

Supplementary Table 2. RT-qPCR data: mean Cq values obtained and expression values calculated from independent biological replicates. For each biological replicate, three technical replicates were performed.

Gene	RNA sample	Mean Cq \pm SEM	Expression \pm SEM	Mean expression \pm SEM
<i>slbo</i>	<i>Oregon-R</i>	21.4033 \pm 0.0100 21.2402 \pm 0.0281 21.8146 \pm 0.0262 21.3075 \pm 0.0193 21.1520 \pm 0.0265 21.0597 \pm 0.0168	1.0000 \pm 0.0089 0.9837 \pm 0.0209 0.7486 \pm 0.0160 0.8603 \pm 0.0137 0.9591 \pm 0.0191 0.8923 \pm 0.0132	0.9073 \pm 0.0386
	<i>slbo</i> ¹ / <i>slbo</i> ¹	20.9510 \pm 0.1500 21.5323 \pm 0.0148 21.6078 \pm 0.0361	0.8319 \pm 0.0868 0.7106 \pm 0.0148 0.8250 \pm 0.0251	0.7892 \pm 0.0393
	<i>slbo</i> ¹ / <i>slbo</i> ^{e7b}	23.2401 \pm 0.0165 21.5889 \pm 0.1208 22.7041 \pm 0.0205	0.3696 \pm 0.0049 0.3932 \pm 0.0346 0.4606 \pm 0.0207	0.4078 \pm 0.0273
	<i>Trt</i> ^{R85} / <i>Trt</i> ³⁶²	23.4109 \pm 0.0562 24.0617 \pm 0.0304 23.4109 \pm 0.0184	0.1727 \pm 0.0073 0.1215 \pm 0.0028 0.1902 \pm 0.0096	0.1615 \pm 0.0206
	<i>hsp83</i> :GAGA-519/+	21.2827 \pm 0.0111 21.7995 \pm 0.0107 21.2256 \pm 0.0232	0.8448 \pm 0.0090 1.0795 \pm 0.0115 0.8918 \pm 0.0154	0.9387 \pm 0.0717
	<i>slbo</i> ¹ , <i>hsp83</i> :GAGA-519 homo	22.3169 \pm 0.0312 21.1566 \pm 0.0031 21.3691 \pm 0.0158	0.7485 \pm 0.0192 0.8088 \pm 0.0118 0.9452 \pm 0.0353	0.8341 \pm 0.0582
	<i>slbo</i> ¹ , <i>hsp83</i> :GAGA-519/ <i>slbo</i> ^{e7b}	22.5245 \pm 0.0636 21.8343 \pm 0.0337 22.3078 \pm 0.0218	0.4322 \pm 0.0195 0.4541 \pm 0.0151 0.3890 \pm 0.0072	0.4251 \pm 0.0191
	<i>hsp83</i> :GAGA-519/+; <i>Trt</i> ^{R85} / <i>Trt</i> ³⁶²	21.7551 \pm 0.1013 21.5646 \pm 0.0599 21.5249 \pm 0.0218	0.7368 \pm 0.0521 0.6723 \pm 0.0285 0.7479 \pm 0.0139	0.7190 \pm 0.0236
	UAS- <i>slbo</i> /+	20.7401 \pm 0.0352 21.1659 \pm 0.0168 20.9844 \pm 0.0361	1.0985 \pm 0.0277 0.9951 \pm 0.0208 0.9026 \pm 0.0232	0.9987 \pm 0.0020
	<i>slbo</i> -Gal4 ^(Novo16) >UAS- <i>GFP</i> /UAS- <i>slbo</i> ; +/+	18.6033 \pm 0.0110 17.7686 \pm 0.0095 17.4092 \pm 0.0294	8.6580 \pm 0.2324 9.9966 \pm 0.1469 10.1240 \pm 0.2193	9.5928 \pm 0.4689
