



Figure S1 Illustration of genome reconstruction. **A:** Inferred diplotype across the genome for mouse DO-359, with an arbitrary choice of phase. (For example, if there is a region of homozygosity, the haplotypes above can be swapped relative to the haplotypes below.) White indicates unknown (no diplotype had probability >0.5). **B:** Heat map of the diplotype probabilities for mouse DO-359 along chromosome 16. Only diplotypes that achieved probability >0.25 are shown.