

Table S2: List of Downregulated genes (log2 fold change \leq -1.3, p<0.05)

#	gene_id	gene	locus	log2(fold change)	p_value	q_value
1	Osi1	Osi1	3R:1999366-2000555	-inf	5.0000E-05	2.7364E-04
2	Obp46a	Obp46a	2R:6198676-6199528	-6.14	2.6500E-03	8.9486E-03
3	Optix	Optix	2R:3919137-3930041	-5.96	5.0000E-05	2.7364E-04
4	Hr46	Hr46	2R:6092958-6124853	-5.52	5.0000E-05	2.7364E-04
5	CG32372	CG32372	3L:7512587-7521116	-5.40	5.0000E-05	2.7364E-04
6	Tsp42Ei	Tsp42Ei	2R:2922631-2925174	-4.92	5.0000E-05	2.7364E-04
7	CG1139	CG1139	3L:1971661-1974285	-4.73	5.0000E-05	2.7364E-04
8	CG16884	CG16884	2L:13914724-13955757	-4.64	2.0000E-04	9.4764E-04
9	NetA	NetA	X:14498044-14547864	-4.61	5.0000E-05	2.7364E-04
10	CG42527	CG42527	X:1891619-1898128	-4.58	5.0000E-05	2.7364E-04
11	Poxn	Poxn	2R:11714197-11722280	-4.53	5.0000E-05	2.7364E-04
12	CG14915	CG14915	2L:11071026-11071532	-4.44	5.0000E-05	2.7364E-04
13	CG1342	CG1342	3R:26516365-26518490	-4.36	5.0000E-05	2.7364E-04
14	sm	sm	2R:15417413-15519007	-4.34	5.0000E-05	2.7364E-04
15	Cpr78E	Cpr78E	3L:21659553-21660080	-4.19	5.0000E-05	2.7364E-04
16	Lkr	Lkr	3L:5505516-5522441	-4.14	9.0000E-04	3.5694E-03
17	ImpE2	ImpE2	3L:3510973-3512677	-3.97	5.0000E-05	2.7364E-04
18	ana	ana	2R:4956605-4965059	-3.65	5.0000E-05	2.7364E-04
19	Blimp-1	Blimp-1	3L:5624082-5642049	-3.57	5.0000E-05	2.7364E-04
20	CG8483	CG8483	3R:9034469-9040187	-3.50	5.0000E-05	2.7364E-04
21	CG10205	CG10205	2R:10720337-10721460	-3.47	2.0000E-04	9.4764E-04
22	hoe1	hoe1	2L:4908744-4932296	-3.43	5.0000E-05	2.7364E-04
23	CG16733	CG16733	3R:5077574-5078687	-3.37	5.0000E-05	2.7364E-04
24	CG16885	CG16885	2L:13914724-13955757	-3.36	5.0000E-05	2.7364E-04
25	CG13082	CG13082	2L:19538428-19539910	-3.35	5.0000E-05	2.7364E-04
26	Doc2	Doc2	3L:9005785-9012340	-3.31	5.0000E-05	2.7364E-04
27	CG8420	CG8420	3R:5073172-5077160	-3.30	5.0000E-05	2.7364E-04
28	dve	dve	2R:18131467-18173982	-3.21	5.0000E-05	2.7364E-04
29	CG31975	CG31975	2L:138383-140992	-3.15	5.0000E-05	2.7364E-04
30	CG4586	CG4586	X:6863973-6866302	-3.11	5.0000E-05	2.7364E-04
31	Doc1	Doc1	3L:9034476-9038144	-3.00	5.0000E-05	2.7364E-04
32	Wnt2	Wnt2	2R:5381673-5390695	-2.99	5.0000E-05	2.7364E-04
33	CG7888	CG7888	3L:11047136-11054319	-2.95	3.0000E-04	1.3573E-03
34	CG3823	CG3823	X:6198022-6200778	-2.90	5.0000E-05	2.7364E-04
35	CG7201	CG7201	3L:8283385-8288422	-2.88	5.0000E-05	2.7364E-04
36	CG7367	CG7367	2L:8026913-8039788	-2.85	2.0100E-02	4.9415E-02
37	CG31728	CG31728	2L:13255407-13257426	-2.82	5.0000E-05	2.7364E-04
38	CG10029	CG10029	3R:3141445-3142929	-2.75	1.5000E-04	7.3812E-04
