Supplementary File 3. Genotypes of Flies Used for Each Figure

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| **Figure 1** | **Genotype** |
| 1 A | *w\** ; GMR-Gal4, P[w+, UAS-AcnWT] / CyO; + / + |
| 1 B | *w\** ; GMR-Gal4, P[w+, UAS-AcnWT] / +; UAS-Mts TRIP (BS 27723) / + |
| 1 C | *w\** ; GMR-Gal4, P[w+, UAS-AcnWT] / +; UAS-Pp1-13C TRIP (BS 32465) / + |
| 1 D | *w\** ; GMR-Gal4, P[w+, UAS-AcnWT] / UAS-PpD6 TRIP (BS 62849); + / + |
| 1 E | *w\** ; GMR-Gal4, P[w+, UAS-AcnWT] / +; UAS-Flw TRIP (BS 38336) / + |
| 1 F | *w\** ; GMR-Gal4, P[w+, UAS-AcnWT] / UAS-CG15035 TRIP (BS 60404); + / + |
| 1 G | *w\** ; GMR-Gal4, P[w+, UAS-AcnWT] / UAS-Nil TRIP (BS 65115); + / + |
| 1 H | *w\** ; GMR*-*Gal4 / +; *+* / + |
| 1 I | *w\** ; GMR*-*Gal4 / +; UAS-Mts TRIP (BS 27723)/ + |
| 1 J | *w\** ; GMR*-*Gal4 / +; UAS-Pp1-13C TRIP (BS 32465)/ + |
| 1 K | *w\** ; GMR*-*Gal4 / UAS-PpD6 TRIP (BS 62849); + / + |
| 1 L | *w\** ; GMR*-*Gal4 / +; UAS-Flw TRIP (BS 38336)/ + |
| 1 M | *w\** ; GMR*-*Gal4 / UAS-CG15035 TRIP (BS 60404); + / + |
| 1 N | *w\** ; GMR*-*Gal4 / UAS-Nil TRIP (BS 65115); + / + |
| 1 O | *w\** ; CyO / +; Da*-*Gal4 / + |
| 1 P | *w\** ; CyO / +; Da*-*Gal4 / UAS-Pp1-13C TRIP (BS 32465) |
| 1 Q | *w\** ; CyO / UAS-PpD6 TRIP (BS 62849); Da*-*Gal4 / + |
| 1 R | *w\** ; CyO / UAS-CG15035 TRIP (BS 60404); Da*-*Gal4 / + |
| 1 S | *w\** ; CyO / +; Da*-*Gal4 / UAS-Flw TRIP (BS 38336) |
| 1 T | *w\** ; CyO / UAS-Nil TRIP (BS 65115); Da*-*Gal4 / + |
|  |  |
| **Figure 2** | **Genotype** |
| 2 B | *w*1118 |
| 2 C | *nil*1 |
| 2 D | *w*1118 |
| 2 E | *nil*1 |
| 2 F | *w\** ; GMR*-*Gal4 / +; *+* / + |
| 2 G | *nil*1 |
| 2 H | *w\** ; GMR*-*Gal4 / UAS-NilWT-V5; *nil*1 |
| 2 I | *w\** ; GMR*-*Gal4 / UAS-hPPM1B-HA (BS 76916); *nil*1 |
| 2 J | *w\** ; GMR*-*Gal4 / UAS NilD231N-V5; *nil*1 |
| 2 K | *w\** ; +/+; *nil*Ty1-Gal4 |
| 2 L | *w\** ; YFPMYC-Rab5/+; *nil*Ty1-Gal4 /+ |
| 2 M | *w\** ; +/+; *nil*Ty1-Gal4 |
| 2 N | *w\** ; +/+; *nil*Ty1-Gal4 |
| 2 O | *w\** ; +/+; *nil*Ty1-Gal4 |
|  |  |
| **Figure 3** | **Genotype** |
| 3 A, B | *w*1118 |
|  | *nil*1 |
| 3 C | *w*1118 |
| 3 D | *nil*1 |
| 3 E | *w*1118  *nil*1 |
| 3 F | *w*1118 |
| 3 G | *nil*1 |
| 3 H | *w*1118  *nil*1 |
| 3 I | *w*1118 |
| 3 J | *nil*1 |