	<i>slbo</i> -Gal4 ^(Novo16) >UAS- <i>GFP</i> /UAS- <i>slbo</i> ; <i>Trt</i> ^{R85} / <i>Trt</i> ³⁶²	20.3940 \pm 0.0211 19.6987 \pm 0.0387 20.4299 \pm 0.0128	2.0006 \pm 0.0402 1.9042 \pm 0.0533 1.4538 \pm 0.0217	1.7862 \pm 0.1685

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Gene	RNA sample	Mean Cq ± SEM	Expression ± SEM	Mean expression ± SEM
<i>Trl</i>	<i>Oregon-R</i>	17.4477 ± 0.0131* 17.2076 ± 0.0261* 17.8512 ± 0.1051* 17.0084 ± 0.0308 17.6403 ± 0.0676 17.2768 ± 0.0374	1.0000 ± 0.0106* 1.0375 ± 0.0207* 0.7526 ± 0.0555* 1.0915 ± 0.0252 0.7051 ± 0.0335 0.7916 ± 0.0217	0.8964 ± 0.0676
	<i>slbo¹/slbo¹</i>	16.6745 ± 0.0287 17.3330 ± 0.0283 17.8322 ± 0.0369	1.0391 ± 0.0225 0.8414 ± 0.0225 0.7282 ± 0.0226	0.8696 ± 0.0908
	<i>slbo¹/slbo^{e7b}</i>	18.4463 ± 0.0194 16.3036 ± 0.0318 18.1831 ± 0.0043	0.6608 ± 0.0099 0.9884 ± 0.0345 0.6816 ± 0.0292	0.7769 ± 0.1059
	<i>Trl^{R85}/Trl³⁶²</i>	22.3587 ± 0.0346 22.7990 ± 0.0051 22.0243 ± 0.0187	0.0231 ± 0.0007 0.0188 ± 0.0002 0.0321 ± 0.0016	0.0246 ± 0.0039
	<i>hsp83:GAGA-519/+</i>	16.1922 ± 0.0118 16.6998 ± 0.0163 16.5853 ± 0.0206	1.8551 ± 0.0205 2.3857 ± 0.0325 1.4335 ± 0.0223	1.8914 ± 0.2755
	<i>slbo¹, hsp83:GAGA-519 homo</i>	16.7044 ± 0.0363 15.1378 ± 0.0193 15.4852 ± 0.0139	2.3601 ± 0.0677 3.3801 ± 0.0664 3.5970 ± 0.1331	3.1124 ± 0.3813
	<i>slbo¹, hsp83:GAGA-519/slbo^{e7b}</i>	16.0997 ± 0.0044 14.8628 ± 0.0363 16.1232 ± 0.0227	2.3933 ± 0.0245 3.6730 ± 0.1271 1.8238 ± 0.0348	2.6300 ± 0.5468
	<i>hsp83:GAGA-519/+; Trl^{R85}/Trl³⁶²</i>	17.1465 ± 0.0160 16.4828 ± 0.0324 17.1381 ± 0.0729	1.1584 ± 0.0159 1.4674 ± 0.0355 1.0084 ± 0.0521	1.2114 ± 0.1351
	<i>UAS-slbo/+</i>	17.2734 ± 0.0158 16.9452 ± 0.0245 16.9969 ± 0.0097	0.7827 ± 0.0100 1.1957 ± 0.0290 0.9227 ± 0.0082	0.9670 ± 0.0067
	<i>slbo-Gal4^(Novo16)>UAS-GFP/UAS-slbo; +/+</i>	17.7596 ± 0.0609 16.7658 ± 0.0044 16.1546 ± 0.0250	1.0014 ± 0.0495 1.2910 ± 0.0174 1.5568 ± 0.0293	1.2831 ± 0.1604
	<i>slbo-Gal4^(Novo16)>UAS-GFP/UAS-slbo; Trl^{R85}/Trl³⁶²</i>	22.3545 ± 0.0377 21.4186 ± 0.0060 22.4472 ± 0.0779	0.0331 ± 0.0010 0.0373 ± 0.0003 0.0231 ± 0.0013	0.0312 ± 0.0042

* Only these values were used to generate barplot graph shown in Figure 3D.

