

Full Genotypes

Figure 1

- (B, D) *w/w; Ret-Gal4/UAS- UAS-Flybow 1.1; +/+*
 (C) *w/w; Ret-Gal4/UAS-StGFP; +/+*
 (E) *w, Su(H)^{GBE}-LacZ/w; esg-Gal4^{NP7397}, UAS-GFP, tub-Gal80^{TS}/+; +/+*
 (F, G) *w, Su(H)^{GBE}-LacZ/w; Ret-Gal4/UAS-StGFP; +/+*

Figure 2

- (A, C, F) Control: *w, Su(H)^{GBE}-LacZ/w; esg-Gal4^{NP7397}, UAS-GFP, tub-Gal80^{TS}/+; UAS-Dicer2/+*
Ret-RNAi: *w, Su(H)^{GBE}-LacZ/w; esg-Gal4^{NP7397}, UAS-GFP, tub-Gal80^{TS}/+; UAS-Ret^{RNAi GD843}, UAS-Dicer2/+*
 (B) Control: *w, hs-flp,tub-Gal4, UAS-GFP/w, Su(H)^{GBE}-LacZ; tub-Gal80, FRT40A/FRT40A; +/+*
Ret-RNAi MARCM: *w, hs-flp,tub-Gal4, UAS-GFP/w, Su(H)^{GBE}-LacZ; tub-Gal80, FRT40A/FRT40A; UAS-Ret^{RNAi GD843}, UAS-Dicer2/+*
Ret^{KO} MARCM: *w, hs-flp,tub-Gal4, UAS-GFP/w, Su(H)^{GBE}-LacZ; tub-Gal80, FRT40A, Ret^{KO}/FRT40A; +/+*
 (D, G) Control: *w/w; +/+; +/+*
Heterozygotes: *w/w; Ret^{KO}/+; +/+*
Mutants: *w/w; Ret^{KO}/Ret^{KO}; +/+*
 (E) Control: *w, Su(H)^{GBE}-LacZ/w; esg-Gal4^{NP7397}, UAS-GFP, tub-Gal80^{TS}/+; +/+*
UAS-Ret: *w, Su(H)^{GBE}-LacZ/w; esg-Gal4^{NP7397}, UAS-GFP, tub-Gal80^{TS}/+; UAS-Ret-3xFLAG-6xHis/+*
 (H) Control: *w, hs-flp,tub-Gal4, UAS-GFP/w, Su(H)^{GBE}-LacZ; tub-Gal80, FRT40A/FRT40A; +/+*
UAS-Ret: *w, hs-flp,tub-Gal4, UAS-GFP/w, Su(H)^{GBE}-LacZ; tub-Gal80, FRT40A/FRT40A; UAS-Ret-3xFlag-6xHis/+*

