

Table S9: Average RPKM values with associated standard error values for high and low lethality lines of *Drosophila melanogaster* as displayed in the figure 7 heatmap.

Gene	FB accession*	High lethality lines				Low lethality lines			
						Low tTA		High tTA	
		153H	195H	399H	911H	350L	492L	317L	646L
lea	FBgn0002543	5.08 ± 0.43	5.27 ± 1.15	4.99 ± 1.23	6.35 ± 0.57	5.64 ± 0.43	5.31 ± 1.14	5.58 ± 0.56	6.92 ± 0.53
shf	FBgn0003390	7.64 ± 0.77	6.57 ± 0.96	7.34 ± 0.80	10.59 ± 0.07	8.52 ± 0.91	7.19 ± 1.95	7.78 ± 0.83	9.53 ± 0.59
robo3	FBgn0041097	2.53 ± 0.40	2.41 ± 0.21	2.69 ± 0.51	3.63 ± 0.25	2.88 ± 0.20	2.28 ± 0.55	2.71 ± 0.56	3.22 ± 0.44
pbl	FBgn0003041	14.98 ± 1.70	13.22 ± 1.19	12.96 ± 4.25	14.09 ± 0.80	13.29 ± 0.47	12.11 ± 1.07	12.98 ± 1.02	36.42 ± 1.77
Nrt	FBgn0004108	12.20 ± 1.58	10.96 ± 2.31	11.60 ± 2.74	17.39 ± 0.33	12.78 ± 0.90	10.50 ± 2.70	13.21 ± 2.89	16.37 ± 1.49
Npc2a	FBgn0031381	113.08 ± 16.99	102.40 ± 20.45	110.91 ± 12.66	154.18 ± 10.24	132.46 ± 7.10	116.35 ± 21.46	105.42 ± 9.34	146.17 ± 5.80
Dscam4	FBgn0263219	1.69 ± 0.47	1.53 ± 0.24	1.41 ± 0.52	2.61 ± 0.13	1.97 ± 0.16	1.57 ± 0.49	1.89 ± 0.59	2.50 ± 0.36
Abl	FBgn0000017	7.24 ± 0.91	7.47 ± 1.40	6.99 ± 0.84	8.57 ± 0.41	7.99 ± 0.41	7.19 ± 1.41	8.63 ± 0.95	10.04 ± 0.56
tsu	FBgn0033378	43.20 ± 2.54	42.42 ± 0.72	52.01 ± 2.03	51.64 ± 0.90	51.55 ± 2.95	48.37 ± 2.75	44.77 ± 4.86	54.34 ± 2.10
CG5147	FBgn0036775	9.07 ± 0.49	7.81 ± 0.24	8.98 ± 1.16	11.08 ± 0.46	9.41 ± 0.94	9.84 ± 1.64	9.38 ± 1.26	10.23 ± 0.72
TfIIA-S	FBgn0013347	61.66 ± 4.72	62.32 ± 4.04	64.51 ± 4.32	74.61 ± 2.66	69.57 ± 2.60	66.53 ± 10.66	66.50 ± 6.79	69.83 ± 4.53
Taf10	FBgn0028398	29.77 ± 1.18	26.18 ± 1.66	35.71 ± 0.81	36.21 ± 2.79	35.17 ± 1.88	32.22 ± 1.63	29.13 ± 2.61	36.44 ± 0.94
Smn	FBgn0036641	14.70 ± 1.56	13.27 ± 1.10	15.28 ± 0.62	21.39 ± 0.58	16.89 ± 0.76	17.27 ± 3.21	16.24 ± 4.22	18.66 ± 1.49
SmD3	FBgn0023167	47.06 ± 5.10	46.60 ± 4.39	55.11 ± 3.31	59.14 ± 1.56	48.65 ± 5.19	50.31 ± 7.84	52.28 ± 5.92	55.39 ± 3.36
SmD1	FBgn0261933	26.01 ± 2.38	25.39 ± 1.86	27.91 ± 1.73	29.39 ± 1.49	27.47 ± 2.46	29.35 ± 2.10	26.49 ± 3.43	32.35 ± 1.89
Rpb5	FBgn0033571	19.17 ± 1.07	17.72 ± 1.45	20.89 ± 2.08	21.83 ± 2.06	21.31 ± 0.33	20.67 ± 1.63	18.24 ± 2.40	28.17 ± 1.20
Ref1	FBgn0010774	66.57 ± 5.48	63.26 ± 3.41	70.46 ± 3.08	76.28 ± 0.80	70.18 ± 4.44	71.04 ± 8.77	71.34 ± 6.64	77.54 ± 3.97
NHP2	FBgn0029148	31.49 ± 1.75	38.38 ± 0.61	44.45 ± 4.84	44.56 ± 2.45	40.15 ± 3.40	42.61 ± 3.26	35.45 ± 7.59	46.68 ± 1.93
hoip	FBgn0015393	47.95 ± 1.41	54.72 ± 2.33	64.70 ± 7.06	62.54 ± 5.88	57.23 ± 1.49	60.16 ± 2.24	51.26 ± 9.55	72.61 ± 2.69
CG6724	FBgn0032298	7.48 ± 0.34	7.18 ± 0.36	8.91 ± 0.76	8.67 ± 0.30	8.10 ± 0.33	8.46 ± 0.59	7.11 ± 1.52	9.64 ± 0.56
