

Table S7: Expression levels of genes identified as upregulated in DGRP lines crossed to the FL3#2 tTA overexpressing line that had high lethality when compared to DGRP lines crossed to the FL3#2 tTA overexpressing line that had low lethality, and also when compared to the DGRP lines crossed to the FL3#2 tTA overexpressing line that had low lethality when separated into two groups: those with higher expression levels of tTA, and those with lower expression levels of tTAV

GENE*	ALL low [†]	Low tTA [‡]	High tTA ^{**}	153H ^{††}	195H	399H	911H	350L	492L	317L	646L
FBgn0003463	+	+	+	13.14±1.61	12.46±2.12	12.32±0.32	12.98±1.16	9.54±0.35	9.91±1.03	9.46±0.43	10.85±0.81
FBgn0005695	+	+	+	9.43±1.20	7.56±0.71	9.30±0.77	8.70±0.75	7.07±0.30	7.03±0.70	7.39±0.91	6.83±0.30
FBgn0015277	+	+	+	6.03±0.66	6.09±0.64	6.19±0.13	5.99±0.51	4.47±0.27	4.93±0.82	4.83±0.37	5.60±0.14
FBgn0015600	+	+	+	13.34±0.82	21.68±3.03	18.86±1.30	12.60±1.16	10.59±0.56	11.08±0.92	8.89±0.51	12.15±0.78
FBgn0023520	+	+	+	6.92±1.08	8.87±1.35	15.60±0.59	4.66±0.12	4.23±0.16	5.48±0.86	5.27±0.54	5.91±0.79
FBgn0024248	+	+	+	14.58±2.55	12.91±1.81	13.77±0.79	13.56±0.76	10.93±0.35	10.70±0.98	10.22±0.88	12.25±0.47
FBgn0024329	+	+	+	13.52±1.35	13.33±1.70	15.54±0.76	14.79±0.75	10.74±0.44	11.06±1.45	11.16±0.68	11.97±0.57
FBgn0029006	+	+	+	12.96±1.54	13.05±1.17	13.58±0.35	41.44±1.01	10.26±0.45	10.86±1.49	11.75±1.59	11.90±0.46
FBgn0030576	+	+	+	5.71±1.20	5.50±0.79	6.70±1.23	5.83±0.93	3.65±0.45	4.29±0.72	4.56±0.76	4.31±0.17
FBgn0032079	+	+	+	6.84±3.07	8.02±2.43	6.70±1.80	6.50±0.93	3.08±0.56	3.27±0.44	3.31±0.44	4.84±0.61
FBgn0034447	+	+	+	3.61±0.15	3.95±0.51	4.87±0.15	64.73±4.12	4.35±0.47	3.52±0.02	4.44±0.68	4.43±0.27
FBgn0034480	+	+	+	16.44±4.67	22.61±5.06	8.15±2.84	17.76±3.81	7.49±1.77	5.58±1.49	3.81±1.56	8.29±1.54
FBgn0035877	+	+	+	20.90±5.01	18.42±3.79	21.80±1.16	21.79±2.11	13.06±1.44	16.78±2.76	16.74±1.30	12.83±1.09
FBgn0036059	+	+	+	42.01±3.79	37.74±2.61	37.06±0.60	38.82±3.82	29.75±1.37	32.11±3.99	29.35±0.87	34.42±1.10
FBgn0036152	+	+	+	15.31±1.85	9.80±1.76	9.43±1.04	10.42±0.74	7.52±0.45	7.59±0.17	7.99±0.82	7.91±0.49
FBgn0037445	+	+	+	9.24±1.44	8.06±0.71	9.06±0.54	8.42±0.51	6.53±0.15	6.75±0.96	6.88±0.65	7.76±0.26
FBgn0038842	+	+	+	69.92±1.39	66.55±2.19	72.19±1.28	65.86±6.05	53.91±0.06	56.08±4.66	52.94±1.87	58.75±1.26
FBgn0039728	+	+	+	6.69±0.88	5.39±1.23	6.10±0.53	7.10±0.51	4.42±0.22	4.86±0.15	4.62±0.56	4.60±0.49
FBgn0050460	+	+	+	8.38±0.35	6.76±0.88	8.26±0.99	6.88±0.57	5.67±0.14	6.17±0.57	5.63±0.25	6.13±0.25
FBgn0051729	+	+	+	29.69±3.87	28.17±3.04	30.01±1.34	27.67±1.28	21.74±0.82	24.28±1.25	23.73±2.06	24.34±1.87
FBgn0260866	+	+	+	16.27±3.35	12.28±1.69	13.41±2.20	16.99±1.10	9.13±1.21	9.72±1.24	8.36±1.14	11.83±0.92
FBgn0261862	+	+	+	85.63±18.16	94.11±9.33	86.43±10.76	87.54±1.92	65.83±6.58	64.09±6.37	63.78±4.26	73.44±7.38
FBgn0264907	+	+	+	6.53±1.17	7.47±1.02	8.09±1.11	5.96±0.32	5.06±0.51	4.17±0.22	5.16±0.65	4.42±0.12
FBgn0265512	+	+	+	22.25±5.93	16.85±2.90	24.41±1.34	20.08±1.71	11.43±2.13	12.70±2.48	17.23±4.00	12.77±2.35
FBgn0265959	+	+	+	4.24±0.97	3.92±0.52	17.55±1.41	4.30±0.53	3.00±0.21	3.41±0.70	2.86±0.13	4.07±0.34
FBgn9999999	+	+	+	801.20±142.70	763.86±82.39	970.68±98.62	872.74±80.46	398.12±33.64	336.78±88.35	501.14±93.60	674.13±80.47
FBgn0000370	+	+		487.76±17.21	429.57±10.27	470.24±12.90	436.67±26.34	371.91±9.95	352.33±31.21	381.45±11.67	446.40±10.28
FBgn0000414	+	+		8.01±0.79	7.85±0.87	7.66±0.38	8.37±0.70	6.25±0.19	5.87±1.02	6.73±0.63	7.96±0.52
FBgn0000536	+	+		17.22±3.11	17.55±2.81	19.07±2.29	18.01±1.75	13.40±0.71	13.07±2.36	16.25±1.97	14.77±0.52
