77	0.77	-0.54	-0.15	0.54	0.54	-0.08	0.19
102	35418	CAPN2	12	CAPN2_28692900	CAPN2_24866790	SNP	C	C/T	0.33	0.22	0.44	0.56	0.54	0.38	0.08	0.27	0.23	0.38	0.38	0.58
103	35570	CAPN2	12	CAPN2_28693052	CAPN2_24866942	Indel	C	C/delC	0.00	1.00	0.00	0.50	0.00	1.00	0.00	0.50	0.00	1.00	0.00	0.50
104	35701	CAPN2	12	CAPN2_28693183	CAPN2_24867072	SNP	G	G/A	0.44	0.22	0.33	0.44	0.62	0.31	0.08	0.23	0.85	0.08	0.08	0.12
105	37225	CAPN2	12	CAPN2_28695241	CAPN2_24869188	SNP	A	A/G	0.50	0.00	0.50	0.50	0.73	0.00	0.27	0.27	0.45	0.09	0.45	0.50
106	37385	CAPN2	12	CAPN2_28695401	CAPN2_24869348	SNP	T	T/C	0.44	0.22	0.33	0.44	0.54	0.31	0.15	0.31	0.67	0.25	0.08	0.21
107	39056	CAPN2	12	CAPN2_28697639	CAPN2_24871228	SNP	G	G/C	0.56	0.00	0.44	0.44	0.62	0.31	0.08	0.23	0.23	0.08	0.69	0.73
108	39783	CAPN2	12	CAPN2_28698472	CAPN2_24872057	SNP	C	C/T	0.44	0.22	0.33	0.44	0.46	0.38	0.15	0.35	0.69	0.15	0.15	0.23

SNP	RefPos	Gene	Chr	SNPName_OARv1.0	SNPName_OARv2.0	SNP Type	Reference	SIRE Type	Maternal				Merino				Terminal			
								Genotype	AA	AB	BB	MAF	AA	AB	BB	MAF	AA	AB	BB	MAF
109	39788	CAPN2	12	CAPN2_28698477	CAPN2_24872062	SNP	C	C/T	0.33	0.22	0.44	0.56	0.46	0.38	0.15	0.35	0.23	0.23	0.54	0.65
110	39821	CAPN2	12	CAPN2_28698510	CAPN2_24872095	SNP	C	C/T	1.00	0.00	0.00	0.00	0.69	0.31	0.00	0.15	0.85	0.15	0.00	0.08
111	40157	CAPN2	12	CAPN2_28698846	CAPN2_24872431	SNP	C	C/A	0.71	0.00	0.29	0.29	0.91	0.00	0.09	0.09	0.45	0.00	0.55	0.55
112	40298	CAPN2	12	CAPN2_28698987	CAPN2_24872572	Indel	G	G/delG	0.00	1.00	0.00	0.50	0.08	0.92	0.00	0.46	0.08	0.92	0.00	0.46
113	41051	CAPN2	12	CAPN2_28700332	CAPN2_24873627	SNP	T	T/G	0.60	0.20	0.20	0.30	0.50	0.00	0.50	0.50	0.75	0.00	0.25	0.25
114	41412	CAPN2	12	CAPN2_28700791	CAPN2_24874081	SNP	G	G/A	0.00	0.00	1.00	1.00	0.00	0.08	0.92	0.96	0.00	0.38	0.62	0.81
115	42431	CAPN2	12	CAPN2_28702708	CAPN2_24875562	SNP	C	C/T	0.78	0.00	0.22	0.22	0.82	0.18	0.00	0.09	0.77	0.15	0.08	0.15
116	43518	CAPN2	12	CAPN2_28704160	CAPN2_24877033	SNP	C	C/A	0.00	0.00	1.00	1.00	0.08	0.00	0.92	0.92	0.08	0.00	0.92	0.92
117	43567	CAPN2	12	CAPN2_28704209	CAPN2_24877082	SNP	C	C/T	1.00	0.00	0.00	0.00	0.92	0.08	0.00	0.04	0.62	0.38	0.00	0.19
118	43586	CAPN2	12	CAPN2_28704228	CAPN2_24877101	SNP	C	C/T	0.57	0.00	0.43	0.43	0.77	0.15	0.08	0.15	0.85	0.00	0.15	0.15
119	43772	CAPN2	12	CAPN2_28704414	CAPN2_24877288	SNP	T	T/C	1.00	0.00	0.00	0.00	0.85	0.15	0.00	0.08	0.69	0.31	0.00	0.15
120	44328	CAPN2	12	CAPN2_28705011	CAPN2_24877884	SNP	G	G/A	0.29	0.00	0.71	0.71	0.67	0.00	0.33	0.33	1.00	0.00	0.00	0.00
121	44577	CAPN2	12	CAPN2_28705260	CAPN2_24878133	SNP	C	C/A	0.29	0.00	0.71	0.71	0.29	0.00	0.71	0.71	0.00	0.00	1.00	1.00
122	45473	CAPN2	12	CAPN2_28706156	CAPN2_24879035	SNP	T	T/C	0.11	0.00	0.89	0.89	0.00	0.08	0.92	0.96	0.15	0.31	0.54	0.69
123	45524	CAPN2	12	CAPN2_28706207	CAPN2_24879086	SNP	G	G/C	0.29	0.00	0.71	0.71	0.14	0.00	0.86	0.86	0.29	0.00	0.71	0.71
124	46231	CAPN2	12	CAPN2_28707240	CAPN2_24880070	SNP	A	A/T	0.00	0.00	1.00	1.00	0.30	0.00	0.70	0.70	0.00	0.00	1.00	1.00
125	46427	CAPN2	12	CAPN2_28707436	CAPN2_24880267	SNP	C	C/T	0.44	0.22	0.33	0.44	0.38	0.54	0.08	0.35	0.69	0.23	0.08	0.19
126	47913	CAPN2	12	CAPN2_28709220	CAPN2_24882046	SNP	T	T/A	1.00	0.00	0.00	0.00	0.69	0.31	0.00	0.15	0.85	0.15	0.00	0.08
127	47958	CAPN2	12	CAPN2_28709265	CAPN2_24882091	SNP	C	C/T	0.00	0.00	1.00	1.00	0.08	0.31	0.62	0.77	0.31	0.08	0.62	0.65
128	48173	CAPN2	12	CAPN2_28709786	CAPN2_24882614	SNP	T	T/C	0.00	0.00	1.00	1.00	0.36	0.00	0.64	0.64	0.27	0.00	0.73	0.73
129	48400	CAPN2	12	CAPN2_28710013	CAPN2_24882841	SNP	T	T/C	0.00	0.00	1.00	1.00	0.00	0.23	0.77	0.88	0.00	0.38	0.62	0.81
130	50462	CAPN2	12	CAPN2_28713675	CAPN2_24886440	SNP	C	C/T	1.00	0.00	0.00	0.00	0.56	0.00	0.44	0.44	0.60	0.20	0.20	0.30
131	50874	CAPN2	12	CAPN2_28714323	CAPN2_24887098	SNP	A	A/C	0.44	0.22	0.33	0.44	0.15	0.62	0.23	0.54	0.62	0.38	0.00	0.19
132	50951	CAPN2	12	CAPN2_28714400	CAPN2_24887175	SNP	C	C/A	0.89	0.00	0.11	0.11	0.62	0.00	0.38	0.38	1.00	0.00	0.00	0.00
133	51175	CAPN2	12	CAPN2_28714673	CAPN2_24887448	SNP	A	A/G	1.00	0.00	0.00	0.00	0.54	0.38	0.08	0.27	1.00	0.00	0.00	0.00
134	51188	CAPN2	12	CAPN2_28714686	CAPN2_24887461	SNP	T	T/G	0.44	0.22	0.33	0.44	0.69	0.31	0.00	0.15	0.69	0.31	0.00	0.15
135	51860	CAPN2	12	CAPN2_28715750	CAPN2_24888252	Indel	A	A/delA	0.75	0.25	0.00	0.13	0.82	0.18	0.00	0.09	0.77	0.23	0.00	0.12
136	53000	CAPN2	12	CAPN2_28718000	CAPN2_24890276	SNP	T	T/C	1.00	0.00	0.00	0.00	0.54	0.38	0.08	0.27	1.00	0.00	0.00	0.00
137	53484	CAPN2	12	CAPN2_28718901	CAPN2_24891180	Indel	T	T/delT	0.17	0.83	0.00	0.42	0.00	1.00	0.00	0.50	0.00	1.00	0.00	0.50
138	53910	CAPN2	12	CAPN2_28719327	CAPN2_24891605	SNP	G	G/T	0.44	0.22	0.33	0.44	0.92	0.08	0.00	0.04	0.77	0.23	0.00	0.12
139	55784	CAPN3	7	CAPN3_38942291	CAPN3_34554406	SNP	T	C/T	0.33	0.56	0.11	0.39	0.77	0.23	0.00	0.12	0.92	0.08	0.00	0.04
140	55834	CAPN3	7	CAPN3_38942341	CAPN3_34554457	Indel	T	T/delT	0.33	0.67	0.00	0.33	0.45	0.55	0.00	0.27	0.55	0.45	0.00	0.23
141	57345	CAPN3	7	CAPN3_38944536	CAPN3_34556497	SNP	C	C/T	0.00	0.00	1.00	1.00	0.67	0.08	0.25	0.29	0.00	0.31	0.69	0.85
142	57775	CAPN3	7	CAPN3_38945127	CAPN3_34557088	SNP	C	C/G	0.00	0.00	1.00	1.00	0.00	0.15	0.85	0.92	0.00	0.15	0.85	0.92
143	57876	CAPN3	7	CAPN3_38945228	CAPN3_34557189	SNP	A	A/C	1.00	0.00	0.00	0.00	0.62	0.38	0.00	0.19	0.85	0.15	0.00	0.08
144	58711	CAPN3	7	CAPN3_38946213	CAPN3_34558175	SNP	G	G/A	0.33	0.00	0.67	0.67	0.64	0.18	0.18	0.27	0.08	0.31	0.62	0.77
145	60066	CAPN3	7	CAPN3_38947937	CAPN3_34559835	Indel	G	G/delG	1.00	0.00	0.00	0.00	0.54	0.46	0.00	0.23	1.00	0.00	0.00	0.00
146	60067	CAPN3	7	CAPN3_38947938	CAPN3_34559836	SNP	A	A/C	0.00	0.00	1.00	1.00	0.62	0.23	0.15	0.27	0.00	0.25	0.75	0.88
147	60237	CAPN3	7	CAPN3_38948108	CAPN3_34560006	SNP	C	C/T	1.00	0.00	0.00	0.00	0.31	0.54	0.15	0.42	0.92	0.08	0.00	0.04
148	61341	CAPN3	7	CAPN3_38949212	CAPN3_34561114	SNP	C	C/T	1.00	0.00	0.00	0.00	0.69	0.31	0.00	0.15	0.85	0.15	0.00	0.08
149	61764	CAPN3	7	CAPN3_38949635	CAPN3_34561537	SNP	T	T/C	0.00	0.00	1.00	1.00	0.08	0.00	0.92	0.92	0.08	0.00	0.92	0.92
150	62028	CAPN3	7	CAPN3_38949899	CAPN3_34561801	Indel	C	C/delC	0.00	1.00	0.00	0.50	0.00	0.92	0.08	0.54	0.00	0.85	0.15	0.58
151	63726	CAPN3	7	CAPN3_38951921	CAPN3_34563819	Indel	A	A/delA	0.25	0.75	0.00	0.38	0.33	0.67	0.00	0.33	0.10	0.90	0.00	0.45
