Supplementary Text.

Table S1. Area coverage percentage for MBP and NeuN in the hippocampus

		MBP CA1	MBP SCWM	NeuN CA1	NeuN SCWM
Male	GA68	13.39 ± 0.61	39.68 ± 0.84	14.71 ± 0.60	20.03 ± 1.06
	Term Neo	13.06 ± 0.57	34.27 ± 0.80	16.62 ± 0.22	21.93 ± 0.77
P-values		0.7004	0.0005	0.0187	0.1635
Female	GA68	13.16 ± 0.62	38.99 ± 0.59	14.56 ± 0.34	18.96 ± 0.98
	Term Neo	12.97 ± 0.63	34.73 ± 1.09	16.76 ± 0.49	22.02 ± 0.50
P-values		0.8374	0.0043	0.0032	0.0165

Table S2. Relative mRNA expression of neurodevelopmentally-related genes in hippocampus

Gene ID	Male GA68	Male Term 24hr	P-value	Female GA68	Female Term 24hr	P-value
ABAT	1.006 ± 0.048	0.981 ± 0.022	0.6223	0.925 ± 0.023	0.987 ± 0.039	0.2477
AIF1	0.670 ± 0.038	0.713 ± 0.022	0.3235	0.731 ± 0.047	0.728 ± 0.029	0.9525
BDNF	0.742 ± 0.067	0.823 ± 0.032	0.2609	0.701 ± 0.056	0.800 ± 0.037	0.1585
CALB1	1.051 ± 0.040	0.892 ± 0.022	0.0031	1.064 ± 0.048	0.933 ± 0.059	0.1353
CAPN1	0.456 ± 0.012	0.911 ± 0.068	0.0002	0.407 ± 0.042	0.730 ± 0.030	<0.0001
CAPN2	0.300 ± 0.015	0.845 ± 0.068	<0.0001	0.255 ± 0.018	0.724 ± 0.069	0.0004
CAPNS1	1.197 ± 0.052	1.120 ± 0.057	0.3481	0.956 ± 0.041	1.076 ± 0.027	0.0276
CAST	1.201 ± 0.045	1.265 ± 0.099	0.6093	1.357 ± 0.056	1.275 ± 0.039	0.2403
CKAP5	0.986 ± 0.060	0.924 ± 0.063	0.5151	0.978 ± 0.068	0.875 ± 0.028	0.1488
CSPG4	0.121 ± 0.017	0.727 ± 0.178	0.0114	0.145 ± 0.030	0.630 ± 0.110	0.0039
DLG4	0.681 ±	0.989 ±	0.0004	0.708 ±	0.934 ±	0.0092

	0.029	0.050		0.032	0.054	
DNMT1	0.738 ± 0.040	1.040 ± 0.082	0.0114	0.702 ± 0.041	0.872 ± 0.046	0.0249
DNMT3A	0.340 ± 0.039	0.590 ± 0.143	0.1291	0.328 ± 0.036	0.376 ± 0.033	0.3570
ENO2	1.097 ± 0.043	1.058 ± 0.027	0.4355	0.976 ± 0.036	1.040 ± 0.022	0.1395
FYN	1.192 ± 0.093	1.011 ± 0.048	0.0858	1.082 ± 0.074	1.009 ± 0.039	0.3624
GABRA1	1.262 ± 0.126	1.098 ± 0.051	0.2067	1.043 ± 0.097	1.054 ± 0.062	0.9252
GABRA2	1.231 ± 0.108	1.059 ± 0.018	0.1746	1.150 ± 0.056	0.940 ± 0.037	0.0089
GABRA3	1.405 ± 0.305	0.844 ± 0.078	0.1276	1.276 ± 0.327	0.907 ± 0.112	0.2503
GABRA4	1.412 ± 0.158	1.089 ± 0.056	0.0993	1.255 ± 0.087	1.107 ± 0.083	0.2574
GABRA5	1.212 ± 0.059	1.070 ± 0.040	0.0605	1.174 ± 0.060	0.975 ± 0.044	0.0204
GABRD	0.817 ± 0.046	0.907 ± 0.030	0.1154	0.724 ± 0.031	0.864 ± 0.040	0.0283
GABRG2	1.364 ± 0.069	0.984 ± 0.074	0.0034	1.195 ± 0.061	1.106 ± 0.059	0.3316
GAD1 (67)	0.758 ± 0.031	0.952 ± 0.024	0.0003	0.769 ± 0.070	0.872 ± 0.044	0.2207
GAD2	0.819 ± 0.050	0.928 ± 0.031	0.0759	0.762 ± 0.046	0.874 ± 0.019	0.0312
GLS1	1.273 ± 0.102	0.940 ± 0.037	0.0205	1.135 ± 0.065	0.915 ± 0.050	0.0212
GRIA1	0.907 ± 0.059	0.941 ± 0.035	0.6067	0.914 ± 0.083	0.880 ± 0.050	0.7138
GRIA2	0.605 ± 0.037	1.021 ± 0.029	<0.0001	0.603 ± 0.035	0.947 ± 0.033	<0.0001
GRIA3	0.879 ± 0.052	0.853 ± 0.030	0.6573	0.775 ± 0.055	0.771 ± 0.041	0.9523
GRIA4	1.313 ± 0.162	0.906 ± 0.054	0.0540	1.208 ± 0.153	1.005 ± 0.081	0.2324

