TABLE 1

The parameters of the simulated genetic model

	0 1 2 //	99 100 cM
Map per chromosome ^e	M, Q, M, Q, M,	M ₁₀₀ Q ₁₀₀ M ₁₀₁
Number of chromosomes is the total number of morgans	10	
Mutation rate of QTL	2.5×10^{-5}	
Distribution of additive mutational effects	Gamma(1.66; 0.4)	
Dominance of QTL effects	0	
Mutation rate of marker loci	2.5×10^{-3}	
Population structure		
Generations 1–1000	Ideal*, N = 100	
Generation 1001	Ideal*, N = 200	
Generation 1002	20 half-sib families, $N = 2000$	
Generation 1003 and later	Ideal*, N = 2000	
Marker genotyping	Generations 1001 and later	
Phenotypic recording	Generations 1001 and 1002	

^{*}M, marker position; Q, QTL position.

 $^{^{}b}$ Ideal denotes a population structure where the effective size equals the actual population size. This structure is simulated by giving every male (female) in generation t-1 an equal probability of becoming the sire (dam) of animal i in generation t, which implies no selection and random mating of males and females.