

**Supporting Table S3**

Genotype	IC Number				GC Number				n	
	IC #	SD	vs RNAi	vs GAL4	vs Sib	GC #	SD	vs RNAi	vs GAL4	
<i>Controls</i>										
<i>bab:GAL4 (bab)</i>	528.8	63.2				223.4	59.0			10
<i>tj:GAL4 (tj)</i>	466.7	124.9				140.7	23.7			10
<i>nos:GAL4 (nos)</i>	526.7	120.8				167.2	32.8			10
<i>UAS-hpo<sup>RNAi</sup></i>	477.2	123.4				218.8	40.7			10
<i>UAS-wts<sup>RNAi</sup></i>	543.6	79.0				187.9	43.8			10
<i>UAS-yki<sup>RNAi</sup> (VDRC)</i>	470.0	49.6				226.1	67.1			10
<i>UAS-ex<sup>RNAi</sup></i>	n/a					188.2	23.2			10
<i>UAS-hipk<sup>RNAi</sup></i>	n/a					228.3	26.7			10
<i>UAS-sd<sup>RNAi</sup></i>	n/a					216.4	46.2			9
<i>Experimental</i>										
<i>bab x hpo<sup>RNAi</sup></i>	625.2	157.5	0.03	0.09		298.4	44.3	<0.01	<0.01	10
<i>bab x wts<sup>RNAi</sup></i>	638.4	119.8	0.02	0.05		265.8	49.8	<0.01	0.09	10
<i>bab x yki<sup>RNAi</sup> (VDRC)</i>	266.8	74.9			<0.01	211.5	38.4			0.76
<i>bab x yki<sup>RNAi</sup> Sib</i>	462.7	41.0				207.5	17.7			10
<i>tj x hpo<sup>RNAi</sup></i>	818.2	124.5	<0.01	<0.01		267.2	24.3	<0.01	<0.01	10
<i>tj x wts<sup>RNAi</sup></i>	796.1	168.0	<0.01	<0.01		271.5	57.9	<0.01	<0.01	10
<i>tj x yki<sup>RNAi</sup> (VDRC)</i>	322.5	83.6	<0.01	<0.01		157.7	43.2	<0.01	0.28	10
<i>tj x UAS-yki</i>	1186.9	382.7			<0.01	329.5	23.7		0.047	10
<i>tj x UAS-yki Sib</i>	477.7	111.2				275.1	77.4			10
<i>tj x UAS-hpo</i>	301.6	40.8			<0.01	166.6	35.3		0.04	10
<i>tj x UAS-hpo Sib</i>	505.7	125.7				219.4	65.3			10
<i>nos x hpo<sup>RNAi</sup></i>	609.7	95.5	0.01	0.11		193.9	39.4	0.18	0.11	10
<i>nos x wts<sup>RNAi</sup></i>	573.4	123.1	0.53	0.40		202.8	36.8	0.42	0.03	10
<i>nos x yki<sup>RNAi</sup> (VDRC)</i>	477.6	86.1	0.81	0.31		136.5	33.3	<0.01	0.05	10
<i>nos x yki<sup>RNAi</sup> (TRiP)</i>	424.0	108.0			0.47	120.5	15.0		<0.01	10
<i>nos x UAS-yki</i>	495.0	108.5			<0.01	315.7	97.7		<0.01	10
<i>nos x UAS-yki Sib</i>	353.6	86.5				167.0	34.9			10
<i>nos x UAS-hpo</i>	492.5	94.4			0.53	97.9	14.2		<0.01	10
<i>nos x UAS-hpo Sib</i>	517.6	81.1				206.5	31.0			10
<i>Nos x UAS-YkiS168A</i>						/239.1	91.6	n/a	0.03	8
<i>nos x ex<sup>RNAi</sup></i>	n/a					176.1	29.8	0.32	0.53	10
<i>nos x hipk<sup>RNAi</sup></i>	n/a					181.9	37.8	<0.01		10
<i>nos x sd<sup>RNAi</sup></i>	n/a					132.1	18.8	<0.01	<0.01	10
<i>nos x hpo/wts/ex<sup>RNAi</sup></i>	n/a					237.1	41.6			10
<i>nos x hpo/wts/ex<sup>RNAi</sup> Sib</i>	n/a					239.2	33.0			9