

Supplementary Information

Supplementary Table 1. Ubiquitous GFP expression model

Offset (kHz)	Control	SD	N	GFP	SD	N	Δ	+/-	% Diff	+/-	p-value
0.5	0.8181	0.0412	9	0.9079	0.0226	8	0.0898	0.045	10.98%	1.50%	<.0001
1	0.7465	0.0987	9	0.8883	0.0478	8	0.1418	0.105	19.00%	3.76%	0.0022
5	0.5210	0.0865	9	0.6586	0.0565	8	0.1375	0.100	26.40%	3.81%	0.0017
10	0.3966	0.1054	9	0.5270	0.0761	7	0.1303	0.135	32.86%	5.44%	0.0113
20	0.1614	0.1132	9	0.2236	0.1286	7	0.0621	0.183	38.49%	7.96%	0.3150

Supplementary Table 2. Cerebellar specific GFP expression model

Offset (kHz)	Control	SD	N	GFP	SD	N	Δ	+/-	% Diff	+/-	p-value
0.5	0.8667	0.0381	5	0.9045	0.0133	5	0.0378	0.063	4.36%	2.34%	0.0694
1	0.7823	0.0495	5	0.8530	0.0182	5	0.0707	0.082	9.04%	3.21%	0.0171
5	0.5576	0.0206	5	0.6146	0.0297	5	0.0570	0.056	10.22%	2.21%	0.0078
10	0.4482	0.0150	5	0.5078	0.0492	5	0.0596	0.080	13.30%	3.25%	0.0321
20	0.2042	0.0312	5	0.2693	0.0692	5	0.0650	0.119	31.83%	5.62%	0.0919

Supplementary Table 3. Cortex specific GFP expression model

Offset (kHz)	Control	SD	N	GFP	SD	N	Δ	+/-	% Diff	+/-	p-value
0.5	0.7863	0.0377	5	0.8639	0.0615	5	0.0776	0.113	9.87%	4.45%	0.0593
1	0.7421	0.0311	5	0.8512	0.0227	5	0.1091	0.060	14.71%	2.46%	0.0002
5	0.5871	0.0267	4	0.6148	0.0409	5	0.0278	0.095	4.73%	3.19%	0.0670
10	0.4820	0.0153	4	0.4103	0.0877	5	-0.0716	0.167	-14.86%	4.45%	0.1199
20	0.1782	0.0797	5	0.1231	0.1401	5	-0.0551	0.252	-30.93%	6.41%	0.7041

Legend for Tables. The **first column** is the offset frequency. The **second column** is the mean value for control animals. The **third column** is the standard deviation for control animals. The **fourth column** is the number of control animals. The **fifth column** is the mean value for GFP expressing animals. The **sixth column** is the standard deviation for control animals. The **seventh column** is the number of control animals. The **eight column** is the difference between the means. The **ninth column** is the 95% confidence interval of that difference. The **tenth column** is the percent difference between the means. The **eleventh column** is the 95% confidence interval of that percent difference. The **twelfth column** is the p-value for linear contrasts after Mixed-Model ANOVA between GFP and control animals.