FBgn0003169	+	+		19.65±3.01	16.82±1.09	19.58±1.10	17.29±1.94	15.08±0.64	14.87±1.93	16.66±1.47	16.30±0.55
FBgn0004133	+	+		16.12±2.08	29.71±2.85	15.58±1.15	15.91±1.22	12.63±0.40	14.15±2.35	15.04±1.53	15.79±1.99
FBgn0004395	+	+		14.40±2.66	13.12±2.46	14.92±1.17	14.66±0.97	10.05±0.43	11.93±2.51	12.13±1.13	12.62±1.05
FBgn0004509	+	+		17.90±3.35	15.63±1.32	15.52±1.30	15.59±0.36	12.57±0.53	13.35±1.60	15.50±1.37	13.92±0.44
FBgn0004910	+	+		39.65±9.08	42.84±8.85	30.90±0.69	37.64±3.26	25.06±3.57	26.63±2.45	31.00±3.53	33.75±1.48
FBgn0015011	+	+		32.70±6.63	39.34±4.62	35.39±6.04	31.64±3.97	20.13±0.92	26.71±7.25	27.69±4.94	24.69±3.24
FBgn0015295	+	+		7.42±0.60	6.99±0.52	7.92±0.26	6.75±0.53	5.67±0.29	5.97±0.60	6.74±0.71	6.36±0.26
FBgn0015513	+	+		9.68±1.24	9.54±1.10	9.27±0.54	9.06±0.20	7.33±0.27	6.74±0.79	7.84±0.88	8.21±0.19

FBgn0015589	+	+		7.75±0.97	7.49±0.82	7.99±0.42	7.63±0.33	6.43±0.36	6.09±0.58	7.06±0.77	6.67±0.54
FBgn0015714	+	+		36.64±5.05	28.84±0.33	24.39±3.40	23.68±2.00	7.33±1.64	20.56±2.07	26.04±6.46	20.84±1.40
FBgn0015793	+	+		15.89±1.88	16.00±1.28	14.76±0.12	14.98±0.31	12.74±0.47	12.18±2.07	13.17±1.03	13.42±0.92
FBgn0016081	+	+		10.59±1.35	10.35±1.19	9.02±0.34	8.33±0.34	7.34±0.15	7.43±1.15	8.73±0.89	8.91±0.27
FBgn0025681	+	+		15.37±1.07	14.76±0.91	15.84±0.47	14.76±0.90	11.94±0.45	12.74±1.07	13.56±1.16	13.85±0.62
FBgn0026323	+	+		23.78±4.34	21.99±3.50	23.48±1.33	20.88±1.29	16.64±1.00	17.86±2.31	17.86±1.17	21.60±1.21
FBgn0027529	+	+		22.83±1.92	22.89±2.05	23.12±0.40	21.84±1.73	17.59±1.07	18.95±2.63	21.60±1.98	20.20±1.28
FBgn0027601	+	+		140.34±31.44	120.41±7.00	125.17±17.28	135.91±0.93	85.67±9.23	90.21±27.05	104.42±8.47	108.39±17.87
FBgn0029881	+	+		6.36±0.86	5.78±0.48	13.78±1.40	5.42±0.74	5.02±0.19	4.77±0.38	5.29±0.30	5.21±0.18
FBgn0030286	+	+		7.08±1.01	7.01±0.94	6.53±0.44	6.45±0.36	5.38±0.51	5.10±0.67	5.56±0.79	6.28±0.51
FBgn0030808	+	+		7.69±1.16	8.32±1.04	7.26±0.56	7.35±0.24	5.44±0.23	6.08±0.60	6.87±0.74	6.81±0.93
FBgn0030960	+	+		11.43±2.14	9.46±1.15	10.56±0.67	9.76±0.43	7.51±0.36	6.86±1.02	9.24±2.10	10.00±0.90
FBgn0031011	+	+		24.66±4.20	27.87±3.14	25.65±2.76	22.55±1.94	16.93±0.98	16.77±1.94	19.81±2.99	22.99±0.45
FBgn0031249	+	+		646.74±69.66	643.51±178.74	678.99±266.82	245.87±100.84	205.76±60.36	124.39±30.45	423.76±210.63	405.50±42.93
FBgn0031374	+	+		15.24±1.93	14.58±1.30	13.83±0.77	14.55±0.39	10.52±0.86	12.34±0.43	12.95±0.86	12.39±1.30
FBgn0031514	+	+		8.75±0.84	13.41±4.98	6.11±0.33	5.50±0.93	4.33±0.64	4.48±0.40	6.88±1.86	5.67±0.19
FBgn0031695	+	+		13.31±3.37	14.34±4.56	11.58±1.16	7.71±0.27	6.05±1.01	6.20±0.87	6.43±2.23	10.02±0.45
FBgn0031882	+	+		8.87±0.77	9.79±0.97	9.30±0.26	8.86±0.45	6.99±0.18	7.80±0.76	8.10±1.12	8.09±0.67
FBgn0031971	+	+		507.96±84.16	324.78±79.49	402.43±81.80	406.96±29.49	270.85±60.00	231.60±9.22	239.03±71.23	362.27±11.59
FBgn0032006	+	+		20.31±3.68	21.92±3.72	18.03±1.41	17.60±0.21	13.58±1.80	13.78±0.88	16.08±1.65	15.53±2.43
FBgn0032850	+	+		12.62±1.70	16.25±7.22	10.29±1.64	6.74±0.82	5.70±1.44	3.76±0.62	4.99±1.68	8.92±1.21
FBgn0032938	+	+		18.76±3.76	19.21±2.44	16.64±0.64	15.95±0.63	13.42±0.35	13.71±2.27	16.22±2.17	16.36±1.05
FBgn0033205	+	+		7.59±0.71	28.51±5.08	20.37±2.11	17.99±1.28	7.58±1.11	6.90±1.04	18.71±2.65	10.83±1.98
FBgn0034140	+	+		243.91±61.03	214.48±22.58	179.77±9.10	235.39±18.13	79.00±5.65	188.82±63.06	142.12±9.26	180.69±25.17
FBgn0034894	+	+		18.73±4.81	19.88±3.88	19.43±2.23	16.81±1.21	11.02±1.81	13.69±1.61	15.57±3.98	14.09±1.61
FBgn0035154	+	+		52.34±7.86	47.27±1.98	19.05±5.18	20.11±3.34	13.71±2.49	20.92±4.15	24.13±2.64	27.43±8.29
FBgn0035236	+	+		42.04±6.22	41.77±3.89	42.85±3.68	39.91±2.52	29.11±1.78	33.33±3.15	38.65±5.86	33.77±1.96