GRIN1	0.417 ± 0.024	0.741 ± 0.096	0.0113	0.366 ± 0.019	0.528 ± 0.048	0.0211
GRIN2A	0.934 ± 0.045	0.955 ± 0.067	0.8181	0.895 ± 0.103	0.897 ± 0.048	0.9852
GRIN2B	1.237 ± 0.102	1.146 ± 0.098	0.5405	1.281 ± 0.142	1.076 ± 0.092	0.2309
GRIN2C	0.650 ± 0.027	1.217 ± 0.093	0.0003	0.594 ± 0.068	1.103 ± 0.089	0.0018
GRIN2D	1.016 ± 0.061	1.025 ± 0.059	0.9234	1.119 ± 0.100	0.992 ± 0.039	0.2099
GRIN3A	0.657 ± 0.059	1.008 ± 0.083	0.0074	0.580 ± 0.035	0.882 ± 0.077	0.0112
GRM1	0.372 ± 0.020	0.711 ± 0.080	0.0034	0.330 ± 0.018	0.522 ± 0.055	0.0121
GRM2	0.473 ± 0.121	0.709 ± 0.072	0.1013	0.446 ± 0.087	0.678 ± 0.063	0.0507
GRM3	0.777 ± 0.044	0.948 ± 0.079	0.1126	0.794 ± 0.037	0.739 ± 0.018	0.1729
GRM4	0.258 ± 0.049	0.614 ± 0.184	0.0980	0.220 ± 0.046	0.424 ± 0.041	0.0084
GRM5	1.104 ± 0.060	0.984 ± 0.062	0.2025	1.072 ± 0.061	0.974 ± 0.043	0.2029
GRM7	1.377 ± 0.058	1.081 ± 0.051	0.0024	1.243 ± 0.071	1.133 ± 0.030	0.1423
GRM8	1.283 ± 0.193	1.026 ± 0.048	0.2478	1.245 ± 0.134	1.084 ± 0.039	0.3062
HNRNPA2B1	1.051 ± 0.022	0.857 ± 0.031	0.0005	1.185 ± 0.013	0.935 ± 0.032	<0.0001
IL1B	1.552 ± 0.189	0.944 ± 0.085	0.0075	1.631 ± 0.074	0.870 ± 0.043	0.0001
INA	0.627 ± 0.032	0.897 ± 0.053	0.0017	0.511 ± 0.052	0.797 ± 0.080	0.0216
KIF1B	1.090 ± 0.059	0.939 ± 0.068	0.1345	1.062 ± 0.062	0.883 ± 0.043	0.0338
MBP	0.575 ± 0.061	0.846 ± 0.069	0.0154	0.547 ± 0.018	0.739 ± 0.081	0.0545