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Gene	RNA sample	Mean Cq ± SEM	Expression ± SEM	Mean expression ± SEM
<i>Trl</i>	<i>slbo</i> -Gal4 ^(chic6458) >UAS- <i>GFP</i>	17.7936 ± 0.0371 16.9880 ± 0.0468 17.7010 ± 0.0131	1.0000 ± 0.0372 0.9365 ± 0.0332 1.0020 ± 0.0107	0.9795 ± 0.0215
	<i>slbo</i> -Gal4 ^(chic6458) >UAS- <i>GFP</i> ; <i>Trl</i> ^{R85} / <i>Trl</i> ³⁶²	23.4067 ± 0.0218 22.1428 ± 0.1036 23.5512 ± 0.0211	0.0120 ± 0.0003 0.0216 ± 0.0019 0.0097 ± 0.0003	0.0144 ± 0.0036
	UAS- <i>GFP</i> /+	17.2601 ± 0.0144 17.0236 ± 0.0207 17.5410 ± 0.1272	0.7044 ± 0.0101 0.7739 ± 0.0166 0.5575 ± 0.0496	0.6786 ± 0.0638
	<i>slbo</i> -Gal4 ^(Novo11) >UAS- <i>GFP</i> /+; <i>Trl</i> ^{R85} / <i>Trl</i> ³⁶²	22.4464 ± 0.0288 22.2090 ± 0.0278 22.5509 ± 0.0379	0.0270 ± 0.0006 0.0214 ± 0.0004 0.0240 ± 0.0006	0.0241 ± 0.0016
	<i>slbo</i> -Gal4 ^(Novo16) >UAS- <i>GFP</i> /+; <i>Trl</i> ^{R85} / <i>Trl</i> ³⁶²	21.5352 ± 0.0262 22.9905 ± 0.0117 21.4024 ± 0.0575	0.0353 ± 0.0008 0.0297 ± 0.0004 0.0268 ± 0.0016	0.0306 ± 0.0025
	<i>slbo</i> -Gal4 ^(Novo22) >UAS- <i>GFP</i> /+; <i>Trl</i> ^{R85} / <i>Trl</i> ³⁶²	23.2754 ± 0.0385 22.1463 ± 0.0442 23.0400 ± 0.0302	0.0216 ± 0.0006 0.0225 ± 0.0007 0.0132 ± 0.0003	0.0191 ± 0.0029
	<i>slbo</i> -Gal4 ^(Novo11) >UAS- <i>GFP</i> /+; +/+	17.5681 ± 0.0118 16.1867 ± 0.0322 18.6205 ± 0.0240	0.5668 ± 0.0053 1.0332 ± 0.0258 0.5736 ± 0.0096	0.7245 ± 0.1543
	<i>slbo</i> -Gal4 ^(Novo16) >UAS- <i>GFP</i> /+; +/+	17.1742 ± 0.0150 17.0610 ± 0.0387 17.1287 ± 0.0222	0.7765 ± 0.0088 0.9510 ± 0.0295 1.2057 ± 0.0192	0.9777 ± 0.1246
	<i>slbo</i> -Gal4 ^(Novo22) >UAS- <i>GFP</i> /+; +/+	17.5922 ± 0.0237 16.8562 ± 0.0017 17.5055 ± 0.0190	0.6747 ± 0.0114 0.8599 ± 0.0066 0.5862 ± 0.0081	0.7069 ± 0.0807

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Gene	RNA sample	Mean Cq ± SEM*	Expression ± SEM	Mean expression ± SEM
GFP	<i>slbo</i> -Gal4 ^(chic6458) >UAS- <i>GFP</i>	20.0186 ± 0.0315 19.2386 ± 0.1306 19.8383 ± 0.0058	1.0000 ± 0.0276 0.9201 ± 0.0844 1.0648 ± 0.0074	0.9949 ± 0.0419
