

Supp. Table 3. The whole genome expression profile study in mouse cerebral cortex revealed that 361 genes showed significantly differential expression between Tg and WT mice (FDR $q \leq 0.05$). Totally 371 probes represent 361 individual genes. Ten genes have two probes for each of them: LOC100047199, AK5, GSTP1, EGF7, ZFP467, KCNQ2, LOC100048622, LRRFIP1, ADCYAP1R1 and SETD7.

[illegible]

Gene Symbol	Accession number	p-value (Tg vs. WT)	q value(p-value)(Tg vs. WT)	Fold-Change(Tg vs. WT)	DEFINITION
LOC384132	NM_157444.1	1.72E-04	2.92E-02	1.12	
WASF3	NM_145555.3	1.74E-04	2.92E-02	1.43	Mus musculus WAS protein family, member 3 (WASF3), mRNA.
F73008207Rik	AK080903	1.74E-04	2.92E-02	0.59	
STKINA	NM_020875.2	1.75E-04	2.92E-02	1.51	
C7900405Rik	M050209	1.75E-04	2.92E-02	1.82	
OSIC1	NM_035141.4	1.76E-04	2.92E-02	1.16	Mus musculus 2'-5' oligoadenylate synthetase 1C (Oic1), mRNA.
ANPEP	NM_020323.3	1.76E-04	2.92E-02	1.13	Mus musculus acidic (leucine-rich) nuclear phospholipase 37 family, member 6 (Anp32a), mRNA.
B2303040Rik	AK056888	1.76E-04	2.92E-02	0.87	
DNAK1	NM_010594.4	1.76E-04	2.92E-02	1.53	Mus musculus DNA (Hsp40) homolog, subfamily C, member 7 (Dnaq7), mRNA.
G43000915Rik	NM_00103977.1	1.78E-04	2.92E-02	1.18	
USP9K	NM_008481.2	1.78E-04	2.92E-02	1.22	Mus musculus ubiquitin specific peptidase 9, X chromosome (Usp9k), mRNA.
111000400Rik	NM_172086.3	1.78E-04	2.92E-02	0.81	Mus musculus RIKEN cDNA 111000400 gene (111000400), mRNA.
CL10001010Rik	AK058052	1.80E-04	2.92E-02	0.85	
KCNK1	NM_004621.2	1.83E-04	2.95E-02	1.43	Mus musculus potassium voltage-gated channel, Shaw-related subfamily, member 1 (Kcnk1), mRNA.
USP37	NM_136972.3	1.84E-04	2.95E-02	0.87	Mus musculus ubiquitin specific peptidase 37 (Usp37), mRNA.
OSGFLP1	NM_020001.1	1.84E-04	2.95E-02	1.21	Mus musculus O-Galactyltransferase protein endomannosidase like 1 (Osgflp1), mRNA.
CLIN	NM_010200.3	1.87E-04	2.98E-02	1.19	Mus musculus cerebral lipofuscin, member 8 (Cln8), mRNA.
LOC388123	NM_136097.1	1.91E-04	3.03E-02	0.87	
PDPPE	NM_138053.2	1.95E-04	3.08E-02	1.25	Mus musculus pre-mRNA processing factor 1 (Pdppe), mRNA.
PSAP	NM_011179	1.97E-04	3.10E-02	0.84	
LOC277045	NM_0205876.3	2.05E-04	3.12E-02	0.82	
PCAT1	NM_012494.4	2.01E-04	3.12E-02	1.61	Mus musculus PCTAIRE-motif protein kinase 1 (Pcat1), mRNA, NM_020756, NM_020762, NM_020768, NM_020773
UBPPL1	NM_006515.3	2.04E-04	3.12E-02	1.21	Mus musculus leucine rich repeat (n P4) interacting protein 1 (Ubppl1), mRNA.