FBgn0035346	+	+		16.72±2.62	16.17±2.22	18.53±1.83	14.35±0.45	11.51±1.88	12.52±0.84	14.06±1.83	11.81±0.63
FBgn0035896	+	+		14.17±1.29	16.02±1.98	14.93±1.07	11.86±0.34	10.23±0.46	10.38±0.90	13.56±2.28	12.83±0.71
FBgn0035975	+	+		17.93±3.71	19.59±3.37	15.06±1.19	15.26±1.03	11.56±1.07	11.94±1.24	15.14±3.11	12.81±2.66
FBgn0036007	+	+		64.16±13.96	71.57±13.96	78.35±13.97	71.27±7.24	49.13±8.51	35.45±2.69	53.39±7.76	56.90±1.70
FBgn0036024	+	+		1971.49±310.41	1022.06±143.10	1688.41±525.12	1273.65±405.61	846.03±159.70	607.81±248.80	1238.05±161.64	809.53±271.76
FBgn0036257	+	+		44.89±8.46	34.88±5.28	44.08±0.64	38.25±2.39	30.70±2.07	31.03±4.20	35.42±3.52	35.93±1.81
FBgn0036309	+	+		10.68±2.11	11.31±2.06	10.66±0.57	9.24±0.54	7.36±0.69	7.79±0.67	7.60±1.25	9.15±0.29
FBgn0038100	+	+		103.24±33.13	123.07±21.76	114.98±8.75	93.84±4.81	60.22±13.12	72.77±9.74	84.09±9.96	71.85±12.11
FBgn0038237	+	+		4.67±0.46	3.64±0.48	5.10±0.50	4.19±0.60	2.74±0.26	3.13±0.17	2.93±0.10	3.61±0.56
FBgn0038331	+	+		28.52±2.74	26.54±1.50	27.88±1.40	24.15±2.22	22.27±1.42	19.99±1.96	21.52±1.22	24.58±0.53
FBgn0038381	+	+		15.34±1.10	13.80±0.75	13.17±0.45	15.30±1.82	10.38±0.23	11.27±1.00	10.71±0.44	13.63±1.64
FBgn0038638	+	+		19.19±4.00	23.84±6.41	21.00±0.87	17.13±1.59	13.36±1.64	13.08±1.45	16.88±3.30	17.33±2.63
FBgn0038889	+	+		4.89±0.71	4.01±0.31	4.03±0.27	3.38±0.41	3.30±0.18	2.71±0.39	3.44±0.38	3.59±0.18
FBgn0039137	+	+		6.64±0.76	7.06±0.58	6.54±0.18	6.46±0.73	4.91±0.22	5.56±0.67	5.79±0.65	6.41±0.68
FBgn0040068	+	+		7.54±0.44	6.65±0.47	44.27±7.72	7.16±0.40	6.45±0.17	6.84±0.78	6.99±0.73	7.64±0.47
FBgn0050183	+	+		7.50±0.37	6.84±0.28	7.77±0.52	8.18±0.93	5.66±0.40	5.42±1.17	5.90±0.50	7.57±1.05
FBgn0050456	+	+		9.54±1.45	12.72±2.39	8.76±0.67	7.84±0.82	6.06±0.71	6.33±0.91	8.00±1.38	7.78±0.96
FBgn0051523	+	+		47.29±9.18	53.59±7.69	50.84±2.97	41.78±3.27	33.97±4.24	33.84±3.88	43.72±6.57	41.38±5.29

FBgn0051635	+	+		8.02±1.03	8.16±1.37	7.06±0.63	7.67±0.17	5.96±0.19	5.81±0.22	6.76±0.51	6.58±0.46
FBgn0259236	+	+		16.99±3.72	16.70±3.27	16.34±2.04	12.59±1.22	10.84±1.03	10.73±1.55	13.63±2.22	11.33±0.86
FBgn0259824	+	+		12.87±1.46	11.47±1.09	12.85±0.26	11.97±0.58	9.70±0.64	9.80±0.77	11.74±1.62	11.20±0.52
FBgn0259998	+	+		716.36±100.90	576.40±159.67	576.27±168.82	252.01±84.49	302.26±74.56	130.19±10.89	313.50±78.01	436.64±61.14
FBgn0260632	+	+		28.36±6.24	27.43±5.94	25.70±2.80	25.92±1.86	20.31±2.00	19.39±2.22	20.13±2.66	22.58±1.29
FBgn0261802	+	+		23.84±3.25	23.21±1.51	22.20±1.23	22.90±1.99	18.37±0.36	17.66±2.74	20.60±2.21	21.75±1.15
FBgn0261822	+	+		161.47±25.96	165.07±11.23	162.90±6.70	155.66±3.82	122.12±6.01	128.90±11.64	143.37±12.88	143.41±5.79
FBgn0262475	+	+		15.30±2.26	16.23±1.67	15.00±0.19	13.77±1.09	11.59±0.24	11.52±0.46	13.08±1.86	12.66±0.23
FBgn0262562	+	+		3.85±0.58	4.26±0.80	3.41±0.26	3.66±0.41	2.52±0.28	2.89±0.45	2.82±0.05	3.38±0.15
FBgn0265988	+	+		9.04±1.75	6.69±1.48	7.77±0.92	8.02±0.40	5.46±0.23	5.70±1.42	5.78±0.33	6.60±0.49
FBgn0266719	+	+		18.41±1.00	17.57±0.95	19.09±0.81	18.99±1.53	14.36±0.71	16.02±1.99	15.41±1.04	18.48±0.25
FBgn9999990	+	+		7.95±1.13	8.27±0.90	9.76±0.87	9.04±0.57	4.68±0.16	3.74±0.58	6.48±1.84	8.56±0.77
FBgn0000562	+		+	22.28±1.68	19.37±1.76	20.35±0.55	20.71±0.73	18.81±0.42	17.80±0.96	16.37±1.30	17.27±0.70
FBgn0002121	+		+	52.03±5.10	48.69±4.79	45.92±3.76	39.22±2.77	35.50±2.07	38.04±2.64	34.08±3.37	38.10±1.64
FBgn0004456	+		+	11.06±1.15	12.97±1.52	11.72±0.57	12.02±0.84	10.27±0.09	10.53±0.61	9.54±0.45	9.61±0.45
FBgn0011202	+		+	19.91±1.54	18.05±1.57	17.34±1.06	16.30±1.13	13.93±0.72	15.00±0.93	13.99±1.82	14.66±0.70
FBgn0016684	+		+	38.00±5.46	38.58±8.80	28.55±0.83	33.96±1.07	31.51±4.60	25.39±2.22	23.43±2.43	23.09±2.09
