

Table S2 C. elegans Transgenes Used in This Work

Transgene	Purpose	Used in	Source
<i>vsIs123</i>	Overexpression of MOD-1. Carries multiple copies of wild-type <i>mod-1</i> genomic DNA.	Figure 2	This work. Microinjection of a <i>mod-1</i> long-range PCR product at 20 ng/μl and pL15EK (a <i>lin-15</i> rescuing plasmid used as a coinjection marker) at 50 ng/μl. Chromosomal integration via UV/psoralen mutagenesis
<i>vsIs154</i> <i>vsIs163</i>	Expression of mCherry from the <i>mod-1</i> promoter. These two alleles are independent chromosomal integrants.	Figures 3, S1, File S3	This work. Microinjection of the <i>mod-1::mCherry</i> plasmid pGG17 at 65 ng/μl and pL15EK at 50 ng/μl. Chromosomal integration via UV/psoralen mutagenesis
<i>oxIs12</i>	Expression of GFP in GABAergic neurons from the <i>unc-47</i> promoter.	Figures 3, S1	McIntire <i>et al.</i> 1997 ^a
<i>ljIs102</i>	Expression of Channelrhodopsin2::YFP in the serotonergic NSM and ADF neurons.	Figure 4 File S4	Ezcurra <i>et al.</i> 2011
<i>nEx1403</i>	Rescue of the <i>ser-4</i> mutant phenotype by expression of a <i>ser-4</i> cDNA from the <i>ser-4</i> promoter.	Figure 5	This work. Microinjection of the plasmid pMG12 at 10 ng/μl and pL15EK at 20 ng/μl
<i>nEx1404</i>	Negative control for <i>ser-4</i> rescue. Similar to <i>nEx1403</i> except that the <i>ser-4</i> cDNA used carries a frame shift mutation that prevents expression of SER-4 protein.	Figure 5	This work. Microinjection of the plasmid pMG13 at 10 ng/μl and pL15EK at 20 ng/μl
<i>ljIs570</i>	Expression of GFP from the <i>ser-4</i> promoter.	Figure 3 File S3	A gift of S. Shyn and W. Schafer. Chromosomal integrant of the extrachromosomal transgene <i>adEx1616</i> from Tsalik <i>et al.</i> (2003)
<i>vsIs48</i>	Expression of GFP in cholinergic neurons from the <i>unc-17</i> promoter.	Data not shown	Chase <i>et al.</i> 2004

^a McIntire, S. L., R. J. Reimer, K. Schuske, R. H. Edwards, and E. M. Jorgensen, 1997 Identification and characterization of the vesicular GABA transporter. *Nature* 389: 870-876.