Figure 3

- (A) Control: *w, Su(H)^{GBE}-LacZ/w; esg-Gal4^{NP7397}, UAS-GFP, tub-Gal80^{TS}/+; +/+*
Mitogens:
 (upd1) *w, Su(H)^{GBE}-LacZ/w; esg-Gal4^{NP7397}, UAS-GFP, tub-Gal80^{TS}/UAS-upd1; +/+*
w, Su(H)^{GBE}-LacZ/w; esg-Gal4^{NP7397}, UAS-GFP, tub-Gal80^{TS}/UAS-upd1; UAS-Ret^{RNAi GD843}, UAS-Dicer2/+
 (ssspitz) *w, Su(H)^{GBE}-LacZ/w; esg-Gal4^{NP7397}, UAS-GFP, tub-Gal80^{TS}/+; UAS-ssspitz/+*
w, Su(H)^{GBE}-LacZ/w; esg-Gal4^{NP7397}, UAS-GFP, tub-Gal80^{TS}/+; UAS-ssspitz/UAS-Ret^{RNAi GD843}, UAS-Dicer2
 (wg) *w, Su(H)^{GBE}-LacZ/w; esg-Gal4^{NP7397}, UAS-GFP, tub-Gal80^{TS}/UAS-wg::HA; +/+*
w, Su(H)^{GBE}-LacZ/w; esg-Gal4^{NP7397}, UAS-GFP, tub-Gal80^{TS}/UAS-wg::HA; UAS-Ret^{RNAi GD843}, UAS-Dicer2/+
 (sgg^{DN}) *w, Su(H)^{GBE}-LacZ/w; esg-Gal4^{NP7397}, UAS-GFP, tub-Gal80^{TS}/+; UAS-sgg.A81T/+*
w, Su(H)^{GBE}-LacZ/w; esg-Gal4^{NP7397}, UAS-GFP, tub-Gal80^{TS}/+; UAS-sgg.A81T/UAS-Ret^{RNAi GD843}, UAS-Dicer2
 (B) Control: *w, Su(H)^{GBE}-LacZ/w; esg-Gal4^{NP7397}, UAS-GFP, tub-Gal80^{TS}/+; +/+*
UAS-Ret: *w, Su(H)^{GBE}-LacZ/w; esg-Gal4^{NP7397}, UAS-GFP, tub-Gal80^{TS}/+; UAS-Ret-3xFLAG-6xHis/+*
 (C) Control: *w, Su(H)^{GBE}-LacZ/w; esg-Gal4^{NP7397}, UAS-GFP, tub-Gal80^{TS}/+; +/+*

- UAS-Ret: w, Su(H)^{GBE}-LacZ/w; esg-Gal4^{NP7397}, UAS-GFP, tub-Gal80^{TS}/+; UAS-Ret-3xFLAG-6xHis/+
- + dsh^{DN}: w, Su(H)^{GBE}-LacZ/w; esg-Gal4^{NP7397}, UAS-GFP, tub-Gal80^{TS}/+; UAS-dshΔB212/UAS-Ret-3xFLAG-6xHis
- + pan^{DN}: w, Su(H)^{GBE}-LacZ/w; esg-Gal4^{NP7397}, UAS-GFP, tub-Gal80^{TS}/+; panDN/UAS-Ret-3xFLAG-6xHis
- (D) Control: w, Su(H)^{GBE}-LacZ/w; esg-Gal4^{NP7397}, UAS-GFP, tub-Gal80^{TS}/+; +/+
- UAS-wg: w, Su(H)^{GBE}-LacZ/w; esg-Gal4^{NP7397}, UAS-GFP, tub-Gal80^{TS}/+; UAS-wg-HA/+
- Ret-RNAi: w, Su(H)^{GBE}-LacZ/w; esg-Gal4^{NP7397}, UAS-GFP, tub-Gal80^{TS}/+; UAS-Ret^{RNAi}^{GD843}, UAS-Dicer2/+
- UAS-Ret: w, Su(H)^{GBE}-LacZ/w; esg-Gal4^{NP7397}, UAS-GFP, tub-Gal80^{TS}/+; UAS-Ret-3xFLAG-6xHis/+
- (E) Control: w; wg-Gal4^{KO}/tub-Gal80^{TS}; UAS-mCD8-GFP/+
- UAS-Ret: w; wg-Gal4^{KO}/tub-Gal80^{TS}; UAS-mCD8-GFP/UAS-Ret-3xFLAG-6xHis/+

