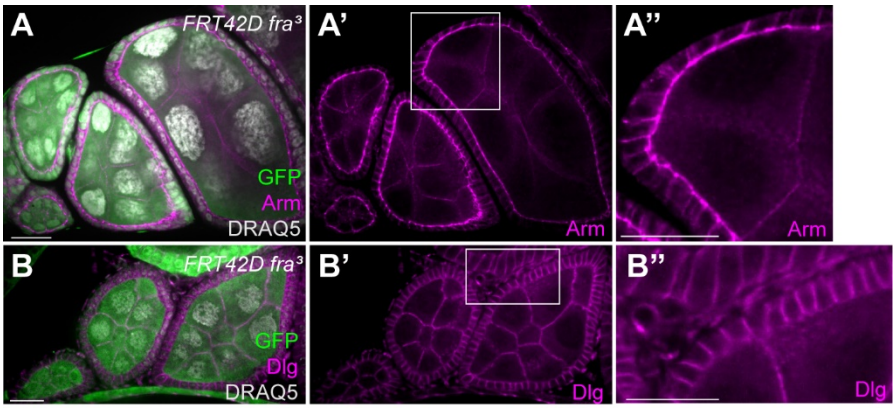

Fig. S1. Armadillo and Discs large do not appear to be affected by loss of *fra* from the germline or follicle cells. (A) Egg chambers that have wild-type germline cysts (GFP+) and some *fra* mutant follicle cells (GFP-) stained for GFP (green), Arm (magenta), and DRAQ5 (grey). (A') Arm channel from A. (A'') inset from A' with both GFP+ and GFP- follicle cells. (B) Egg chambers with wild-type cysts (GFP+) and *fra* mutant follicle cells (GFP-) stained for GFP (green), Discs large (magenta), and DRAQ5 (grey). (C') Discs large channel from C. (C'') inset from C' with both GFP+ and GFP- follicle cells. Scale bars are 20 microns.

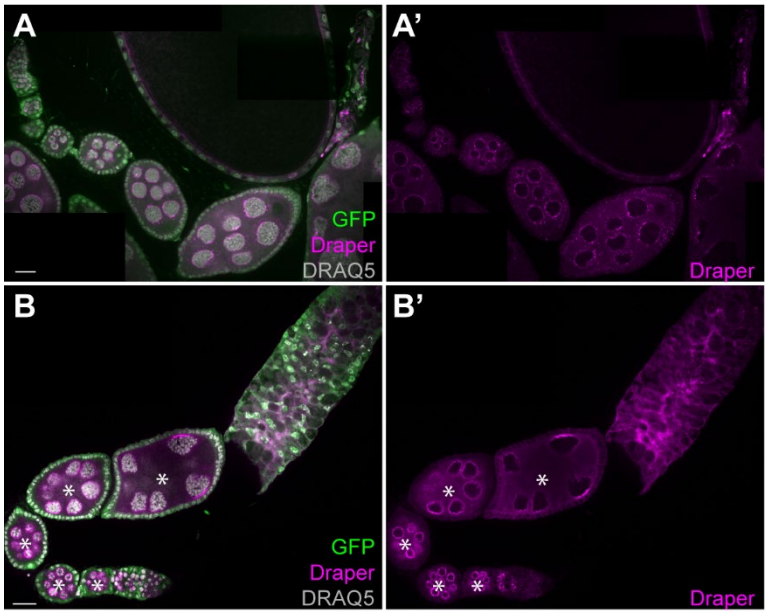

Fig. S2. Draper is expressed in dying egg chambers. (A) Wild type ovariole with a degenerating egg chamber stained for GFP (green), Draper (magenta), and DRAQ5 (grey). (B') Draper channel from A. (B) Ovariole with *fra* mutant germline cysts (GFP-, white asterisks) stained for GFP (green), Draper (magenta), and DRAQ5 (grey). (B') Draper channel from B. Scale bars are 20 microns.

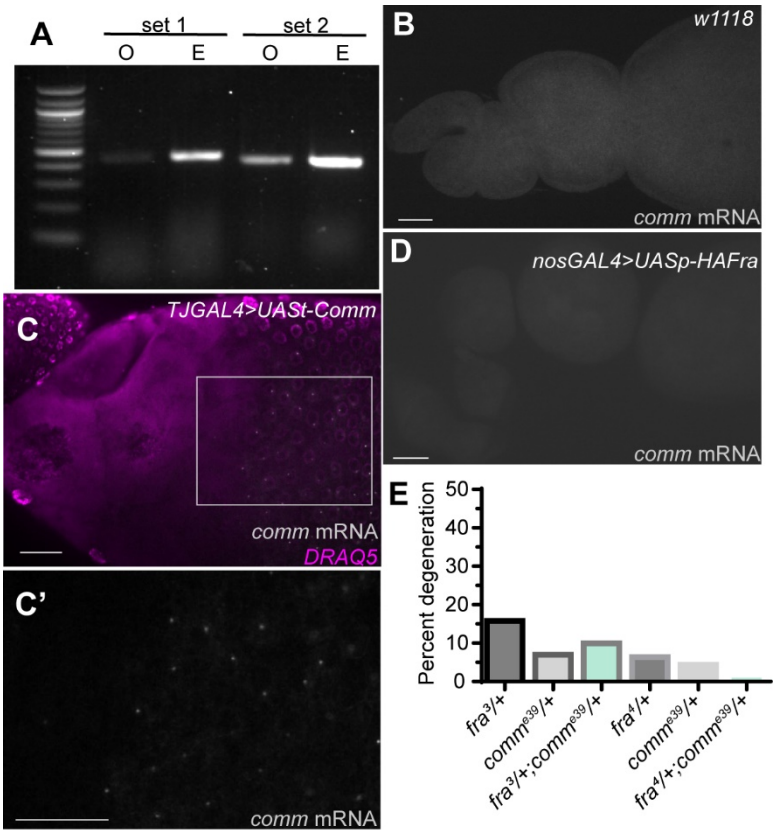

Fig. S3. Comm does not appear to be expressed in the germline. (A) RT-PCR for *comm* using two different primer sets on ovary (O) and embryonic (E) samples. (B) Optical section through the middle of a wild type ovariole. Small molecule fluorescent in situ hybridization (smFISH) for *comm* mRNA (grey), over-exposed. (C) Ovariole with Comm driven in follicle cells by *traffic jam GAL4* (*TJGAL4*) stained with DRAQ5 (magenta) and *comm* probe (grey). (C') *comm* mRNA channel from boxed region in C. (D) Ovariole with *HAFra* driven in the germline with *comm* mRNA probe (grey). (E) Percentage of ovarioles containing a degenerating egg chamber. N=161, 190, 155, 104, 85, 93 ovarioles from one trial. Scale bars are 20 microns.