

Additional Table S2**Validation of candidates with secondary *UAS-dsRNA* lines**

CG	SYMBOL	primary UAS-dsRNA					secondary UAS-dsRNA					primary / secondary
		S19	OTE	<i>srp-Gal4</i>	<i>hmlΔ-Gal4</i>	<i>cg-Gal4</i>	S19	OTE	<i>srp-Gal4</i>	<i>hmlΔ-Gal4</i>	<i>cg-Gal4</i>	
CG6311	Edc3	0.7	>20	20.5	4	100	0.97	3	0	0	0	NO
CG12276	<i>Aos1</i>	1	0	0	10	56.4	1	0	1.9	21.6	22.9	OV
CG31256	<i>Btf</i>	1	0	15.6	3.6	50.7	1	2	14.7	2	34.5	NO
CG12653	<i>btd</i>	0.34	>20	37.3	0	leth.	0.94	8	2.5	0	0	NO
CG5848	<i>cact</i>	0.98	4	12	4.4	25.4	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
CG10362	CG10362	1	0	6	0	3.7	1	0	1.2	0	0	NO
CG11837	CG11837	1	0	5	0	84.1	1	0	0	0	11.7	NO
CG12661	CG12661	1	1	2.5	9	54.5	1	1	0	0	0	OV
CG12772	CG12772	0.55	>20	14	0	75	1	1	0	0	0	NO
CG12870	CG34362	0.34	>20	30	0	65.2	1	0	2.7	0	5.5	NO
CG14100	CG14100	1	0	8	2.4	3.6	1	0	0	0	0	OV
CG14230	CG14230	1	0	5	2.9	70.7	0.99	2	4.2	4.7	72	NO
CG14512	CG14512	1	0	5.6	0	13.2	1	0	4	0	22.8	OV
CG15247	CG15247	0.6	>20	1.4	3.6	13.3	0.96	8	0	0	0	OV
CG15314	CG15314	0.84	14	12.3	1.9	leth.	1	0	0	1.6	2	OV

A. Avet-Rochex *et al.*

CG15347	CG15347	1	0	0	0	11.1	1	0	0	0	0	OV
CG15784	CG15784	0.93	10	7.5	6	0	0.92	7	15.4	5.5	2.9	OV
CG17331	CG17331	1	0	40	4	leth.	1	0	70.5	9.2	leth.	OV
CG17646	CG17646	0.99	1	0	0	53.2	1	0	0	0	0	NO
CG1832	CG1832	0.84	>20	21	7.7	9.3	1	1	0	0	0	NO
CG1924	CG1924	0.63	2	8	0	3.2	0.95	2	0	0	0	NO
CG2010	CG2010	0.95	>20	5.6	0	5.9	1	0	0	1.9	0	OV
CG30156	CG30156	0.99	2	3.5	0	57.7	1	0	0	1.9	1.7	OV
CG31044	CG31044	0.66	>20	13.6	0	1.8	0.15	465	45.9	0	68.2	OV
CG5086	CG32767	0.42	>20	40	1.8	leth.	0.88	20	2.4	2.6	0	NO
CG4407	CG4407	1	0	30	2	19	1	0	8.6	5	52.3	NO
CG4707	CG4707	1	1	0	1.2	9.7	1	0	0	1.8	0	OV
CG5222	CG5222	1	0	3.9	0	18.5	1	1	11.5	0	0	NO
CG6197	CG6197	1	0	45	0	leth.	1	0	31.3	6	100	NO
CG6322	CG6322	1	0	4.5	5	37.1	1	0	50	3.3	leth.	NO
CG7033	CG7033	1	2	39	1.4	2	0.98	3	60.8	0	84.4	NO
CG7757	CG7757	0.99	1	50.8	6	leth.	1	0	32	5.4	58.8	NO
CG7845	CG7845	1	1	3.6	0	48.6	1	0	11.6	5.4	leth.	NO
CG8444	CG8444	1	2	3	0	10	0.99	1	2	0	13.5	OV

