

TABLE S1

RNAi lines screened for open wounds using the *e22c* reporter 24 hours post pinch wounding.

CG no./RNAi Strain	Wound Phenotype: open <sup>a</sup> /closed	Number of Scored Larvae ( <i>n</i> )	Gene Name Abbreviation According to FlyBase <sup>b</sup>
1149 #31513	closed	8	<i>MstProx</i>
1339 #7356	closed	7	<i>Gr43b</i>
1378R-1	closed	10	<i>tll</i>
1378R-2	closed	6	<i>tll</i>
1388R-1,1388R-2	open	36 <sup>c</sup>	<i>Tak1</i>
2054R-1	closed	9	<i>Cht2</i>
2054R-4	closed	8	<i>Cht2</i>
2114R-1	closed	8	<i>FR</i>
2114R-2	closed	6	<i>FR</i>
2190R-2;4353R-2	open	32 <sup>c</sup>	<i>hep</i>
2198 #22944	closed	18	<i>Ama</i>
2248R-1	open	35 <sup>c</sup>	<i>Rac1</i>
2272 #33516 <sup>e</sup>	closed	34 <sup>c</sup>	<i>slpr</i>
2272 #33518	closed	30 <sup>c</sup>	<i>slpr</i>
2272R-1	open	40 <sup>c</sup>	<i>slpr</i>
2272R-2	closed	31 <sup>c</sup>	<i>slpr</i>
2272R-2;2272R-1	closed	36 <sup>c</sup>	<i>slpr</i>
2275R-2	open	48 <sup>c</sup>	<i>DJun/Jra</i>
2522R-1	closed	10	<i>Gtp-bp</i>
3171R-2	closed	10	<i>Tre1</i>
3171R-3	closed	26	<i>Tre1</i>
3212 #13030	closed	10	<i>Sr-CIV</i>
3373R-2	closed	8	<i>Hmu</i>
4099 #49964	closed	6	<i>Sr-CI</i>
4380R-1	closed	7	<i>usp</i>
4380R-3	closed	7	<i>usp</i>
4475R-1	closed	9	<i>Idgf2</i>
4521R-1	closed	6	<i>mthl1</i>
4636R-1	open	37 <sup>c</sup>	<i>SCAR</i>
4637 #1402	closed	5	<i>hh</i>
4720 #34891	closed	38 <sup>c</sup>	<i>PK92B</i>
4720 #34892 <sup>e</sup>	closed	38 <sup>c</sup>	<i>PK92B</i>
4803 #34898	closed	31 <sup>c</sup>	<i>Takl2</i>
4889 #13352	closed	8	<i>wg</i>
4950 #9931	closed	5	<i>CG4950</i>

<i>5008R-1</i>	closed	6	<i>GNBP3</i>
<i>5008R-2</i>	closed	8	<i>GNBP3</i>
<i>5212R-1</i>	closed	12	<i>Pli</i>
<i>5212R-3</i>	closed	7	<i>Pli</i>
<i>5336R-2</i>	open	37 <sup>c</sup>	<i>Ced-12</i>
<i>5336R-3<sup>e</sup></i>	open	39 <sup>c</sup>	<i>Ced-12</i>
<i>5345R-2</i>	closed	17	<i>Eip55E</i>
<i>5345R-3</i>	closed	9	<i>Eip55E</i>
<i>5372R-2</i>	closed	9	<i><math>\alpha</math>PS5</i>
<i>5528R-2</i>	closed	10	<i>Toll-9</i>
<i>5528R-3</i>	closed	26	<i>Toll-9</i>
<i>5562R-1</i>	closed	17	<i>gbb</i>
<i>5562R-3</i>	closed	18	<i>gbb</i>
<i>5610R-1</i>	closed	10	<i>nAcR<math>\alpha</math>-96Aa</i>
<i>5610R-2</i>	closed	7	<i>nAcR<math>\alpha</math>-96Aa</i>
<i>5680R-1,5680R-2</i>	open/control <sup>d</sup>	114 <sup>c</sup>	<i>bsk</i>
<i>5730R-2</i>	closed	18	<i>AnnIX</i>
<i>5988 #14664</i>	closed	7	<i>upd2</i>
<i>5993 #3282</i>	closed	6	<i>os</i>
<i>6124 #4301</i>	closed	10	<i>eater</i>
<i>6515R-1</i>	closed	9	<i>Takr86C</i>
<i>6515R-3</i>	closed	9	<i>Takr86C</i>
<i>6517R-3</i>	closed	5	<i>Cp18</i>
<i>6713 #27725</i>	closed	10	<i>Nos</i>
<i>6890 #13549</i>	closed	9	<i>Tollo</i>
<i>6890 #27099</i>	closed	6	<i>Tollo</i>
<i>6890 #9431</i>	closed	8	<i>Tollo</i>
<i>6953 #1530</i>	closed	8	<i>fat-spondin</i>
<i>7002C-2</i>	closed	7	<i>Hml</i>
<i>7002C-7</i>	closed	14	<i>Hml</i>
<i>7002E-7</i>	closed	9	<i>Hml</i>
<i>7068R-2</i>	no L3 offspring	—	<i>TepIII</i>
<i>7068R-3</i>	no L3 offspring	—	<i>TepIII</i>
<i>7121R-3</i>	closed	6	<i>Tehao</i>
<i>7121R-4</i>	closed	9	<i>Tehao</i>
<i>7250 #27102</i>	closed	11	<i>Toll-6</i>
<i>7250 #27103</i>	closed	10	<i>Toll-6</i>
<i>7250 #9280</i>	closed	7	<i>Toll-6</i>
<i>7356R-1</i>	closed	8	<i>Tg</i>
<i>7356R-2</i>	closed	11	<i>Tg</i>