39	ImpE3	ImpE3	3R:3839545-3856505	-2.72	5.0000E-05	2.7364E-04
40	CG30080	CG30080	2R:11586230-11589199	-2.71	5.0000E-05	2.7364E-04
41	CG15765	CG15765	X:5712596-5733606	-2.66	5.0000E-05	2.7364E-04
42	trh	trh	3L:366523-392633	-2.58	5.0000E-05	2.7364E-04
43	CR42861	CR42861	X:13638960-13639509	-2.58	5.0000E-05	2.7364E-04
44	Os-C	Os-C	3R:3804680-3806044	-2.56	5.0000E-05	2.7364E-04
45	CG30380	CG30380	2R:3826705-3827144	-2.56	2.6000E-03	8.7988E-03
46	spz	spz	3R:22890791-22895790	-2.51	5.0000E-05	2.7364E-04
47	al	al	2L:378115-387439	-2.50	5.0000E-05	2.7364E-04
48	CG2930	CG2930	X:3766453-3774329	-2.50	5.0000E-05	2.7364E-04

49	spirit	spirit	X:8465131-8467614	-2.46	5.0000E-05	2.7364E-04
50	Dhc93AB	Dhc93AB	3R:16850740-16868141	-2.42	5.0000E-05	2.7364E-04
51	ppk13	ppk13	2L:21086899-21088730	-2.38	5.0000E-05	2.7364E-04
52	Nep1	Nep1	X:5985802-5998006	-2.36	5.0000E-05	2.7364E-04
53	CG15546	CG15546	3R:26700086-26701908	-2.33	5.0000E-05	2.7364E-04
54	CG33509	CG33509	2L:21084604-21086506	-2.33	5.0000E-05	2.7364E-04
55	RpS19b	RpS19b	3R:19758450-19759252	-2.32	5.0000E-05	2.7364E-04
56	CG14257	CG14257	3R:22901604-22908543	-2.31	5.0000E-05	2.7364E-04
57	CG10960	CG10960	3L:12817981-12836205	-2.29	5.0000E-05	2.7364E-04
58	CG9416	CG9416	2R:15251149-15260747	-2.26	5.0000E-05	2.7364E-04
59	CG3568	CG3568	X:4436662-4438530	-2.25	5.0000E-05	2.7364E-04
60	CG13081	CG13081	2L:19540692-19541343	-2.24	5.0000E-05	2.7364E-04
61	CG10026	CG10026	2L:19454255-19457726	-2.19	5.0000E-05	2.7364E-04
62	Cpr49Ac	Cpr49Ac	2R:8274471-8277562	-2.19	5.0000E-05	2.7364E-04
63	CG15905	CG15905	2R:15533987-15535150	-2.18	5.0000E-05	2.7364E-04
64	CG3355	CG3355	2L:4651402-4652877	-2.17	5.0000E-05	2.7364E-04
65	wbl	wbl	2R:15137265-15138419	-2.17	5.0000E-05	2.7364E-04
66	Inos	Inos	2R:3342418-3346368	-2.16	5.0000E-05	2.7364E-04
67	Mur89F	Mur89F	3R:12979241-12985670	-2.15	5.0000E-05	2.7364E-04
68	CG13258	CG13258	2L:16292126-16292970	-2.15	5.0000E-05	2.7364E-04
69	CG17278	CG17278	3R:16846755-16849885	-2.12	5.0000E-05	2.7364E-04
70	CG12551	CG12551	2R:1808437-1808752	-2.11	2.9500E-03	9.8088E-03
71	Cpr97Ea	Cpr97Ea	3R:22908853-22912341	-2.03	6.5000E-04	2.6711E-03
72	CG5873	CG5873	3R:13251493-13272215	-2.01	5.0000E-05	2.7364E-04
73	snoRNA:Psi2 8S-3342	snoRNA:Psi2 8S-3342	X:5418334-5418498	-2.00	2.0000E-04	9.4764E-04
74	CG9427	CG9427	3R:5450874-5452187	-1.99	5.0000E-05	2.7364E-04
75	kal-1	kal-1	3R:19967116-19974645	-1.96	5.0000E-05	2.7364E-04
76	CG5697	CG5697	3R:16841670-16842842	-1.95	5.0000E-05	2.7364E-04
77	Eip78C	Eip78C	3L:21220018-21257721	-1.94	5.0000E-05	2.7364E-04