152	66192	CAPN3	7	CAPN3_38955610	CAPN3_34567687	SNP	G	G/C	1.00	0.00	0.00	0.00	0.40	0.00	0.60	0.60	0.71	0.29	0.00	0.14
153	66938	CAPN3	7	CAPN3_38957948	CAPN3_34570668	SNP	G	G/C	0.00	0.00	1.00	1.00	0.33	0.00	0.67	0.67	0.14	0.00	0.86	0.86
154	67047	CAPN3	7	CAPN3_38958057	CAPN3_34570777	SNP	C	C/T	1.00	0.00	0.00	0.00	0.45	0.18	0.36	0.45	0.75	0.13	0.13	0.19
155	68836	CAPN3	7	CAPN3_38967985	CAPN3_34577862	Indel	T	T/delT	0.00	1.00	0.00	0.50	0.00	1.00	0.00	0.50	0.00	1.00	0.00	0.50
156	69303	CAPN3	7	CAPN3_38968452	CAPN3_34578328	SNP	C	C/T	0.22	0.56	0.22	0.50	1.00	0.00	0.00	0.00	0.92	0.08	0.00	0.04
157	70399	CAPN3	7	CAPN3_38974585	CAPN3_34583101	SNP	C	A/C	0.00	0.00	1.00	1.00	0.45	0.09	0.45	0.50	0.00	0.00	1.00	1.00
158	70486	CAPN3	7	CAPN3_38974672	CAPN3_34583188	SNP	G	G/A	1.00	0.00	0.00	0.00	0.54	0.15	0.31	0.38	1.00	0.00	0.00	0.00
159	70594	CAPN3	7	CAPN3_38974780	CAPN3_34583296	Indel	C	C/delC	0.11	0.89	0.00	0.44	0.25	0.67	0.08	0.42	0.33	0.67	0.00	0.33
160	71259	CAPN3	7	CAPN3_38975445	CAPN3_34583960	SNP	C	C/T	1.00	0.00	0.00	0.00	0.54	0.38	0.08	0.27	1.00	0.00	0.00	0.00
161	72500	CAPN3	7	CAPN3_38976725	CAPN3_34585257	SNP	C	C/T	1.00	0.00	0.00	0.00	0.46	0.38	0.15	0.35	0.92	0.08	0.00	0.04
162	72975	CAPN3	7	CAPN3_38977463	CAPN3_34586008	SNP	T	T/C	1.00	0.00	0.00	0.00	0.54	0.38	0.08	0.27	1.00	0.00	0.00	0.00
163	74778	CAPN3	7	CAPN3_38980218	CAPN3_34588752	SNP	A	A/G	1.00	0.00	0.00	0.00	0.54	0.38	0.08	0.27	1.00	0.00	0.00	0.00

SNP	RefPos	Gene	Chr	SNPName_OARv1.0	SNPName_OARv2.0	SNP Type	Reference	SIRE Type	Maternal				Merino				Terminal				
								Genotype	AA	AB	BB	MAF	AA	AB	BB	MAF	AA	AB	BB	MAF	
164	75488	CAPN3	7	CAPN3_38981074	CAPN3_34590076	SNP	A	A/G	1.00	0.00	0.00	0.00	0.54	0.46	0.00	0.23	1.00	0.00	0.00	0.00	1.00
165	76262	CAPN3	7	CAPN3_38981848	CAPN3_34590050	SNP	G	G/A	0.00	0.00	1.00	1.00	0.23	0.08	0.69	0.73	0.00	0.00	1.00	1.00	1.00
166	77203	CAPN3	7	CAPN3_38982789	CAPN3_34591791	SNP	C	C/T	0.00	0.00	1.00	1.00	0.46	0.31	0.23	0.38	0.00	0.31	0.69	0.85	0.85
167	77396	CAPN3	7	CAPN3_38982982	CAPN3_34591984	SNP	C	C/A	0.75	0.00	0.25	0.25	0.80	0.00	0.20	0.20	0.62	0.00	0.38	0.38	0.38
168	78863	CAPN3	7	CAPN3_38985108	CAPN3_34594037	SNP	G	G/A	1.00	0.00	0.00	0.00	0.31	0.15	0.54	0.62	0.85	0.15	0.00	0.08	0.08
169	78982	CAPN3	7	CAPN3_38985227	CAPN3_34594156	SNP	C	C/A	1.00	0.00	0.00	0.00	0.31	0.00	0.69	0.69	0.85	0.00	0.15	0.15	0.15
170	82109	CAPN3	7	CAPN3_38991229	CAPN3_34600886	SNP	A	G/A	0.00	0.00	1.00	1.00	0.09	0.00	0.91	0.91	0.00	0.00	1.00	1.00	1.00
171	82521	CAPN3	7	CAPN3_38991641	CAPN3_34601299	SNP	A	A/G	1.00	0.00	0.00	0.00	0.23	0.31	0.46	0.62	0.69	0.31	0.00	0.15	0.15
172	82685	CAPN3	7	CAPN3_38991805	CAPN3_34601463	SNP	C	A/C	0.78	0.11	0.11	0.17	0.70	0.20	0.10	0.20	0.67	0.17	0.17	0.25	0.25
173	85647	CAPN3	7	CAPN3_38996194	CAPN3_34606140	Indel	G	G/delG	0.13	0.88	0.00	0.44	0.17	0.83	0.00	0.42	0.00	1.00	0.00	0.50	0.50
174	91428	CAPN3	7	CAPN3_39003278	CAPN3_34613139	Indel	T	T/delT	0.00	1.00	0.00	0.50	0.25	0.75	0.00	0.38	0.27	0.73	0.00	0.36	0.36
175	92637	CAPN3	7	CAPN3_39004487	CAPN3_34614350	SNP	A	A/G	1.00	0.00	0.00	0.00	0.50	0.25	0.25	0.38	1.00	0.00	0.00	0.00	0.00
176	93440	CAPN3	7	CAPN3_39005290	CAPN3_34615153	SNP	C	C/T	1.00	0.00	0.00	0.00	0.23	0.31	0.46	0.62	0.83	0.17	0.00	0.08	0.08
177	93704	CAPN3	7	CAPN3_39005554	CAPN3_34615418	SNP	T	T/C	1.00	0.00	0.00	0.00	0.62	0.38	0.00	0.19	0.85	0.15	0.00	0.08	0.08
178	93785	CAPN3	7	CAPN3_39005635	CAPN3_34615499	SNP	G	G/T	1.00	0.00	0.00	0.00	0.62	0.38	0.00	0.19	0.92	0.08	0.00	0.04	0.04
179	94292	CAST1	5	CAST1_101760141	CAST1_93957960	SNP	A	A/G	0.13	0.00	0.88	0.88	0.60	0.10	0.30	0.35	0.50	0.17	0.33	0.42	0.42
180	94560	CAST1	5	CAST1_101761067	CAST1_93958973	SNP	C	C/T	0.63	0.13	0.25	0.31	0.89	0.11	0.00	0.06	0.70	0.20	0.10	0.20	0.20
181	95096	CAST1	5	CAST1_101762335	CAST1_93962069	SNP	C	C/T	0.50	0.38	0.13	0.31	0.85	0.15	0.00	0.08	0.92	0.08	0.00	0.04	0.04
182	98073	CAST1	5	CAST1_101769443	CAST1_93968317	SNP	T	T/C	0.22	0.56	0.22	0.50	0.69	0.23	0.08	0.19	0.77	0.15	0.08	0.15	0.15
183	98930	CAST1	5	CAST1_101770363	CAST1_93969230	Indel	A	A/delA	0.00	1.00	0.00	0.50	0.00	1.00	0.00	0.50	0.08	0.92	0.00	0.46	0.46
184	100465	CAST1	5	CAST1_101772340	CAST1_93971145	SNP	A	A/T	0.33	0.00	0.67	0.67	0.57	0.00	0.43	0.43	0.71	0.00	0.29	0.29	0.29
185	101270	CAST1	5	CAST1_101773283	CAST1_93973008	SNP	C	C/T	0.56	0.33	0.11	0.28	0.62	0.38	0.00	0.19	0.31	0.62	0.08	0.38	0.38
186	102273	CAST1	5	CAST1_101775064	CAST1_93975458	SNP	G	A/G	0.67	0.11	0.22	0.28	0.30	0.00	0.70	0.70	0.75	0.00	0.25	0.25	0.25
187	103605	CAST1	5	CAST1_101776615	CAST1_93977011	SNP	A	A/G	1.00	0.00	0.00	0.00	0.62	0.38	0.00	0.19	0.62	0.38	0.00	0.19	0.19
188	103792	CAST1	5	CAST1_101776802	CAST1_93977198	SNP	C	C/T	0.40	0.00	0.60	0.60	0.33	0.00	0.67	0.67	0.40	0.00	0.60	0.60	0.60
189	103953	CAST1	5	CAST1_101776963	CAST1_93977359	SNP	G	G/A	1.00	0.00	0.00	0.00	0.58	0.42	0.00	0.21	0.62	0.38	0.00	0.19	0.19
190	104498	CAST1	5	CAST1_101777765	CAST1_93978173	SNP	T	T/C	0.00	0.13	0.88	0.94	0.08	0.69	0.23	0.58	0.08	0.54	0.38	0.65	0.65
191	104846	CAST1	5	CAST1_101778173	CAST1_93978581	SNP	G	G/A	0.11	0.44	0.44	0.67	0.62	0.23	0.15	0.27	0.54	0.23	0.23	0.35	0.35
192	105523	CAST1	5	CAST1_101779474	CAST1_93979882	SNP	T	T/G	1.00	0.00	0.00	0.00	0.77	0.23	0.00	0.12	0.69	0.23	0.08	0.19	0.19
193	106205	CAST1	5	CAST1_101780379	CAST1_93980784	Indel	G	G/delG	0.56	0.44	0.00	0.22	0.88	0.13	0.00	0.06	0.63	0.38	0.00	0.19	0.19
194	106206	CAST1	5	CAST1_101780380	CAST1_93980785	Indel	A	A/delA	0.44	0.56	0.00	0.28	0.25	0.75	0.00	0.38	0.57	0.43	0.00	0.21	0.21
195	106839	CAST1	5	CAST1_101781475	CAST1_93981993	SNP	G	G/A	0.56	0.44	0.00	0.22	0.92	0.00	0.08	0.08	0.77	0.15	0.08	0.15	0.15
196	107204	CAST1	5	CAST1_101781964	CAST1_93982397	SNP	C	C/T	0.67	0.22	0.11	0.22	0.85	0.15	0.00	0.08	0.77	0.23	0.00	0.12	0.12
197	107262	CAST1	5	CAST1_101782022	CAST1_93982455	SNP	G	G/A	0.56	0.44	0.00	0.22	0.08	0.75	0.17	0.54	0.62	0.38	0.00	0.19	0.19
198	107391	CAST1	5	CAST1_101782151	CAST1_93982584	SNP	A	A/G	0.44	0.33	0.22	0.39	0.92	0.08	0.00	0.04	0.46	0.54	0.00	0.27	0.27
199	107543	CAST1	5	CAST1_101782303	CAST1_93982736	SNP	A	A/G	0.78	0.11	0.11	0.17	0.67	0.08	0.25	0.29	0.54	0.31	0.15	0.31	0.31
200	107579	CAST1	5	CAST1_101782339	CAST1_93982772	SNP	G	G/A	0.56	0.22	0.22	0.33	0.75	0.08	0.17	0.21	0.69	0.15	0.15	0.23	0.23
