



Figure S5. RNAi or mutant allele transgenes did not affect morphology of bursicon neurons on their own. (A-B) The *Oli^{Δ9}* mutant allele did not affect soma size or neurite morphology (B, Sholl analysis) of the bursicon neurons in the absence of *shep* RNAi. $P > 0.05$, Student's *t*-test. (C) *Dad* RNAi did not affect morphology of bursicon neurons in the absence of *shep* RNAi. *CG10565* RNAi alone was sufficient to result in smaller B_{AG} soma sizes. $P < 0.00001$, One-way ANOVA, (***, $P < 0.001$, Tukey HSD *post hoc*). (D) *CG10565* RNAi alone was sufficient to result in fewer axonal projections of B_{AG} cells. (E) Both *Oli^{Δ9}* and *Dad* RNAi showed similar GFP expression levels in the B_{AG} and B_{SEG} cells, suggesting that they suppressed loss-of-*shep* phenotypes without affecting general transcription levels. $P > 0.05$, Student's *t*-test.