78	Cpr30F	Cpr30F	2L:9932586-9933092	-1.93	4.3000E-03	1.3516E-02
79	CG3649	CG3649	2R:18733523-18741220	-1.93	5.0000E-05	2.7364E-04
80	CG7720	CG7720	3R:14584957-14620876	-1.91	5.0000E-05	2.7364E-04
81	Ugt86Di	Ugt86Di	3R:6977628-6979571	-1.90	5.0000E-05	2.7364E-04
82	CG6055	CG6055	2L:7466545-7472493	-1.86	5.0000E-05	2.7364E-04
83	CG32706	CG32706	X:8981161-8982109	-1.85	5.0000E-05	2.7364E-04
84	CG32581	CG32581	X:15690935-15693189	-1.84	5.0000E-05	2.7364E-04
85	CG14118	CG14118	3L:12885757-12887858	-1.84	5.0000E-05	2.7364E-04
86	betaTub97EF	betaTub97EF	3R:23792729-23814089	-1.78	5.0000E-05	2.7364E-04
87	Lsd-2	Lsd-2	X:14965488-14970236	-1.78	5.0000E-05	2.7364E-04
88	Rpt6R	Rpt6R	3R:26407919-26409419	-1.77	5.0000E-05	2.7364E-04
89	t	t	X:9111687-9117290	-1.77	5.0000E-05	2.7364E-04
90	CG5639	CG5639	3R:23408526-23419260	-1.76	5.0000E-05	2.7364E-04
91	Fkbp13	Fkbp13	2R:17374669-17385431	-1.76	5.0000E-05	2.7364E-04
92	AnnX	AnnX	X:20064247-20067552	-1.75	5.0000E-05	2.7364E-04
93	CG30101	CG30101	2R:13295762-13297705	-1.75	5.0000E-05	2.7364E-04
94	Gadd45	Gadd45	2R:3136667-3138160	-1.75	5.0000E-05	2.7364E-04
95	CG31559	CG31559	3R:1975837-1982949	-1.75	5.0000E-05	2.7364E-04
96	CG12918	CG12918	2R:5936984-5939682	-1.74	5.0000E-05	2.7364E-04
97	CG33169	CG33169	3L:22856963-22857596	-1.73	5.0000E-05	2.7364E-04
98	CG30195	CG30195	2R:18534117-18534746	-1.73	5.0000E-05	2.7364E-04
99	CG15362	CG15362	2L:1981309-1981927	-1.71	5.0000E-05	2.7364E-04

100	CG9186	CG9186	3L:1305274-1313377	-1.70	5.0000E-05	2.7364E-04
101	pip	pip	3L:19287868-19330699	-1.70	5.0000E-05	2.7364E-04
102	CG12063	CG12063	3R:27324960-27332716	-1.68	5.0000E-05	2.7364E-04
103	CG8249	CG8249	2R:11731594-11734865	-1.67	5.0000E-05	2.7364E-04
104	CG14470	CG14470	2R:1812361-1818868	-1.67	5.0000E-05	2.7364E-04
105	Trim9	Trim9	2L:10544880-10627374	-1.67	5.0000E-05	2.7364E-04
106	kn	kn	2R:10660151-10694566	-1.65	5.0000E-05	2.7364E-04
107	CG6287	CG6287	2L:11151505-11155716	-1.64	5.0000E-05	2.7364E-04
108	Cpr47Ee	Cpr47Ee	2R:7152630-7154361	-1.64	4.0000E-04	1.7372E-03
109	Cat	Cat	3L:18815705-18821294	-1.63	5.0000E-05	2.7364E-04
110	Cpr31A	Cpr31A	2L:10054214-10055935	-1.62	5.0000E-05	2.7364E-04
111	CG11380	CG11380	X:1085443-1090705	-1.62	1.0000E-04	5.1606E-04
112	dy	dy	X:11663805-11672709	-1.61	5.0000E-05	2.7364E-04
113	Oscillin	Oscillin	2L:5547202-5549614	-1.61	5.0000E-05	2.7364E-04
114	CG11073	CG11073	2R:17978993-17987231	-1.61	5.0000E-05	2.7364E-04
115	rdo	rdo	2L:18012406-18070249	-1.60	5.0000E-05	2.7364E-04
116	CG13114	CG13114	2L:9545810-9547424	-1.59	1.0000E-04	5.1606E-04
117	CG32572	CG32572	X:16608479-16620988	-1.59	1.2000E-03	4.5893E-03