201	107933	CAST1	5	CAST1_101782693	CAST1_93983127	SNP	T	T/G	1.00	0.00	0.00	0.00	0.23	0.62	0.15	0.46	0.85	0.15	0.00	0.08	0.08
202	108021	CAST1	5	CAST1_101782781	CAST1_93983215	SNP	T	T/C	0.44	0.22	0.33	0.44	0.23	0.38	0.38	0.58	0.27	0.36	0.36	0.55	0.55
203	108263	CAST1	5	CAST1_101783060	CAST1_93983495	SNP	A	A/G	0.50	0.38	0.13	0.31	0.67	0.33	0.00	0.17	0.77	0.23	0.00	0.12	0.12
204	108483	CAST1	5	CAST1_101783396	CAST1_93983832	SNP	A	A/T	0.44	0.33	0.22	0.39	0.46	0.38	0.15	0.35	1.00	0.00	0.00	0.00	0.00
205	108681	CAST1	5	CAST1_101783594	CAST1_93984030	SNP	A	A/G	0.44	0.33	0.22	0.39	0.92	0.08	0.00	0.04	0.92	0.08	0.00	0.04	0.04
206	108826	CAST1	5	CAST1_101783739	CAST1_93984175	SNP	C	C/T	0.67	0.33	0.00	0.17	0.92	0.08	0.00	0.04	0.77	0.15	0.08	0.15	0.15
207	108878	CAST1	5	CAST1_101783791	CAST1_93984227	SNP	T	T/C	0.11	0.67	0.22	0.56	0.15	0.54	0.31	0.58	0.58	0.33	0.08	0.25	0.25
208	109114	CAST1	5	CAST1_101784027	CAST1_93984463	SNP	G	G/A	0.22	0.78	0.00	0.39	0.31	0.62	0.08	0.38	0.23	0.62	0.15	0.46	0.46
209	109119	CAST1	5	CAST1_101784032	CAST1_93984468	SNP	T	T/A	0.56	0.44	0.00	0.22	0.15	0.62	0.23	0.54	0.62	0.38	0.00	0.19	0.19
210	110689	CAST1	5	CAST1_101786343	CAST1_93986413	SNP	C	C/G	0.25	0.00	0.75	0.75	0.78	0.00	0.22	0.22	0.83	0.00	0.17	0.17	0.17
211	110703	CAST1	5	CAST1_101786357	CAST1_93986427	SNP	G	G/T	0.00	0.00	1.00	1.00	1.00	0.00	0.00	0.00	0.67	0.00	0.33	0.33	0.33
212	110893	CAST1	5	CAST1_101786547	CAST1_93986617	SNP	T	C/T	1.00	0.00	0.00	0.00	0.18	0.82	0.00	0.41	0.92	0.08	0.00	0.04	0.04
213	111605	CAST1	5	CAST1_101787439	CAST1_93987509	SNP	A	A/G	0.33	0.00	0.67	0.67	0.63	0.00	0.38	0.38	0.67	0.00	0.33	0.33	0.33
214	111751	CAST1	5	CAST1_101787585	CAST1_93987655	SNP	C	C/T	0.60	0.00	0.40	0.40	0.50	0.13	0.38	0.44	0.78	0.22	0.00	0.11	0.11
215	112163	CAST1	5	CAST1_101789462	CAST1_93989123	SNP	G	G/C	0.25	0.75	0.00	0.38	0.54	0.23	0.23	0.35	0.69	0.15	0.15	0.23	0.23
216	112253	CAST1	5	CAST1_101789552	CAST1_93989213	SNP	C	C/T	0.50	0.25	0.25	0.38	0.92	0.00	0.08	0.08	0.92	0.08	0.00	0.04	0.04
217	113161	CAST1	5	CAST1_101792467	CAST1_93990739	Indel	A	A/delA	0.00	0.75	0.25	0.63	0.00	0.80	0.20	0.60	0.00	1.00	0.00	0.50	0.50
218	113163	CAST1	5	CAST1_101792469	CAST1_93990739	Indel	A	A/delA	0.00	0.13	0.88	0.94	0.00	0.10	0.90	0.95	0.09	0.00	0.91	0.91	0.91

SNP	RefPos	Gene	Chr	SNPName_OARv1.0	SNPName_OARv2.0	SNP Type	Reference	SIRE Type	Maternal				Merino				Terminal			
								Genotype	AA	AB	BB	MAF	AA	AB	BB	MAF	AA	AB	BB	MAF
219	115369	CAST1	5	CAST1_101826909	CAST1_94020740	Indel	G	G/delG	0.11	0.89	0.00	0.44	0.00	1.00	0.00	0.50	0.29	0.71	0.00	0.36
220	115430	CAST1	5	CAST1_101826970	CAST1_94020799	Indel	C	C/delC	0.22	0.22	0.56	0.67	0.91	0.91	-0.82	-0.36	0.57	0.57	-0.14	0.14
221	115453	CAST1	5	CAST1_101826993	CAST1_94020821	SNP	G	G/T	1.00	0.00	0.00	0.00	0.85	0.00	0.15	0.15	0.54	0.08	0.38	0.42
222	115627	CAST1	5	CAST1_101827167	CAST1_94020995	SNP	T	T/C	0.38	0.00	0.63	0.63	0.67	0.11	0.22	0.28	0.73	0.09	0.18	0.23
223	115640	CAST1	5	CAST1_101827180	CAST1_94021008	SNP	A	A/G	0.29	0.29	0.43	0.57	0.44	0.44	0.11	0.33	0.73	0.18	0.09	0.18
224	116049	CAST1	5	CAST1_101827589	CAST1_94021425	Indel	C	C/delC	0.29	0.71	0.00	0.36	0.20	0.80	0.00	0.40	0.57	0.43	0.00	0.21
225	116278	CAST1	5	CAST1_101827818	CAST1_94021653	SNP	G	G/A	1.00	0.00	0.00	0.00	0.92	0.00	0.08	0.08	0.58	0.08	0.33	0.38
226	116337	CAST1	5	CAST1_101827877	CAST1_94021712	SNP	G	G/A	1.00	0.00	0.00	0.00	0.92	0.00	0.08	0.08	0.50	0.17	0.33	0.42
227	116350	CAST1	5	CAST1_101827890	CAST1_94021725	SNP	G	G/A	0.00	0.00	1.00	1.00	0.33	0.00	0.67	0.67	0.58	0.17	0.25	0.33
228	117089	CAST1	5	CAST1_101829094	CAST1_94022929	SNP	T	T/C	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.54	0.46	0.00	0.23
229	117658	CAST1	5	CAST1_101829736	CAST1_94024707	SNP	T	T/C	0.00	0.22	0.78	0.89	0.08	0.33	0.58	0.75	0.38	0.38	0.23	0.42
230	117888	CAST1	5	CAST1_101829966	CAST1_94024937	SNP	C	C/T	0.78	0.22	0.00	0.11	0.77	0.15	0.08	0.15	0.85	0.15	0.00	0.08
231	117995	CAST1	5	CAST1_101830073	CAST1_94025044	SNP	T	T/G	0.17	0.33	0.50	0.67	0.38	0.38	0.25	0.44	0.92	0.08	0.00	0.04
232	118077	CAST1	5	CAST1_101830155	CAST1_94025125	Indel	G	G/delG	0.25	0.75	0.00	0.38	0.57	0.29	0.14	0.29	0.44	0.56	0.00	0.28
233	118295	CAST1	5	CAST1_101830373	CAST1_94025342	Indel	G	G/delG	0.25	0.75	0.00	0.38	0.10	0.90	0.00	0.45	0.63	0.38	0.00	0.19
234	118722	CAST1	5	CAST1_101831023	CAST1_94025973	SNP	A	A/G	0.00	0.29	0.71	0.86	0.23	0.23	0.54	0.65	0.75	0.17	0.08	0.17
235	118957	CAST1	5	CAST1_101831258	CAST1_94026208	SNP	G	G/C	0.89	0.11	0.00	0.06	0.69	0.23	0.08	0.19	0.54	0.38	0.08	0.27
236	119168	CAST1	5	CAST1_101831510	CAST1_94026739	SNP	A	A/T	1.00	0.00	0.00	0.00	0.92	0.00	0.08	0.08	0.38	0.38	0.23	0.42
237	119180	CAST1	5	CAST1_101831522	CAST1_94026751	SNP	C	C/T	0.88	0.13	0.00	0.06	1.00	0.00	0.00	0.00	0.62	0.31	0.08	0.23
238	119943	CAST1	5	CAST1_101834489	CAST1_94029342	SNP	A	A/G	0.67	0.33	0.00	0.17	0.33	0.33	0.33	0.50	0.40	0.50	0.10	0.35
239	119960	CAST1	5	CAST1_101834506	CAST1_94029359	SNP	G	G/A	0.33	0.33	0.33	0.50	0.42	0.33	0.25	0.42	0.69	0.31	0.00	0.15
240	120013	CAST1	5	CAST1_101834559	CAST1_94029484	SNP	C	C/A	0.50	0.00	0.50	0.50	0.70	0.00	0.30	0.30	0.77	0.00	0.23	0.23
241	120039	CAST1	5	CAST1_101834585	CAST1_94029510	SNP	C	C/G	0.38	0.00	0.63	0.63	0.75	0.17	0.08	0.17	0.85	0.00	0.15	0.15
242	120692	CAST1	5	CAST1_101835381	CAST1_94030306	SNP	C	C/T	0.89	0.11	0.00	0.06	0.58	0.17	0.25	0.33	0.46	0.31	0.23	0.38
243	120868	CAST1	5	CAST1_101835557	CAST1_94030482	SNP	G	G/A	0.89	0.11	0.00	0.06	0.92	0.08	0.00	0.04	0.69	0.15	0.15	0.23
244	120880	CAST1	5	CAST1_101835569	CAST1_94030494	SNP	T	T/C	0.67	0.33	0.00	0.17	0.38	0.31	0.31	0.46	0.46	0.38	0.15	0.35
245	120984	CAST1	5	CAST1_101835673	CAST1_94030598	SNP	A	A/T	0.89	0.11	0.00	0.06	0.85	0.08	0.08	0.12	0.50	0.33	0.17	0.33
246	121086	CAST1	5	CAST1_101835775	CAST1_94030700	SNP	A	A/G	0.67	0.33	0.00	0.17	0.62	0.15	0.23	0.31	0.23	0.54	0.23	0.50
247	121170	CAST1	5	CAST1_101835859	CAST1_94030784	SNP	C	C/T	0.89	0.11	0.00	0.06	0.92	0.08	0.00	0.04	0.54	0.31	0.15	0.31
248	121171	CAST1	5	CAST1_101835860	CAST1_94030785	SNP	G	G/A	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.46	0.54	0.00	0.27
249	121241	CAST1	5	CAST1_101835930	CAST1_94030855	SNP	A	A/G	1.00	0.00	0.00	0.00	0.67	0.08	0.25	0.29	0.85	0.08	0.08	0.12