FBgn0022709	+		+	99.78±25.14	120.96±31.13	55.77±6.22	82.51±7.81	61.21±20.95	56.30±9.05	48.24±6.92	52.26±10.88
FBgn0027596	+		+	26.30±2.87	30.67±5.90	29.11±1.54	30.56±2.02	24.09±1.55	23.33±1.36	21.17±1.56	23.59±1.23
FBgn0028397	+		+	4.60±0.56	7.14±0.30	3.92±0.52	3.65±0.21	3.57±0.36	3.13±0.55	2.52±0.33	3.86±0.42
FBgn0028949	+		+	30.86±10.88	17.20±8.18	39.55±10.65	38.55±4.04	34.02±10.74	5.46±2.07	6.56±0.78	9.41±2.28
FBgn0029095	+		+	14.34±1.72	11.58±1.24	13.47±0.82	14.61±1.39	11.17±1.16	11.19±0.99	10.72±0.69	10.52±0.48
FBgn0032156	+		+	55.85±3.54	57.89±13.96	54.76±5.54	55.09±3.78	45.10±3.70	43.12±3.37	35.53±2.47	45.64±2.74
FBgn0032339	+		+	6.76±1.02	5.03±0.67	5.67±0.11	5.54±0.49	4.41±0.06	4.99±1.10	4.77±0.16	4.65±0.33
FBgn0032883	+		+	5.96±0.44	5.75±0.36	6.51±0.18	6.28±0.36	5.17±0.18	5.64±0.74	4.28±0.64	5.64±0.20
FBgn0034113	+		+	3.86±0.41	3.20±0.40	3.77±0.18	3.49±0.23	3.20±0.14	2.92±0.40	3.03±0.17	3.22±0.21
FBgn0034354	+		+	33.81±3.17	53.60±2.97	46.50±2.80	55.80±3.02	39.00±2.34	28.64±1.72	26.83±1.97	35.27±1.32
FBgn0036684	+		+	14.21±1.72	13.28±1.99	15.44±1.36	13.32±0.90	10.08±0.96	11.83±1.06	10.17±1.47	12.54±0.66
FBgn0037638	+		+	12.21±0.91	11.88±0.47	12.79±0.26	11.66±0.44	10.82±0.48	10.58±0.70	11.12±0.87	10.07±0.70
FBgn0038854	+		+	9.89±0.65	8.81±1.09	9.29±0.62	8.94±0.55	7.68±0.24	8.33±0.86	8.29±0.52	7.86±0.37
FBgn0039081	+		+	34.23±2.66	30.84±6.08	27.12±3.61	26.99±2.58	24.79±4.17	21.80±2.23	18.13±2.48	19.58±4.28
FBgn0039486	+		+	28.83±2.18	37.28±17.08	24.13±2.78	28.61±3.00	24.42±2.26	21.32±6.49	17.09±3.92	13.21±2.49
FBgn0051028	+		+	4.40±0.17	3.25±0.56	3.70±0.13	4.09±0.51	2.98±0.17	3.41±0.30	2.91±0.18	2.96±0.50
FBgn0052170	+		+	8.93±1.38	8.54±0.34	7.29±1.68	8.18±0.44	6.67±1.34	6.17±0.21	5.41±0.81	5.25±0.36
FBgn0053301	+		+	44.84±6.38	63.41±8.58	44.98±3.92	43.01±4.22	30.62±2.62	28.40±4.12	20.79±6.81	24.70±5.19
FBgn0053556	+		+	5.80±0.64	4.45±0.48	4.73±0.59	5.00±0.37	4.26±0.52	4.24±0.16	3.87±0.38	3.57±0.32
FBgn0261859	+		+	4.14±0.44	4.21±0.50	3.80±0.37	3.83±0.31	3.26±0.42	3.35±0.36	2.95±0.22	3.10±0.26
FBgn0262515	+		+	215.43±9.55	230.74±26.69	206.29±3.79	188.68±2.16	175.33±20.09	179.30±5.58	158.72±15.86	163.65±4.91
FBgn0266448	+		+	164.15±15.20	153.64±15.71	180.25±19.04	136.59±12.26	127.55±21.50	106.27±4.85	91.78±8.18	127.34±19.45
FBgn0000247	+			6.61±0.50	9.20±0.42	6.62±0.18	6.45±0.35	5.85±0.33	5.83±0.59	5.90±0.43	6.42±0.48
FBgn0000376	+			7.69±1.11	4.06±0.55	4.44±0.16	4.69±0.40	3.51±0.03	4.22±0.86	3.69±0.22	4.28±0.22
FBgn0003159	+			16.07±1.74	17.36±2.31	16.82±0.47	14.70±1.87	12.67±1.43	12.86±0.39	13.45±1.16	12.64±1.49
FBgn0003388	+			39.63±7.91	30.59±3.99	40.31±1.20	33.55±1.83	28.28±2.98	28.49±5.41	26.51±1.17	33.02±0.86
FBgn0003416	+			4.16±0.32	4.31±0.24	4.56±0.27	3.89±0.17	3.27±0.08	3.69±0.74	3.78±0.70	3.58±0.01
FBgn0015803	+			14.53±2.22	15.97±2.18	16.90±0.99	13.97±0.66	11.62±0.76	13.37±1.63	12.32±1.88	13.54±1.32

FBgn0016917	+			76.95±14.56	70.69±6.04	75.24±8.68	71.37±6.11	60.17±0.46	55.92±6.66	61.34±1.21	59.97±4.36
FBgn0021847	+			6.39±0.58	6.45±0.72	19.27±1.40	6.27±0.80	5.63±0.23	6.13±0.50	5.88±0.60	6.16±0.44
FBgn0022800	+			8.55±1.27	7.07±1.25	9.19±0.77	8.98±0.95	6.37±0.28	6.78±0.70	6.94±0.87	7.09±0.91
FBgn0023540	+			21.52±5.27	22.82±4.67	26.54±2.68	27.53±3.26	17.26±0.32	17.90±3.69	15.95±1.44	21.80±2.66
FBgn0024150	+			4.28±1.16	3.75±0.20	3.59±0.63	4.47±0.10	2.90±0.53	2.81±0.17	2.90±0.25	3.32±0.32
FBgn0027836	+			19.17±1.65	16.64±3.88	62.72±34.67	32.24±5.72	21.13±1.26	16.68±1.28	16.27±1.15	16.82±1.68
FBgn0028490	+			90.90±4.37	78.84±6.08	81.72±6.43	84.93±5.87	65.38±1.00	72.45±10.51	64.86±4.02	74.09±2.30
