Lucas et al., http://www.jcb.org/cgi/content/full/jcb.201210073/DC1

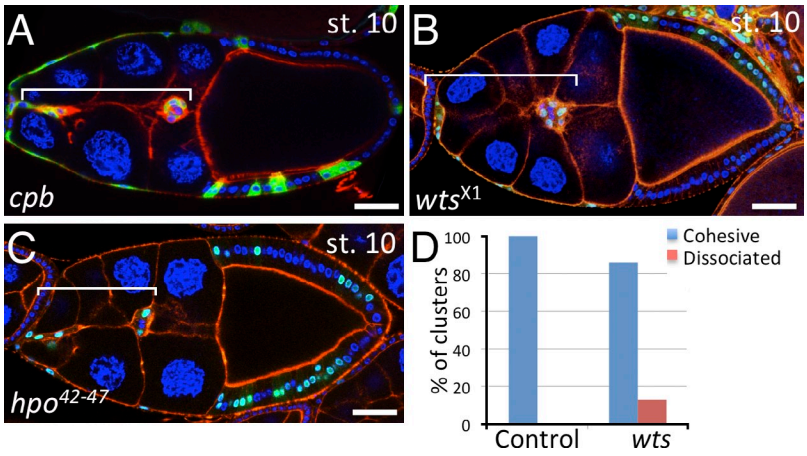
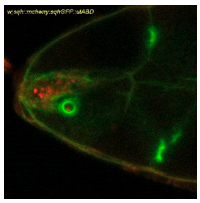
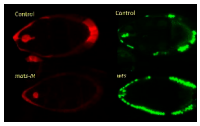


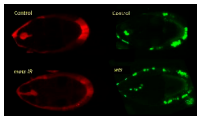
Figure S1. **Quantification of disintegration defects in *wts* mutant clusters.** (A) cpb^{M143} mutant border cell clusters can disintegrate. (B) wts^{X1} mutant cluster showing disintegration. (C) hpo^{42-47} mutant cluster showing disintegration. (D) Quantification of the percentage of dissociated/disintegrated border cell clusters in the following genotypes: control (n > 100) and wts^{X1} (n = 93) mutant clusters. Anterior is to the left in all panels.



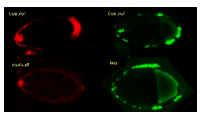
Video 1. **Polarization of F-actin visualized with Utrophin-GFP in border cells.** Border cells expressing *UAS-utrophin-GFP* driven by *c306.G4*. Images were acquired by time-lapse confocal microscopy using a laser-scanning confocal microscope (LSM780 invert; Carl Zeiss). Frames were taken every 3 min over a period of 5 h.



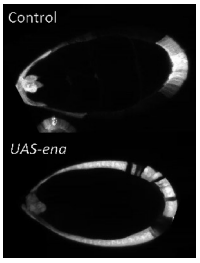
Video 2. **Tumbling migration of wts^{X1} or *mats-IR* clusters versus a control.** MARCM clones expressing GFP-labeled wts^{x1} border cells as well as some follicle cells. Control border cells expressing blank *FRT-GFP*. *Mats-IR* border cells and corresponding control border cells labeled with *UAS-mcherry-jupiter* and driven by *c306.G4*. Images were acquired by time-lapse confocal microscopy using a laser-scanning confocal microscope (LSM780 invert; Carl Zeiss). Frames were taken every 3 min over a period of 5 h.



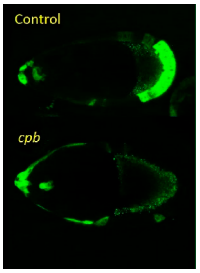
Video 3. **Disintegration of wts^{x1} or *mats-IR* clusters versus a control.** MARCM clones expressing GFP-labeled wts^{x1} border cells as well as some follicle cells. Control border cells expressing blank *FRT-GFP*. *Mats-IR* border cells and corresponding control border cells labeled with *UAS-mcherry-jupiter* and driven by *c306.G4*. Images were acquired by time-lapse confocal microscopy using a laser-scanning confocal microscope (LSM780 invert; Carl Zeiss). Frames were taken every 3 min over a period of 5 h.



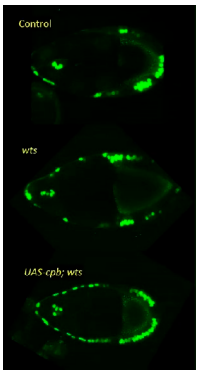
Video 4. **Failure of detachment of wts^{x1} or *mats-IR* clusters versus a control.** MARCM clones expressing GFP-labeled wts^{x1} border cells as well as some follicle cells. Control border cells expressing blank *FRT-GFP*. *Mats-IR* border cells and corresponding control border cells labeled with *UAS-mcherry-jupiter* and driven by *c306.G4*. Images were acquired by time-lapse confocal microscopy using a laser-scanning confocal microscope (LSM780 invert; Carl Zeiss). Frames were taken every 3 min over a period of 5 h.



Video 5. **Tumbling migration of a *UAS-ena* cluster versus a control.** *Afout.G4* clones expressing GFP-labeled *UAS-ena* border cells as well as follicle cells. Control border cells labeled with *UAS-mcherry-jupiter* and driven by *c306.G4*. Images were acquired by time-lapse confocal microscopy using a laser-scanning confocal microscope (LSM780 invert; Carl Zeiss). Frames were taken every 3 min over a period of 5 h.



Video 6. **Disintegration of a *cpb^{M143}* cluster versus a control.** MARCM clones expressing GFP-labeled *cpb^{M143}* border cells as well as some follicle cells. Control border cells expressing blank *FRT-GFP*. Images were acquired by time-lapse confocal microscopy using a laser-scanning confocal microscope (LSM780 invert; Carl Zeiss). Frames were taken every 3 min over a period of 5 h.



Video 7. **Rescue of *wts^{x1}* mutant migration by expression of Cpb.** MARCM clones expressing GFP-labeled blank *FRT-GFP* (control), *wts^{x1}*, *or UAS-cpb;wts^{x1}* border cells as well as some follicle cells. Images were acquired by time-lapse confocal microscopy using a laser-scanning confocal microscope (LSM780 invert; Carl Zeiss). Frames were taken every 3 min over a period of 5 h.