Supplementary Table 3. The list of 155 differentially expressed proteins between Tg-ctrl and WT-ctrl in hippocampus, medial prefrontal cortex, and striatum.

Protein accession	Protein names	Gene names	Average LFQ intensity (Log2)		Proteins expression	Number of peptides	Molecular weight (kDa)	Maxquant score	MS/MS count	*p*-value	*q*-value
			WT-Ctrl	Tg-ctrl							
Hippocampus											
Q6NZJ6	Eukaryotic translation initiation fac	Eif4g1	20.8970	22.1113	↑	13	145.3100	36.8620	23	0.0265	1.0000
O88851	Putative hydrolase RBBP9	Rbbp9	22.9667	21.0090	↓	5	20.9120	8.7100	19	0.0429	1.0000
A2CG49	Kalirin	Kalrn	19.9434	22.1540	↑	13	270.6500	39.2350	13	0.0026	0.8268
Q9WUM3	Coronin;Coronin-1B	Coro1b	22.2995	24.1770	↑	11	53.9120	62.3110	44	0.0437	1.0000
Q3THK7	GMP synthase [glutamine-hydrolyz	Gmps	21.8384	22.3475	↑	12	76.7230	87.9210	28	0.0121	1.0000
Q9EPW0	Type I inositol 3,4-bisphosphate 4-p	Inpp4a	19.4460	22.1348	↑	8	99.9710	66.8520	14	0.0091	1.0000
Q6PCP5	Mitochondrial fission factor	Mff	23.1648	21.5863	↓	4	35.8780	44.5930	31	0.0327	1.0000
Q6ZPQ6	Membrane-associated phosphatidy	Pitpnm2	19.5062	21.1252	↑	7	147.6200	11.2040	7	0.0070	1.0000
Q9ESN6	Tripartite motif-containing protein	Trim2	21.4667	22.8229	↑	13	81.4260	158.7400	45	0.0392	1.0000
Q811P8	Rho GTPase-activating protein 32	Arhgap32	19.8694	21.5248	↑	3	190.3400	6.3875	4	0.0122	1.0000
O08688	Calpain-5	Capn5	21.1442	19.9710	↓	4	72.9530	17.7620	6	0.0345	1.0000
O70310	Glycylpeptide N-tetradecanoyltrans	Nmt1	19.9778	23.1383	↑	9	56.8880	41.0160	23	0.0006	0.9550
P03995	Glial fibrillary acidic protein	Gfap	26.5812	28.7801	↑	32	49.8990	323.3100	906	0.0111	1.0000
P18052	Receptor-type tyrosine-protein phc	Ptpra	20.2309	21.9097	↑	6	89.8410	30.8560	8	0.0111	1.0000
P21278	Guanine nucleotide-binding proteir	Gna11	24.1167	22.8790	↓	17	41.9300	123.8400	60	0.0321	1.0000
P58389	Serine/threonine-protein phosphat	Ppp2r4	25.7674	24.8593	↓	10	36.7100	110.9200	91	0.0444	1.0000
P61358	60S ribosomal protein L27	Rpl27	21.2556	24.0466	↑	4	15.7980	9.9322	58	0.0359	1.0000
P68040	Guanine nucleotide-binding proteir	Gnb2l1	25.0238	24.2105	↓	16	35.0760	269.2200	110	0.0128	1.0000
P70333	Heterogeneous nuclear ribonucleo	Hnrnph2	20.5472	22.3261	↑	9	49.2790	123.0600	20	0.0192	1.0000
P97379	Ras GTPase-activating protein-bind	G3bp2	21.4925	23.5600	↑	11	50.6470	41.2190	35	0.0072	1.0000
Q2M3X8	Phosphatase and actin regulator 1;I	Phactr1	19.1495	21.6413	↑	6	66.2850	15.5810	15	0.0077	1.0000
Q9WUA2	Phenylalanine--tRNA ligase beta sul	Farsb	21.5868	22.6129	↑	9	65.5650	38.2960	40	0.0323	1.0000