| 3 K | *w*1118 |
| 3 L | *nil*1 |
| 3 M | *w*1118 |
| 3 N | *nil*1 |
| 3 O | *w*1118 |
| 3 P | *nil*1 |
| 3 Q | *w*1118  *nil*1 |
| 3 R | *w*1118  *nil*1 |
|  |  |
| **Figure 4** | **Genotype** |
| 4 A | *w*1118 |
| 4 B | *nil*1 |
| 4 C | *w*1118 |
| 4 D | *nil*1 |
| 4 E | *w*1118 |
| 4 F | *nil*1 |
| 4 G | *w*1118 |
| 4 H | *p35*20C |
| 4 I | *nil*1 |
| 4 J | *p35*20C ; *nil*1 |
| 4 K-N | w\*; *acn1* /ubi-GFP *acn27* ubi-GFP; P[w+, acnP-Myc-AcnWT] 96F3 |
|  |  |
| **Figure 5** | **Genotype** |
| 5 A | *w*1118 |
| 5 B | *w*1118 |
| 5 C | *w*1118 |
| 5 D | *w*1118 |
| 5 E | w\*; *acn1* /ubi-GFP *acn27* ubi-GFP; P[w+, acnP-Myc-AcnWT] 96F3 |
| 5 F | w\*; *acn1* /ubi-GFP *acn27* ubi-GFP; P[w+, acnP-Myc-AcnS437A] 96F3 |
| 5 G | w\*; *acn1* /ubi-GFP *acn27* ubi-GFP; P[w+, acnP-Myc-AcnWT] 96F3 |
| 5 H | w\*; *acn1* /ubi-GFP *acn27* ubi-GFP; P[w+, acnP-Myc-AcnS437A] 96F3 |
| 5 I | *w*1118 |
| 5 J | w\*; *acn1* /ubi-GFP *acn27* ubi-GFP; P[w+, acnP-Myc-AcnWT] 96F3  w\*; *acn1* /ubi-GFP *acn27* ubi-GFP; P[w+, acnP-Myc-AcnS437A] 96F3 |
|  |  |
| **Figure 6** | **Genotype** |
| 6 A-C | *w*1118  *nil*1 |
| 6 D | *w\** ; GMR*-*Gal4 / +; UAS-Htt-exon1-Q93 / + |
| 6 E | *w\** ; GMR*-*Gal4 / UAS-Nil TRIP (BS 65115); UAS-Htt-exon1-Q93 / + |
| 6 F | *w\** ; GMR*-*Gal4 / UAS-hPPM1B-HA (BS 76916); UAS-Htt-exon1-Q93 / + |
| 6 G | *w\** ; GMR*-*Gal4 / +; *+* / + |
| 6 H | *w\** ; GMR*-*Gal4 / UAS-Nil TRIP (BS 65115); + / + |
| 6 I | *w\** ; GMR*-*Gal4 / UAS-hPPM1B-HA (BS 76916); + / + |
| 6 J | *w\** ; GMR*-*Gal4 / +; *+* / + |
| 6 K | *w\** ; GMR*-*Gal4 / +; UAS-Htt-exon1-Q93 / + |
| 6 L | *w\** ; GMR*-*Gal4 / UAS-Nil TRIP (BS 65115); UAS-Htt-exon1-Q93 / + |
| 6 M | *w\** ; GMR*-*Gal4 / UAS-hPPM1B-HA (BS 76916); UAS-Htt-exon1-Q93 / + |
| 6 N | *w\** ; GMR*-*Gal4 / +; *+* / + |
|  | *w\** ; GMR*-*Gal4 / +; UAS-Htt-exon1-Q93 / + |
|  | *w\** ; GMR*-*Gal4 / UAS-Nil TRIP (BS 65115); UAS-Htt-exon1-Q93 / + |
|  | *w\** ; GMR*-*Gal4 / UAS-hPPM1B-HA (BS 76916); UAS-Htt-exon1-Q93 / + |
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| **Figure 1-Fig Supplement 1** | **Genotype** |
