

TABLE 3. Expression differences between PS1PS2KO and CNT in the HIPPOCAMPUS (>50%, p<0.05)

Probe Set	Gene Title	Symbol	Unigene	NCBI ID	ALR all	ALR HC	ALR FC	pVal ALL	PrPval HC	PrPval FC
1454866_s_at	chloride intracellular channel 6	Clc6c	Mm.44747.1	BC176424	1.49	3.03	-0.06	0.09138	0.01047	0.84647
1460049_s_at	RIKEN cDNA 1500015O10 gene	1500015O10R	Mm.213028.1	BB392676	1.24	2.32	0.16	0.07481	0.02017	0.77927
1438200_at	sulfatase 1	Sulf1	Mm.45563.1	BB065799	0.75	1.24	0.26	0.02865	0.01863	0.28295
1417266_at	chemokine (C-C motif) ligand 6	Ccl6f	Mm.137.1	BC002073	1.58	1.23	1.92	0.00025	0.04007	0.00373
1426509_s_at	glial fibrillary acidic protein	Gfap	Mm.1239.1	BB183081	1.43	1.13	1.73	0.00124	0.04247	0.02356
1440807_at	Membrane associated guanylate kinase 2	Mag2	Mm.132480.1	BB337886	0.86	1.05	0.66	0.03780	0.02008	0.40748
1429135_at	RIKEN cDNA 1110059M19 gene	1110059M19R	Mm.23496.1	AV015858	0.69	1.03	0.34	0.02029	0.03778	0.25963
1429846_at	RIKEN cDNA 933041K21 gene	933041K21R	Mm.102489.1	BM250766	0.89	1.03	0.76	0.03484	0.02051	0.15335
1452968_at	collagen triple helix repeat containing 1	Ctrc1c1	Mm.41556.1	AK038744	0.96	1.00	0.92	0.00030	0.02034	0.04006
1437726_x_at	complement component 1, q subcomponent, beta	C1qb	Mm.2570.3	BB111335	0.96	0.94	0.98	0.00025	0.02432	0.01219
1437060_at	olfactomedin 4	Olfm4	Mm.26456.1	AV290148	0.47	0.94	-0.01	0.11200	0.04006	0.95601
1445555_at	transient receptor potential cation channel M3	Trpm3	Mm.48730.1	AW125244	0.52	0.93	0.10	0.04566	0.02090	0.51958
1443770_x_at	---	BB026407	Mm.127920.1	BB026407	0.45	0.91	0.00	0.11684	0.03607	0.99130
1446772_at	---	BB453864	Mm.215970.1	BB453864	0.67	0.87	0.47	0.00352	0.01143	0.12967
1456923_at	transient receptor potential cation channel M3	Trpm3	Mm.127343.1	BB377721	0.27	0.87	-0.33	0.40039	0.01051	0.29035
1427076_at	macrophage expressed gene 1	Mpeg1	Mm.3999.1	L20315	0.93	0.85	1.01	0.00038	0.03121	0.01347
1415894_at	ectonucleotide phosphodiesterase 2	Enpp2	Mm.28107.1	BC003264	0.42	0.84	0.01	0.06130	0.04547	0.90588
1423400_at	klf8	Klf8	Mm.6390.1	BC175355	0.54	0.75	0.33	0.03760	0.04044	0.48811
1441102_at	prolactin receptor	Prlr	Mm.33737.1	BB428201	0.37	0.75	0.01	0.03867	0.02066	0.94457
1456440_s_at	ST8 alpha-N-acetylneuraminidase 2, 8-sialyltransferase	St8sia6	Mm.24267.2	AV375081	0.63	0.72	0.53	0.02041	0.00816	0.31737
1428485_at	carbonic anhydrase 12	Car12	Mm.21397.1	AK009873	0.29	0.71	-0.13	0.12441	0.01155	0.34749
1436905_x_at	lysosomal-associated protein transmembrane 5	Laptm5	Mm.4554.2	BB218107	0.71	0.69	0.73	0.00014	0.01123	0.01530
1441679_at	---	BB126796	Mm.213317.1	BB126796	0.34	0.67	0.00	0.13751	0.03044	0.98642
1454653_at	copine family member IX	Cpne9	Mm.65597.1	BB274531	0.14	0.66	-0.38	0.62151	0.01389	0.25710
1456633_at	transient receptor potential cation channel M3	Trpm3	Mm.131943.1	BB313276	0.30	0.65	-0.04	0.12272	0.01229	0.78653
1424684_at	RAB5c, member RAS oncogene family	Rab5c	Mm.29829.1	BC023027	0.29	0.64	-0.05	0.09196	0.03337	0.62671
1417869_s_at	cathepsin Z	Ctsz	Mm.196919.1	NM_022325	0.70	0.64	0.76	0.00157	0.04719	0.03422
1448536_at	prolactin receptor	Prlr	Mm.33737.1	BC035555	0.33	0.63	0.50	0.03323	0.04041	0.60271