250	122526	CAST1	5	CAST1_101837997	CAST1_94032718	SNP	A	A/G	0.25	0.00	0.75	0.75	0.00	0.13	0.88	0.94	0.15	0.31	0.54	0.69
251	122706	CAST1	5	CAST1_101838177	CAST1_94032898	SNP	C	C/G	0.67	0.00	0.33	0.33	0.77	0.00	0.23	0.23	0.85	0.15	0.00	0.08
252	122715	CAST1	5	CAST1_101838186	CAST1_94032907	SNP	A	A/G	0.57	0.00	0.43	0.43	0.83	0.00	0.17	0.17	0.92	0.08	0.00	0.04
253	123072	CAST1	5	CAST1_101838543	CAST1_94033264	SNP	G	G/A	0.44	0.00	0.56	0.56	0.64	0.00	0.36	0.36	1.00	0.00	0.00	0.00
254	123568	CAST1	5	CAST1_101839596	CAST1_94034296	SNP	G	G/A	0.89	0.11	0.00	0.06	0.92	0.08	0.00	0.04	0.54	0.38	0.08	0.27
255	123694	CAST1	5	CAST1_101839722	CAST1_94034422	SNP	C	C/T	0.44	0.00	0.56	0.56	0.82	0.00	0.18	0.18	0.38	0.38	0.23	0.42
256	123781	CAST1	5	CAST1_101839809	CAST1_94034509	Indel	T	T/delT	0.00	1.00	0.00	0.50	0.14	0.86	0.00	0.43	0.08	0.92	0.00	0.46
257	124053	CAST1	5	CAST1_101840486	CAST1_94035195	SNP	C	C/T	0.00	0.50	0.50	0.75	0.30	0.30	0.40	0.55	0.38	0.38	0.23	0.42
258	124718	CAST1	5	CAST1_101841509	CAST1_94036180	SNP	C	C/T	0.22	0.33	0.44	0.61	0.46	0.23	0.31	0.42	0.62	0.38	0.00	0.19
259	125570	CAST1	5	CAST1_101842654	CAST1_94037195	SNP	T	T/G	0.88	0.13	0.00	0.06	0.55	0.36	0.09	0.27	0.73	0.27	0.00	0.14
260	125776	CAST1	5	CAST1_101842860	CAST1_94037402	SNP	T	T/C	0.43	0.00	0.57	0.57	0.45	0.09	0.45	0.50	0.85	0.08	0.08	0.12
261	126056	CAST1	5	CAST1_101843140	CAST1_94037687	SNP	G	G/A	0.11	0.00	0.89	0.89	0.08	0.08	0.83	0.88	0.45	0.18	0.36	0.45
262	126121	CAST1	5	CAST1_101843205	CAST1_94037752	SNP	T	T/C	0.13	0.00	0.88	0.88	0.33	0.00	0.67	0.67	0.36	0.18	0.45	0.55
263	126318	CAST1	5	CAST1_101843506	CAST1_94038052	SNP	T	T/C	1.00	0.00	0.00	0.00	0.92	0.08	0.00	0.04	0.25	0.50	0.25	0.50
264	126463	CAST1	5	CAST1_101843651	CAST1_94038197	SNP	T	T/C	0.00	0.33	0.67	0.83	0.38	0.31	0.31	0.46	0.58	0.33	0.08	0.25
265	126489	CAST1	5	CAST1_101843677	CAST1_94038223	SNP	T	T/C	1.00	0.00	0.00	0.00	0.92	0.08	0.00	0.04	0.25	0.50	0.25	0.50
266	126897	CAST1	5	CAST1_101844085	CAST1_94038631	SNP	C	C/A	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.38	0.00	0.62	0.62
267	127382	CAST1	5	CAST1_101847109	CAST1_94041277	Indel	T	T/delT	1.00	0.00	0.00	0.00	0.44	0.56	0.00	0.28	0.33	0.67	0.00	0.33
268	127383	CAST1	5	CAST1_101847110	CAST1_94041277	Indel	C	C/delC	0.29	0.71	0.00	0.36	0.78	0.22	0.00	0.11	1.00	0.00	0.00	0.00
269	128151	CAST1	5	CAST1_101847878	CAST1_94042045	SNP	T	T/C	0.88	0.13	0.00	0.06	1.00	0.00	0.00	0.00	0.62	0.31	0.08	0.23
270	129132	CAST1	5	CAST1_101849426	CAST1_94043564	Indel	T	T/delT	0.25	0.75	0.00	0.38	0.55	0.45	0.00	0.23	0.50	0.50	0.00	0.25
271	129587	CAST1	5	CAST1_101849924	CAST1_94043995	SNP	C	C/T	0.89	0.11	0.00	0.06	1.00	0.00	0.00	0.00	0.54	0.38	0.08	0.27
272	129671	CAST1	5	CAST1_101850008	CAST1_94044079	SNP	A	A/C	0.89	0.11	0.00	0.06	1.00	0.00	0.00	0.00	0.54	0.38	0.08	0.27
273	130524	CAST1	5	CAST1_101852516	CAST1_94046612	SNP	C	C/A	0.67	0.00	0.33	0.33	1.00	0.00	0.00	0.00	0.77	0.00	0.23	0.23

SNP	RefPos	Gene	Chr	SNPName_OARv1.0	SNPName_OARv2.0	SNP Type	Reference	SIRE Type	Maternal				Merino				Terminal			
								Genotype	AA	AB	BB	MAF	AA	AB	BB	MAF	AA	AB	BB	MAF
274	131379	CAST1	5	CAST1_101853371	CAST1_94047468	SNP	G	G/A	0.22	0.33	0.44	0.61	0.46	0.31	0.23	0.38	0.46	0.31	0.23	0.38
275	131481	CAST1	5	CAST1_101853473	CAST1_94047570	Indel	A	A/delA	0.00	1.00	0.00	0.50	0.15	0.85	0.00	0.42	0.00	1.00	0.00	0.50
276	131482	CAST1	5	CAST1_101853474	CAST1_94047570	Indel	G	G/delG	0.00	0.00	1.00	1.00	0.23	0.23	0.54	0.65	0.00	0.00	1.00	1.00
277	131483	CAST1	5	CAST1_101853475	CAST1_94047570	Indel	A	A/delA	0.00	0.00	1.00	1.00	0.15	0.15	0.69	0.77	0.00	0.00	1.00	1.00
278	131851	CAST1	5	CAST1_101853840	CAST1_94047937	SNP	G	G/A	0.67	0.33	0.00	0.17	1.00	0.00	0.00	0.00	0.77	0.15	0.08	0.15
279	132002	CAST1	5	CAST1_101853991	CAST1_94048088	SNP	G	G/A	0.22	0.33	0.44	0.61	0.38	0.23	0.38	0.50	0.31	0.38	0.31	0.50
280	132264	CAST1	5	CAST1_101855026	CAST1_94049138	Indel	T	T/delT	0.43	0.57	0.00	0.29	0.60	0.40	0.00	0.20	0.33	0.67	0.00	0.33
281	132762	CAST1	5	CAST1_101855902	CAST1_94050182	SNP	C	C/T	0.78	0.22	0.00	0.11	0.31	0.31	0.38	0.54	0.31	0.54	0.15	0.42
282	132906	CAST1	5	CAST1_101856046	CAST1_94050326	SNP	G	G/A	0.78	0.22	0.00	0.11	0.46	0.23	0.31	0.42	0.58	0.25	0.17	0.29
283	132928	CAST1	5	CAST1_101856068	CAST1_94050348	SNP	A	A/C	0.00	0.11	0.89	0.94	0.38	0.31	0.31	0.46	0.33	0.17	0.50	0.58
284	133013	CAST1	5	CAST1_101856153	CAST1_94050433	Indel	A	A/delA	0.67	0.33	0.00	0.17	0.56	0.44	0.00	0.22	0.89	0.11	0.00	0.06
285	133153	CAST1	5	CAST1_101856293	CAST1_94050572	SNP	T	C/T	0.00	0.22	0.78	0.89	0.15	0.31	0.54	0.69	0.23	0.46	0.31	0.54
286	133402	CAST1	5	CAST1_101856542	CAST1_94050956	Indel	C	C/delC	0.50	0.50	0.00	0.25	0.63	0.38	0.00	0.19	0.40	0.60	0.00	0.30
287	133403	CAST1	5	CAST1_101856543	CAST1_94050957	Indel	T	T/delT	0.75	0.25	0.00	0.13	0.38	0.63	0.00	0.31	0.60	0.40	0.00	0.20
288	136115	FADS_locus	21	FADS_locus_43583528	FADS_locus_38000089	SNP	A	G/A	0.33	0.11	0.56	0.61	0.77	0.08	0.15	0.19	1.00	0.00	0.00	0.00
289	137847	FADS_locus	21	FADS_locus_43585661	FADS_locus_38002190	SNP	A	A/G	0.22	0.22	0.56	0.67	0.46	0.38	0.15	0.35	0.77	0.08	0.15	0.19
290	139697	FADS_locus	21	FADS_locus_43587732	FADS_locus_38004263	SNP	G	G/A	0.22	0.22	0.56	0.67	0.92	0.00	0.08	0.08	0.92	0.08	0.00	0.04
291	140442	FADS_locus	21	FADS_locus_43588477	FADS_locus_38005011	SNP	A	A/C	1.00	0.00	0.00	0.00	0.38	0.00	0.63	0.63	0.89	0.00	0.11	0.11
292	140727	FADS_locus	21	FADS_locus_43589048	FADS_locus_38005228	SNP	G	G/A	0.63	0.25	0.13	0.25	0.83	0.08	0.08	0.13	0.85	0.15	0.00	0.08
293	140833	FADS_locus	21	FADS_locus_43589154	FADS_locus_38005334	SNP	C	C/T	0.22	0.00	0.78	0.78	0.73	0.09	0.18	0.23	0.85	0.00	0.15	0.15
294	141077	FADS_locus	21	FADS_locus_43589398	FADS_locus_38005578	SNP	T	T/C	0.25	0.13	0.63	0.69	0.91	0.00	0.09	0.09	0.92	0.08	0.00	0.04
295	141376	FADS_locus	21	FADS_locus_43590108	FADS_locus_38006276	SNP	A	A/G	0.44	0.00	0.56	0.56	0.92	0.00	0.08	0.08	0.85	0.15	0.00	0.08
296	141714	FADS_locus	21	FADS_locus_43590446	FADS_locus_38006614	SNP	C	C/A	0.67	0.00	0.33	0.33	0.25	0.00	0.75	0.00	0.00	1.00	1.00	
297	141801	FADS_locus	21	FADS_locus_43590533	FADS_locus_38006701	Indel	G	G/delG	0.00	1.00	0.00	0.50	0.11	0.89	0.00	0.44	0.08	0.92	0.00	0.46