7660 #14379	closed	7	<i>pxt</i>
7717 #25528	closed	32 <sup>c</sup>	<i>Mekk1</i>
7875R-3	closed	7	<i>trp</i>
8095R-2	closed	5	<i>scb</i>
8261R-1	open	40 <sup>c</sup>	<i>Gγ1</i>
8285R-1	closed	7	<i>boss</i>
8577R-1	closed	7	<i>PGRP-SC1b</i>
8577R-2	closed	7	<i>PGRP-SC1b</i>
8595R-1	closed	11	<i>Toll-7</i>
8595R-2	closed	11	<i>Toll-7</i>
8856R-1	closed	6	<i>Sr-CII</i>
8856R-2	closed	10	<i>Sr-CII</i>
8896R-2	closed	5	<i>18w</i>
8896R-3	closed	7	<i>18w</i>
9623R-1	no L3 offspring	—	<i>if</i>
9623R-2	closed	9	<i>if</i>
9668R-1	closed	6	<i>Rh4</i>
9668R-2	closed	5	<i>Rh4</i>
9738R-1	open	34 <sup>c</sup>	<i>Mkk4</i>
9738R-3 <sup>e</sup>	open	34 <sup>c</sup>	<i>Mkk4</i>
9901R-2	open	31 <sup>c</sup>	<i>Arp14D</i>
10076R-1	closed	42 <sup>c</sup>	<i>spir</i>
10244R-1	closed	20	<i>Cad96Ca</i>
10244R-2	closed	10	<i>Cad96Ca</i>
10363 #13466	closed	8	<i>TepIV</i>
10379R-1	open	31 <sup>c</sup>	<i>mbc</i>
10481 #9312	closed	8	<i>CG10481</i>
10593R-1	closed	8	<i>Acer</i>
10612 #13562	closed	9	<i>Or83a</i>
10626 #22845	closed	10	<i>Lkr</i>
10698 #44310	closed	9	<i>GRHRII</i>
10823 #1783	closed	6	<i>SIFR</i>
10888R-1	closed	7	<i>Rh3</i>
10888R-2	closed	8	<i>Rh3</i>
11064R-3	closed	8	<i>Rfabg</i>
11099 #9272	closed	8	<i>CG11099</i>
11144R-2	closed	10	<i>mGluRA</i>
11335R-1	closed	8	<i>lox</i>
11561 #9542	closed	5	<i>smo</i>
12193 #49835	closed	6	<i>Or22a</i>