Q99MK8	Beta-adrenergic receptor kinase 1	Adrbk1	20.0617	21.5204	↑	7	79.6380	20.9370	19	0.0087	1.0000
Q791V5	Mitochondrial carrier homolog 2	Mtch2	25.8473	25.4320	↓	12	33.4890	128.2600	210	0.0415	1.0000
Q9CXY6	Interleukin enhancer-binding factor	Ilf2	21.8597	21.2130	↓	6	43.0100	21.0150	12	0.0007	0.5322
Q9D819	Inorganic pyrophosphatase	Ppa1	25.2424	23.7469	↓	11	32.6670	123.5600	94	0.0277	1.0000
Q61011	Guanine nucleotide-binding proteir	Gnb3	22.6972	20.6532	↓	4	32.4010	3.2112	22	0.0014	0.7569

Q5M8N4	Epimerase family protein SDR39U1	Sdr39u1	21.0362	19.2780	↓	3	32.9940	3.7820	9	0.0016	0.6102
Q63810	Calcineurin subunit B type 1	Ppp3r1	20.8786	24.5775	↑	3	19.3000	12.4220	19	0.0338	1.0000
P12023	Amyloid beta A4 protein;N-APP;Sol	App	22.2759	25.3210	↑	16	78.4420	191.7700	107	0.0302	1.0000
Q9JKY5	Huntingtin-interacting protein 1-rel	Hip1r	20.9238	21.9259	↑	7	119.3700	17.6830	11	0.0177	1.0000
Q6P5E4	UDP-glucose:glycoprotein glucosylt	Uggt1	20.0153	21.1116	↑	7	176.4300	11.1790	7	0.0433	1.0000
Q6ZWN5	40S ribosomal protein S9	Rps9	24.1594	24.9890	↑	10	22.5910	33.3710	104	0.0053	1.0000
Q80U56	Late secretory pathway protein AVI	Avl9	21.1760	19.8821	↓	4	72.1850	18.5580	8	0.0203	1.0000
Q8C854	Myelin expression factor 2	Myef2	20.3687	22.6234	↑	9	63.2940	58.1540	30	0.0366	1.0000
Q8R3P0	Aspartoacylase	Aspa	21.5910	22.3398	↑	6	35.3440	16.4910	20	0.0191	1.0000
Q8R4N0	Citrate lyase subunit beta-like prot	Clybl	21.8170	20.9740	↓	7	37.5480	18.5230	12	0.0225	1.0000
Q99LC5	Electron transfer flavoprotein subu	Etfa	26.3004	25.1624	↓	16	35.0090	274.1100	165	0.0422	1.0000
Q9D0M3	Cytochrome c1, heme protein, mitc	Cyc1	27.4393	27.2184	↓	9	35.3270	323.3100	448	0.0267	1.0000
Q9D6M3	Mitochondrial glutamate carrier 1	Slc25a22	26.7490	26.2066	↓	14	34.6700	290.1800	333	0.0056	1.0000
Q9JM76	Actin-related protein 2/3 complex s	Arpc3	27.1692	26.8175	↓	7	20.5240	44.6530	248	0.0134	1.0000
Q9Z0Y1	Dynactin subunit 3	Dctn3	20.1004	22.8591	↑	6	20.9780	9.9632	27	0.0424	1.0000
Q9Z1Z0	General vesicular transport factor p	Uso1	21.6603	23.1107	↑	11	106.9800	64.2190	19	0.0444	1.0000
Medial prefrontal cortex											
P63158	High mobility group protein B1	Hmgb1	26.2266	23.5173	↓	13	20.3030	100.1200	131	0.0106	0.9828
Q9QZ23	NFU1 iron-sulfur cluster scaffold ho	Nfu1	21.5944	20.3611	↓	3	28.6540	4.1373	3	0.0149	1.0000
P84099	Ribosomal protein L19;60S ribosom	Rpl19	23.5995	19.8076	↓	6	23.2470	29.3730	26	0.0042	0.7352
A2AAJ9	Obscurin	Obscn	26.2304	20.9020	↓	5	874.5300	2.5079	27	0.0000	0.0211
Q8BHL8	Proteasome inhibitor PI31 subunit	Psmf1	21.7859	20.1885	↓	2	26.0730	6.9266	6	0.0296	1.0000
