



FIGURE S1.—Segregation pattern of different sex linked SNP markers in F2 population. (A) ♀ and ♂ Grandparents homozygous for opposite sex linked alleles. All ♀ and ♂ F1 offspring are heterozygous for such a marker and only 50% of the total F2 individuals (25% ♀ and 25% ♂) have distinctly sex specific genotypes (shaded grey). (B) ♀ Grandparent is homozygous and ♂ grandparent has a Y-linked SNP. All ♀ F1 offspring are homozygous and ♂ F1 offspring are heterozygous for such a marker and 100% of the F2 individuals are informative for sex linkage (shaded grey). (C) ♀ Grandparent is homozygous and ♂ grandparent has an X-linked SNP. All ♀ F1 offspring are heterozygous and ♂ F1 offspring are homozygous for such a marker and the F2 individuals are not informative for sex linkage. (D) ♀ Grandparent is heterozygous and ♂ grandparent is homozygous for the sex linked SNP marker. 50% F1 offspring are heterozygous and 50% are homozygous (♀ and ♂) for such a marker. Depending on the F1 ♀ parent genotype, either 50% or 100% of the total F2 individuals can be informative when the F1 ♂ parent has heterozygous alleles shaded grey). When the F1 ♂ parent is homozygous, the F2 individuals are not informative for sex linkage.