FBgn0029689	+			6.58±0.53	7.90±0.36	8.24±1.75	7.94±0.58	5.43±0.70	6.04±0.36	5.48±1.14	5.63±1.05
FBgn0029762	+			25.17±6.23	51.29±32.81	36.00±4.49	36.46±2.34	25.83±7.50	14.06±0.33	16.91±3.34	27.37±1.55
FBgn0029891	+			43.93±3.29	37.69±3.05	42.65±1.23	41.65±5.94	32.02±2.73	32.99±6.23	30.87±1.82	39.69±2.72
FBgn0030102	+			32.15±5.18	43.24±8.87	41.29±7.98	38.02±4.13	28.13±0.84	27.90±2.19	32.62±8.14	23.42±4.10
FBgn0030735	+			17.99±2.47	15.11±2.44	18.17±0.50	16.07±1.02	13.35±0.15	13.59±2.55	13.81±1.26	15.32±0.24
FBgn0030798	+			4.25±1.17	2.90±1.23	4.95±1.02	3.54±0.79	2.42±0.24	2.92±0.76	2.15±0.12	2.64±0.20
FBgn0031399	+			10.39±1.16	9.04±1.08	9.87±0.59	9.37±1.20	7.44±0.57	8.37±1.45	7.72±0.49	8.52±0.34
FBgn0032435	+			19.57±3.65	18.92±9.09	11.90±2.64	8.79±1.05	8.72±1.85	6.95±1.30	8.75±2.76	10.28±0.91
FBgn0033494	+			9.42±0.76	11.17±1.47	53.93±1.83	10.85±0.73	10.16±1.05	9.43±1.10	10.08±0.23	10.62±0.32
FBgn0033744	+			6.61±0.96	6.70±1.55	8.12±0.47	8.79±0.53	6.27±0.55	5.19±0.81	4.67±0.61	6.69±0.36
FBgn0034052	+			227.58±16.34	306.15±131.60	259.16±28.14	303.10±20.63	223.93±43.68	126.48±9.32	162.94±9.45	191.89±33.56
FBgn0034083	+			12.40±1.93	13.39±1.90	14.83±0.83	11.64±0.71	9.86±0.43	10.53±1.41	10.28±1.16	12.53±0.82
FBgn0035137	+			8.49±0.98	8.13±0.73	8.15±0.33	7.44±0.49	6.27±0.32	6.82±1.24	6.85±0.78	7.52±0.25
FBgn0035321	+			40.80±2.28	41.87±2.33	41.85±1.48	40.75±3.63	31.87±1.19	36.18±1.33	37.06±1.40	34.83±0.28
FBgn0036321	+			65.90±26.50	137.27±105.12	38.28±7.41	43.79±7.68	37.73±17.19	22.89±7.35	22.98±8.47	33.90±8.86
FBgn0036461	+			19.16±3.07	22.47±2.54	21.33±0.87	22.32±2.05	17.95±0.70	17.97±3.05	17.98±1.14	17.33±0.48
FBgn0036556	+			23.13±1.80	20.85±1.58	24.15±0.27	22.04±0.69	19.09±0.26	19.31±2.01	16.90±1.72	21.69±1.03
FBgn0036735	+			11.34±1.73	9.65±1.05	11.18±0.24	10.44±0.84	7.94±0.45	9.52±1.19	9.07±0.43	9.45±0.67
FBgn0038095	+			35.12±17.68	20.76±4.97	14.14±2.28	25.83±6.92	10.91±1.86	15.71±7.39	10.95±1.51	16.12±1.52
FBgn0038701	+			72.01±9.40	94.06±40.44	41.22±12.36	31.45±4.27	28.40±5.94	30.22±2.46	33.33±12.82	37.63±9.91
FBgn0039529	+			15.20±1.63	15.66±0.66	14.14±0.77	14.69±1.37	12.15±0.99	12.02±0.72	11.92±1.61	13.89±0.94
FBgn0039738	+			9.49±0.73	9.99±0.63	9.42±0.56	9.72±0.96	8.29±0.54	6.98±0.64	7.19±0.58	9.24±0.43
FBgn0040551	+			204.31±28.57	127.87±26.98	105.72±19.88	109.53±6.74	101.13±19.91	82.19±1.93	102.31±8.18	83.06±19.94
FBgn0045823	+			203.31±27.48	203.82±15.13	224.17±9.38	191.40±15.54	152.37±4.61	182.19±35.55	177.19±14.89	183.85±9.56
FBgn0050392	+			22.77±3.93	18.76±2.01	20.93±2.45	19.80±2.24	16.01±0.88	15.61±2.61	16.09±3.50	17.54±1.31
FBgn0051719	+			5.93±1.33	8.19±3.29	6.90±0.83	5.84±0.55	4.88±0.40	4.10±1.02	3.38±0.32	5.22±1.04
FBgn0052177	+			16.56±3.88	17.70±2.37	17.33±1.03	15.96±1.10	12.33±0.64	14.12±1.62	14.57±2.09	13.77±0.40
FBgn0052476	+			15.03±2.40	16.20±2.65	14.62±1.73	12.60±1.03	10.75±0.26	11.26±0.50	12.12±2.08	12.27±0.86
FBgn0087007	+			29.67±1.81	30.74±3.31	34.61±2.69	23.74±0.95	24.29±1.45	23.76±0.93	25.91±3.10	23.57±0.64
FBgn0259736	+			27.55±3.69	23.39±4.01	25.71±2.71	22.14±2.56	19.05±1.64	17.80±2.43	18.07±1.92	23.11±2.94
FBgn0261403	+			39.40±4.31	33.69±0.91	39.25±1.33	33.36±2.16	31.08±2.26	30.72±1.91	31.38±1.62	31.07±0.90
FBgn0261553	+			17.45±1.31	17.06±1.41	17.43±0.65	15.59±0.57	13.06±0.59	15.08±1.50	15.50±1.37	14.99±0.55
FBgn0263346	+			32.57±2.43	30.76±1.68	32.40±0.76	28.39±1.60	25.24±1.78	25.81±2.66	24.37±0.52	28.63±0.53
FBgn0267698	+			25.96±1.96	26.66±2.82	23.90±0.98	22.33±0.85	20.00±0.72	19.16±0.76	20.92±3.03	22.90±1.06
FBgn0283499	+			7.50±1.49	9.34±2.06	7.51±0.82	7.03±0.42	5.11±1.07	5.59±0.66	6.03±0.73	6.57±1.47
