

Figure S3 Similar to homozygous *spn-E* mutant egg chambers, dynein motor complex aggregates form and Gurken is not properly localized in some *spn-E* hemizygous mutant ovaries. *spn-E^{mutant}/spn-E*^{Δ 125} were stained with α -EGL (**A-F**, Red) to visualize the dynein motor complex and α -GRK (**A'-F'**, Green). (**A**) In wildtype (*spn-E* $^{\Delta$ 125/*Balancer*) EGL localizes to and within the oocyte (**A**) and GRK forms a tight cresent at the dorsal-anterior corner of a stage 8-9 oocyte (**B**). (Egg chamber to the right of each panel). (**B**,**C**) In *spn-E*⁴⁻⁴⁸ and *spn-E*²³⁻¹⁷ no dynein aggregates form (**B**,**C**) and GRK is localized similar to wildtype (**B'**,**C'**). These alleles represent the typical phenotype of the weaker *spn-E* alleles. (**D-F**) In *spn-E*^{9A9}, *spn-E*¹⁵⁵⁻⁵⁵, and *spn-E*⁶⁵³ dynein motor aggregates form (**D-F**) and GRK is not localized to the dorsal-anterior corner of the oocyte (**D'-F'**). These alleles represent the typical phenotype of the strong *spn-E* alleles. In the earlier chambers of *spn-E*¹⁵⁵⁻⁵⁵ and *spn-E*⁶⁵³ weak GRK expression is found within the oocyte (**E'**, **F'**, **arrow**).