Q924C1	Exportin-5	Xpo5	22.6926	21.0410	↓	6	136.9300	8.7680	14	0.0081	0.9436
Q91YZ8	Polyadenylate-binding protein	Pabpc4	19.8571	22.0943	↑	11	67.8520	7.2711	6	0.0486	1.0000
A3KMP2	Tetratricopeptide repeat protein 38	Ttc38	21.3852	19.8981	↓	2	52.2230	2.3104	4	0.0155	1.0000
B1AXV0	DOMON domain-containing protein	Frrs1l	23.2989	20.9806	↓	8	32.5060	14.3100	38	0.0058	0.8072
P0C0A3	Charged multivesicular body protei	Chmp6	22.8525	20.9722	↓	5	23.4150	16.2680	23	0.0013	0.4473
Q3UHX2	28 kDa heat- and acid-stable phosp	Pdap1	21.6008	20.3127	↓	3	14.9300	3.3834	4	0.0474	1.0000
P48758	Carbonyl reductase [NADPH] 1	Cbr1	27.4094	21.7347	↓	18	30.6410	244.5900	470	0.0159	1.0000
Q9QXA5	U6 snRNA-associated Sm-like prote	Lsm4	20.6389	22.3025	↑	3	11.0720	4.1832	10	0.0208	1.0000
Q68FD9	UPF0606 protein KIAA1549	Kiaa1549	24.6768	23.7698	↓	10	193.9900	16.0700	53	0.0127	0.9850
Q8K2T1	NmrA-like family domain-containin	Nmral1	22.1475	20.6732	↓	6	33.0810	5.6131	21	0.0222	1.0000
Q9JL62	Glycolipid transfer protein	Gltp	20.4714	22.4847	↑	5	21.5350	8.0312	17	0.0311	1.0000

Q9DCL8	Protein phosphatase inhibitor 2	Ppp1r2	23.6900	20.7209	↓	4	21.9190	5.0345	11	0.0005	0.2594
Q3TC33	Coiled-coil domain-containing prot	Ccdc127	22.8900	20.9052	↓	9	27.7350	14.0220	10	0.0117	0.9911
O08827	Axonemal dynein heavy chain	Dnah6	23.4410	20.6102	↓	3	468.6400	2.1271	16	0.0434	1.0000
Q91VN4	MICOS complex subunit Mic25	Chchd6	25.7317	21.0701	↓	12	26.3880	101.2000	126	0.0120	0.9809
E9Q7P1	Collagen, type XXII, alpha 1	Col22a1	24.5673	21.0103	↓	3	159.9400	2.5160	18	0.0234	1.0000
Q3UFF7	Lysophospholipase-like protein 1	Lyplal1	22.0308	19.2192	↓	5	26.3400	12.7300	13	0.0014	0.3820
Q62393	Tumor protein D52	Tpd52	24.9201	21.7870	↓	12	26.9270	22.4580	88	0.0409	1.0000
Q8WTY4	Anamorsin	Ciapin1	21.4628	22.4661	↑	5	33.4290	11.3910	17	0.0446	1.0000
Q60930	Voltage-dependent anion-selective	Vdac2	29.5565	26.7949	↓	15	30.4460	323.3100	1046	0.0158	1.0000
O54946	DnaJ homolog subfamily B membe	Dnajb6	24.6857	23.0309	↓	8	39.8070	29.7740	71	0.0012	0.5603
O55074	A-kinase anchor protein 7 isoform a	Akap7	20.5727	22.9117	↑	5	9.1690	6.3221	11	0.0466	1.0000
O70250	Phosphoglycerate mutase 2	Pgam2	22.9660	20.3991	↓	10	28.8270	7.2647	31	0.0003	0.2439
O70435	Proteasome subunit alpha type-3	Psma3	26.1458	22.2469	↓	11	28.4900	65.9620	134	0.0111	0.9950
O88696	ATP-dependent Clp protease prote	Clpp	23.2498	20.4090	↓	5	20.5030	18.8490	38	0.0018	0.4268
P10605	Cathepsin B	Ctsb	27.2329	24.2619	↓	12	37.3190	115.9900	223	0.0364	1.0000
P10922	Histone H1.0	H1f0	24.3100	21.4786	↓	6	19.2530	17.7710	41	0.0239	1.0000
