



Figure S4. Chromosome axis morphology in *Stag3* mutant meocytes.

(A) Immunostaining of wild-type and homozygous *Stag3* mutant spermatocytes (left) and E18.5 oocytes (right) for TRF1 (a telomere protein) and SYCP3. Enlarged views of the axes (arrowheads) are shown to the right. Bars, 10 μ m.

(B-D) Immunostaining of wild-type and homozygous *Stag3* mutant spermatocytes for SYCP3 and SYCP1, as well as either SYCE1 (B), SYCE2 (C) or TEX12 (D). Bars, 10 μ m.