12208R-2 (CG33183)	closed	20	<i>Hr46</i>
12235R-1 <sup>e</sup>	closed	35 <sup>c</sup>	<i>Arp11</i>
12235R-3	closed	42 <sup>c</sup>	<i>Arp11</i>
12369 #35524	no L3 offspring	—	<i>Lac</i>
12370 #43313	closed	6	<i>CG12370</i>
12501 #13378	closed	7	<i>Or56a</i>
12530R-2,12530R-3	closed	37 <sup>c</sup>	<i>Cdc42</i>
12697 #13573	closed	15	<i>Or13a</i>
12754 #9551	closed	12	<i>Or42b</i>
12755R-1	closed	6	<i>l(3)mbn</i>
13158 #24498	closed	9	<i>Or49a</i>
13206 #9354	closed	6	<i>Or47b</i>
13225 #51383	closed	6	<i>Or47a</i>
13726 #2773	closed	8	<i>Or74a</i>
13976 #1297	closed	7	<i>Gr98a</i>
13995 #42524	closed	11	<i>CG13995</i>
14026 #862	closed	9	<i>tkv</i>
14226 #19717	closed	7	<i>dome</i>
14226 #36355	closed	8	<i>dome</i>
14226 #36356	closed	7	<i>dome</i>
14360 #26805	closed	5	<i>Or88a</i>
14745R-2	closed	9	<i>PGRP-SC2</i>
14987 #29422	closed	10	<i>Gr64d</i>
15293R-3	closed	10	<i>CG15293</i>
15437R-1	closed	9	<i>morgue</i>
15438R-2	closed	9	<i>CG15438</i>
15509R-2	open	35 <sup>c</sup>	<i>DFos/kay</i>
15614 #4927	closed	8	<i>CG15614</i>
15744 #1096	closed	10	<i>CG15744</i>
15779 #12347	closed	10	<i>Tre</i>
15793 #40026	closed	11	<i>Dsor1</i>
15825R-2	closed	11	<i>fon</i>
16740R-4	closed	9	<i>Rh2</i>
16785R-1	closed	8	<i>fz3</i>
16827R-2	closed	10	<i>αPS4</i>
16827R-3	closed	6	<i>αPS4</i>
16960 #1461	closed	19	<i>Or33a</i>
16961 #7583	closed	9	<i>Or33b</i>
16973R-2;16973R-1	open	35 <sup>c</sup>	<i>msn</i>
16992 #47948	closed	8	<i>mthl6</i>

17084R-1	closed	8	<i>mthl9</i>
17084R-3	closed	8	<i>mthl9</i>
17226 #33121	closed	9	<i>Or59c</i>
17348R-1	closed	7	<i>drl</i>
17348R-2	closed	9	<i>drl</i>
17559R-3	closed	8	<i>dnt</i>
17697 #43075	closed	11	<i>fz</i>
17795 #26815	closed	8	<i>mthl2</i>
17800 #36233	closed	5	<i>Dscam</i>
18096 #30873	closed	8	<i>TepI</i>
18241 #47966	closed	8	<i>Toll-4</i>
18241 #47967	closed	8	<i>Toll-4</i>
18345 #35571	closed	11	<i>trpl</i>
18474R-2	closed	9	<i><math>\alpha</math>-Man-II</i>
18474R-3	closed	10	<i><math>\alpha</math>-Man-II</i>
18859 #13395	closed	8	<i>Or19a</i>
31061 #4398	closed	8	<i>Gr98d</i>
31280 #9537	closed	9	<i>Gr94a</i>
31335 #6813	closed	8	<i>Gr93d</i>
31421 #25760	closed	37 <sup>c</sup>	<i>Tkl1</i>
31622 #8685	closed	9	<i>Gr39a</i>
31655 #45883 (CG4280)	closed	8	<i>crq</i>
31660 #7852	closed	8	<i>CG31660</i>
31720 #51461	closed	8	<i>CG31720</i>
31747 #48018	closed	6	<i>Gr36a</i>
31760 #7686	closed	9	<i>CG31760</i>
31783R-1	closed	14	<i>ninaD</i>
31783R-2	closed	6	<i>ninaD</i>
31794 DPXN IR N1,DPXN IR N3	closed	39 <sup>c</sup>	<i>Pax</i>
31962 #1301	closed	8	<i>Sr-CIII</i>
31962 #13032	closed	9	<i>Sr-CIII</i>
32356R-2	closed	11	<i>ImpE1</i>
32356R-3	closed	20	<i>ImpE1</i>
32476R-1	closed	10	<i>mthl14</i>
32476R-3	closed	10	<i>mthl14</i>
33542 #27136	closed	10	<i>upd3</i>

<sup>a</sup> "Open" is defined by at least 15 % open wounds

<sup>b</sup> FB2009\_10, released November 20<sup>th</sup>, 2009

<sup>c</sup> Candidate genes for retesting (higher *n*)

<sup>d</sup> Positive Control: *bsk*

<sup>e</sup> RNAi lines plotted in Figure 3B and 3C

*w<sup>1118</sup>* ( $n = 97$ ) was used as a negative control.

# indicates a VDRC line.

*R*, *C*, *E* or *DPXN* indicate a NIG-Fly line.