

Description of Additional Supplementary Files

File Name: Supplementary Movie 1

Description: Video of a representative Ras^{V12} cell generating blebs and ELEVs (z-projection of 25 μm stack, duration: 4 hours, 6 fps). Ras^{V12} was induced for 2 days with esg^{ts} . The cell is captured from Supplemental Video 3. Scale bar is 10 μm .

File Name: Supplementary Movie 2

Description: *Ex vivo* live imaging of day 2 esg^{ts} posterior midgut (z-projection of 25 μm stack, duration: 4 hours, 10 fps).

File Name: Supplementary Movie 3

Description: *Ex vivo* live imaging of day 2 $esg^{ts}>Ras^{V12}$ posterior midgut (z-projection of 25 μm stack, duration: 4 hours, 5 fps). Arrowheads point to the sites of blebbing and ELEV formation.

File Name: Supplementary Movie 4

Description: *Ex vivo* live imaging of day 2 $esg^{ts}>Raf^{gof}$ posterior midgut (z-projection of 25 μm stack, duration: 4 hours, 10 fps).

File Name: Supplementary Movie 5

Description: Bleb mediated dissemination of a Ras^{V12} cell in the posterior midgut (z-projection of 21 μm stack, duration: 2 hours 16 minutes, 10 fps). Arrowhead indicates blebbing. Arrow points out the detachment of the blebbing cell from the midgut epithelium.

File Name: Supplementary Movie 6

Description: Dissemination of Ras^{V12} cell in the posterior midgut (z-projection of 25.5 μm stack, duration: 1 hour 40 minutes, 5 fps). White arrow points to a cell that exits the midgut. Still shots are shown in Supplemental Figure 7.

File Name: Supplementary Movie 7

Description: *Ex vivo* live imaging of day 2 $esg^{ts}>Ras^{V12}$, $piezo-i^{8486}$ posterior midgut (z-projection of 25 μm stack, duration: 4 hours, 10 fps).

File Name: Supplementary Movie 8

Description: *Ex vivo* live imaging of day 2 $esg^{ts}>Ras^{V12}$, $piezo-i^{v2796}$ posterior midgut (z-projection of 25 μm stack, duration: 4 hours, 10 fps).

File Name: Supplementary Movie 9

Description: *Ex vivo* live imaging of day 2 $esg^{ts}>Ras^{V12}$, $piezo-i^{8486}$, *Cortactin-HA* posterior midgut (z-projection of 30 μm stack, duration: 4 hours, 10 fps).