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| Figure 1A | * *w; ptc-GAL4, tub-GAL80ts/UAS-GMA-GFP* * *w; ptc-GAL4, tub-GAL80ts/+; UAS-Ihog/+* * *w; ptc-GAL4, tub-GAL80ts/+; UAS-IhogΔFn1/+* * *w; ptc-GAL4, tub-GAL80ts/+; UAS-IhogΔFn2/+* * *w; ptc-GAL4, tub-GAL80ts/+; UAS-IhogxHep/+* |
| Figure 2 | (A) *w, hs-FLP; hs-FLP/+; actin>y+>GAL4/+; UAS-Ihog/+*  (C) *w, hs-FLP; hs-FLP/+; actin>y+>GAL4/+; UAS-IhogΔFn2/+* |
| Figure 3A | *w, hs-FLP; hs-FLP/+; actin>y+>GAL4/+; UAS-Ihog/+*  *w, hs-FLP; hs-FLP/+; actin>y+>GAL4/+; UAS-IhogΔFn1/+*  *w, hs-FLP; hs-FLP/+; actin>y+>GAL4/+; UAS-IhogΔFn2/+*  *w, hs-FLP; hs-FLP/+; actin>y+>GAL4/+; UAS-IhogxHep/+* |
| Figure 3B | *w, hs-FLP; hs-FLP/+; actin>y+>GAL4/+; UAS-Ihog/+* |
| Figure 4 | (A) *w, hs-FLP; hs-FLP/+; actin>y+>GAL4, UAS-GFP/+; UAS-Ihog/+*  (B-D) *w, hs-FLP/+; P{y[+t7.7] w[+mC]=CoinFLP-LexA::GAD.GAL4}attP40/UAS-IhogΔFn2-HA; P{w[+mC]=UAS-CD4-spGFP1-10}3, P{w[+mC]=lexAop-CD4-spGFP11}3/LexAop-Ihog-RFP* |
| Figure 5 | (G) *w; ptc-GAL4, tub-GAL80ts/+; UAS-Ihog/UAS-GPI-YFP* |
| Supplementary Figure 1 | * *w; ptc-GAL4, tub-GAL80ts/+; UAS-myr-mRFP/+* * *w; ptc-GAL4, tub-GAL80ts/+; UAS-myr-mRFP/UAS-Ihog* * *w; ptc-GAL4, tub-GAL80ts/+; UAS-myr-mRFP/UAS-Ptc* * *w; ptc-GAL4, tub-GAL80ts/+; UAS-myr-mRFP/UAS-Hh* * *w, UAS-Dally/Y; ptc-GAL4, tub-GAL80ts/+; UAS-myr-mRFP/+* * *w; ptc-GAL4, tub-GAL80ts/+; UAS-myr-mRFP/UAS-Dlp* |
| Supplementary Figure 2 | (A) *w; ptc-GAL4, tub-GAL80ts/+; Dally-YFP/+*  (B) *w; ptc-GAL4, tub-GAL80ts/+; Dally-YFP/UAS-Ihog-RFP* |
| Supplementary Figure 7 | * *w; ptc-GAL4, tub-GAL80ts/+; UAS-GPI-YFP/+* * *w; ptc-GAL4, tub-GAL80ts/+; UAS-GPI-YFP/UAS-IhogΔFn1* * *w; ptc-GAL4, tub-GAL80ts/+; UAS-GPI-YFP/UAS-IhogxHep* |
| Supplementary Figure 8 | (A*) w, boi/Y; ptc-GAL4, tub-GAL80ts/+; UAS-myr-mRFP/Tm6B*  (B*) w, boi/Y; ptc-GAL4, tub-GAL80ts/+; UAS-myr-mRFP/UAS-Ihog-RNAi* |

**Supplementary file 1. Complete list of *Drosophila melanogaster* genotypes used in this study.**

The genotype of larvae from where wing discs were collected and imaged in each figure.