FBgn0283712	+			4.50±0.48	4.47±0.42	4.91±0.12	4.56±0.49	3.82±0.15	3.87±0.62	3.85±0.39	4.07±0.43
FBgn0004430		+		511.18±89.31	322.52±54.00	137.18±19.87	15.95±4.10	47.32±9.14	77.46±5.00	185.93±100.57	309.64±41.34
FBgn0010358		+		993.10±245.97	829.52±167.10	303.72±66.27	268.13±38.95	419.59±114.81	189.41±12.78	705.31±243.83	742.24±112.29

FBgn0015754		+		37.88±4.22	36.90±3.20	37.30±1.25	35.53±3.19	30.01±0.24	31.56±5.20	36.32±3.12	37.81±2.80
FBgn0015924		+		33.96±6.64	28.62±4.06	32.82±1.28	27.46±2.35	22.40±1.02	25.10±3.84	31.26±4.50	28.12±1.38
FBgn0024321		+		7.10±1.20	6.10±0.61	6.89±0.27	6.59±0.74	5.10±0.07	5.06±1.49	6.27±0.73	6.72±0.37
FBgn0028380		+		8.24±0.86	8.57±0.61	8.04±0.32	8.26±0.33	6.81±0.10	6.45±0.10	8.10±1.05	8.47±0.33
FBgn0028484		+		7.85±0.71	6.34±0.89	8.31±0.66	7.52±0.57	5.43±0.17	6.35±1.05	7.48±0.86	6.64±0.51
FBgn0029676		+		45.84±4.92	46.16±5.10	51.87±4.76	38.11±2.01	36.84±1.25	37.22±5.00	39.61±4.28	48.03±2.74
FBgn0030090		+		4.25±1.07	3.72±0.30	3.75±0.18	4.35±0.04	3.02±0.35	2.72±0.57	3.73±0.39	4.00±0.29
FBgn0031654		+		206.80±79.88	213.28±57.13	64.42±23.63	45.76±9.72	65.53±18.38	32.65±6.55	124.54±53.02	144.74±36.81
FBgn0031682		+		22.13±3.17	26.14±2.65	24.24±2.04	24.11±2.58	17.27±1.50	19.24±2.35	24.99±2.82	21.58±1.77
FBgn0031689		+		48.52±13.90	25.29±2.53	31.24±4.92	52.19±4.00	18.77±2.97	19.33±2.63	33.78±6.50	46.53±11.75
FBgn0031799		+		5.59±0.49	5.08±0.58	5.49±0.23	5.03±0.56	4.33±0.09	4.26±0.43	5.66±0.79	4.87±0.03
FBgn0032018		+		13.21±2.67	14.80±2.59	14.61±1.14	11.20±0.82	9.23±1.16	10.08±1.33	12.31±2.14	11.33±1.27
FBgn0032144		+		325.21±28.38	251.76±50.25	278.33±90.83	162.80±69.28	128.59±36.53	125.38±2.29	151.86±51.43	352.85±27.45
FBgn0032264		+		26.40±3.78	32.53±5.92	32.27±5.13	30.76±1.47	20.18±3.48	14.11±1.61	22.80±2.40	35.18±1.50
FBgn0032451		+		33.04±3.57	33.35±4.81	31.69±2.60	23.61±1.55	21.71±3.34	19.99±2.10	27.29±3.61	28.62±2.70
FBgn0033244		+		15.64±1.16	15.23±1.59	16.45±0.71	14.94±1.19	11.76±0.69	13.04±1.53	14.64±1.03	15.43±1.62
FBgn0033544		+		121.71±31.15	137.74±32.50	123.51±8.63	97.19±12.41	79.72±15.00	78.94±5.87	116.72±26.59	102.36±12.44
FBgn0033609		+		10.71±1.77	10.26±1.06	11.41±0.73	11.86±1.35	8.38±0.54	8.83±1.42	9.93±0.61	10.03±0.60
FBgn0034063		+		26.69±5.91	21.50±2.59	22.60±4.45	23.42±0.54	15.87±3.24	13.66±0.90	20.85±4.17	20.50±4.09
FBgn0034304		+		3.82±0.49	3.90±0.45	4.71±0.34	4.20±0.43	3.07±0.08	3.44±0.64	3.91±0.52	4.53±0.10
FBgn0034356		+		74.09±22.07	45.61±16.48	49.72±3.48	56.11±6.99	30.52±4.86	27.98±5.19	79.67±9.00	75.13±20.81
FBgn0034796		+		17.79±1.94	14.83±1.16	16.00±1.11	17.23±0.44	12.31±0.97	12.42±1.76	19.87±1.70	14.90±0.49
FBgn0035665		+		1746.68±511.56	1625.50±388.17	653.19±147.67	589.50±92.88	537.13±152.69	296.47±36.08	1514.89±649.54	1170.73±182.32
FBgn0036196		+		15.70±6.48	15.27±3.41	13.51±1.83	10.83±0.60	6.48±1.39	9.10±2.66	14.05±3.23	10.95±2.12
FBgn0036484		+		24.20±2.63	20.90±0.94	24.80±0.53	23.14±1.12	18.53±0.26	19.60±1.47	20.21±1.93	24.03±0.43
FBgn0036666		+		37.64±4.15	37.52±3.17	39.28±1.09	40.57±2.68	33.37±1.43	31.18±3.98	37.24±2.77	35.75±2.66
FBgn0036767		+		74.33±47.95	98.77±45.47	27.02±9.39	24.99±4.67	21.78±10.13	10.72±1.85	51.91±20.01	29.49±12.10
FBgn0036831		+		51.86±18.52	88.15±26.48	11.81±1.82	5.57±0.10	15.56±6.03	7.07±1.41	35.62±18.45	29.98±3.95
FBgn0037442		+		27.80±4.39	25.38±2.71	27.19±1.54	26.05±1.77	18.94±0.75	22.65±3.84	26.41±3.29	26.82±0.10
FBgn0037949		+		6.47±1.14	5.55±0.81	6.16±0.10	6.30±0.62	4.45±0.10	5.26±1.19	5.37±0.36	5.49±0.18
FBgn0038484		+		63.14±4.84	60.27±20.38	47.56±2.10	32.65±5.83	32.53±7.20	22.98±6.88	44.12±9.38	53.23±1.43