Figure 4

- (A) UAS-Ret: w, Su(H)^{GBE}-LacZ/w; esg-Gal4^{NP7397}, UAS-GFP, tub-Gal80^{TS}/+; UAS-Ret-3xFLAG-6xHis/+
- UAS-Ret: w, Su(H)^{GBE}-LacZ/w; esg-Gal4^{NP7397}, UAS-GFP, tub-Gal80^{TS}/+; UAS-Ret^{K805M}-V5/+
- (B) Control: w, Su(H)^{GBE}-LacZ/w; esg-Gal4^{NP7397}, UAS-GFP, tub-Gal80^{TS}/+; +/+
- UAS-Ret: w, Su(H)^{GBE}-LacZ/w; esg-Gal4^{NP7397}, UAS-GFP, tub-Gal80^{TS}/+; UAS-Ret-3xFLAG-6xHis/+
- (C) Control: w, Su(H)^{GBE}-LacZ/w; esg-Gal4^{NP7397}, UAS-GFP, tub-Gal80^{TS}/+; +/+
- UAS-Ret: w, Su(H)^{GBE}-LacZ/w; esg-Gal4^{NP7397}, UAS-GFP, tub-Gal80^{TS}/+; UAS-Ret-3xFLAG-6xHis/+
- + Src42A^{RNAi}: w, Su(H)^{GBE}-LacZ/w; esg-Gal4^{NP7397}, UAS-GFP, tub-Gal80^{TS}/UAS-Src42A^{RNAi} ^{kk100708}, UAS-Ret-3xFLAG-6xHis/+
- + Src64B^{RNAi}: w, Su(H)^{GBE}-LacZ/UAS-Src64B^{RNAi} ^{GD35252}, esg-Gal4^{NP7397}, UAS-GFP, tub-Gal80^{TS}/+; UAS-Ret-3xFLAG-6xHis/+
- (D, E) Control: w, Su(H)^{GBE}-LacZ/w; esg-Gal4^{NP7397}, UAS-GFP, tub-Gal80^{TS}/+; +/+
- Src42A^{CA}: w, Su(H)^{GBE}-LacZ/w; esg-Gal4^{NP7397}, UAS-GFP, tub-Gal80^{TS}/+; UAS-Src42A^{CA}/+
- + Ret^{RNAi}: w, Su(H)^{GBE}-LacZ/w; esg-Gal4^{NP7397}, UAS-GFP, tub-Gal80^{TS}/+; UAS-Src42A^{CA}/UAS-Ret^{RNAi} ^{GD843}, UAS-Dicer2
- (F) Control: w, Su(H)^{GBE}-LacZ/w; esg-Gal4^{NP7397}, UAS-GFP, tub-Gal80^{TS}/+; +/+
- UAS-Ret: w, Su(H)^{GBE}-LacZ/w; esg-Gal4^{NP7397}, UAS-GFP, tub-Gal80^{TS}/+; UAS-Ret-3xFLAG-6xHis/+
- (G, H) UAS-Ret: w, Su(H)^{GBE}-LacZ/w; esg-Gal4^{NP7397}, UAS-GFP, tub-Gal80^{TS}/+; UAS-Ret-3xFLAG-6xHis/+
- UAS-Ret: w, Su(H)^{GBE}-LacZ/w; esg-Gal4^{NP7397}, UAS-GFP, tub-Gal80^{TS}/UAS-dFAK; UAS-Ret-3xFLAG-6xHis/+

Figure EV1

- (A) Control: w, hs-flp, tub-Gal4, UAS-GFP/w, Su(H)^{GBE}-LacZ; tub-Gal80, FRT40A/FRT40A; +/+
- Ret^{RNAi}: w, hs-flp, tub-Gal4, UAS-GFP/w, Su(H)^{GBE}-LacZ; tub-Gal80, FRT40A/FRT40A; UAS-Ret^{RNAi} ^{GD843}, UAS-Dicer2/+

- Ret^{KO}: *w, hs-flp,tub-Gal4, UAS-GFP/w, Su(H)^{GBE}-LacZ; tub-Gal80, FRT40A, Ret^{KO}/FRT40A; +/+*
- (B) Control: *w, Su(H)^{GBE}-LacZ/w; esg-Gal4^{NP7397}, UAS-GFP, tub-Gal80^{TS}/+; UAS-Dicer2/+*
Ret^{RNAi}: *w, Su(H)^{GBE}-LacZ/w; esg-Gal4^{NP7397}, UAS-GFP, tub-Gal80^{TS}/+; UAS-Ret^{RNAi GD843}, UAS-Dicer2/+*
- (C, D) Control: *w/w; +/+; +/+*
Ret^{KO}: *w/w; Ret^{KO}/Ret^{KO}; +/+*