298	141974	FADS_locus	21	FADS_locus_43590706	FADS_locus_38006873	Indel	G	G/delG	0.00	1.00	0.00	0.50	0.44	0.56	0.00	0.28	0.20	0.80	0.00	0.40
299	142124	FADS_locus	21	FADS_locus_43590856	FADS_locus_38007020	SNP	T	T/C	0.00	0.00	1.00	1.00	0.25	0.00	0.75	0.75	0.00	0.00	1.00	1.00
300	142316	FADS_locus	21	FADS_locus_43591048	FADS_locus_38007212	SNP	G	A/G	0.00	0.00	1.00	1.00	0.38	0.13	0.50	0.56	0.67	0.00	0.33	0.33
301	142529	FADS_locus	21	FADS_locus_43591261	FADS_locus_38007425	Indel	C	C/delC	0.00	0.00	1.00	1.00	0.50	0.50	0.00	0.25	0.75	0.75	-0.50	-0.13
302	142530	FADS_locus	21	FADS_locus_43591262	FADS_locus_38007426	Indel	A	A/delA	0.00	0.00	1.00	1.00	0.38	0.38	0.25	0.44	0.50	0.50	0.00	0.25
303	142531	FADS_locus	21	FADS_locus_43591263	FADS_locus_38007427	Indel	G	G/delG	0.00	0.00	1.00	1.00	0.50	0.50	0.00	0.25	0.50	0.50	0.00	0.25
304	143346	FADS_locus	21	FADS_locus_43592078	FADS_locus_38008243	SNP	C	C/T	0.60	0.20	0.20	0.30	0.11	0.11	0.78	0.83	0.00	0.29	0.71	0.86
305	143751	FADS_locus	21	FADS_locus_43592524	FADS_locus_38008689	SNP	C	C/T	0.00	0.25	0.75	0.88	0.56	0.22	0.22	0.33	0.75	0.25	0.00	0.13
306	144911	FADS_locus	21	FADS_locus_43594190	FADS_locus_38010356	SNP	G	G/A	0.88	0.13	0.00	0.06	0.67	0.17	0.17	0.25	0.92	0.08	0.00	0.04
307	145276	FADS_locus	21	FADS_locus_43594555	FADS_locus_38010721	SNP	T	T/C	0.33	0.11	0.56	0.61	0.46	0.23	0.31	0.42	0.85	0.08	0.08	0.12
308	146176	FADS_locus	21	FADS_locus_43595973	FADS_locus_38012166	Indel	G	G/delG	0.11	0.89	0.00	0.44	0.00	1.00	0.00	0.50	0.15	0.85	0.00	0.42
309	147122	FADS_locus	21	FADS_locus_43596919	FADS_locus_38013111	Indel	T	T/delT	0.00	1.00	0.00	0.50	0.08	0.92	0.00	0.46	0.00	1.00	0.00	0.50
310	147501	FADS_locus	21	FADS_locus_43597444	FADS_locus_38013637	SNP	G	A/G	0.22	0.22	0.56	0.67	0.85	0.08	0.08	0.12	0.92	0.08	0.00	0.04
311	147947	FADS_locus	21	FADS_locus_43597890	FADS_locus_38014084	SNP	G	A/G	0.22	0.22	0.56	0.67	0.54	0.31	0.15	0.31	0.85	0.15	0.00	0.08
312	148409	FADS_locus	21	FADS_locus_43598352	FADS_locus_38014546	SNP	A	G/A	0.22	0.22	0.56	0.67	0.92	0.00	0.08	0.08	0.92	0.08	0.00	0.04
313	149155	FADS_locus	21	FADS_locus_43599098	FADS_locus_38015292	SNP	G	G/C	0.67	0.17	0.17	0.25	0.92	0.08	0.00	0.04	0.55	0.36	0.09	0.27
314	155244	FADS_locus	21	FADS_locus_43612823	FADS_locus_38027390	SNP	G	G/A	0.67	0.00	0.33	0.33	0.42	0.17	0.42	0.50	0.25	0.00	0.75	0.75
315	155789	FADS_locus	21	FADS_locus_43613368	FADS_locus_38027935	SNP	C	C/G	0.17	0.17	0.67	0.75	0.75	0.25	0.00	0.13	0.89	0.00	0.11	0.11
316	156885	FADS_locus	21	FADS_locus_43616829	FADS_locus_38031384	SNP	C	C/T	0.67	0.33	0.00	0.17	0.15	0.77	0.08	0.46	0.08	0.92	0.00	0.46
317	158331	FADS_locus	21	FADS_locus_43625530	FADS_locus_38034183	SNP	G	G/T	0.22	0.22	0.56	0.67	0.83	0.08	0.08	0.13	0.85	0.15	0.00	0.08
318	158413	FADS_locus	21	FADS_locus_43625612	FADS_locus_38034265	SNP	T	C/T	0.56	0.22	0.22	0.33	0.83	0.08	0.08	0.13	0.92	0.08	0.00	0.04
319	158670	FADS_locus	21	FADS_locus_43625956	FADS_locus_38034610	SNP	A	A/G	0.44	0.11	0.44	0.50	0.92	0.08	0.00	0.04	1.00	0.00	0.00	0.00
320	159026	FADS_locus	21	FADS_locus_43626577	FADS_locus_38035227	SNP	G	G/A	0.22	0.22	0.56	0.67	0.54	0.31	0.15	0.31	0.85	0.15	0.00	0.08
321	160387	FADS_locus	21	FADS_locus_43629407	FADS_locus_38038485	SNP	C	C/G	0.00	0.00	1.00	1.00	0.23	0.23	0.54	0.65	0.00	0.15	0.85	0.92
322	160934	FADS_locus	21	FADS_locus_43630889	FADS_locus_38039967	SNP	G	G/A	0.44	0.11	0.44	0.50	0.92	0.08	0.00	0.04	1.00	0.00	0.00	0.00
323	161997	FADS_locus	21	FADS_locus_43632894	FADS_locus_38041557	Indel	T	T/delT	0.50	0.50	0.00	0.25	0.18	0.18	0.64	0.73	0.08	0.08	0.83	0.88
324	162173	FADS_locus	21	FADS_locus_43633161	FADS_locus_38041827	SNP	G	G/A	0.67	0.11	0.22	0.28	0.42	0.42	0.17	0.38	0.25	0.08	0.67	0.71
325	164147	FADS_locus	21	FADS_locus_43637603	FADS_locus_38045080	SNP	A	G/A	0.29	0.00	0.71	0.71	0.60	0.00	0.40	0.40	0.00	0.00	1.00	1.00
326	164222	FADS_locus	21	FADS_locus_43637678	FADS_locus_38045155	SNP	A	G/A	0.63	0.00	0.38	0.38	0.23	0.00	0.77	0.77	0.00	0.00	1.00	0.00
327	164344	FADS_locus	21	FADS_locus_43637800	FADS_locus_38045277	Indel	G	G/delG	0.00	1.00	0.00	0.50	0.09	0.91	0.00	0.45	0.00	1.00	0.00	0.50
328	164345	FADS_locus	21	FADS_locus_43637801	FADS_locus_38045277	Indel	A	A/delA	0.00	0.00	1.00	1.00	0.09	0.09	0.82	0.86	0.00	0.00	1.00	1.00

SNP	RefPos	Gene	Chr	SNPName_OARv1.0	SNPName_OARv2.0	SNP Type	Reference	SIRE Type	Maternal				Merino				Terminal			
								Genotype	AA	AB	BB	MAF	AA	AB	BB	MAF	AA	AB	BB	MAF
329	164346	FADS_locus	21	FADS_locus_43637802	FADS_locus_38045277	Indel	A	A/delA	0.00	0.00	1.00	1.00	0.09	0.09	0.82	0.86	0.00	0.00	1.00	1.00
330	164825	FADS_locus	21	FADS_locus_43638430	FADS_locus_38045908	SNP	T	C/T	0.22	0.22	0.56	0.67	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
331	165061	FADS_locus	21	FADS_locus_43638666	FADS_locus_38046143	SNP	A	A/G	0.67	0.11	0.22	0.28	0.54	0.15	0.31	0.38	0.33	0.00	0.67	0.67
332	166018	FADS_locus	21	FADS_locus_43645216	FADS_locus_38052929	SNP	G	G/A	1.00	0.00	0.00	0.00	0.62	0.23	0.15	0.27	0.85	0.15	0.00	0.08
333	166451	FADS_locus	21	FADS_locus_43645649	FADS_locus_38053362	SNP	T	A/T	0.33	0.11	0.56	0.61	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
334	166478	FADS_locus	21	FADS_locus_43645676	FADS_locus_38053389	Indel	T	T/delT	0.25	0.75	0.00	0.38	0.62	0.38	0.00	0.19	0.38	0.62	0.00	0.31
335	166625	FADS_locus	21	FADS_locus_43645823	FADS_locus_38053535	SNP	C	C/T	1.00	0.00	0.00	0.00	0.62	0.31	0.08	0.23	0.92	0.08	0.00	0.04
336	167114	FADS_locus	21	FADS_locus_43646512	FADS_locus_38054223	SNP	G	A/G	0.38	0.13	0.50	0.56	0.73	0.18	0.09	0.18	0.90	0.10	0.00	0.05
337	167144	FADS_locus	21	FADS_locus_43646542	FADS_locus_38054253	Indel	A	A/delA	0.88	0.13	0.00	0.06	0.75	0.25	0.00	0.13	0.30	0.40	0.30	0.50
338	167145	FADS_locus	21	FADS_locus_43646543	FADS_locus_38054253	Indel	A	A/delA	0.13	0.50	0.38	0.63	0.00	0.50	0.50	0.75	0.10	0.10	0.80	0.85
339	167146	FADS_locus	21	FADS_locus_43646544	FADS_locus_38054253	Indel	C	C/delC	0.50	0.50	0.00	0.25	0.50	0.50	0.00	0.25	0.80	0.80	-0.60	-0.20
340	167395	FADS_locus	21	FADS_locus_43646790	FADS_locus_38054501	Indel	T	T/delT	0.00	1.00	0.00	0.50	0.23	0.77	0.00	0.38	0.23	0.77	0.00	0.38
341	167527	FADS_locus	21	FADS_locus_43646922	FADS_locus_38054632	SNP	G	G/A	0.25	0.13	0.63	0.69	0.77	0.08	0.15	0.19	1.00	0.00	0.00	0.00