B9300404Rik	AK067275	2.05E-04	3.12E-02	0.85	
251000915Rik	AK039399	2.06E-04	3.12E-02	0.76	
SLC24A4	NM_020441	2.06E-04	3.12E-02	0.81	
COL4A1	NM_009933.2	2.07E-04	3.12E-02	0.84	Mus musculus procollagen, type VI, alpha 1 (Col4a1), mRNA.
PIRDC	NM_008964.2	2.07E-04	3.12E-02	0.61	Mus musculus platelet neutral cell adhesion molecule (Pirdc), mRNA.
DUSP4	NM_177454.4	2.07E-04	3.12E-02	0.73	Mus musculus dual specificity phosphatase 4 (Dusp4), mRNA.
PP2C2	NM_054021.1	2.08E-04	3.12E-02	1.44	Mus musculus phosphatidylinositol 4-phosphate 5-kinase, type I, beta (Pip5k2b), mRNA.
ATP9VD2	NM_135764.2	2.08E-04	3.12E-02	0.41	Mus musculus ATPase, H(+)-transporting, isoform 9 (V subunit) 2 (Atp9vd2), mRNA.
FKBP2	NM_008942	2.11E-04	3.14E-02	1.11	Mus musculus phosphoenolpyruvate carboxylase 2 (mitochondrial) (Pcp2), mRNA.
AFRA1	NM_170944.1	2.12E-04	3.14E-02	1.14	Mus musculus myeloid basic (AB) precursor protein binding, family A, member 1 (Alpha1), mRNA.
RAB8B	NM_174312.2	2.22E-04	3.27E-02	0.82	Mus musculus RAB8B, member RAS oncogene family (Rab8b), mRNA.
ATRH8	NM_020043.3	2.22E-04	3.27E-02	1.22	Mus musculus ATPase, Class I, type 8B, member 8 (Atrh8), mRNA.
OUTR2L	NM_140484.1	2.26E-04	3.27E-02	0.89	Mus musculus outflow tract receptor family 1, member 2 (Out2l), mRNA.
TFRF311	NM_01020426.1	2.28E-04	3.27E-02	0.75	Mus musculus transformation related protein 53 inducible protein 11 (Tfrf311), mRNA.
TNFRSF11	NM_170174.2	2.29E-04	3.27E-02	1.40	Mus musculus tumour necrosis factor receptor 11 (Tnfrsf11), mRNA.
ED4	NM_007915	2.29E-04	3.27E-02	1.39	Mus musculus eukaryotic translation initiation factor 2B, subunit 5 (Eif2f5), mRNA.
IFITM5	NM_112265.1	2.29E-04	3.27E-02	1.12	Mus musculus interferon-induced transmembrane protein 5 (Ifitm5), mRNA.
SPN2	NM_176833.2	2.30E-04	3.27E-02	1.16	PREDICTED: Mus musculus similar to WNV367-related matrix-associated actin-dependent regulator of chromatin A5 (LOC454703), mRNA.
LOC347079	XP_033003.3	2.30E-04	3.27E-02	1.16	PREDICTED: Mus musculus ribonuclease, RNase A family, 21 non-activating (Pnc21), mRNA.
RNASEL1	NM_0010181.1	2.31E-04	3.27E-02	1.16	
D1304020Rik	NM_020441	2.35E-04	3.32E-02	0.90	
ADCFAP41	NM_007407.3	2.36E-04	3.32E-02	1.32	Mus musculus adenylyl cyclase activating polypeptide 1 receptor 1 (Adcfap41), transcript variant 1, mRNA.
MRP15A	NM_025474.3	2.45E-04	3.40E-02	1.10	Mus musculus mitochondrial ribosomal protein S14 (Mrp15a), mRNA.
ABOCD2	NM_027505.1	2.50E-04	3.46E-02	0.84	Mus musculus aretinin domain containing 2 (Abocd2), mRNA.
HPCA	NM_020471.2	2.51E-04	3.46E-02	0.73	Mus musculus Hapscapin (Hpcap), mRNA.
MRAS	NM_008624.3	2.66E-04	3.68E-02	0.70	Mus musculus ras and microgynin RAS (Mras), mRNA.
