

Table S1. RNAi lines, drivers and crosses used in this study.

<u>Gene</u>	<u>Sex</u>	<u>RNAi Line</u>	<u>Driver</u>	<u>Crosses used to generate flies**</u>
CG34033	M	homemade TRiP line	tubulin-GAL4	KD: RNAi x tubulin-GAL4 cont: y v 1509 x tubulin-GAL4
CG11037	M	VDRC-KK transformant 108803	ovulin-GAL4*	KD: RNAi x ovulin-GAL4 cont: AttP x ovulin-GAL4
CG11977	M	VDRC-KK transformant 100463	ovulin-GAL4*	KD: RNAi x ovulin-GAL4 cont: AttP x ovulin-GAL4
CG14034	M	VDRC-KK transformant 100114	tubulin-GAL4	KD: RNAi x tubulin-GAL4 cont: RNAi x w1118
CG14061 (aquarius)	M	homemade TRiP line	tubulin-GAL4	KD: RNAi x tubulin-GAL4 cont: y v 1509 x tubulin-GAL4
CG2975	M	VDRC-GD transformant 2601	ovulin-GAL4	KD: RNAi x ovulin-GAL4 cont: AttP x ovulin-GAL4
CG30488 (antares)	M	VDRC-KK transformant 100513	tubulin-GAL4	KD: RNAi x tubulin-GAL4 cont: AttP x tubulin-GAL4
CG42326	M	VDRC-KK transformant 104709	tubulin-GAL4	KD: RNAi x tubulin-GAL4 cont: RNAi x w1118
CG12558 (intrepid)	M	VDRC-GD transformant 14844	tubulin-GAL4	KD: RNAi x tubulin-GAL4 cont: TM3 siblings of KD cross

CG13077	F	VDRC-KK transformant 105526	tubulin-GAL4	KD: RNAi x tubulin-GAL4 cont: AttP x tubulin-GAL4
CG3097	F	homemade TRiP line	tubulin-GAL4	KD: RNAi x tubulin-GAL4 cont: y v 1509 x tubulin-GAL4
CG3239 (fra mauro)	F	TRiP line Bloom stock 34558	tubulin-GAL4	KD: RNAi x tubulin-GAL4 cont: y v 1509 x tubulin-GAL4 (also attempted KD with Send1-GAL4, but saw no phenotype)
CG6910	F	VDRC-KK transformant 103766	Send1-GAL4; UAS-Dicer2	KD: RNAi x Send1-GAL4; UAS-Dicer2 cont: AttP x Send1-GAL4; UAS-Dicer2
CG42564	M	VDRC-KK transformant 101703	ovulin-GAL4*	KD: RNAi x ovulin-GAL4 cont: AttP x ovulin-GAL4
CG8420	M	VDRC-KK transformant 104679	ovulin-GAL4*	KD: RNAi x ovulin-GAL4 cont: AttP x ovulin-GAL4
CG5630 (hadley)	F	VDRC-GD transformant 52066	tubulin-GAL4	KD: RNAi x tubulin-GAL4 cont: RNAi x w1118
SPR (control)	F	VDRC-KK transformant 106804	tubulin-GAL4	KD: RNAi x tubulin-GAL4 cont: RNAi x w1118
CG30486	M	VDRC-KK transformant 107568	tubulin-GAL4	KD: RNAi x tubulin-GAL4 cont: AttP x tubulin-GAL4
CG34295	M	VDRC-KK transformant 109546	tubulin-GAL4	KD: RNAi x tubulin-GAL4 cont: AttP x tubulin-GAL4
sda	F	VDRC-KK transformant 100215	tubulin-GAL4	KD: RNAi x tubulin-GAL4 cont: AttP x tubulin-GAL4

Esp F VDRC-GD tubulin-GAL4 KD: RNAi x tubulin-GAL4
(CG7005) transformant 9795 cont: RNAi x w1118

* knockdown with tubulin-GAL4 caused pre-adult lethality

**We used four types of controls in our experiments:

- For most experiments with VDRC lines, we crossed the RNAi line and its genetic background control to the driver line.
(The tubulin-GAL4 line had been backcrossed for 7 generations into a w1118 background that had itself
been backcrossed for 8 generations.)
- For some experiments, we crossed the RNAi line to F7 tubulin-GAL4 (for KD flies) and to F8 w1118 (for controls).
- For crosses involving a TRiP RNAi line, we crossed the RNAi line and the y v 1509 genetic background control to the driver line.
- For crosses involving intrepid, controls were flies that carried the RNAi construct but received TM3, Sb instead of tubulin-GAL4

Additionally, crosses involving the following genes (VDRC stock number) did not produce detectable knockdown:

CG16713 (105067), CG4302 (100167), CG8586 (106597), Mtp (110414), vkg (106812)