A. Avet-Rochex *et al.*

CG8878	CG8878	1	1	12.2	0	3.9	1	0	0	0	0	NO
CG9107	CG9107	1	0	7.3	2.5	8.8	1	0	29.6	3.5	18.3	NO
CG9305	CG9305	0.94	11	13.9	7.7	leth.	0.99	1	18	3.1	5.1	NO
CG9663	CG9663	1	0	31	0	0.9	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
CG9853	CG9853	1	1	8.4	0	23.1	1	1	1.9	2	2.1	OV
CG15349	<i>Cp7Fa</i>	0.95	13	10.3	0	leth.	0.94	13	17.7	0	25	OV
CG3889	<i>CSN1b</i>	1	0	10.3	3.6	3.8	1	1	6	4.9	3.6	NO
CG8711	<i>cul-4</i>	1	2	46	39.4	77.1	1	0	32.1	0	91.4	NO
CG6292	<i>CycT</i>	1	0	33.3	0	10	1	0	3.4	0	2.1	OV
CG9745	<i>D1</i>	0.99	1	0	0	26.5	1	0	0	3.7	0	NO
CG2048	<i>dco</i>	0.94	4	8.9	0	51.4	0.91	15	0	0	0	NO
CG5838	<i>Dref</i>	1	0	13.6	2.5	100	1	0	17.4	15.4	100	OV
CG10846	<i>dyn-p25</i>	1	1	2.8	5	0	1	1	0	0	0	OV
CG15410	<i>E23</i>	0.3	18	13.1	11.4	27.6	0.99	1	0	0	0	NO
CG11901	<i>Ef1gamma</i>	1	1	17.2	0	leth.	0.99	2	95.2	0	17	NO
CG1873	<i>Ef1alpha100E</i>	0.98	1	9.5	2.5	18.4	0.98	1	5.4	0	10	OV
CG5605	<i>eRF1</i>	1	1	15.9	0	16.7	1	1	32	0	leth.	NO
CG10033	<i>for</i>	0.94	2	0	0	16.5	1	0	20.5	4.3	leth.	NO
CG4396	<i>fne</i>	1	0	25	1.5	10.8	1	0	3.2	2	20	OV

A. Avet-Rochex *et al.*

CG2522	<i>Gtp-bp</i>	1	0	18	21.4	leth.	1	0	0	0	85.7	NO
CG31359	<i>Hsp70Bb</i>	0.25	8	7.1	7.6	leth.	0.75	3	0	0	0	NO
CG6489	<i>Hsp70Bc</i>	0.2	9	26.4	15.5	68.1	0.67	5	27.9	7.5	13.9	NO
CG11990	<i>hyx</i>	1	0	55	8.3	7.7	1	0	63.8	18.8	39.1	NO
CG18039	<i>KaiRIA</i>	1	0	2	8	6.8	0.97	2	0	0	0.9	NO
CG5649	<i>kin17</i>	1	1	30	1.3	1.3	1	1	0	2.7	1.8	OV
CG1994	<i>l(1)G0020</i>	1	1	12	0	17.5	0.99	1	0	0	21.8	NO
CG11295	<i>l(2)dl</i>	1	0	4	11.3	23.6	0.98	5	0	5	7.7	NO
CG3354	<i>Mst77F</i>	1	0	0	4.7	26.9	0.72	1	3.4	0	0	OV
CG16973	<i>msn</i>	0.97	8	4	0	31.6	1	0	0	0	0	NO
CG10603	<i>mRpL13</i>	0.79	1	4	12	36	1	0	5.5	32.5	100	OV
CG12954	<i>mRpL41</i>	1	1	0	0	83.6	1	1	5.4	8.4	97.6	OV
CG1577	<i>mRpL52</i>	1	0	1	5.2	86.8	1	0	2.6	0	100	OV
CG8470	<i>mRpS30</i>	1	2	0	7.1	94.3	1	0	5.8	8.2	97.8	NO
CG8025	<i>Mtr3</i>	1	2	12.5	0	21.7	1	0	11.5	3.7	41.7	OV
CG2286	<i>ND75</i>	1	0	8	5.2	92.9	1	0	4.3	16.3	76.7	NO
CG1857	<i>nec</i>	0.76	14	21.5	17.5	leth.	0.37	169	26.6	14.6	leth.	OV
CG12154	<i>oc</i>	0.7	>20	67	9.4	39.4	1	0	0	0	0	NO
CG10295	<i>Pak</i>	1	0	24	0	leth.	1	0	4	0	0	NO