FBgn0038680		+		18.11±2.61	15.81±2.29	24.81±1.23	13.44±0.73	13.06±4.21	6.37±1.18	13.37±2.95	15.01±1.81
FBgn0038747		+		17.08±2.05	17.25±1.90	17.74±0.65	16.13±1.21	12.18±1.01	14.42±2.87	16.88±2.50	16.63±1.13
FBgn0038809		+		35.08±7.55	28.69±4.68	43.47±3.47	30.33±4.05	22.71±1.53	26.29±7.96	30.30±4.47	33.50±1.01
FBgn0039528		+		7.51±0.89	7.46±0.69	7.88±0.39	6.37±0.40	5.72±0.37	5.75±0.76	7.54±1.29	6.51±0.53
FBgn0039644		+		2.94±0.45	2.59±0.42	3.06±0.16	2.42±0.18	2.11±0.04	2.17±0.41	2.92±0.41	2.64±0.20
FBgn0040060		+		1048.40±314.88	710.64±199.09	415.98±101.23	246.38±20.30	324.89±93.80	172.56±34.85	595.26±235.61	680.99±112.96
FBgn0046692		+		16.22±2.47	14.49±0.73	14.68±1.12	14.96±1.78	10.97±1.00	12.09±2.04	12.24±0.93	15.14±0.35
FBgn0050345		+		18.99±6.30	22.55±4.97	22.99±1.68	13.90±1.11	12.07±2.60	12.45±1.83	21.30±4.52	19.19±4.00
FBgn0052475		+		6.68±0.84	3.00±0.23	7.95±0.15	7.50±1.10	2.96±0.05	3.47±0.68	7.50±0.46	6.36±0.50
FBgn0058469		+		7193.42±711.34	5717.90±31.64	6389.39±319.04	7897.65±857.66	5139.93±289.97	5532.22±1165.61	8270.28±895.35	8352.72±1003.83
FBgn0085442		+		31.48±3.75	30.04±3.06	31.37±1.21	33.28±1.68	25.08±1.75	26.27±2.15	30.64±3.84	28.86±1.87
FBgn0086686		+		19.20±2.78	17.88±2.19	19.38±0.67	17.83±1.39	14.02±0.24	15.81±2.82	18.10±2.10	18.04±1.83
FBgn0250815		+		2453.93±676.37	2308.01±588.92	934.28±262.31	765.05±86.77	840.48±176.18	473.54±70.86	2092.47±930.09	1668.92±254.93
FBgn0261985		+		24.02±2.37	25.13±3.09	24.73±1.60	24.40±0.68	18.20±1.81	20.46±2.20	24.10±3.01	22.84±2.43

FBgn0000317		+	5.31±0.17	5.89±0.49	6.40±0.30	5.02±0.14	5.20±0.31	5.12±0.25	5.11±0.71	4.16±0.22
FBgn0004380		+	13.33±0.92	12.25±0.48	13.59±0.66	14.90±1.40	12.33±0.48	12.79±1.32	10.45±0.53	12.39±0.53
FBgn0011603		+	19.13±2.23	18.23±4.27	16.49±1.76	15.73±1.17	13.66±2.09	14.78±3.31	10.31±1.46	12.37±2.15
FBgn0015541		+	15.48±0.43	14.96±0.79	18.25±0.85	14.37±0.66	14.49±0.50	14.35±0.37	12.15±0.32	14.28±0.38
FBgn0023001		+	11.77±0.88	10.75±0.83	10.62±0.37	11.09±0.92	9.97±0.19	9.21±0.40	8.84±0.97	9.57±0.67
FBgn0025702		+	14.54±1.83	14.14±2.97	15.04±1.89	14.23±0.56	14.38±0.69	10.92±1.37	9.42±0.37	10.49±1.08
FBgn0027375		+	7.62±1.27	7.04±0.91	7.39±0.52	7.67±0.59	6.19±0.32	6.66±0.82	5.40±0.34	6.67±0.53
FBgn0027493		+	152.80±18.85	165.64±44.99	135.81±12.47	136.30±8.83	108.89±15.95	112.96±20.61	92.33±10.24	110.30±4.17
FBgn0027621		+	31.98±1.52	28.72±2.45	28.54±2.13	27.99±1.81	27.23±1.45	25.46±0.26	23.17±0.31	24.73±1.10
FBgn0028538		+	9.71±0.47	9.67±0.78	9.63±0.51	9.20±0.34	9.25±0.47	8.86±0.34	8.47±0.56	7.61±0.24
FBgn0029147		+	9.26±0.81	8.94±0.78	6.69±1.84	7.55±1.90	6.94±1.63	5.66±1.25	4.24±0.60	6.18±0.58
FBgn0029848		+	6.36±0.87	11.27±0.43	1.89±0.17	5.84±0.74	11.48±1.69	6.31±0.31	1.41±0.19	3.23±0.31
FBgn0030529		+	51.03±4.49	53.99±9.01	52.46±2.21	46.21±3.66	47.92±2.38	45.45±2.37	41.50±4.43	39.75±0.91
FBgn0030999		+	178.53±29.87	202.75±81.08	164.40±14.88	162.46±10.67	166.22±31.29	195.76±19.99	111.20±19.81	104.11±13.07
FBgn0031055		+	7.52±0.10	5.27±0.83	8.06±1.06	7.06±0.41	5.80±0.02	6.76±0.55	5.24±0.60	5.17±0.21
FBgn0031401		+	34.06±3.86	29.32±5.42	33.80±4.28	28.34±0.67	27.04±2.25	27.38±1.17	18.28±1.63	26.62±2.08
FBgn0031611		+	4.80±0.58	4.74±0.40	5.04±0.24	5.05±0.50	4.10±0.16	4.54±0.65	4.45±0.50	3.98±0.28
FBgn0032010		+	13.23±1.70	12.23±0.96	11.71±1.19	14.12±0.44	12.60±0.73	13.53±0.98	10.33±0.53	9.59±0.74
FBgn0033504		+	63.64±4.34	72.10±8.65	66.68±2.31	69.05±3.55	62.80±1.38	55.41±4.23	50.96±4.92	57.84±2.54
FBgn0033631		+	103.85±6.44	96.15±8.71	101.11±1.63	107.69±9.29	94.71±3.10	112.46±16.41	85.51±4.73	75.65±6.54
FBgn0034985		+	15.77±1.57	11.68±2.04	13.88±0.88	14.49±1.82	12.02±0.68	14.54±0.47	10.86±0.71	10.16±0.47
