



**Figure S6:** STAG1 and STAG2 localization on chromosome spreads from wild-type and *Stag3*<sup>OV</sup> knockout primary spermatocytes. (A) Example chromatin spread preparations immunolabeled using antibodies against the SC lateral element protein SYCP3 (red) and the STAG1 (green). (B) Example chromatin spread preparations immunolabeled using antibodies against the SC lateral element protein SYCP3 (red) and the STAG2 (green).