

Altschuler Laboratory

Differential Gene Expression

Protein or Gene	Mean Expression Level			Fold Change			p value		
	21 Day	3 Day	Normal	21d/3d	21d/Norm	3d/Norm	21d vs 3d	21d vs Norm	3d vs Norm
Synaptosomal-associated protein, 25 kDa	12207	12980	3616	0.94	3.38	3.59	0.556559	1.26E-06	5.45E-07
glutamate receptor, ionotropic, AMPA3 (alpha 3)	357	334	94	1.07	3.57	3.34	0.734527	7.08E-05	8.11E-05
Synaptosomal-associated protein, 25 kDa	10681	11186	3384	0.95	3.16	3.31	0.662998	3.34E-06	1.61E-06
Synaptosomal-associated protein, 25 kDa	5467	5643	1784	0.97	3.06	3.16	0.763114	1.66E-06	9.22E-07
Glycine receptor alpha 2 subunit (glycine receptor, neonatal)	542	578	209	0.94	2.6	2.77	0.372009	7.12E-07	2.43E-07
Gamma-aminobutyric acid receptor beta 1	533	492	185	1.08	2.88	2.66	0.493629	0.000902	0.001946
Glutaminase	2924	3295	1487	0.89	1.97	2.22	0.173459	6.42E-05	9.58E-06
gamma-aminobutyric acid (GABA-A) receptor, subunit alpha 5	4611	4554	2065	1.01	2.23	2.21	0.972629	0.000442	0.000327
Gamma-aminobutyric acid receptor beta 3	199	220	90	0.9	1.99	2.2	0.461189	0.007618	0.002018
GABA-alpha receptor gamma-3 subunit	4151	3969	1831	1.05	2.27	2.17	0.711882	2.16E-05	2.44E-05
Sodium channel, voltage-gated, type III, alpha polypeptide	181	207	100	0.87	1.8	2.07	0.28098	0.00894	0.001381
glutamate receptor, ionotropic, AMPA2 (alpha 2)	1741	1616	787	1.08	2.21	2.05	0.76164	0.000981	0.001198
synaptic vesicle glycoprotein 2 b	643	667	326	0.96	1.98	2.05	0.752836	0.000607	0.000306
5-hydroxytryptamine (serotonin) receptor 2C	799	716	358	1.12	2.23	2	0.472979	0.001489	0.003503
preproenkephalin, related sequence	1861	1953	3982	0.95	0.47	0.49	0.443759	2.73E-07	3.67E-07
immediate early gene transcription factor NGFI-B	284	303	630	0.94	0.45	0.48	0.671927	7.07E-05	9.02E-05
Early growth response 1	230	175	366	1.32	0.63	0.48	0.066794	0.00795	0.000354
Brain derived neurotrophic factor	178	134	376	1.32	0.47	0.36	0.122967	0.000717	6.51E-05
immediate early gene transcription factor NGFI-B	299	300	1060	0.99	0.28	0.28	0.985226	4.64E-07	3.30E-07
jun B proto-oncogene	123	98	370	1.23	0.33	0.27	0.196122	1.11E-05	2.13E-06



Early growth response 1	4248	2202	9880	1.93	0.43	0.22	0.003618	0.002858	2.01E-05
VGF nerve growth factor inducible	867	749	4959	1.16	0.17	0.15	0.468579	6.38E-07	2.52E-07
Rattus norvegicus K+ channel protein (KSHIIIA3) mRNA, complete cds	251	211	108	1.19	2.32	1.95	0.225414	0.00115	0.005972
glutamate receptor, ionotropic, AMPA4 (alpha 4)	200	196	94	1.02	2	1.96	0.793615	0.002407	0.002866
dopamine receptor 3	-56	-66	-53	1	1	1	0.616159	0.81969	0.50881
homer, neuronal immediate early gene, 2	151	138	131	1.1	1.16	1.05	0.658191	0.426392	0.651925
homer, neuronal immediate early gene, 2	99	109	78	0.92	1	1.09	0.53667	0.222301	0.086515
homer, neuronal immediate early gene, 2	142	197	202	0.72	0.7	0.98	0.044242	0.082884	0.980139
Cytochrome P450, subfamily IID2	177	174	240	1.02	0.74	0.73	0.868672	0.11883	0.085098
Rat cytochrome P-450 IID3 mRNA, complete cds	162	138	79	1.18	1.62	1.38	0.427453	0.018655	0.055429
gamma-aminobutyric acid (GABA) B receptor, 1	281	324	350	0.87	0.8	0.93	0.084071	0.03142	0.377753
Rattus norvegicus voltage-gated sodium channel mRNA, complete cds	78	75	36	1	1	1	0.796215	0.012694	0.015991
synaptotagmin 11	348	252	235	1.38	1.48	1.07	0.133761	0.138366	0.796664
potassium intermediate/small conductance calcium-activated channel, subfamily N, member 1	175	174	159	1.01	1.1	1.09	0.936919	0.556421	0.588571
Glutamate receptor, ionotropic, N-methyl D-aspartate 2A	520	555	456	0.94	1.14	1.22	0.750061	0.342733	0.218932
bcl-2 associated death agonist	681	754	938	0.9	0.73	0.8	0.107991	0.000706	0.007036
potassium large conductance calcium-activated channel, subfamily M, beta member 1	425	439	442	0.97	0.96	0.99	0.764378	0.733021	0.923504
putative potassium channel TWIK	1110	1125	1331	0.99	0.83	0.85	0.89958	0.052954	0.056717
potassium channel, subfamily K, member 3	-17	7	95	1	1	1	0.272957	0.004741	0.022416
GABA-B R2 receptor	284	263	233	1.08	1.22	1.13	0.259676	0.03487	0.170374