	<i>slbo</i> -Gal4 ^(chic6458) >UAS- <i>GFP</i> ; <i>Trl</i> ^{R85} / <i>Trl</i> ³⁶²	20.1867 ± 0.0164 19.7377 ± 0.1247 20.0563 ± 0.0337	0.4183 ± 0.0096 0.5348 ± 0.0527 0.5095 ± 0.0168	0.4875 ± 0.0354
	UAS- <i>GFP</i> /+	25.5306 ± 0.0299 25.6610 ± 0.1191 26.2022 ± 0.0424	0.0107 ± 0.0002 0.0091 ± 0.0008 0.0064 ± 0.0002	0.0087 ± 0.0012
	<i>slbo</i> -Gal4 ^(Novo11) >UAS- <i>GFP</i> /+; <i>Trl</i> ^{R85} / <i>Trl</i> ³⁶²	19.1414 ± 0.1227 18.4283 ± 0.1266 19.3489 ± 0.0039	1.2497 ± 0.1074 1.3720 ± 0.1208 1.0335 ± 0.0063	1.2184 ± 0.0990
	<i>slbo</i> -Gal4 ^(Novo16) >UAS- <i>GFP</i> /+; <i>Trl</i> ^{R85} / <i>Trl</i> ³⁶²	19.6704 ± 0.0279 20.9456 ± 0.0167 19.0771 ± 0.0202	0.6013 ± 0.0143 0.5720 ± 0.0093 0.6272 ± 0.0285	0.6001 ± 0.0159
	<i>slbo</i> -Gal4 ^(Novo22) >UAS- <i>GFP</i> /+; <i>Trl</i> ^{R85} / <i>Trl</i> ³⁶²	19.7699 ± 0.0132 18.9388 ± 0.0397 20.1770 ± 0.0107	1.1476 ± 0.0167 0.9709 ± 0.0271 0.4504 ± 0.0045	0.8563 ± 0.2092
	<i>slbo</i> -Gal4 ^(Novo11) >UAS- <i>GFP</i> /+; +/+	17.8585 ± 0.0184 17.0155 ± 0.0044 19.3416 ± 0.0223	2.1668 ± 0.0294 2.7195 ± 0.0316 1.6269 ± 0.0253	2.1711 ± 0.3154
	<i>slbo</i> -Gal4 ^(Novo16) >UAS- <i>GFP</i> /+; +/+	17.5969 ± 0.0247 17.2318 ± 0.0212 18.1911 ± 0.0075	2.7082 ± 0.0480 3.9495 ± 0.0844 2.6990 ± 0.0177	3.1189 ± 0.4153
	<i>slbo</i> -Gal4 ^(Novo22) >UAS- <i>GFP</i> /+; +/+	18.5000 ± 0.0219 17.2628 ± 0.0215 17.7933 ± 0.0228	1.6812 ± 0.0264 3.0328 ± 0.0506 2.2449 ± 0.0367	2.3196 ± 0.3920
	<i>Oregon-R</i>	34.0374 ± 0.0217 34.0883 ± 0.0211 35.1408 ± 0.0220	0.0000 ± 0.0000 0.0001 ± 0.0000 0.0001 ± 0.0000	0.0001 ± 0.0000

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Gene	RNA sample	Mean Cq ± SEM
RpL32	<i>Oregon-R</i>	11.3093 ± 0.0243* 11.1168 ± 0.0239* 11.2807 ± 0.0278* 11.0365 ± 0.0199 10.9731 ± 0.0161 10.4530 ± 0.0240
	<i>slbo</i> ¹ / <i>slbo</i> ¹	10.4235 ± 0.0231 11.0258 ± 0.0157 11.1129 ± 0.0136
	<i>slbo</i> ¹ / <i>slbo</i> ^{e7b}	11.3562 ± 0.0159 11.2119 ± 0.0264 10.0382 ± 0.0767
	<i>Trl</i> ^{R85} / <i>Trl</i> ³⁶²	10.6344 ± 0.0405 11.0197 ± 0.0279 10.7844 ± 0.1400
	<i>hsp83</i> :GAGA-519/+	10.9918 ± 0.0084 11.8778 ± 0.0216 11.0085 ± 0.0159
