

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	BCQ176424	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	Mm.1110059M19R	Mm.23496.1	AV015858	0.69	1.03	0.34	0.02029	0.03778	0.25963
1428946 at	RIKEN cDNA 903041K21 gene	903041K21R	Mm.100489.1	BM250766	0.88	1.09	0.75	0.00464	0.02851	0.15335
1425298 at	collagen triple helix repeat containing 1	Ctrc1c	Mm.41556.1	AK036714	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	0.00290	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	Klotho	Kltho	Mm.6590.1	BQ175355	0.54	0.75	0.33	0.03750	0.04444	0.48811
1441102 at	prolactin receptor	Prlr	Mm.32737.1	BB428201	0.37	0.75	-0.01	0.03867	0.02068	0.94457
1456440_s at	ST8 a-N-acetyl-neuraminide alpha-2,8-sialyltransferase 12	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	Ctstz	Mm.156919.1	NM_023225	0.70	0.64	0.76	0.00157	0.04719	0.03422
1448533 at	prolactin receptor	Prlr	Mm.27131.1	BC055555	0.33	0.61	0.03	0.03325	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	Nptx2	Mm.10099.1	NM_016789	0.38	0.62	0.14	0.02259	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	0.01583	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
1439326 at	transient receptor potential cation channel M3	Trpm3	Mm.92048.1	BB125842	0.44	0.59	0.29	0.00474	0.00756	0.15212
1459878 at	glutamate receptor ionotropic, NMDA3A	Gria3a	Mm.132574.1	AV325957	-0.32	-0.59	-0.05	0.04855	0.00046	0.48771
1431684 at	glutamate receptor ionotropic, NMDA2A	Gria2a	Mm.196242.1	AK015138	0.41	-0.59	-0.18	0.01067	0.00889	0.98028
1426115_a at	potassium inwardly-rectifying channel, subfamily 39	Kcnj9	Mm.4278.2	AF130860	-0.45	-0.59	-0.30	0.00300	0.03806	0.02622
1416702 at	serine peptidase inhibitor, clade 1, 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	BM093365	-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	Dtd4l	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-like transcription modulator	Sltm	Mm.86060.1	BM20001.1	-0.55	-0.61	-0.49	0.00364	0.01682	0.15306
1428376 at	RIKEN cDNA 4932415G12 gene	4932415G12R	Mm.116284.1	AK015138	0.41	-0.61	0.21	0.01218	0.00941	0.14448
1438205 at	RIKEN cDNA 110014N23 gene	110014N23R	Mm.29451.2	BE692418	-0.37	-0.61	-0.12	0.02899	0.01992	0.24160
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	0.03022	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	zyg-II homolog B (C. elegans)	Zyg11b	Mm.219003.1	BE946949	-0.49	-0.63	-0.35	0.00965	0.04375	0.20127
1429684 at	RIKEN cDNA 583047M02 gene	583047M02R	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	0.00917	0.02047
1434885 at	SPT2, Suppressor of Ty, domain containing 1	Spt2d1	Mm.24055.1	BM242524	-0.34	-0.63	-0.05	0.03042	0.00645	0.81331
1434805 at	dapper homolog 3, antagonist of beta-catenin	Dppr3	Mm.65509.1	AW122309	-0.44	-0.63	-0.24	0.00725	0.01072	0.05822
1431465_s at	forty-two-three domain containing 1	Fyt01	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.195308.1	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	Slk38l	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	AW556161	-0.24	-0.68	0.19	0.28054	0.00203	0.17376
1445434_s at	plevin C1	Plevn1	Mm.186760.1	AK015138	0.41	-0.68	0.37	0.00302	0.00049	0.12769
1450041_a at	lubbly candidate gene	Lub1	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	Zymy1	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.30658.1	BG963339	-0.40	-0.69	-0.11	0.02793	0.00104	0.04176
1447570_a at	nuclear receptor subfamily 4, group A, member 2	Nr4a2	Mm.36027.1	AK015138	0.41	-0.71	0.07	0.00302	0.00049	0.27450
1442867 at	---	BQ174216	Mm.194351.1	BQ174216	-0.39	-0.71	0.07	0.10367	0.03395	0.82457
1429362_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	cordon-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	-0.04	0.04034	0.01442	0.80020
1435134 at	arylsulfatase deacetylase-like 1	Aadac1	Mm.24576.1	AV369935	-0.46	-0.71	-0.20	0.01456	0.01588	0.04136
1441325 at	NF-kappaB repressing factor	Nkfr	Mm.151033.1	BE952938	-0.52	-0.72	-0.32	0.01456	0.04743	0.23025
1450184_s at	thryotroph embryonic factor	Tref	Mm.154152.1	NM_013736	-0.39	-0.72	-0.05	0.02412	0.01624	0.24758
1441084 at	RIKEN cDNA E330039K12R gene	E330039K12R	Mm.153053.1	AK015138	0.41	-0.73	0.16	0.01956	0.00049	0.13178
1432363 at	MAK10 homolog, amino-acid N-acetyltransferase	MaK10	Mm.195964.1	AK021042	-0.50	-0.73	-0.28	0.00554	0.01015	0.02561
1430144 at	RIKEN cDNA 583041G16 gene	583041G16R	Mm.105343.1	BB815600	-0.59	-0.73	-0.45	0.00053	0.01204	0.00490
1453860_s at	nuclear receptor subfamily 3, group C, member 1	Nr3c1	Mm.220887.1	BB600983	-0.57	-0.73	-0.41	0.01480	0.04249	0.26705
1434374 at	RIKEN cDNA B930006L02 gene	B930006L02R	Mm.148313.1	BB699417	-0.45	-0.74	-0.17	0.02705	0.00911	0.35909