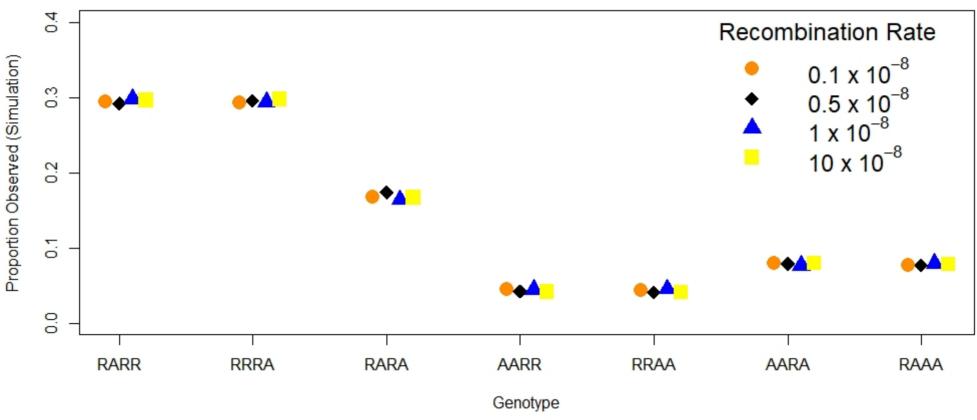
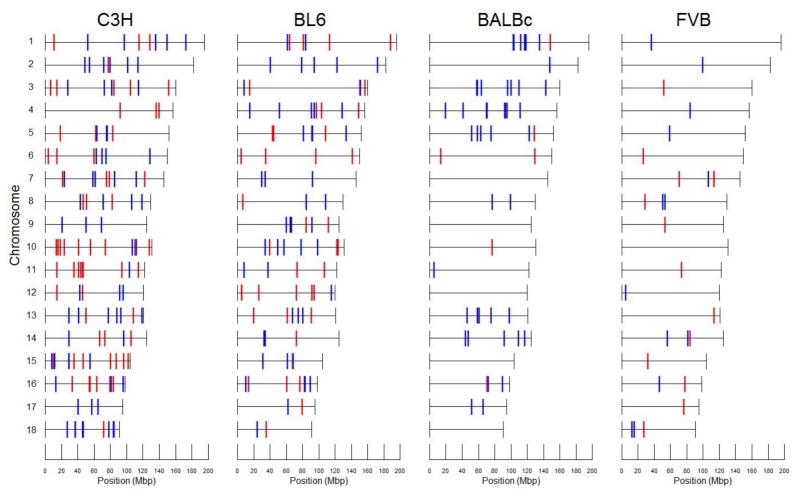


Supplemental Figure 1: Average proportion of variant sites in each SFS element after 100 generations in simulations in which mutation rate parameter values are varied. Parameter values include the value used in this study (10⁻⁸), and values one order of magnitude smaller and greater.



Supplemental Figure 2: Average proportion of variant sites in each SFS element after 100 generations in simulations in which recombination rate parameter values are varied. Parameter values include the value used in this study (0.5×10^{-8}) as well as lower and greater values.



Supplemental Figure 3: Observed SNMs (post IGV check) across the genome in the four strains.

each sample.	Table 1. Mean s	sequence	mapping quanty to	ľ

Supplemental Table 1 Mean sequence manning quality for

each sample.	
Sample	Mean MAPQ

C3HA 59.03

C3HB 59.06

58.69

58.64

58.94

58.91

58.88

58.66

BL6 A

BL6 B

BALBc A

BALBc B

FvB A

FvB B

Supplemental Table 2. Site counts during filtering process	

Supplemental Table 2. Site counts during filtering process					
Criterion	Filter	Number of Sites	% Initial		
Initial	None	2,401,196,940	100		
1 and 2	QUAL>90, DP>10	2,064,599,209	85.98		
3	Bait mice < 1 variant reads	1,602,887,415	66.75		
4	Non-focal mice < variant reads	1,543,509,803	64.28		
5	Segregating sites in focal mice only	30,499	1.27E-03		
6	Single nucleotide variant	8,648	3.60E-04		
7 to 11	Manual filters for false positives on sample of sites (see methods)	1,984.45 (estimated)	8.26E-05		