	<i>slbo</i> ¹ , <i>hsp83</i> :GAGA-519 homo	11.5087 ± 0.0369 10.4690 ± 0.0345 11.0463 ± 0.1026
	<i>slbo</i> ¹ , <i>hsp83</i> :GAGA-519/ <i>slbo</i> ^{e7b}	11.0739 ± 0.0045 10.5279 ± 0.0603 10.5635 ± 0.0308
	<i>hsp83</i> :GAGA-519/+; <i>Trl</i> ^{R85} / <i>Trl</i> ³⁶²	11.0243 ± 0.0188 10.6500 ± 0.0260 10.7027 ± 0.0259
	UAS- <i>slbo</i> /+	10.4712 ± 0.0170 11.0460 ± 0.0493 10.6375 ± 0.0060
	<i>slbo</i> -Gal4 ^(Novo16) >UAS- <i>GFP</i> /UAS- <i>slbo</i> ; +/+	11.6797 ± 0.0695 11.0932 ± 0.0371 10.7723 ± 0.0090
	<i>slbo</i> -Gal4 ^(Novo16) >UAS- <i>GFP</i> /UAS- <i>slbo</i> ; <i>Trl</i> ^{R85} / <i>Trl</i> ³⁶²	11.3647 ± 0.0298 10.5661 ± 0.0148 10.6456 ± 0.0337

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Gene	RNA sample	Mean Cq \pm SEM
<i>RpL32</i>	<i>slbo</i> -Gal4 ^(chic6458) >UAS- <i>GFP</i>	12.2724 \pm 0.0186 11.2995 \pm 0.0409 12.0544 \pm 0.0135
	<i>slbo</i> -Gal4 ^(chic6458) >UAS- <i>GFP</i> ; <i>Trt</i> ^{R85} / <i>Trt</i> ³⁶²	11.2079 \pm 0.0381 10.9230 \pm 0.1358 11.2168 \pm 0.0650
	UAS- <i>GFP</i> /+	11.1445 \pm 0.0117 11.0446 \pm 0.0137 11.1408 \pm 0.0341
	<i>slbo</i> -Gal4 ^(Novo11) >UAS- <i>GFP</i> /+; <i>Trt</i> ^{R85} / <i>Trt</i> ³⁶²	11.8304 \pm 0.0328 11.1455 \pm 0.0169 11.7485 \pm 0.0059
	<i>slbo</i> -Gal4 ^(Novo16) >UAS- <i>GFP</i> /+; <i>Trt</i> ^{R85} / <i>Trt</i> ³⁶²	11.1844 \pm 0.0344 12.2663 \pm 0.0294 10.4702 \pm 0.0256
	<i>slbo</i> -Gal4 ^(Novo22) >UAS- <i>GFP</i> /+; <i>Trt</i> ^{R85} / <i>Trt</i> ³⁶²	11.2351 \pm 0.0144 12.2131 \pm 0.0276 11.1389 \pm 0.0118
	<i>slbo</i> -Gal4 ^(Novo11) >UAS- <i>GFP</i> /+; +/+	11.0914 \pm 0.0003 10.4621 \pm 0.0257 12.1531 \pm 0.0026
	<i>slbo</i> -Gal4 ^(Novo16) >UAS- <i>GFP</i> /+; +/+	11.2254 \pm 0.0102 11.2349 \pm 0.0438 11.8066 \pm 0.0042
	<i>slbo</i> -Gal4 ^(Novo22) >UAS- <i>GFP</i> /+; +/+	11.4216 \pm 0.0056 11.0740 \pm 0.0217 11.1010 \pm 0.0092

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Gene	RNA sample	Mean Cq ± SEM
Rap2l	<i>Oregon-R</i>	15.2012 ± 0.0069* 15.0200 ± 0.0053* 15.2168 ± 0.0166* 14.8481 ± 0.0151 14.9144 ± 0.0150 15.0417 ± 0.0108
	<i>slbo</i> ¹ / <i>slbo</i> ¹	14.6515 ± 0.0087 14.7571 ± 0.0497 15.2516 ± 0.0485
