

**Table S4** The results of a STRUCTURE analysis to determine the probability of different numbers of populations (K) within wild-derived inbred lines sampled from the three subspecies of *M. musculus* after the removal of lines found to be highly admixed in previous runs of STRUCTURE.

Model	K	Average	
		ln Pr(X K)	Pr(K)
Admixture	1	-15937.8	<0.001
Admixture	2	-12492.3	<0.001
Admixture	3 <sup>a</sup>	-8918.2	>0.999
Admixture	4	-9648.40	<0.001
Admixture	5	-9603.07	<0.001
No admixture	1	-15932.5	<0.001
No admixture	2	-11890.1	<0.001
No admixture	3 <sup>a</sup>	-8879.2	>0.999
No admixture	4	-10641.9	<0.001
No admixture	5	-9059.4	<0.001

<sup>a</sup>In these runs, the lines assigned to the three clusters were consistent with our subspecies assignment as shown in Supporting Information Table 1.