118	Doc3	Doc3	3L:8998297-9000351	-1.59	5.0000E-05	2.7364E-04
119	betaTub60D	betaTub60D	2R:20193404-20200626	-1.59	5.0000E-05	2.7364E-04
120	CG13737	CG13737	3L:13865828-13895161	-1.58	5.0000E-05	2.7364E-04
121	Cyp310a1	Cyp310a1	2L:18617256-18661787	-1.58	5.0000E-05	2.7364E-04
122	SPE	SPE	3R:19511978-19513869	-1.57	5.0000E-05	2.7364E-04
123	CG42324	CG42324	3L:3485641-3508533	-1.57	5.0000E-05	2.7364E-04
124	if	if	X:16646221-16677467	-1.57	5.0000E-05	2.7364E-04
125	CG4914	CG4914	3L:14665967-14740971	-1.56	5.0000E-05	2.7364E-04
126	MESR3	MESR3	2L:18617256-18661787	-1.55	5.0000E-05	2.7364E-04
127	bip1	bip1	3L:8047432-8051811	-1.55	5.0000E-05	2.7364E-04
128	CG31051	CG31051	3R:24345269-24346237	-1.55	5.0000E-05	2.7364E-04
129	Epac	Epac	2R:2649416-2684421	-1.54	5.0000E-05	2.7364E-04
130	Ppn	Ppn	3R:24346386-24366053	-1.53	5.0000E-05	2.7364E-04
131	CG11899	CG11899	3R:25026173-25028247	-1.51	5.0000E-05	2.7364E-04
132	snmRNA:331	snmRNA:331	3R:3300564-3300674	-1.50	3.8500E-03	1.2259E-02
133	CG14417	CG14417	X:2769563-2770556	-1.50	1.5350E-02	3.9400E-02
134	Calx	Calx	3R:16803997-16840182	-1.49	5.0000E-05	2.7364E-04
135	Nc	Nc	3L:9961542-9964102	-1.46	5.0000E-05	2.7364E-04
136	CG8031	CG8031	3R:8824306-8837010	-1.46	5.0000E-05	2.7364E-04
137	qtc	qtc	2L:5060831-5070750	-1.46	3.5000E-04	1.5496E-03
138	CG8498	CG8498	2L:8159839-8162389	-1.45	5.0000E-05	2.7364E-04
139	CG16997	CG16997	2L:12111132-12111995	-1.45	1.3500E-02	3.5442E-02
140	Pde1c	Pde1c	2L:11814825-11928570	-1.45	5.0000E-05	2.7364E-04
141	pio	pio	2R:20468771-20485385	-1.43	5.0000E-05	2.7364E-04
142	CG9363	CG9363	3R:5283368-5286362	-1.43	1.5000E-04	7.3812E-04
143	CG1273	CG1273	3L:4263720-4277782	-1.42	5.0000E-05	2.7364E-04
144	nab	nab	3L:4153617-4160932	-1.42	5.0000E-05	2.7364E-04
145	tey	tey	3L:19643901-19656763	-1.40	5.0000E-05	2.7364E-04
146	CG7079	CG7079	3R:16873486-16874543	-1.39	2.8500E-03	9.5307E-03
147	CG10932	CG10932	X:7781299-7782785	-1.38	5.0000E-05	2.7364E-04
148	daw	daw	2L:2805517-2812147	-1.38	5.0000E-05	2.7364E-04
149	Sec61gamma	Sec61gamma	X:19537364-19538528	-1.35	5.0000E-05	2.7364E-04
150	Argk	Argk	3L:9041961-9059127	-1.34	5.0000E-05	2.7364E-04

151	Atox1	Atox1	3L:21634141-21635699	-1.33	5.0000E-05	2.7364E-04
152	sens	sens	3L:13389328-13394225	-1.33	5.0000E-05	2.7364E-04
153	Nrt	Nrt	3L:16759173-16772844	-1.32	5.0000E-05	2.7364E-04
154	CG13023	CG13023	3L:16917437-16920534	-1.32	5.0000E-05	2.7364E-04
155	Spn43Aa	Spn43Aa	2R:3035202-3036757	-1.31	5.0000E-05	2.7364E-04
156	Mmp2	Mmp2	2R:5498643-5571356	-1.30591	5.0000E-05	2.7364E-04