

Table S1. Description of SNP markers referred to in the Brennan *et al.* (2015) text.

Designation in Brennan <i>et al.</i> 2015	Official Designation	Forward Primer (5'-3')	Reverse Primer (5'-3')	Amplimer Length (bp)	Alleles (B/K=W)	Amplimer Sequence
SNP A	rs27411393	gccttaagctagctgtgctat	tctggctgaacacacatcc	260	T/C	5' gccttaagct agctgtgcta tGCCTTATTT GTGAGTTGGT TAGAATAAAG TGATTGTATT TTTAAAAAAT GTTCAAATG GGATCTTGGG TATTTTCCAT CTCATTAAGT GTAAATTTGGG CCTGGAYGCT AACCTGTGC TGATGGAACA GAATATTTGT ATGTCACAAC CCTCTGGACC GACATGCTGC TAGGCTCAGC CTCTCCAGG TTGGCATGCC GTGCCTGTAC TGGACCCCAT ggatggtgtg ttcagccaga 3'
SNP B	rs27433588, rs6384399, rs6384488, rs235460543	ggatctgtctcctgcctaac	gtgtagaaacagcacaacattat	352	G/T, T/C, C/T, G/Δ	5' ggatctgtgc tcctgcctta acAATTTATG AATCTGGACT GTGTACAGGA GAAACTGTG TGGCAGTTCT TCCTGGGAGA GTCCCGCTTT TCTCAKCTTG CTGTCCCTGA CCCCCGTGGG GCAAGCTGCT GCCTTCTCAG GGCTTTT ^Y TTA GAAGTCAAGG T ^T ACTACTGG GAACATGTCA G ^Y GATGGGAG CTTCAGCCAG ACCT ^G TTTGC ATTGTACAGA TCTTTCTCTA CTCAGAGTCC TTGAGAGACT CTTAATAGAC GGGACACATT CTGTTAATGT TTGTTTATGG AAGTATTAAT AAATGACACC AAATATAATC ACCTCCA ^a at aaggtttgtg ctgtttctac ac 3'
SNP C	rs3654481, rs3654530	ccatctgtgaaacttgggtgat	cctcatctttgtagtaggt	346	G/A, A/T	5' ccatctgtga aactttggtt gatCTTATGT GGTTATTTTT ATAACATTTG ACAGAGAATT CGACCTTTCT GTAGCTGTAT ACTCATTTAC CCTGTATGT TACATTTGTT TATATGCATT GCCCR ^R TATG CTACAAAGGT GTTCAGT ^{WA} TCAGCGATAC ACGAGTCCAG GATATCTTTG CACCTACTGA GAGCTCACGG AGTGAAGAAG CAAGCGAGTT TGGGAACTT GCTTTCTAGC GGCTGGAAAC AGGACTGTGT CTA ^A ACTCTGA GAGACACCCA GACCTGTAC CTTTCTGTCC ACACCTTGGC ATAGTACCTT TGA ^A acctac ctgacaaaga tgaagg 3'
SNP D	rs27242445	cagcctaacagtggtggattag	ggagggagaggaagagagataag	375	C/T	5' cagcctaaca gtgtgggatt agGTTAATGT AGCCTTTATT CTATCTCAGC AGGAACTGCC CAGCTCTGAC TTTCAGCCTG CTAGTTGAAG TTGCAAGAAA TAAAAGGGAC ACTTTGAAAA GTGGTCTTAG AGGTTATTTT TAAGTTGTAA AAAGTTCCTC ATGAAATCTC TCTAAGAAA AGGGGGAAAA CGGTGTTGGT ATCAGGACCT CTGAAATCCA TGACATCACA TAGGTGAGAC CCATAGACCT GTTGCCAAGG CAACAGCCAC CATAT ^Y CCA GAATCCA ^T T GGCTCACCTC TCACCTTTAC CTATGTTACA TGATCACTCA TATATAAAGA AAGCCCCCT CCcttatctc tcttctctc cctcc 3'

Primers listed (in lower case) were used to amplify genomic DNA from strains C57BL/6J (abbreviated B), AKR/J (abbreviated K) and AKR-*we^d*/J (abbreviated W). Amplimers were sequenced by primer extension (SeqWright DNA Technology Services, Houston Texas). Nucleotides that differ between two strains are shown in red, where Y = C or T, K = G or T, R = A or G, W = A or T, and Δ = base deleted. Official designations from dbSNP Build 138. These data accessed through the Mouse Genome Database (MGD) at the Mouse Genome Informatics website, The Jackson Laboratory, Bar Harbor Maine. World Wide Web (URL: <http://www.informatics.jax.org> (May 2015))(ref. 8) and the ensembl Mouse Genome Browser (EMGB), http://ensembl.org/Mus_musculus, Release 78 (May 2015))(ref. 9).