1434719_at	alpha-2-macroglobulin	A2m	Mm.30151.1	BB185854	0.57	0.63	0.50	0.00029	0.00158	0.05596
1420720_at	neuronal pentraxin 2	Npt2	Mm.10099.1	NM_016789	0.38	0.62	0.14	0.02269	0.03879	0.31888
1433734_at	solute carrier family 13, member 4	Slc13a4	Mm.23666.1	BB192951	0.25	0.62	-0.12	0.20677	0.01648	0.14206
1456435_at	MORN repeat containing 1	Morn1	Mm.19009.1	AI425983	0.49	0.61	0.37	0.00509	0.01983	0.17704
1422124_a_at	protein tyrosine phosphatase, receptor type, C	Ptprc	Mm.143846.1	NM_011210	0.71	0.61	0.81	0.00493	0.04972	0.07405
1438643_at	Calcium/calmodulin-dependent protein kinase ID	Camk1d	Mm.133375.1	BB230839	0.32	0.61	0.04	0.07724	0.01478	0.81078
1418047_at	neurogenic differentiation 6	Neurod6	Mm.5106.1	NM_009717	0.32	0.60	0.03	0.04949	0.03655	0.76196
1434366_x_at	complement component 1, q subcomponent, beta	C1qb	Mm.2570.2	AW227993	0.69	0.60	0.78	0.00113	0.03548	0.03044
1439026_at	transient receptor potential cation channel M3	Trpm3	Mm.92048.1	BB125842	0.44	0.59	0.29	0.00474	0.00756	0.15212
1459378_at	glutamate receptor ionotropic, NMDA3A	Gria3a	Mm.132574.1	AV328567	-0.32	0.59	-0.05	0.04855	0.00182	0.48771
1431684_at	RIKEN cDNA 433241G12 gene	433241G12R	Mm.18284.1	AK016624	0.41	0.59	0.20	0.01218	0.00823	0.08238
1426115_a_at	potassium inwardly-rectifying channel, subfamily J9	Kcnj9	Mm.4278.2	AF130860	-0.45	0.59	-0.30	0.00300	0.03806	0.02622
1416702_at	serine peptidase-inhibitor, clade I, member 1	Serpin1	Mm.41560.1	NM_009250	-0.31	0.59	-0.04	0.04944	0.04801	0.70819
1444020_at	neuracan	Ncan	Mm.156790.1	BM939365	-0.40	0.59	-0.20	0.01182	0.03530	0.02830
1431064_at	dipeptidylpeptidase 8	Dpp8	Mm.202749.1	BF119821	-0.36	0.59	-0.14	0.02217	0.00553	0.25898
1458518_at	cytoplasmic polyadenylation element binding 2	Cpeb2	Mm.151602.1	BM935843	-0.40	0.60	-0.20	0.02995	0.01552	0.43622
1444139_at	DNA-damage-inducible transcript 4-like	Ddit4l	Mm.205420.1	BG797099	-0.68	0.60	-0.76	0.00392	0.03772	0.10333
1431229_at	imprinted gene in the Prader-Willi syndrome region	Ipw	Mm.220871.1	AK019361	-0.42	0.60	-0.23	0.01346	0.00086	0.29805
1440390_at	cDNA sequence BC025575	BC025575	Mm.100100.1	BE980997	-0.39	0.61	-0.17	0.01278	0.00756	0.05277
1456683_at	SARF-1b, transcription modulator	Slrm	Mm.80900.1	BM200011	-0.55	0.61	-0.49	0.00364	0.01682	0.15306
1428376_at	RIKEN cDNA 433241G12 gene	433241G12R	Mm.18284.1	AK016624	0.41	0.61	0.20	0.01218	0.00823	0.08238
1438205_at	RIKEN cDNA 1110014N23R gene	1110014N23R	Mm.29451.2	BE892418	-0.37	0.61	-0.12	0.02899	0.01992	0.24460
1456304_at	gene model 996, (NCBI)	Gm996	Mm.44116.1	BF463551	-0.40	0.62	-0.18	0.02139	0.04583	0.11569
1422331_at	POU domain, class 3, transcription factor 3	Pou3f3	Mm.56944.1	NM_008900	-0.39	0.62	-0.17	0.00419	0.00322	0.21468
1435615_at	zinc finger protein 365	Zfp365	Mm.39548.2	BB277790	-0.38	0.63	-0.13	0.02403	0.00430	0.24051
1447207_at	z/yq-1l homolog B (C. elegans)	Zyp11b	Mm.219003.1	BE946949	-0.49	0.63	-0.35	0.00965	0.04375	0.20127
1429684_at	RIKEN cDNA 5830472M02 gene	5830472M02R	Mm.89828.1	BG094398	-0.46	0.63	-0.29	0.00869	0.04559	0.12443
1431216_s_at	DnaJ (Hsp40) homolog, subfamily C, member 6	Dnajc6	Mm.181754.1	BI730538	-0.41	0.63	-0.18	0.01572	0.00585	0.23669