CG4038	FBgn0011824	27.92 ± 2.81	28.65 ± 1.36	36.48 ± 2.56	36.01 ± 1.79	32.72 ± 1.35	36.13 ± 0.91	29.02 ± 5.92	40.65 ± 2.57
caz	FBgn0285954	43.97 ± 4.22	41.78 ± 4.20	51.02 ± 1.28	55.36 ± 3.23	48.92 ± 3.38	50.94 ± 6.80	46.63 ± 4.30	53.94 ± 7.37
Bin1	FBgn0024491	24.15 ± 1.81	21.30 ± 2.02	25.74 ± 1.96	26.58 ± 1.44	28.09 ± 0.62	26.17 ± 2.81	26.49 ± 2.53	29.70 ± 1.42
nudE	FBgn0036059	42.01 ± 3.79	37.74 ± 2.61	29.75 ± 0.87	34.42 ± 1.37	38.82 ± 0.60	32.11 ± 3.99	37.06 ± 1.10	29.35 ± 3.82
l(2)gl	FBgn0002121	52.03 ± 5.10	48.69 ± 4.79	35.50 ± 3.37	38.10 ± 2.07	39.22 ± 3.76	38.04 ± 2.64	45.92 ± 1.64	34.08 ± 2.77
gcl	FBgn0005695	9.43 ± 1.20	7.56 ± 0.71	7.07 ± 0.91	6.83 ± 0.30	8.70 ± 0.77	7.03 ± 0.70	9.30 ± 0.30	7.39 ± 0.75
egl	FBgn0000562	22.28 ± 1.68	19.37 ± 1.76	18.81 ± 1.30	17.27 ± 0.42	20.71 ± 0.55	17.80 ± 0.96	20.35 ± 0.70	16.37 ± 0.73
AGO2	FBgn0087035	60.65 ± 6.62	61.60 ± 7.02	54.52 ± 3.02	49.18 ± 2.47	64.57 ± 1.27	57.14 ± 7.64	51.97 ± 1.97	51.05 ± 4.84
Tob	FBgn0028397	4.60 ± 0.56	7.14 ± 0.30	3.57 ± 0.33	3.86 ± 0.36	3.65 ± 0.52	3.13 ± 0.55	3.92 ± 0.42	2.52 ± 0.21
NtR	FBgn0029147	9.26 ± 0.81	8.94 ± 0.78	6.94 ± 0.60	6.18 ± 1.63	7.55 ± 1.84	5.66 ± 1.25	6.69 ± 0.58	4.24 ± 1.90
Npc1b	FBgn0261675	3.83 ± 1.03	5.54 ± 2.31	4.12 ± 0.46	1.55 ± 2.20	4.49 ± 1.02	3.22 ± 1.16	3.66 ± 0.43	2.25 ± 1.11
Neurochondrin	FBgn0037447	100.28 ± 7.31	86.92 ± 6.36	82.48 ± 4.15	75.47 ± 0.40	93.20 ± 4.23	87.41 ± 6.82	83.02 ± 4.13	76.46 ± 2.72
mew	FBgn0004456	11.06 ± 1.15	12.97 ± 1.52	10.27 ± 0.45	9.61 ± 0.09	12.02 ± 0.57	10.53 ± 0.61	11.72 ± 0.45	9.54 ± 0.84
Klp64D	FBgn0004380	13.33 ± 0.92	12.25 ± 0.48	12.33 ± 0.53	12.39 ± 0.48	14.90 ± 0.66	12.79 ± 1.32	13.59 ± 0.53	10.45 ± 1.40
ine	FBgn0011603	19.13 ± 2.23	18.23 ± 4.27	13.66 ± 1.46	12.37 ± 2.09	15.73 ± 1.76	14.78 ± 3.31	16.49 ± 2.15	10.31 ± 1.17
dia	FBgn0011202	19.91 ± 1.54	18.05 ± 1.57	13.93 ± 1.82	14.66 ± 0.72	16.30 ± 1.06	15.00 ± 0.93	17.34 ± 0.70	13.99 ± 1.13
ck	FBgn0000317	5.31 ± 0.17	5.89 ± 0.49	5.20 ± 0.71	4.16 ± 0.31	5.02 ± 0.30	5.12 ± 0.25	6.40 ± 0.22	5.11 ± 0.14
chico	FBgn0024248	14.58 ± 2.55	12.91 ± 1.81	10.93 ± 0.88	12.25 ± 0.35	13.56 ± 0.79	10.70 ± 0.98	13.77 ± 0.47	10.22 ± 0.76
CG8086	FBgn0032010	13.23 ± 1.70	12.23 ± 0.96	12.60 ± 0.53	9.59 ± 0.73	14.12 ± 1.19	13.53 ± 0.98	11.71 ± 0.74	10.33 ± 0.44
CG15254	FBgn0028949	30.86 ± 10.88	17.20 ± 8.18	34.02 ± 0.78	9.41 ± 10.74	38.55 ± 10.65	5.46 ± 2.07	39.55 ± 2.28	6.56 ± 4.04
CAP	FBgn0033504	63.64 ± 4.34	72.10 ± 8.65	62.80 ± 4.92	57.84 ± 1.38	69.05 ± 2.31	55.41 ± 4.23	66.68 ± 2.54	50.96 ± 3.55
aru	FBgn0029095	14.34 ± 1.72	11.58 ± 1.24	11.17 ± 0.69	10.52 ± 1.16	14.61 ± 0.82	11.19 ± 0.99	13.47 ± 0.48	10.72 ± 1.39

*Flybase *Drosophila melanogaster* Canton-S genome version dm6.15_FB2017_02