

Table S2. Effects of mutations in genes controlling thermotaxis, neuronal morphology, dauer and the heat-shock/UPR pathways on *ver-1* promoter::*gfp* expression

Genotype*	<i>ver-1</i> expression 15°C			<i>ver-1</i> expression 25°C		
	% PHsh on	% AMsh on	<i>n</i>	% PHsh on	% AMsh on	<i>n</i>
wild type	6	0	80	100	93	80
AFD, AIY or AIZ neurons (thermotaxis circuit)						
<i>ttx-1(p767)</i>	0	0	58	2	0	51
<i>ttx-1(oy26)</i>	0	0	47	0	0	44
<i>ceh-14(ch3)</i>	0	0	42	96	94	50
<i>dac-1(gk211)</i>	2	0	48	100	92	49
<i>tax-2(p691)</i>	0	0	41	100	88	50
<i>tax-4(p678)</i>	2	0	46	100	83	76
<i>pkc-1(nj1)</i>	5	0	40	100	88	40
<i>pkc-1(nj3)</i>	3	0	40	100	95	40
<i>pkc-1(nj4)</i>	5	0	40	100	95	40
<i>pkc-2(ok328)</i>	8	0	40	100	95	40
<i>ttx-3(ks5)</i>	5	0	39	100	80	51
<i>ttx-3(mg158)</i>	2	0	40	100	95	45
<i>lin-11(n389)</i>	5	0	41	100	98	54
<i>lin-11(n566)</i>	2	0	40	100	92	50
<i>unc-86(e1416)</i>	2	0	45	100	91	45
<i>unc-86(n846)</i>	2	0	43	100	94	54
Otx/otd transcription factors						
<i>ceh-37(ok642)</i>	10	0	40	100	85	40
<i>ceh-37(ok272)</i>	10	0	40	100	83	40
<i>ceh-36(ky646)</i>	20	3	40	100	98	40
Neuronal cilia and dendritic morphology						
<i>che-2(e1033)</i>	0	0	55	100	86	51
<i>che-13(e1805)</i>	0	0	49	100	94	52
<i>osm-6(p811)</i>	0	0	44	100	83	48
<i>dyf-7(ns89)</i>	0	0	44	88	98	50
<i>dyf-7(m537)</i>	0	0	43	88	98	50
Dauer neuroendocrine pathways						
<i>daf-7(e1372)</i>	5	0	42	100 [†]	100 [†]	53
<i>daf-12(m20)</i>	0	0	40	100	90	50
<i>daf-12(m25)</i>	0	0	54	100	90	50
<i>daf-2(m41)</i>	0	0	39	100 [‡]	98 [‡]	54
<i>daf-16(mu86)</i>	5	0	40	100	100	40
Heat-shock and UPR pathways						
wild type	8	0	40	93 [§]	43 [§]	80
<i>ire-1(zc14)</i>	8	0	40	98 [§]	45 [§]	40
<i>hsf-1(sy441)</i>	13	0	40	100 [§]	53 [§]	40

*All strains contained the *ver-1* promoter::*gfp* transgene (*nsls22*).

Animals were scored as adults at the indicated temperature except for:

[†]Dauer-constitutive *daf-7* animals as dauer larvae at 25°C.

[‡]Dauer-constitutive *daf-2* animals as dauer-recovered adults at 25°C.

[§]Owing to increased lethality at high temperatures, *ire-1(zc14)* and *hsf-1(sy441)* animals were cultivated first at 15°C before shifting as L4 larvae to 25°C, and GFP intensity was scored 24 hours later. Wild-type control animals were shifted under the same conditions.

AMsh, amphid sheath; PHsh, phasmid sheath.