P12787	Cytochrome c oxidase subunit 5A, r	Cox5a	23.1649	26.7529	↑	7	16.1010	134.4800	123	0.0358	1.0000
P12970	60S ribosomal protein L7a	Rpl7a	25.6336	21.2770	↓	16	30.0240	106.1900	112	0.0205	1.0000
P63163	Small nuclear ribonucleoprotein-as	Snrpn	24.2598	21.0293	↓	7	24.6140	15.4430	63	0.0085	0.9468
P43274	Histone H1.4	Hist1h1e	23.4691	20.0312	↓	7	21.9770	13.3190	50	0.0459	1.0000
P49615	Cyclin-dependent-like kinase 5	Cdk5	26.2424	22.1752	↓	21	33.2880	91.0080	233	0.0142	1.0000
P49817	Caveolin-1	Cav1	21.0355	23.3246	↑	4	20.5380	3.6928	8	0.0199	1.0000
P53811	Phosphatidylinositol transfer prote	Pitpnb	22.7431	20.7706	↓	11	31.6160	11.2370	29	0.0098	0.9440
P56382	ATP synthase subunit epsilon, mito	Atp5e	20.1961	24.2725	↑	3	5.8218	2.4266	10	0.0262	1.0000
P62259	14-3-3 protein epsilon	Ywhae	30.2206	24.7315	↓	30	29.1740	323.3100	1389	0.0352	1.0000
P62754	40S ribosomal protein S6	Rps6	24.2217	21.2609	↓	6	28.6800	25.0940	46	0.0279	1.0000
P62908	40S ribosomal protein S3	Rps3	26.6300	24.8382	↓	24	26.6740	94.9480	355	0.0025	0.5294
P68040	Guanine nucleotide-binding protein	Gnb2l1	26.8446	21.4162	↓	19	35.0760	224.9000	310	0.0485	1.0000
P70122	Ribosome maturation protein SBDS	Sbds	22.1123	19.8329	↓	6	28.7800	5.0937	10	0.0096	0.9540
P97765	WW domain-binding protein 2	Wbp2	25.0925	20.7610	↓	10	28.0320	50.6010	89	0.0168	1.0000
Q99KF1	Transmembrane emp24 domain-co	Tmed9	22.8194	21.4942	↓	4	27.1270	6.3598	27	0.0126	1.0000
Q9JKV5	Secretory carrier-associated memb	Scamp4	23.0410	20.9704	↓	2	25.3680	5.5476	18	0.0328	1.0000
Q9CR00	26S proteasome non-ATPase regula	Psmd9	22.8723	20.3984	↓	8	24.6920	16.4350	25	0.0458	1.0000

Q922Q4	Pyrroline-5-carboxylate reductase 2	Pycr2	23.1183	20.6028	↓	10	33.6590	16.0680	27	0.0179	1.0000
Q8CFI0	E3 ubiquitin-protein ligase NEDD4-l	Nedd4l	22.1337	20.5282	↓	12	103.6100	10.7040	22	0.0220	1.0000
Q9CX56	26S proteasome non-ATPase regula	Psmd8	23.9667	20.6752	↓	7	29.9380	25.7010	52	0.0389	1.0000
Q8CGK7	Guanine nucleotide-binding proteir	Gnal	20.5451	22.1633	↑	8	44.2810	59.1720	19	0.0200	1.0000
P53026	60S ribosomal protein L10a	Rpl10a	25.1503	22.3346	↓	9	24.8310	22.5020	115	0.0467	1.0000
O55023	Inositol monophosphatase 1	Impa1	26.8523	22.2505	↓	18	30.3950	104.1600	264	0.0306	1.0000
Q91VR2	ATP synthase subunit gamma, mito	Atp5c1	28.7989	26.2113	↓	16	30.2550	251.6600	625	0.0054	0.8308
Q99LB2	Dehydrogenase/reductase SDR fam	Dhrs4	22.3000	20.3852	↓	6	27.7260	6.9790	21	0.0247	1.0000
Q9QZB9	Dynactin subunit 5	Dctn5	20.5722	22.6866	↑	2	20.2160	4.5467	10	0.0392	1.0000
Q99KX1	Myeloid leukemia factor 2	Mlf2	24.6704	19.8256	↓	6	28.1540	71.7340	67	0.0051	0.8284
