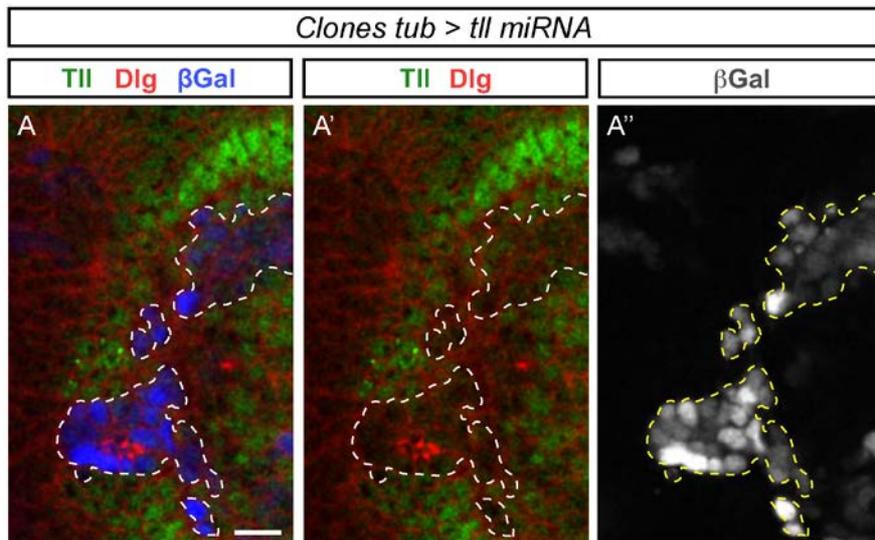


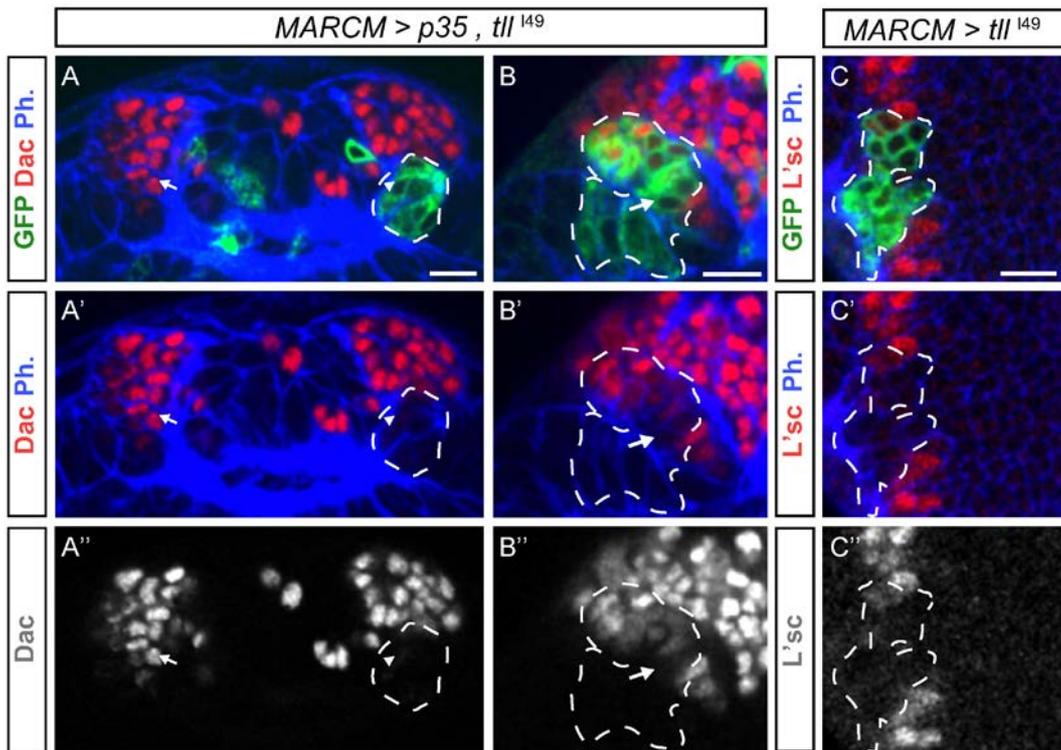
**Supplementary Figure 1: *tll::GFP* and *c855a-GAL4* expression in eye imaginal discs**