|  | *w\** ; CyO / +; Da*-*Gal4 / +  *w\** ; CyO / +; Da*-*Gal4 / UAS-Pp1-13C TRIP (BS 32465)  *w\** ; CyO / UAS-PpD6 TRIP (BS 62849); Da*-*Gal4 / +  *w\** ; CyO / +; Da*-*Gal4 / UAS-Flw TRIP (BS 38336)  *w\** ; CyO / UAS-CG15035 TRIP (BS 60404); Da*-*Gal4 / +  *w\** ; CyO / UAS-Nil TRIP (BS 65115); Da*-*Gal4 / + |
|  |  |
| **Figure 2-Fig Supplement 1** | **Genotype** |
| 2-S1A | *w\** ; GMR-Gal4, P[w+, UAS-AcnWT] / CyO; *Sb* / + |
| 2-S1B | *w\** ; GMR-Gal4, P[w+, UAS-AcnWT] / UAS- NilWT-V5; *Sb* / + |
| 2-S1C | *w\** ; GMR-Gal4, P[w+, UAS-AcnWT] / UAS-NilD231N-V5; *Sb* / + |
| 2-S1D | *w\** ; GMR*-*Gal4 / CyO; *Sb* / + |
| 2-S1E | *w\** ; GMR*-*Gal4 / UAS-NilWT-V5; *Sb* / + |
| 2-S1F | *w\** ; GMR*-*Gal4 / UAS-NilD231N-V5; *Sb* / + |
| 2-S1G | *w\** ; GMR*-*Gal4 / CyO; *Sb* / + |
| 2-S1H | *w\** ; GMR*-*Gal4 / UAS- NilWT-V5; *Sb* / + |
| 2-S1I | *w\** ; GMR*-*Gal4 / UAS- UAS-NilD231N-V5; *Sb* / + |
|  |  |
| **Figure 2-Fig Supplement 2** | **Genotype** |
| 2-S2A | *y1w\**; PBac{y[+mDint2] w[+mC]=20XUAS-6XmCherry-HA}VK00018 / +, P{Wee-P.ph0}Bacc[Wee-P20]; + / TM6C, *Sb*, *Tb*1 |
| 2-S2B | *w\** ; +/+; *nil*Ty1-Gal4 |
| 2-S2C | *y1w\**; PBac{y[+mDint2] w[+mC]=20XUAS-6XmCherry-HA}VK00018 / +, P{Wee-P.ph0}Bacc[Wee-P20]; + / TM6C, *Sb*, *Tb*1 |
| 2-S2D | *w\** ; +/+; *nil*Ty1-Gal4 |
| 2-S2E | *w\** ; +/+; *nil*Ty1-Gal4 |
| 2-S2F | *w+* RNAi; UAS-mCD8-GFP |
| 2-S2G | *w+* RNAi/+; UAS-mCD8-GFP/ *nil*Ty1-Gal4 |
| 2-S2H | *w+* RNAi; UAS-mCD8-GFP |
| 2-S2I | *w+* RNAi/+; UAS-mCD8-GFP/ *nil*Ty1-Gal4 |
| 2-S2J | *w+* RNAi/+; UAS-mCD8-GFP/ *nil*Ty1-Gal4 |
| 2-S2K | *w+* RNAi; UAS-mCD8-GFP |
| 2-S2L | *w+* RNAi/+; UAS-mCD8-GFP/ *nil*Ty1-Gal4 |
| 2-S2M | *w+* RNAi; UAS-mCD8-GFP |
| 2-S2N | *w+* RNAi/+; UAS-mCD8-GFP/ *nil*Ty1-Gal4 |
| 2-S2O | *y1w\**; PBac{y[+mDint2] w[+mC]=20XUAS-6XmCherry-HA}VK00018 / +, P{Wee-P.ph0}Bacc[Wee-P20]; + / TM6C, *Sb*, *Tb*1  *w\** ; +/+; *nil*Ty1-Gal4 |
|  |  |
| **Figure 3-Fig Supplement 1** | **Genotype** |
| 3-S1A | *w*1118  *nil*1 |
| 3-S1B | *w*1118  *nil*1 |
|  |  |
| **Figure 5-Fig Supplement 1** | **Genotype** |
| 5-S1A | *w*1118  *w\** ; +/+; *nil*Ty1-Gal4  *w\** ; +/+; *nil*Ty1-Gal4 |
| 5-S1B | *w*1118  *w\** ; +/+; *nil*Ty1-Gal4 |
| 5-S1C | *w*1118 |
| 5-S1D | *w*1118 |
|  |  |
| **Figure 6-Fig Supplement 1** | **Genotype** |
| 6-S1A | *w*1118  *nil*1 |
| 6-S1B | *w*1118  *nil*1 |
| 6-S1C | *w*1118  *nil*1 |