

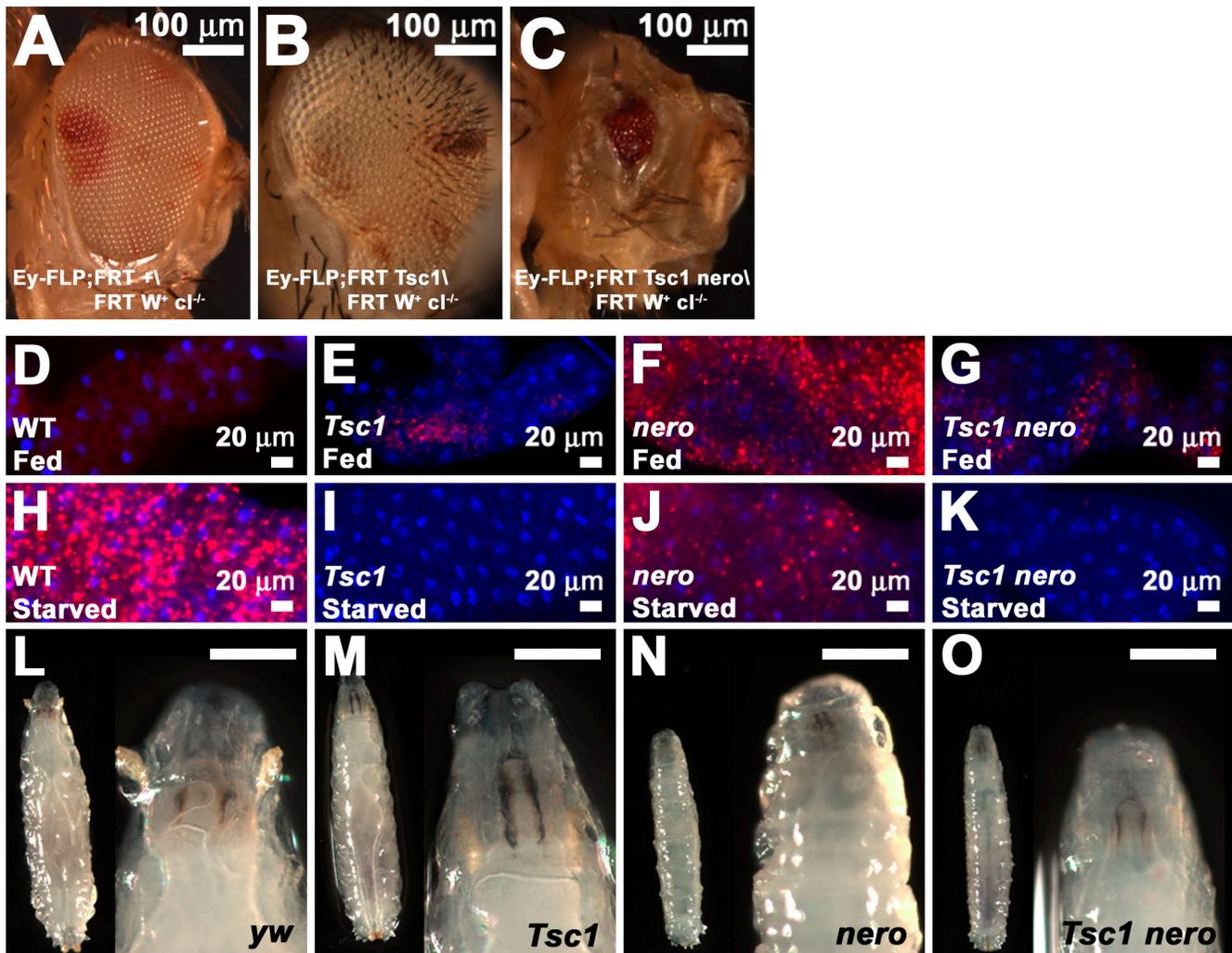
Patel et al., <http://www.jcb.org/cgi/content/full/jcb.200904161/DC1>

Figure S1. **nero and the Tor pathway.** (A) Wild-type eye (genotype: *y w eyeless-FLP GMR-lacZ/+; FRT82B +/FRT82B w⁺ l[3]c*). (B) *Tsc1* mutant eye generated using the *eyeless-FLP* system is overgrown (genotype: *y w eyeless-FLP GMR-lacZ/+; FRT82B Tsc1^{Q87X}/FRT82B w⁺ l[3]c*). (C) *Tsc1^{Q87X} nero¹* double mutant clones are irrecoverable (genotype: *y w eyeless-FLP GMR-lacZ/+; FRT82B Tsc1^{Q87X} nero¹/FRT82B w⁺ l[3]c*). (D) Fed second instar *y w* larvae lack enlarged, acidic autophagic structures, as marked by LysoTracker fluorescence. (E) *Tsc1^{Q87X}* mutant fat bodies, as in wild type, do not typically undergo autophagy except in small patches of cells in fed animals. (F) Fed *nero¹* larvae display autophagic structures despite nutrient availability. (G) *Tsc1^{Q87X} nero¹* double mutant fat bodies under fed conditions resemble *Tsc1^{Q87X} not nero¹* single mutant fat bodies under fed conditions and show no (or patchy) activation of autophagy. (H) Second instar *y w* animals subjected to a 4-h starvation period show LysoTracker-fluorescent autophagic structures. (I) Starvation fails to induce autophagy in *Tsc1^{Q87X}* mutant fat bodies; however, starvation suppresses patchy activation of autophagy. (J) Starved *nero¹* mutant fat bodies resemble fed *nero¹* mutant fat bodies. (K) Like *Tsc1^{Q87X}* mutant fat bodies, starvation fails to induce autophagy in *Tsc1^{Q87X} nero¹* double mutant fat bodies; however, starvation suppresses patchy activation of autophagy seen under fed conditions. (L) *y w* larva aged 72 h after egg hatching. (M) *Tsc1^{Q87X}* larva aged 72 h after egg hatching. The larva is the same size as *y w* but has more highly developed mouth hooks, suggesting precocious development. (N) *nero¹* larva aged 72 h after egg hatching. The larva is smaller than wild type and has much smaller mouth hooks, suggesting developmental delay. (O) *Tsc1^{Q87X} nero¹* larva aged 72 h after egg hatching. The larva is the same size as the *nero¹* mutant larva and appears similarly developmentally retarded. (L–O) A higher magnification detail of mouth hooks for each larva is shown on the right side of each panel. WT, wild type. Bars: (left) 1 mm; (right) 250 μm.