342	168061	FADS_locus	21	FADS_locus_43650537	FADS_locus_38056866	SNP	A	A/C	0.88	0.00	0.13	0.13	1.00	0.00	0.00	0.00	0.54	0.46	0.00	0.23
343	168145	FADS_locus	21	FADS_locus_43650621	FADS_locus_38056950	SNP	G	G/C	0.67	0.00	0.33	0.33	0.23	0.31	0.46	0.62	0.69	0.00	0.31	0.31
344	168313	FADS_locus	21	FADS_locus_43650789	FADS_locus_38057118	SNP	A	A/C	0.17	0.00	0.83	0.83	0.30	0.00	0.70	0.70	0.42	0.08	0.50	0.54
345	168388	FADS_locus	21	FADS_locus_43650864	FADS_locus_38057193	SNP	C	C/G	0.75	0.13	0.13	0.19	0.91	0.00	0.09	0.09	0.73	0.27	0.00	0.14
346	168396	FADS_locus	21	FADS_locus_43650872	FADS_locus_38057201	SNP	T	T/C	0.63	0.13	0.25	0.31	0.91	0.00	0.09	0.09	0.45	0.36	0.18	0.36
347	168608	FADS_locus	21	FADS_locus_43651140	FADS_locus_38057469	Indel	T	T/delT	0.29	0.71	0.00	0.36	0.25	0.75	0.00	0.38	0.55	0.45	0.00	0.23
348	170030	FADS_locus	21	FADS_locus_43654283	FADS_locus_38089512	SNP	G	G/T	1.00	0.00	0.00	0.00	0.69	0.08	0.23	0.27	0.50	0.00	0.50	0.50
349	170268	FADS_locus	21	FADS_locus_43654521	FADS_locus_38089750	SNP	G	G/A	0.14	0.00	0.86	0.86	0.82	0.00	0.18	0.18	0.73	0.09	0.18	0.23
350	170923	FADS_locus	21	FADS_locus_43655176	FADS_locus_38090410	SNP	A	A/G	0.00	0.00	1.00	1.00	0.69	0.31	0.00	0.15	0.31	0.54	0.15	0.42
351	171006	FADS_locus	21	FADS_locus_43655259	FADS_locus_38090493	SNP	G	G/A	1.00	0.00	0.00	0.00	0.31	0.23	0.46	0.58	0.38	0.38	0.23	0.42
352	171132	FADS_locus	21	FADS_locus_43655385	FADS_locus_38090620	SNP	G	G/A	1.00	0.00	0.00	0.00	0.64	0.00	0.36	0.36	0.64	0.18	0.18	0.27
353	171391	FADS_locus	21	FADS_locus_43655644	FADS_locus_38090879	Indel	A	A/insA	1.00	0.00	0.00	0.00	0.45	0.55	0.00	0.27	0.75	0.25	0.00	0.13
354	172526	FADS_locus	21	FADS_locus_43659712	FADS_locus_38065990	SNP	C	C/T	0.88	0.00	0.13	0.13	0.80	0.10	0.10	0.15	0.44	0.00	0.56	0.56
355	173443	FADS_locus	21	FADS_locus_43660696	FADS_locus_38067196	SNP	A	A/G	0.00	0.00	1.00	1.00	0.15	0.08	0.77	0.81	0.00	0.00	1.00	1.00
356	175416	FADS_locus	21	FADS_locus_43666003		Indel	G	G/delG	0.14	0.86	0.00	0.43	0.33	0.67	0.00	0.33	0.36	0.64	0.00	0.32
357	175485	FADS_locus	21	FADS_locus_43666072	FADS_locus_43666072	SNP	G	G/T	0.71	0.29	0.00	0.14	0.85	0.15	0.00	0.08	0.80	0.00	0.20	0.20
358	175569	FADS_locus	21	FADS_locus_43666156	FADS_locus_43666156	SNP	G	A/G	0.43	0.43	0.14	0.36	0.69	0.15	0.15	0.23	0.58	0.25	0.17	0.29
359	176577	FADS_locus	21	FADS_locus_43667819	FADS_locus_43667819	SNP	C	C/T	1.00	0.00	0.00	0.00	0.30	0.00	0.70	0.70	0.57	0.00	0.43	0.43
360	176646	FADS_locus	21	FADS_locus_43667888	FADS_locus_43667888	SNP	T	T/A	0.38	0.50	0.13	0.38	0.77	0.08	0.15	0.19	0.46	0.23	0.31	0.42
361	177087	FADS_locus	21	FADS_locus_43668329	FADS_locus_43668329	SNP	T	T/C	0.33	0.44	0.22	0.44	0.70	0.00	0.30	0.30	0.38	0.23	0.38	0.50
362	177184	FADS_locus	21	FADS_locus_43668426		Indel	G	G/delG	0.83	0.17	0.00	0.08	0.70	0.30	0.00	0.15	0.38	0.50	0.13	0.38
363	177265	FADS_locus	21	FADS_locus_43668507	FADS_locus_43668507	SNP	T	T/C	0.38	0.38	0.25	0.44	0.50	0.00	0.50	0.50	0.69	0.23	0.08	0.19
364	178134	FADS_locus	21	FADS_locus_43669602	FADS_locus_38073509	SNP	T	T/A	0.67	0.00	0.33	0.33	0.43	0.00	0.57	0.57	0.40	0.00	0.60	0.60
365	178933	FADS_locus	21	FADS_locus_43671961	FADS_locus_38079646	SNP	A	A/C	0.56	0.22	0.22	0.33	0.30	0.00	0.70	0.70	0.00	0.45	0.55	0.77
366	179654	FADS_locus	21	FADS_locus_43673438	FADS_locus_38081132	SNP	C	C/T	0.75	0.13	0.13	0.19	0.92	0.08	0.00	0.04	0.42	0.25	0.33	0.46
367	179813	FADS_locus	21	FADS_locus_43673597	FADS_locus_38081291	SNP	G	A/G	0.71	0.29	0.00	0.14	1.00	0.00	0.00	0.00	0.42	0.58	0.00	0.29
368	180182	FADS_locus	21	FADS_locus_43673997	FADS_locus_38081691	SNP	T	T/C	0.33	0.11	0.56	0.61	1.00	0.00	0.00	0.00	0.92	0.08	0.00	0.04
369	180216	FADS_locus	21	FADS_locus_43674031	FADS_locus_38081725	Indel	C	C/delC	1.00	0.00	0.00	0.00	0.17	0.83	0.00	0.42	0.82	0.18	0.00	0.09
370	181267	FADS_locus	21	FADS_locus_43676579	FADS_locus_38084099	SNP	C	C/T	0.20	0.20	0.60	0.70	0.89	0.11	0.00	0.06	0.64	0.36	0.00	0.18
371	181546	FADS_locus	21	FADS_locus_43676858	FADS_locus_38084377	SNP	C	C/T	0.80	0.00	0.20	0.20	1.00	0.00	0.00	0.00	0.36	0.45	0.18	0.41
372	182643	FADS_locus	21	FADS_locus_43691095	FADS_locus_38110316	SNP	A	A/C	0.89	0.11	0.00	0.06	0.69	0.23	0.08	0.19	0.85	0.08	0.08	0.12
373	183951	FADS_locus	21	FADS_locus_43693451	FADS_locus_38112708	SNP	T	C/T	0.00	0.00	1.00	1.00	0.31	0.23	0.46	0.58	0.17	0.08	0.75	0.79
374	184624	FADS_locus	21	FADS_locus_43696324	FADS_locus_38116178	SNP	G	G/T	0.00	0.00	1.00	1.00	0.56	0.00	0.44	0.44	0.33	0.00	0.67	0.67
375	184862	FADS_locus	21	FADS_locus_43696562	FADS_locus_38116416	SNP	A	A/G	0.11	0.11	0.78	0.83	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
376	184881	FADS_locus	21	FADS_locus_43696581	FADS_locus_38116435	SNP	A	A/G	1.00	0.00	0.00	0.00	0.64	0.18	0.18	0.27	0.73	0.18	0.09	0.18
377	187036	FADS_locus	21	FADS_locus_43700556	FADS_locus_38120119	SNP	G	G/A	0.00	0.00	1.00	1.00	0.54	0.00	0.46	0.46	0.62	0.00	0.38	0.38
378	187069	FADS_locus	21	FADS_locus_43700589	FADS_locus_38120152	SNP	T	T/G	0.00	0.00	1.00	1.00	0.08	0.00	0.92	0.92	0.31	0.00	0.69	0.69
379	187585	FADS_locus	21	FADS_locus_43701993	FADS_locus_38121556	SNP	C	C/T	1.00	0.00	0.00	0.00	0.45	0.45	0.09	0.32	0.67	0.25	0.08	0.21
380	187723	FADS_locus	21	FADS_locus_43702131	FADS_locus_38121694	SNP	C	C/T	0.38	0.00	0.63	0.63	1.00	0.00	0.00	0.00	0.80	0.10	0.10	0.15
381	188054	FADS_locus	21	FADS_locus_43702462	FADS_locus_38122025	SNP	G	G/T	0.11	0.33	0.56	0.72	0.92	0.08	0.00	0.04	0.38	0.46	0.15	0.38
382	188081	FADS_locus	21	FADS_locus_43702489	FADS_locus_38122052	SNP	G	G/A	1.00	0.00	0.00	0.00	0.38	0.54	0.08	0.35	0.69	0.23	0.08	0.19
383	188931	FADS_locus	21	FADS_locus_43703756	FADS_locus_38123320	SNP	C	A/C	1.00	0.00	0.00	0.00	0.69	0.23	0.08	0.19	0.77	0.15	0.08	0.15

SNP	RefPos	Gene	Chr	SNPName_OARv1.0	SNPName_OARv2.0	SNP Type	Reference	SIRE Type	Maternal				Merino				Terminal			
								Genotype	AA	AB	BB	MAF	AA	AB	BB	MAF	AA	AB	BB	MAF
384	188977	FADS_locus	21	FADS_locus_43703802	FADS_locus_38123366	SNP	C	C/T	0.11	0.22	0.67	0.78	0.92	0.08	0.00	0.04	0.46	0.38	0.15	0.35
385	189049	FADS_locus	21	FADS_locus_43703874	FADS_locus_38123438	SNP	G	G/A	0.33	0.00	0.67	0.67	1.00	0.00	0.00	0.00	0.77	0.08	0.15	0.19
386	189635	FADS_locus	21	FADS_locus_43704565	FADS_locus_38124131	SNP	C	C/T	0.78	0.11	0.11	0.17	0.62	0.23	0.15	0.27	0.77	0.23	0.00	0.12