(A and C) maximum projections and (B and D) single sections of eye imaginal discs at 96 h ALH. (A, B) *tll::GFP* is expressed in one cell per ommatidia, which is also positive for Fas II. (C, D) *c855a-GAL4* drives strong *mCD8::GFP* expression in peripodial epithelial cells. Weak and irregular expression can also be seen in ommatidial cells that are positive for Fas II. Scale bars: 25 $\mu$ m for (A, C) and 10 $\mu$ m for (B, D).



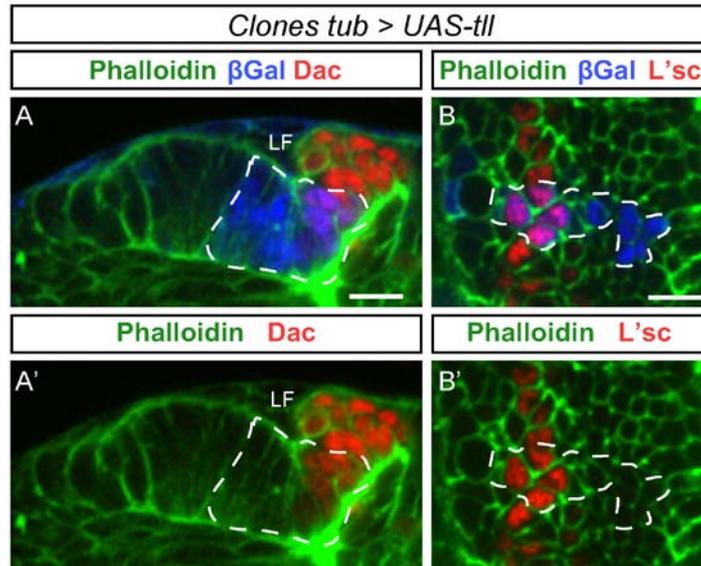
**Supplementary Figure 2: Tll protein levels are not detectable in *tll*<sup>miRNA</sup> clones**

(A-A'') shows a lateral section at 72 h ALH. βGal labels *tll* knockdown clones. Dlg labels cell outline. Upon *tll* knockdown Tll protein is not detectable in clonal neuroepithelial cells while immunofluorescent staining is clearly visible in neighboring non-clonal cells. Scale bar 10μm.



**Supplementary Figure 3: *tll<sup>l49</sup>* mutant clones phenocopy *tll<sup>miRNA</sup>* knockdown clones.**

(A-B) single frontal section and (C) single lateral section at 72 h ALH. mCD8::GFP labels *tll<sup>l49</sup>* mutant clones. (A-B'') The expression of Dac is severely reduced or absent in *tll* mutant MARCM clones (arrowheads) whereas Dac expression is visible in LPCs and lamina neurons at the control side (arrow). (C) Clonal lack of *tll* results in a complete loss of L'sc expression in the neuroepithelial cell to neuroblast transition zone. Scale bar 10  $\mu$ m.



**Supplementary Figure 4: *tll* misexpression is not sufficient to induce ectopic L'sc or Dac expression**

(A) single frontal and (B) single lateral sections at 72 h ALH.  $\beta$ Gal staining labels *tll* misexpression clones. (A-A') Clonal misexpression of *tll* is not sufficient to induce Dac expression in more medial neuroepithelial cells. (B-B') Clonal misexpression of *tll* is not sufficient to induce L'sc expression in more lateral neuroepithelial cells. Scale bars: 10 $\mu$ m.