FBgn0035710		+	46.81±6.81	37.85±2.76	40.64±3.99	51.00±1.68	43.31±1.25	38.08±4.78	31.36±3.43	32.31±2.16
FBgn0036891		+	10.45±0.75	8.79±0.52	9.23±0.58	12.25±0.37	12.43±0.26	11.48±1.02	7.87±1.49	7.79±0.33
FBgn0037447		+	100.28±7.31	86.92±6.36	83.02±4.23	93.20±2.72	82.48±0.40	87.41±6.82	76.46±4.15	75.47±4.13
FBgn0037911		+	11.32±1.34	10.00±1.83	12.60±1.61	11.44±1.00	8.71±0.42	10.44±0.11	7.73±0.42	9.26±0.40
FBgn0037935		+	17.30±2.60	16.03±3.27	20.41±2.80	14.34±0.87	17.03±2.69	10.38±1.18	11.69±2.45	10.23±2.31
FBgn0038681		+	83.92±2.76	86.35±7.28	100.36±7.05	89.73±4.53	51.64±8.50	104.20±3.38	64.19±10.41	55.46±8.80
FBgn0038718		+	54.55±9.70	79.42±5.14	67.19±3.76	74.50±10.96	67.29±4.49	60.26±6.85	54.56±9.60	35.84±6.38
FBgn0038735		+	25.36±0.95	23.85±0.96	26.79±0.42	23.76±1.05	23.19±0.51	20.00±0.15	20.70±1.24	21.67±1.58
FBgn0039043		+	23.96±3.26	19.20±2.20	20.62±1.35	25.94±1.74	17.12±1.80	22.72±1.58	17.45±0.74	16.92±1.62
FBgn0039223		+	19.98±3.00	21.99±2.90	22.20±2.16	18.49±2.46	15.64±2.44	17.17±2.06	17.81±2.88	12.69±1.14
FBgn0039226		+	20.15±5.64	21.26±6.28	16.89±3.45	18.69±1.71	15.64±2.91	16.77±2.91	11.78±2.13	11.86±0.86
FBgn0040234		+	7.02±0.89	7.40±1.23	6.40±0.50	7.64±0.47	6.15±0.70	6.04±0.88	4.88±0.31	5.30±0.22
FBgn0040252		+	7.58±0.86	9.15±0.54	7.41±0.84	5.70±0.82	8.38±1.22	7.61±0.49	3.97±0.62	5.42±0.52
FBgn0041181		+	10.87±0.53	7.94±1.55	9.90±1.10	10.99±1.61	9.17±0.79	11.06±0.39	7.85±0.49	6.91±0.45
FBgn0051321		+	25.33±3.63	13.26±3.80	21.41±2.22	21.90±3.45	18.92±1.86	18.56±2.78	14.77±0.35	9.66±1.57
FBgn0051781		+	18.05±3.12	23.75±6.35	15.74±2.02	9.29±0.52	16.85±1.23	12.98±0.63	12.51±0.50	9.90±0.48
FBgn0052528		+	40.30±1.28	40.91±1.82	42.14±0.55	39.29±1.66	36.02±1.21	38.78±1.11	35.87±0.77	35.50±1.16
FBgn0087035		+	60.65±6.62	61.60±7.02	51.97±1.27	64.57±4.84	54.52±2.47	57.14±7.64	51.05±3.02	49.18±1.97
FBgn0261675		+	3.83±1.03	5.54±2.31	3.66±1.02	4.49±1.11	4.12±2.20	3.22±1.16	2.25±0.46	1.55±0.43
FBgn0262511		+	128.94±8.53	139.87±15.53	130.58±3.08	112.39±1.61	152.36±10.15	111.26±6.71	97.06±9.55	98.92±4.36
FBgn0264953		+	10.77±1.08	12.02±1.28	11.68±0.89	10.05±0.26	9.93±0.78	10.26±0.36	9.08±0.42	8.93±0.12
FBgn0283535		+	299.83±17.26	335.37±47.82	299.12±3.17	280.49±6.90	256.58±29.05	271.25±13.99	233.50±22.32	237.95±11.22

*Annotation for genes taken from the *Drosophila melanogaster* genome strain Oregon R, version: dmel_r6.15_FB2017_02. Gene rows marked with a "+" indicate that the gene had significantly higher expression in the four high lethality lines at the P<0.01 level of significance, when compared to the indicated lower lethality group.

† All Low represents the comparison of the FL3#2 crosses for the four high lethality lines (153H, 195H, 399H, and 911H) to all four low lethality lines (350L, 492L, 317L, and 646L). Gene rows marked with a “+” indicate that the gene had significantly higher expression in the four high lethality lines at the $P < 0.01$ level of significance.

‡ Low tTA represents the comparison of the FL3#2 crosses for the four high lethality lines (153H, 195H, 399H, and 911H) to the two low lethality lines that had lower expression levels of tTA (350L and 492L).

** High tTA represents the comparison of the FL3#2 crosses for the four high lethality lines (153H, 195H, 399H, and 911H) to the two low lethality lines that had higher expression levels of tTA (317L and 646L).

†† Indicates the DGRP line to which the FL3#2 was crossed. DGRP lines followed by “H” had high levels of lethality, DGRP lines followed by “L” had low levels of lethality. Values within columns indicate the average RPKM value \pm standard error of the mean.