387	190785	FADS_locus	21	FADS_locus_43706678	FADS_locus_38126241	Indel	C	C/delC	1.00	0.00	0.00	0.00	0.50	0.50	0.00	0.25	0.60	0.40	0.00	0.20
388	191591	FADS_locus	21	FADS_locus_43707964	FADS_locus_38127505	Indel	A	A/delA	0.89	0.00	0.11	0.11	0.50	0.00	0.50	0.50	0.80	0.10	0.10	0.15
389	191592	FADS_locus	21	FADS_locus_43707965	FADS_locus_38127506	Indel	A	A/delA	0.00	0.89	0.11	0.56	0.00	0.33	0.67	0.83	0.00	0.78	0.22	0.61
390	191593	FADS_locus	21	FADS_locus_43707966	FADS_locus_38127506	Indel	G	G/delG	0.11	0.11	0.78	0.83	0.67	0.67	-0.33	0.00	0.33	0.33	0.33	0.50
391	191594	FADS_locus	21	FADS_locus_43707967	FADS_locus_38127506	Indel	A	A/delA	0.00	0.11	0.89	0.94	0.00	0.67	0.33	0.67	0.00	0.11	0.89	0.94
392	191681	FADS_locus	21	FADS_locus_43708051	FADS_locus_38127592	SNP	T	C/T	0.75	0.00	0.25	0.25	0.50	0.42	0.08	0.29	0.50	0.25	0.25	0.38
393	191689	FADS_locus	21	FADS_locus_43708059	FADS_locus_38127600	SNP	G	G/A	0.50	0.00	0.50	0.50	0.75	0.25	0.00	0.13	0.29	0.29	0.43	0.57
394	192244	FADS_locus	21	FADS_locus_43708924	FADS_locus_38128625	SNP	G	G/A	0.00	0.00	1.00	1.00	0.08	0.54	0.38	0.65	0.08	0.23	0.69	0.81
395	192960	FADS_locus	21	FADS_locus_43710293	FADS_locus_38130206	SNP	A	A/G	0.78	0.11	0.11	0.17	0.38	0.46	0.15	0.38	0.62	0.38	0.00	0.19
396	193438	FADS_locus	21	FADS_locus_43710771	FADS_locus_38130684	SNP	C	C/T	1.00	0.00	0.00	0.00	0.46	0.15	0.38	0.46	0.69	0.08	0.23	0.27
397	194691	FADS_locus	21	FADS_locus_43712855	FADS_locus_38132693	Indel	C	C/delC	0.00	1.00	0.00	0.50	0.69	0.31	0.00	0.15	0.62	0.38	0.00	0.19
398	195074	FADS_locus	21	FADS_locus_43713238	FADS_locus_38133077	SNP	C	C/T	1.00	0.00	0.00	0.00	0.38	0.46	0.15	0.38	0.62	0.31	0.08	0.23
399	195276	FADS_locus	21	FADS_locus_43713440	FADS_locus_38133279	SNP	G	G/T	0.50	0.00	0.50	0.50	1.00	0.00	0.00	0.00	0.44	0.44	0.11	0.33
400	195759	FADS_locus	21	FADS_locus_43714333	FADS_locus_38134197	SNP	C	C/G	0.43	0.00	0.57	0.57	1.00	0.00	0.00	0.00	0.82	0.18	0.00	0.09
401	195817	FADS_locus	21	FADS_locus_43714391	FADS_locus_38134255	Indel	G	G/delG	0.86	0.14	0.00	0.07	0.25	0.75	0.00	0.38	0.58	0.42	0.00	0.21
402	197091	FADS_locus	21	FADS_locus_43716185	FADS_locus_38136023	Indel	A	A/delA	0.14	0.86	0.00	0.43	0.22	0.78	0.00	0.39	0.25	0.75	0.00	0.38
403	197092	FADS_locus	21	FADS_locus_43716186	FADS_locus_38136023	Indel	C	C/delC	0.14	0.14	0.71	0.79	0.22	0.22	0.56	0.67	0.25	0.25	0.50	0.63
404	197708	FADS_locus	21	FADS_locus_43716202	FADS_locus_38136966	Indel	A	A/delA	0.17	0.83	0.00	0.42	0.25	0.75	0.00	0.38	0.14	0.86	0.00	0.43
405	197709	FADS_locus	21	FADS_locus_43716203	FADS_locus_38136966	Indel	A	A/delA	0.17	0.17	0.67	0.75	0.25	0.25	0.50	0.63	0.14	0.14	0.71	0.79
406	197714	FADS_locus	21	FADS_locus_43716208	FADS_locus_38136966	Indel	A	A/delA	0.33	0.67	0.00	0.33	0.70	0.30	0.00	0.15	0.29	0.71	0.00	0.36
407	197895	FADS_locus	21	FADS_locus_43717318	FADS_locus_38137150	Indel	G	G/delG	0.00	1.00	0.00	0.50	0.08	0.85	0.08	0.50	0.00	1.00	0.00	0.50
408	197973	FADS_locus	21	FADS_locus_43717396	FADS_locus_38137227	SNP	C	C/T	0.71	0.14	0.14	0.21	0.85	0.15	0.00	0.08	0.50	0.50	0.00	0.25
409	199014	FADS_locus	21	FADS_locus_43718973	FADS_locus_38138725	SNP	G	G/A	1.00	0.00	0.00	0.00	0.67	0.17	0.17	0.25	0.82	0.09	0.09	0.14
410	199628	FADS_locus	21	FADS_locus_43719856	FADS_locus_38139893	SNP	G	G/A	0.89	0.11	0.00	0.06	0.54	0.15	0.31	0.38	0.55	0.18	0.27	0.36
411	199633	FADS_locus	21	FADS_locus_43719861	FADS_locus_38139898	SNP	C	C/T	0.78	0.11	0.11	0.17	0.92	0.08	0.00	0.04	0.64	0.27	0.09	0.23
412	200073	FADS_locus	21	FADS_locus_43720301	FADS_locus_38140337	SNP	T	T/C	0.78	0.11	0.11	0.17	0.31	0.54	0.15	0.42	0.38	0.62	0.00	0.31
413	200131	FADS_locus	21	FADS_locus_43720359	FADS_locus_38140395	SNP	A	A/G	0.78	0.11	0.11	0.17	0.77	0.23	0.00	0.12	0.46	0.54	0.00	0.27
414	200699	FADS_locus	21	FADS_locus_43720949	FADS_locus_38140957	SNP	T	T/C	0.89	0.00	0.11	0.11	0.85	0.00	0.15	0.15	0.77	0.23	0.00	0.12
415	203452	FADS_locus	21	FADS_locus_43726311	FADS_locus_38146312	Indel	C	C/delC	0.00	1.00	0.00	0.50	0.00	1.00	0.00	0.50	0.00	1.00	0.00	0.50
416	205150	FADS_locus	21	FADS_locus_43729120	FADS_locus_38149070	SNP	A	A/G	1.00	0.00	0.00	0.00	0.40	0.10	0.50	0.55	0.78	0.00	0.22	0.22
417	205270	FADS_locus	21	FADS_locus_43729240	FADS_locus_38149190	Indel	G	G/delG	0.00	1.00	0.00	0.50	0.00	1.00	0.00	0.50	0.00	1.00	0.00	0.50
418	205534	FADS_locus	21	FADS_locus_43729669	FADS_locus_38149617	SNP	G	G/A	1.00	0.00	0.00	0.00	0.30	0.60	0.10	0.40	0.64	0.27	0.09	0.23
419	208606	FADS_locus	21	FADS_locus_43733777	FADS_locus_38153671	SNP	G	G/C	0.40	0.00	0.60	0.60	0.43	0.29	0.29	0.43	0.50	0.33	0.17	0.33
420	210212	FADS_locus	21	FADS_locus_43736089	FADS_locus_38156033	SNP	G	G/A	0.11	0.33	0.56	0.72	0.58	0.25	0.17	0.29	0.46	0.46	0.08	0.31
421	210232	FADS_locus	21	FADS_locus_43736109	FADS_locus_38156053	SNP	C	C/T	1.00	0.00	0.00	0.00	0.50	0.33	0.17	0.33	0.85	0.08	0.08	0.12
422	210249	FADS_locus	21	FADS_locus_43736126	FADS_locus_38156070	SNP	G	G/A	0.33	0.11	0.56	0.61	1.00	0.00	0.00	0.00	0.77	0.15	0.08	0.15
423	210915	FADS_locus	21	FADS_locus_43736905	FADS_locus_38156849	SNP	T	T/G	0.75	0.00	0.25	0.25	0.64	0.09	0.27	0.32	0.62	0.31	0.08	0.23
424	210969	FADS_locus	21	FADS_locus_43736959	FADS_locus_38156903	SNP	C	C/T	0.50	0.00	0.50	0.50	0.62	0.31	0.08	0.23	0.62	0.38	0.00	0.19
425	211483	FADS_locus	21	FADS_locus_43737586	FADS_locus_38157531	SNP	T	T/C	1.00	0.00	0.00	0.00	0.33	0.00	0.67	0.67	0.00	0.00	1.00	1.00
426	211944	FADS_locus	21	FADS_locus_43738047	FADS_locus_38158020	SNP	T	C/T	0.00	0.44	0.56	0.78	0.54	0.46	0.00	0.23	0.33	0.67	0.00	0.33
427	212263	FADS_locus	21	FADS_locus_43738366	FADS_locus_38158339	SNP	G	G/C	1.00	0.00	0.00	0.00	0.62	0.38	0.00	0.19	0.58	0.42	0.00	0.21
428	212359	FADS_locus	21	FADS_locus_43738462	FADS_locus_38158435	SNP	G	G/A	0.00	0.00	1.00	1.00	0.38	0.08	0.54	0.58	0.00	0.17	0.83	0.92
429	213339	FADS_locus	21	FADS_locus_43740144	FADS_locus_38160051	SNP	G	G/A	1.00	0.00	0.00	0.00	0.33	0.33	0.33	0.50	0.64	0.27	0.09	0.23
430	214529	FADS_locus	21	FADS_locus_43741770	FADS_locus_38161838	SNP	C	C/A	0.20	0.00	0.80	0.80	0.40	0.00	0.60	0.60	0.75	0.00	0.25	0.25
431	214762	FADS_locus	21	FADS_locus_43742003	FADS_locus_38162071	SNP	C	C/T	0.00	0.13	0.88	0.94	0.67	0.17	0.17	0.25	0.62	0.15	0.23	0.31