	<i>slbo</i> ¹ / <i>slbo</i> ^{e7b}	15.8760 ± 0.0103 14.1505 ± 0.0152 15.5834 ± 0.1203
	<i>Trl</i> ^{R85} / <i>Trl</i> ³⁶²	14.8235 ± 0.0227 14.7265 ± 0.0086 14.9525 ± 0.0071
	<i>hsp83</i> :GAGA-519/+	14.7908 ± 0.0197 15.6458 ± 0.0040 14.8163 ± 0.0084
	<i>slbo</i> ¹ , <i>hsp83</i> :GAGA-519 homo	15.9930 ± 0.0139 14.9359 ± 0.0232 15.2330 ± 0.0098
	<i>slbo</i> ¹ , <i>hsp83</i> :GAGA-519/ <i>slbo</i> ^{e7b}	15.1787 ± 0.0279 14.5668 ± 0.0325 15.0320 ± 0.0044
	<i>hsp83</i> :GAGA-519/+; <i>Trl</i> ^{R85} / <i>Trl</i> ³⁶²	15.2283 ± 0.0140 14.9846 ± 0.0005 15.1858 ± 0.0169
	UAS- <i>slbo</i> /+	14.9039 ± 0.0085 14.9754 ± 0.0086 14.7395 ± 0.0158
	<i>slbo</i> -Gal4 ^(Novo16) >UAS- <i>GFP</i> /UAS- <i>slbo</i> ; +/+	15.4589 ± 0.0262 14.7908 ± 0.0076 14.4294 ± 0.0193
	<i>slbo</i> -Gal4 ^(Novo16) >UAS- <i>GFP</i> /UAS- <i>slbo</i> ; <i>Trl</i> ^{R85} / <i>Trl</i> ³⁶²	15.1281 ± 0.0264 14.3935 ± 0.0172 14.9977 ± 0.0075

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Gene	RNA sample	Mean Cq \pm SEM
<i>Rap2l</i>	<i>slbo</i> -Gal4 ^(chic6458) >UAS- <i>GFP</i>	16.1519 \pm 0.0448 15.3243 \pm 0.0073 16.1905 \pm 0.0092
	<i>slbo</i> -Gal4 ^(chic6458) >UAS- <i>GFP</i> ; <i>Trt</i> ^{R85} / <i>Trt</i> ³⁶²	15.2957 \pm 0.0434 15.1335 \pm 0.0117 15.3372 \pm 0.0150
	UAS- <i>GFP</i> /+	15.2017 \pm 0.0276 15.1000 \pm 0.0439 15.0925 \pm 0.0101
	<i>slbo</i> -Gal4 ^(Novo11) >UAS- <i>GFP</i> /+; <i>Trt</i> ^{R85} / <i>Trt</i> ³⁶²	15.4826 \pm 0.0149 15.0108 \pm 0.0136 15.4315 \pm 0.0147
	<i>slbo</i> -Gal4 ^(Novo16) >UAS- <i>GFP</i> /+; <i>Trt</i> ^{R85} / <i>Trt</i> ³⁶²	15.0756 \pm 0.0195 16.4002 \pm 0.0143 14.7250 \pm 0.1219
	<i>slbo</i> -Gal4 ^(Novo22) >UAS- <i>GFP</i> /+; <i>Trt</i> ^{R85} / <i>Trt</i> ³⁶²	15.2049 \pm 0.0134 16.1109 \pm 0.0170 15.0406 \pm 0.0056
	<i>slbo</i> -Gal4 ^(Novo11) >UAS- <i>GFP</i> /+; +/+	15.2438 \pm 0.0134 14.8426 \pm 0.0196 16.3214 \pm 0.0023
	<i>slbo</i> -Gal4 ^(Novo16) >UAS- <i>GFP</i> /+; +/+	15.2302 \pm 0.0080 15.5792 \pm 0.0096 15.8276 \pm 0.0108
	<i>slbo</i> -Gal4 ^(Novo22) >UAS- <i>GFP</i> /+; +/+	15.4644 \pm 0.0097 15.0399 \pm 0.0018 15.2059 \pm 0.0079