A. Avet-Rochex *et al.*

CG5786	<i>ppan</i>	1	1	31.3	16	45.7	1	1	10.9	0	4.4	NO
CG18495	<i>CG18495</i>	1	0	26.7	4.8	leth.	0.98	3	1.6	0	0	OV
CG4904	<i>Pros35</i>	1	0	2.8	5	leth.	1	0	5.1	1.4	leth.	NO
CG5519	<i>Prp19</i>	1	0	9.3	0	0	0.98	1	35.3	0	22.7	NO
CG9441	<i>Pu</i>	0.98	4	3.2	0	22	0.99	1	0	0	0	OV
CG13194	<i>pyr</i>	0.49	>20	28	0	1.8	0.11	220	22.9	5.2	0	NO
CG14999	<i>RfC4</i>	1	0	25.9	0	23	1	1	0	8.6	0	NO
CG5371	<i>RnrL</i>	1	0	0	0.9	19.8	1	0	3.9	0	5.6	NO
CG6846	<i>RpL26</i>	1	0	14.3	0	leth.	1	0	leth.	7.8	leth.	OV
CG11522	<i>RpL6</i>	1	0	4.8	6.7	0	1	1	leth.	5	leth.	NO
CG7014	<i>RpS5b</i>	1	0	8.2	3.6	0	0.99	1	20	3.9	10	OV
CG7885	<i>RpII33</i>	1	0	0	10	95	1	0	8	13.6	34.5	NO
CG11888	<i>Rpn2</i>	1	0	5	4	leth.	1	0	36.1	1.3	47.6	NO
CG4659	<i>Srp54k</i>	1	0	31.7	0	leth.	1	0	26.4	3.6	leth.	NO
CG11941	<i>skpC</i>	0.71	4	0	0	10.3	0.78	3	7.5	0	14.3	OV
CG12225	<i>Spt6</i>	0.99	2	32.1	1.4	41.4	1	0	92	82.7	leth.	NO
CG32211	<i>Taf6</i>	1	0	34.2	3	10.8	1	0	0	0	22.4	NO
CG11527	<i>Tig</i>	1	1	0	0	12.1	0.99	2	2.9	0	10	NO
CG6121	<i>Tip60</i>	1	0	14.3	0	1.8	1	0	0	0	0	OV

CG8595	<i>Toll-7</i>	1	2	8.3	5	50	1	0	0	0	0	OV
CG10117	<i>ttv</i>	1	0	1.7	0	15.6	1	0	0	0	0	NO
CG2762	<i>ush</i>	1	1	40	17	67.7	0.96	7	37	48.1	75.5	NO
CG17437	<i>wds</i>	1	0	0	0	52.4	1	0	4	0	43.4	NO
CG9433	<i>Xpd</i>	1	0	0	0	12.3	1	0	0	1.9	0	NO

Tumor indices (%) are indicated for each driver. S19: specificty score (total number of 19-mer/(number of off-target + number of on-target of each 19mer)).
OTE: number of off-targets. Leth.: lethal. OV: overlapping dsRNA. NO: non-overlapping dsRNA. N.a.: non-available