MOG	1.891 ± 0.209	1.878 ± 0.233	0.9676	1.846 ± 0.201	1.465 ± 0.154	0.1576
NCAM1	1.290 ± 0.095	1.059 ± 0.072	0.0713	1.169 ± 0.045	0.930 ± 0.027	0.0007
NEFH	0.990 ± 0.102	1.115 ± 0.103	0.4170	0.847 ± 0.078	0.968 ± 0.080	0.3187
NEFL	0.333 ± 0.015	0.743 ± 0.253	0.1489	0.288 ± 0.027	0.415 ± 0.045	0.0552
NEFM	0.187 ± 0.013	0.562 ± 0.187	0.0851	0.175 ± 0.011	0.271 ± 0.055	0.1340
NFKB1	0.448 ± 0.070	0.768 ± 0.093	0.0239	0.404 ± 0.040	0.613 ± 0.066	0.0348
NR3C1	1.171 ± 0.049	0.998 ± 0.067	0.0740	1.106 ± 0.064	0.975 ± 0.031	0.0703
NR3C2	1.177 ± 0.080	1.177 ± 0.081	0.9953	1.142 ± 0.129	1.002 ± 0.059	0.3011
NTRK2	1.105 ± 0.099	0.971 ± 0.053	0.2254	0.985 ± 0.071	0.900 ± 0.041	0.2925
OLIG2	0.536 ± 0.026	0.776 ± 0.161	0.1834	0.531 ± 0.030	0.634 ± 0.107	0.3836
PCBP1	0.544 ± 0.017	0.805 ± 0.109	0.0488	0.546 ± 0.027	0.705 ± 0.050	0.0321
PLP1	1.217 ± 0.097	1.179 ± 0.061	0.7282	1.138 ± 0.078	1.067 ± 0.078	0.5414
PVALB	0.620 ± 0.067	1.081 ± 0.119	0.0096	0.554 ± 0.067	1.008 ± 0.097	0.0056
QKI	1.096 ± 0.107	1.038 ± 0.050	0.6055	1.131 ± 0.051	1.029 ± 0.048	0.1820
RBFOX3	0.598 ± 0.055	0.912 ± 0.142	0.0699	0.532 ± 0.029	0.641 ± 0.026	0.0199
SLC12A2	1.417 ± 0.127	1.194 ± 0.073	0.1322	1.101 ± 0.024	1.301 ± 0.114	0.1327
SLC12A5	1.034 ± 0.059	0.974 ± 0.053	0.4685	0.892 ± 0.038	0.966 ± 0.066	0.4032
SLC17A6	1.008 ± 0.156	0.810 ± 0.083	0.2424	0.833 ± 0.161	0.778 ± 0.154	0.8087

SLC17A7	0.804 ± 0.025	0.917 ± 0.060	0.1171	0.763 ± 0.023	0.841 ± 0.026	0.0557
SLC17A8	0.545 ± 0.045	0.967 ± 0.093	0.0033	0.369 ± 0.048	0.745 ± 0.052	0.0005
SLC1A2	0.501 ± 0.024	0.872 ± 0.049	<0.0001	0.528 ± 0.018	0.775 ± 0.061	0.0058
SLC1A3	1.459 ± 0.109	1.041 ± 0.058	0.0034	1.223 ± 0.073	1.119 ± 0.046	0.2499
SLC32A1	0.134 ± 0.006	0.471 ± 0.140	0.0469	0.102 ± 0.011	0.224 ± 0.049	0.0475
SLC6A1	0.766 ± 0.026	0.985 ± 0.044	0.0020	0.780 ± 0.082	0.890 ± 0.030	0.1848
SLC6A11	0.454 ± 0.033	0.696 ± 0.070	0.0155	0.526 ± 0.046	0.530 ± 0.046	0.9560
SRD5A1	0.851 ± 0.106	0.795 ± 0.083	0.6795	0.632 ± 0.068	0.601 ± 0.061	0.7494
SRD5A2	0.660 ± 0.146	0.660 ± 0.100	0.9985	1.035 ± 0.257	0.807 ± 0.209	0.5038
SST	0.278 ± 0.014	0.701 ± 0.175	0.0524	0.227 ± 0.016	0.465 ± 0.054	0.0040
STAR	0.581 ± 0.089	0.557 ± 0.031	0.8071	0.471 ± 0.042	0.617 ± 0.071	0.1426
SYP	0.763 ± 0.025	0.912 ± 0.035	0.0067	0.631 ± 0.028	0.858 ± 0.052	0.0064
TSPO	0.129 ± 0.036	0.478 ± 0.105	0.0123	0.094 ± 0.023	0.381 ± 0.093	0.0215
VEGFA	1.105 ± 0.185	0.979 ± 0.094	0.5225	0.893 ± 0.098	0.854 ± 0.075	0.7550