1429696_at	G protein-coupled receptor 123	Gpr123	Mm.39863.1	BE946247	-0.46	0.63	-0.29	0.00763	0.00177	0.02047
1434885_at	SPT2, suppressor of Ty, domain containing 1	Spt2d1	Mm.24055.1	BA224254	-0.34	0.63	-0.05	0.03942	0.03896	0.81331
1434805_at	dapper homolog 3, antagonist of beta-catenin	Dm3	Mm.18284.1	AK016624	0.41	0.63	0.20	0.01218	0.00823	0.08238
1431465_s_at	lory-2w-three domain containing 1	Fyttl1	Mm.195995.1	AK008130	-0.48	0.65	-0.32	0.00697	0.02416	0.17016
1422949_at	nitric oxide synthase 1, neuronal	Nos1	Mm.44249.1	NM_008712	-0.26	0.65	0.13	0.13029	0.01141	0.31277
1459750_s_at	G protein-coupled receptor 123	Gpr123	Mm.195306.1	AU015577	-0.49	0.65	-0.33	0.01531	0.02070	0.30183
1430395_at	ankyrin repeat domain 45	Ankrd45	Mm.87356.1	AK016757	-0.44	0.65	-0.22	0.01046	0.01552	0.10166
1429187_at	transmembrane emp24 transport domain 7	Tmed7	Mm.220909.1	AV306753	-0.39	0.65	-0.12	0.03836	0.04615	0.14143
1442099_at	ubiquitin specific peptidase 31	Usp31	Mm.171183.1	BM227490	-0.45	0.65	-0.24	0.00728	0.00627	0.11215
1427017_at	special AT-rich sequence binding protein 2	Satb2	Mm.73537.1	BB104560	-0.51	0.66	-0.35	0.00558	0.04735	0.07620
1435877_at	serine/threonine kinase 38 like	Sik38l	Mm.100606.1	BB476811	-0.44	0.66	-0.22	0.02392	0.04908	0.27982
1435385_at	teashirt zinc finger family member 2	Tshz2	Mm.28740.1	AV556161	-0.24	0.66	0.19	0.28054	0.02020	0.17376
1443434_s_at	plevin C1	Plevin1	Mm.182760.1	AK017262	-0.52	0.66	-0.27	0.00302	0.00800	0.12769
1450041_a_at	lubby candidate gene	Luby1	Mm.4804.1	NM_021885	-0.39	0.68	-0.10	0.03133	0.01312	0.62859
1428052_a_at	zinc finger, MYM domain containing 1	Zymf1	Mm.80623.2	BC027750	-0.57	0.68	-0.45	0.00393	0.04126	0.08303
1435234_at	nuclear receptor coactivator 2	Ncoa2	Mm.9636.1	BM234716	-0.40	0.68	-0.12	0.04606	0.02359	0.52424
1460025_at	leucine-rich and immunoglobulin-like domains 2	Lrig2	Mm.122660.1	BB129159	-0.43	0.68	-0.19	0.01336	0.00962	0.02408
1422151_at	opposite strand transcription unit to Stag3	Gats	Mm.160250.1	NM_030719	-0.45	0.68	-0.21	0.01173	0.03421	0.17128
1440228_at	RAN binding protein 6	Ranbp6	Mm.138234.1	BB477637	-0.42	0.68	-0.16	0.02612	0.02937	0.21807
1453760_at	mesoderm induction early response 1 homolog	Mier1	Mm.100190.1	BG963598	-0.40	0.69	-0.11	0.03805	0.03233	0.23409
1434851_at	RIKEN cDNA 8430415E04 gene	8430415E04R	Mm.151153.1	BE980275	-0.45	0.69	-0.22	0.01658	0.04884	0.03419
1434112_at	latrophilin 2	Lphn2	Mm.30698.1	BG966339	-0.40	0.69	-0.11	0.02793	0.00104	0.01476
1427570_at	nuclear receptor subfamily 4, group A, member 2	Nr1h2	Mm.3507.1	NM_013136	-0.47	0.69	-0.23	0.01912	0.01019	0.27450
1424867_at	---	BQ174216	Mm.194351.1	BQ174216	-0.39	0.71	0.07	0.10367	0.03385	0.82457
1429262_a_at	splicing factor 3b, subunit 2	Sf3b2	Mm.196532.1	BF022081	-0.40	0.71	-0.09	0.05242	0.04038	0.35578
1434917_at	cordons-bleu	Cobl	Mm.22847.1	BQ173923	-0.43	0.71	-0.14	0.03121	0.02830	0.25494
1447944_at	zinc finger with KRAB and SCAN domains 1	Zkscan1	Mm.25477.2	BB006473	-0.53	0.71	-0.35	0.00603	0.04890	0.06630
1454950_at	RIKEN cDNA B930006L02 gene	B930006L02R	Mm.148313.1	BB699417	-0.44	0.71	-0.16	0.02910	0.02641	0.29703
1423287_at	cerebellin 1 precursor protein	Cbln1	Mm.4880.1	AA016422	-0.38	0.71				