

List of Supplementary material:

Supplementary Figure S1. Number of markers used for each analysis. Histogram of distribution, and raw data with smooth along hybrid index (HI).

Supplementary Figure S2. Distribution of helminths counts in all mice investigated for worms (N=585)

Supplementary Table S3. Raw data

Supplementary Figure S4. Choice of distribution for (positive) parasite loads (intensity)

Supplementary Table S5. Table of prevalence of pinworms and *Eimeria* spp. by weight category and sex.

Supplementary Figure S6. Probability of infection is constant and intensity of *Eimeria ferrisi* infection is reduced in hybrids.

Supplementary Figure S7. No decrease or increase in mortality in more admixed mice.

Supplementary Table S8. Models full parameters