432	215112	FADS_locus	21	FADS_locus_43742543	FADS_locus_38162612	SNP	C	C/T	0.13	0.00	0.88	0.88	0.85	0.00	0.15	0.15	0.92	0.08	0.00	0.04
433	216737	FADS_locus	21	FADS_locus_43744519	FADS_locus_38164600	SNP	G	G/A	0.00	0.13	0.88	0.94	0.62	0.23	0.15	0.27	0.75	0.25	0.00	0.13
434	216862	FADS_locus	21	FADS_locus_43744644	FADS_locus_38164725	SNP	T	T/A	1.00	0.00	0.00	0.00	0.57	0.14	0.29	0.36	0.70	0.30	0.00	0.15
435	217311	FADS_locus	21	FADS_locus_43745313	FADS_locus_38165389	Indel	C	C/delC	0.33	0.67	0.00	0.33	0.67	0.33	0.00	0.17	0.71	0.29	0.00	0.14
436	218145	FADS_locus	21	FADS_locus_43747064	FADS_locus_38167359	SNP	G	G/A	0.00	0.22	0.78	0.89	1.00	0.00	0.00	0.00	0.77	0.23	0.00	0.12
437	218346	FADS_locus	21	FADS_locus_43747265	FADS_locus_38167560	SNP	A	G/A	0.00	0.00	1.00	1.00	0.31	0.15	0.54	0.62	0.08	0.00	0.92	0.92
438	218422	FADS_locus	21	FADS_locus_43747341	FADS_locus_38167636	SNP	C	C/T	0.11	0.33	0.56	0.72	1.00	0.00	0.00	0.00	0.92	0.08	0.00	0.04

SNP	RefPos	Gene	Chr	SNPName_OARv1.0	SNPName_OARv2.0	SNP Type	Reference	SIRE Type	Maternal				Merino				Terminal			
								Genotype	AA	AB	BB	MAF	AA	AB	BB	MAF	AA	AB	BB	MAF
439	218932	FADS_locus	21	FADS_locus_43747351	FADS_locus_38168745	Indel	A	A/delA	0.00	0.00	0.00	0.00	0.38	0.63	0.00	0.31	0.22	0.78	0.00	0.39
440	218933	FADS_locus	21	FADS_locus_43747352	FADS_locus_38168745	Indel	G	G/delG	0.00	0.00	0.00	0.00	0.38	0.38	0.25	0.44	0.22	0.22	0.56	0.67
441	218934	FADS_locus	21	FADS_locus_43747353	FADS_locus_38168745	Indel	A	A/delA	0.00	0.00	0.00	0.00	0.38	0.38	0.25	0.44	0.22	0.22	0.56	0.67
442	219462	FADS_locus	21	FADS_locus_43752298	FADS_locus_38172483	SNP	G	G/A	0.78	0.22	0.00	0.11	0.75	0.08	0.17	0.21	0.92	0.08	0.00	0.04
443	219996	FADS_locus	21	FADS_locus_43754092	FADS_locus_38173983	Indel	A	A/delA	0.00	1.00	0.00	0.50	0.10	0.90	0.00	0.45	0.00	1.00	0.00	0.50
444	219997	FADS_locus	21	FADS_locus_43754093	FADS_locus_38173983	Indel	G	G/delG	0.00	0.00	1.00	1.00	0.10	0.10	0.80	0.85	0.00	0.00	1.00	1.00
445	219998	FADS_locus	21	FADS_locus_43754094	FADS_locus_38173983	Indel	A	A/delA	0.00	0.00	1.00	1.00	0.10	0.10	0.80	0.85	0.00	0.00	1.00	1.00
446	220057	FADS_locus	21	FADS_locus_43754153	FADS_locus_38174041	SNP	A	A/G	0.11	0.00	0.89	0.89	0.69	0.08	0.23	0.27	0.54	0.31	0.15	0.31
447	221103	SLC26A10	3	SLC26A10_172953459	SLC26A10_161696994	SNP	C	C/T	0.44	0.33	0.22	0.39	0.38	0.38	0.23	0.42	0.69	0.23	0.08	0.19
448	221226	SLC26A10	3	SLC26A10_172953582	SLC26A10_161697117	SNP	T	T/C	0.44	0.33	0.22	0.39	0.46	0.31	0.23	0.38	0.69	0.23	0.08	0.19
449	223408	SLC26A10	3	SLC26A10_172957287	SLC26A10_161700554	Indel	A	A/delA	0.00	0.33	0.67	0.83	0.25	0.00	0.75	0.50	0.17	0.33	0.42	
450	223410	SLC26A10	3	SLC26A10_172957289	SLC26A10_161700554	Indel	G	G/delG	0.33	0.67	0.00	0.33	0.25	0.75	0.00	0.38	0.67	0.33	0.00	0.17
451	223411	SLC26A10	3	SLC26A10_172957290	SLC26A10_161700554	Indel	A	A/delA	0.33	0.00	0.67	0.67	0.25	0.00	0.75	0.75	0.67	0.00	0.33	0.33
452	223651	SLC26A10	3	SLC26A10_172957527	SLC26A10_161700794	SNP	C	C/G	1.00	0.00	0.00	0.00	0.69	0.23	0.08	0.19	0.77	0.23	0.00	0.12
453	224433	SLC26A10	3	SLC26A10_172958309	SLC26A10_161701575	SNP	C	C/G	0.56	0.22	0.22	0.33	1.00	0.00	0.00	0.00	0.85	0.08	0.08	0.12
454	225719	SLC26A10	3	SLC26A10_172960186	SLC26A10_161702925	SNP	G	G/A	1.00	0.00	0.00	0.00	0.62	0.23	0.15	0.27	0.92	0.08	0.00	0.04
455	226095	SLC26A10	3	SLC26A10_172960751	SLC26A10_161703493	SNP	C	C/T	1.00	0.00	0.00	0.00	0.67	0.17	0.17	0.25	0.77	0.23	0.00	0.12
456	226279	SLC26A10	3	SLC26A10_172960935	SLC26A10_161703677	SNP	C	C/T	1.00	0.00	0.00	0.00	0.67	0.17	0.17	0.25	0.77	0.23	0.00	0.12
457	226528	SLC26A10	3	SLC26A10_172961184	SLC26A10_161703926	SNP	G	G/A	1.00	0.00	0.00	0.00	0.67	0.25	0.08	0.21	0.77	0.23	0.00	0.12
458	228041	SLC26A10	3	SLC26A10_172962842	SLC26A10_161706087	SNP	G	G/A	0.29	0.00	0.71	0.71	0.33	0.00	0.67	0.67	0.20	0.20	0.60	0.70
459	228283	SLC26A10	3	SLC26A10_172963258	SLC26A10_161706513	SNP	G	G/C	0.50	0.50	0.00	0.25	0.92	0.08	0.00	0.04	0.77	0.15	0.08	0.15
460	231347	SLC26A10	3	SLC26A10_172966957	SLC26A10_161710272	SNP	G	G/A	0.22	0.33	0.44	0.61	0.46	0.46	0.08	0.31	0.15	0.31	0.54	0.69
461	231499	SLC26A10	3	SLC26A10_172967109	SLC26A10_161710424	SNP	A	A/G	1.00	0.00	0.00	0.00	0.69	0.23	0.08	0.19	0.77	0.23	0.00	0.12
462	231811	SLC26A10	3	SLC26A10_172967421	SLC26A10_161710736	Indel	T	T/delT	0.67	0.33	0.00	0.17	0.31	0.69	0.00	0.35	0.33	0.67	0.00	0.33
463	231916	SLC26A10	3	SLC26A10_172967526	SLC26A10_161710840	SNP	G	A/G	0.67	0.22	0.11	0.22	0.92	0.08	0.00	0.04	0.77	0.15	0.08	0.15
464	231970	SLC26A10	3	SLC26A10_172967580	SLC26A10_161710894	SNP	C	C/G	0.67	0.22	0.11	0.22	0.92	0.08	0.00	0.04	0.77	0.15	0.08	0.15
465	232012	SLC26A10	3	SLC26A10_172967622	SLC26A10_161710936	SNP	C	C/T	1.00	0.00	0.00	0.00	0.69	0.15	0.15	0.23	0.77	0.23	0.00	0.12
466	233670	ELOVL2	20	ELOVL2_48150330	ELOVL2_43939543	Indel	A	A/delA	0.17	0.83	0.00	0.42	0.83	0.17	0.00	0.08	0.78	0.22	0.00	0.11
467	233676	ELOVL2	20	ELOVL2_48150336	ELOVL2_43939543	SNP	A	A/G	0.75	0.00	0.25	0.25	0.18	0.00	0.82	0.82	0.69	0.00	0.31	0.31
468	233835	ELOVL2	20	ELOVL2_48150495	ELOVL2_43939725	SNP	G	G/A	0.25	0.13	0.63	0.69	0.85	0.15	0.00	0.08	0.25	0.25	0.50	0.63
469	233846	ELOVL2	20	ELOVL2_48150506	ELOVL2_43939736	SNP	G	G/A	1.00	0.00	0.00	0.00	0.38	0.38	0.23	0.42	1.00	0.00	0.00	0.00
470	234690	ELOVL2	20	ELOVL2_48151350	ELOVL2_43940619	SNP	A	A/G	0.71	0.00	0.29	0.29	0.83	0.00	0.17	0.17	0.20	0.20	0.60	0.70
471	235134	ELOVL2	20	ELOVL2_48151794	ELOVL2_43941088	SNP	G	C/G	0.00	0.25	0.75	0.88	0.00	0.33	0.67	0.83	0.43	0.00	0.57	0.57
472	235183	ELOVL2	20	ELOVL2_48151843	ELOVL2_43941137	SNP	A	A/T	0.50	0.00	0.50	0.50	0.83	0.00	0.17	0.17	0.33	0.17	0.50	0.58
473	235860	ELOVL2	20	ELOVL2_48152520	ELOVL2_43941813	Indel	G	G/delG	0.00	1.00	0.00	0.50	1.00	0.00	0.00	0.00	0.43	0.57	0.00	0.29
474	236512	ELOVL2	20	ELOVL2_48153172	ELOVL2_43942462	SNP	C	C/G	0.25	0.50	0.25	0.50	0.86	0.00	0.14	0.14	0.71	0.14	0.14	0.21
475	236810	ELOVL2	20	ELOVL2_48153484	ELOVL2_43942774	SNP	G	G/A	0.75	0.25	0.00	0.13	0.43	0.29	0.29	0.43	0.57	0.29	0.14	0.29
476	237500	ELOVL2	20	ELOVL2_48154246	ELOVL2_43943545	SNP	G	G/T	0.50	0.50	0.00	0.25	0.57	0.14	0.29	0.36	0.43	0.29	0.29	0.43
477	237600	ELOVL2	20	ELOVL2_48154346	ELOVL2_43943646	SNP	A	A/C	1.00	0.00	0.00	0.00	0.57	0.43	0.00	0.21	0.50	0.17	0.33	0.42