Table S3. Details of the genes under each QTL with significant merge SNPs nearby.

SNPs with good SDP	**in/near gene (location of gene)**
Asprl 1: Chr 8	
47,951,844 (logP = 5.63)	near **Irf2** (47,825,115-47,932,801)
run (logP = 5.78) between	in Stox2 (48,271,310 – 48,437,702)
48,281756 and 48,287,513	
run (logP = 5.96) between	near Cldn22 (48,909,836-48,910,829)
48,872,956 and 48,896,293	and Wwc2 (48,911,437-49,075,897)
Asprl 2: Chr 10 B	
Nothing	
Asprl 3: Chr 15	
Runs of SNPs follow the peak	
highest logP run (logP = 6.18)	over multiple genes:
between	
34,107,007 and 34,425,409	**Laptm4b** (34,167,781-34,214,050)
	Matn2 (34,236,436-34,365,997)
	9430069I07Rik
	(34,278,808-34,287,627)
	Rp130 (34,370,260-34,373,395)
	BC030476 (34,383,067-34,403,646)
	Hrsp12 (34,413,776-34,424,935)
	Pop1 (34,425,087-34,460,402)
Asprl 4: Chr 10 A	
13,565,620 (logP = 5.68)	in Aig1 (13,366,863-13,588,786)
run (logP = 6.82, 7.16) between	near Nmbr (14,480,027-14,490,389)
14,753,652 and 14,944,601	
run (logP = 6.97) between	not really near anything
15,548,942 and 15,714,476	
22,235,197 (logP = 6.78)	near Raet1d (22,081,700-22,093,943)
and 22,241,040 (logP = 6.78)	and Slc2a12 (22,364,937-22,424,091)
22,532,385 (logP = 6.92)	near ENSMUSG00000075292

	(22,535,555-22,543,136) and
	Tcf21 (22,537,085-22,539,980)
22,537,465 (logP = 6.92)	in ENSMUSG00000075292 and Tcf21
22,969,475 (logP = 6.53)	in Eya4 (22,823,974-23,069,701)
and 22,973,889 (logP = 6.53)	
and 23,009,306 (logP = 6.53)	
23,156,428 (logP = 6.29)	near Eya4
Asprl 5: Chr 18	
11,064,012 (logP = 5.34)	in Gata6 (11,052,508-11,085,633)
11,391,085 (logP = 5.30)	not really near anything
11,755,222 (logP = 5.19)	near Rbbp8 (11,815,936-11,901,716)
and 11,914,962 (logP = 5.19)	
Asprl 6: Chr 3	
Run (logP = 5.03) between	over Frrs1
116,544,990 and 116,605,934	(116,581,145116,606,668)
116,459,656 (logP = 5.03)	in Agl (116,442,917-116,511,084)
and 116,460,296 (logP = 5.03)	
and 116,494,696 (logP = 4.84)	
Asprl 7: Chr2	
Runs of SNPs follow the peak	
Highest logP run (logP = 4.50)	over multiple genes:
between	
9,961,897 and 10,263,166	Itih5 (10,075,170-10,178,153)
	Itih2 (10,016,218-10,052,290)
	Kin (10,002,236-10,014,327)
	Atp5c1 (9,977,643-10,002,137)
	Taf3 (9,836,181-9,970,243)