Q3V038	Tetratricopeptide repeat protein 9/	Ttc9	21.9615	20.4919	↓	6	24.3500	5.1945	23	0.0309	1.0000
Q9CQ62	2,4-dienoyl-CoA reductase, mitoch	Decr1	24.5018	21.3269	↓	9	36.2130	56.9500	75	0.0076	0.9214
Q9DC16	Endoplasmic reticulum-Golgi intern	Ergic1	23.6318	20.8338	↓	9	32.5620	16.1530	33	0.0085	0.9145
Q8K0Z5	Tropomyosin 3, gamma	Tpm3	27.9527	23.6847	↓	29	29.0200	292.4300	469	0.0037	0.6906
Q5M8N4	Epimerase family protein SDR39U1	Sdr39u1	22.5000	21.5688	↓	5	32.9940	9.2081	31	0.0321	1.0000
Q62189	U1 small nuclear ribonucleoprotein	Snrpa	23.3438	20.8007	↓	9	31.8350	32.0050	42	0.0269	1.0000
Q6IRU2	Tropomyosin alpha-4 chain	Tpm4	22.2704	20.8171	↓	8	28.4670	24.7960	20	0.0344	1.0000
Q6PE15	Mycophenolic acid acyl-glucuronid	Abhd10	22.4025	20.5880	↓	5	33.0400	7.3292	22	0.0199	1.0000
Q9D1P0	39S ribosomal protein L13, mitoch	Mrpl13	21.0427	22.9355	↑	6	20.3710	3.1798	18	0.0393	1.0000
Q7TNR6	Immunoglobulin superfamily meml	Igsf21	22.4405	20.7936	↓	6	51.9370	10.8150	17	0.0071	0.9405
Q80XN0	D-beta-hydroxybutyrate dehydroge	Bdh1	26.6897	24.4000	↓	16	38.2990	89.5780	416	0.0250	1.0000
Q8BFS6	Serine/threonine-protein phosphat	Cpped1	22.5839	21.2738	↓	6	35.2470	7.1902	11	0.0055	0.8137
Q8BGX2	Uncharacterized protein C19orf52	homolog	23.7522	21.1515	↓	10	29.4150	41.1350	55	0.0260	1.0000
Q8BH58	TIP41-like protein	Tiprl	23.1550	21.2462	↓	7	31.2530	13.7640	23	0.0392	1.0000
Q9QY76	Vesicle-associated membrane prot	Vapb	25.4515	22.9458	↓	10	26.9180	52.3800	112	0.0250	1.0000
Q8BWR2	PITH domain-containing protein 1	Pithd1	23.0690	20.4394	↓	9	24.1920	20.0290	34	0.0481	1.0000
Q8BXV2	BRI3-binding protein	Bri3bp	21.1733	24.1189	↑	2	28.2630	6.7423	29	0.0190	1.0000
Q8BYA0	Tubulin-specific chaperone D	Tbcd	22.4076	20.2667	↓	8	133.3200	25.3420	12	0.0071	0.8979
Q9D8Y0	EF-hand domain-containing protein	Efhd2	27.1269	22.3781	↓	18	26.8000	129.0400	400	0.0356	1.0000
Q8JZS0	Protein lin-7 homolog A	Lin7a	26.5147	23.2070	↓	10	25.9920	39.0730	153	0.0117	1.0000
Q8K273	Membrane magnesium transporter	Mmgt1	21.2566	21.9994	↑	2	14.6770	7.2937	4	0.0232	1.0000
Q91VT4	Carbonyl reductase family member	Cbr4	22.1251	20.6667	↓	5	25.4140	12.6130	22	0.0164	1.0000
Q91XF0	Pyridoxine-5-phosphate oxidase	Pnpo	22.8035	20.1747	↓	5	30.1140	8.9636	21	0.0017	0.4193

Q923G3	F-actin-capping protein subunit bet	Capzb	27.6310	22.5768	↓	22	30.6280	293.9500	516	0.0383	1.0000
Q99LD8	N(G),N(G)-dimethylarginine dimeth	Ddah2	22.4622	20.1751	↓	7	29.6450	8.9347	27	0.0013	0.3994
Q99LS3	Phosphoserine phosphatase	Psph	23.4529	20.6335	↓	6	25.0960	13.1280	45	0.0149	1.0000
