

Table S4. Temperature sensitivity of *kal-1(gf)* AIY neuron ectopic axon branching

During the course of these studies, we also observed that the penetrance of *kal-1(gf)* ectopic axon branching was temperature sensitive. The table below shows three repeats of our axon branching assay run at 15, 20, and 25°C. The z-test was used to determine statistical significance between assay temperatures, i.e. *mgls18 otls76* assayed at 20°C was statistically compared to *mgls18 otls76* assayed at 25°C, etc. * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$.

Strain	% Branched AIYs	Significance	Total neurons scored
<i>mgls18 otls76 @15°C – repeat 1</i>	25.3		158
<i>mgls18 otls76 @20°C – repeat 1</i>	42.8	**	154
<i>mgls18 otls76 @25°C – repeat 1</i>	59.8	**	152
<i>mgls18 otls76 @15°C – repeat 2</i>	32.2		152
<i>mgls18 otls76 @20°C – repeat 2</i>	57.1	***	154
<i>mgls18 otls76 @25°C – repeat 2</i>	68.1	*	154
<i>mgls18 otls76 (out-crossed 2x) @20°C – repeat 3</i>	54.6	**	152
<i>mgls18 otls76 (out-crossed 2x) @25°C – repeat 3</i>	69.7		152
<i>mgls18 otls76 efn-4(bx80) @ 15°C</i>	30.5		154
<i>mgls18 otls76 efn-4(bx80) @ 20°C</i>	36.4	ns	154
<i>mgls18 otls76 efn-4(bx80) @ 25°C</i>	39.2	ns	158
<i>mgls18 otls76 efn-4(e1746ts) @15°C</i>	15.4		156
<i>mgls18 otls76 efn-4(e1746ts) @ 20°C</i>	35.8	***	162
<i>mgls18 otls76 efn-4(e1746ts) @ 25°C</i>	35.3	ns	150
<i>mgls18 otls76 efn-4(e36) @15°C</i>	21.2		156
<i>mgls18 otls76 efn-4(e36) @20°C</i>	36.1	**	158
<i>mgls18 otls76 efn-4(e36) @25°C</i>	38.7	ns	168