



Figure S1 Validations of germ cell population purity. (A) Percentage of targeted cell types based on Giemsa staining for spermatogonia/early prophase I (LZ), pachytene/diplotene (PD), secondary spermatocyte (SS), and round spermatid (RS) populations from reciprocal F_1 males (white bars, *domesticus*^{LEWES X} X chromosome; black bars, *musculus*^{PWK X} X chromosome). Data are presented as genotype means + 1 SE. (B) Autosomal genes that are expressed in different germ cell types are enriched in the correct germ cell populations from reciprocal F_1 males. The cell population in which each gene should be most highly expressed is indicated with a red box. All genes were enriched in the expected cell populations with the exception of *Acrv1*, which was equally enriched in the SS and RS populations. Expression was normalized relative to *Ubc* (ΔC_T) and adjusted to produce positive values by setting the lowest expression level to zero. Data are presented as genotype means + 1 SE.