Q9CQ85	Mitochondrial import inner membr	Timm22	20.5300	22.8471	↑	2	20.1140	3.6691	21	0.0001	0.1123
Q9CQD4	Charged multivesicular body protei	Chmp1b2	21.9439	20.2617	↓	2	22.1610	2.8907	14	0.0027	0.5337
Q9CRB9	MICOS complex subunit Mic19	Chchd3	25.2622	21.1042	↓	13	26.3340	42.5900	100	0.0003	0.2707
Q9CX86	Heterogeneous nuclear ribonucleo	Hnrnpa0	26.0234	25.0971	↓	11	30.5300	48.2370	144	0.0410	1.0000
Q9D0A3	Arpin	Arpin	21.3683	20.2310	↓	3	25.1930	4.4906	9	0.0095	0.9819
Q9D4H1	Exocyst complex component 2	Exoc2	23.2734	21.6258	↓	10	103.9600	16.1330	23	0.0201	1.0000
Q9DB32	Hydroxyacylglutathione hydrolase-l	Haghl	21.7487	20.5602	↓	4	31.4900	10.3200	13	0.0356	1.0000
Q9DCC4	Pyrroline-5-carboxylate reductase 3	Pycrl	23.5600	20.8840	↓	6	28.7210	26.5780	32	0.0215	1.0000
Q9ERI6	Retinol dehydrogenase 14	Rdh14	22.5492	20.9963	↓	6	36.3650	17.8760	22	0.0012	0.4852
Q9JHS3	Ragulator complex protein LAMTOI	Lamtor2	21.1279	22.2625	↑	5	13.4800	4.0970	7	0.0364	1.0000
Q9JHW2	Omega-amidase NIT2	Nit2	23.3811	21.4745	↓	10	30.5010	16.9580	41	0.0199	1.0000
Q9JIW9	Ras-related protein Ral-B	Ralb	21.7233	20.7294	↓	10	23.3490	5.7876	5	0.0455	1.0000
Q9JKX6	ADP-sugar pyrophosphatase	Nudt5	21.9351	19.7446	↓	5	23.9840	5.5541	6	0.0247	1.0000
Q9R118	Serine protease HTRA1	Htra1	20.3814	21.8583	↑	4	51.2130	6.0292	24	0.0275	1.0000
Striatum											
O35887	Calumenin	Calu	23.2980	24.7115	↑	2	17.7100	7.5231	4	0.0424	1.0000
P10518	Delta-aminolevulinic acid dehydrat	Alad	23.7301	24.8871	↑	7	36.0390	17.9100	14	0.0260	1.0000
P12787	Cytochrome c oxidase subunit 5A, r	Cox5a	27.7146	28.5610	↑	7	16.1010	76.0730	82	0.0080	1.0000
P60521	Gamma-aminobutyric acid recepto	Gabarapl2	23.3091	24.8520	↑	4	13.6670	8.5811	6	0.0241	1.0000
P99028	Cytochrome b-c1 complex subunit I	Uqcrh	22.7498	25.5522	↑	4	10.4350	11.2940	21	0.0064	1.0000
Q00915	Retinol-binding protein 1	Rbp1	23.7908	24.6521	↑	5	15.8460	9.6036	11	0.0479	1.0000
Q8BK64	Activator of 90 kDa heat shock prot	Ahsa1	23.8834	26.4080	↑	8	38.1450	52.2590	35	0.0238	1.0000
Q8K274	Ketosamine-3-kinase	Fn3krp	23.4284	24.8070	↑	5	34.4680	24.5650	24	0.0325	1.0000
P01942	Hemoglobin subunit alpha	haemaglobin a	32.1488	33.0907	↑	10	15.1120	283.6300	1098	0.0368	1.0000
Q91XF0	Pyridoxine-5-phosphate oxidase	Pnpo	23.4975	25.6987	↑	5	30.1140	12.1440	13	0.0325	1.0000
O08756	3-hydroxyacyl-CoA dehydrogenase	Hsd17b10	27.4543	27.9715	↑	13	27.2730	80.6970	128	0.0406	1.0000
Q9D020	Cytosolic 5-nucleotidase 3A	Nt5c3a	23.9622	23.1205	↓	4	37.2520	9.7758	8	0.0057	1.0000
Q9QZQ8	Core histone macro-H2A.1	H2afy	26.1445	27.2059	↑	11	39.7350	51.3800	59	0.0475	1.0000