PRKRA	NM_008426.1	2.67E-04	3.68E-02	0.80	Mus musculus protein kinase (protein kinase C) 20 subunit, non-ATPase, 4 (Prkra4), mRNA.
IGH5	NM_00100376.2	2.67E-04	3.68E-02	0.93	PREDICTED: Mus musculus immunoglobulin heavy chain (gamma polypeptide), transcript variant 1 (Igh5), mRNA.
GGI1	NM_020043.1	2.69E-04	3.68E-02	1.11	Mus musculus germ cell specific gene 1 (Ggi1), transcript variant 2, mRNA.
AVILB17	NM_009731.1	2.71E-04	3.69E-02	1.11	Mus musculus alpha-keto reductase family 1, member 87 (Avilb17), mRNA.
SRMS	NM_014181.3	2.74E-04	3.72E-02	1.15	Mus musculus rat-related kinase lacking C-terminal regulatory tyrosine and 6 terminal myristylation sites (Srms), mRNA.
SLC38A2	NM_0010021.2	2.76E-04	3.72E-02	1.80	Mus musculus SLC38 family, member 2 (Slc38a2), mRNA.
PAK7	NM_170582	2.80E-04	3.75E-02	1.45	Mus musculus p21 (CDKN1A) activated kinase 7 (Pak7), mRNA.
TBR1	NM_008426.1	2.81E-04	3.75E-02	1.22	Mus musculus brain brain gene 1 (Tbr1), mRNA.
KALN1	NM_01012816.1	2.80E-04	3.75E-02	0.80	Mus musculus FAT tumor suppressor homolog 1 (Drosophila) (Fat1), mRNA.
FAT2	NM_002792.2	2.82E-04	3.75E-02	1.26	PREDICTED: Mus musculus kalirin, RhoGTPase, transcript variant 2 (Fatm), mRNA.
AVI220B5	NM_172325.2	2.83E-04	3.75E-02	1.78	Mus musculus expressed sequence A012062 (AVI220B5), mRNA.
LOC10046517	NM_01474633.1	2.81E-04	3.75E-02	0.82	PREDICTED: Mus musculus similar to eukaryotic translation initiation factor 4A2 (LOC10046517), mRNA.
EGG67G5	XP_033003.3	2.84E-04	3.75E-02	1.81	PREDICTED: Mus musculus predicted gene, EGG67G5 (EGG67G5), mRNA.
SPN3	AK058985	2.85E-04	3.75E-02	0.41	
40803761Rik	NM_147551.1	2.86E-04	3.76E-02	1.40	
HST1H4D	NM_175564.1	2.91E-04	3.78E-02	1.14	Mus musculus histone cluster 1, H4d (Hst1h4d), mRNA.
SDS	NM_021248.1	2.98E-04	3.84E-02	1.28	Mus musculus Deschamps-Boutin-Domene syndrome homologue (Dsm1), mRNA.
PP4R18	NM_011311.1	2.99E-04	3.84E-02	1.12	Mus musculus protein phosphatase 1A, magnesium dependent, beta isoform (Ppp4r18), mRNA, NM_025404, NM_025405, NM_025406
B30NLT1	NM_176644.3	3.00E-04	3.84E-02	1.21	Mus musculus UDP-glucan-6-acetyl-beta-1,3-N-acetylglucosaminyltransferase like 1 (B3nlt1), mRNA.
ETG1	NM_008426.1	3.03E-04	3.84E-02	1.80	
RNMTL1	NM_181263.3	3.03E-04	3.84E-02	0.83	Mus musculus RNA methyltransferase like 1 (Rnmtl1), mRNA.
113004110Rik	AK078796	3.03E-04	3.84E-02	0.84	
NANOS1	NM_174613.3	3.07E-04	3.89E-02	1.28	Mus musculus nanos homolog 1 (Drosophila) (Nanos1), mRNA.
211004600Rik	NM_01478813.1	3.07E-04	3.89E-02	1.23	PREDICTED: Mus musculus RIKEN cDNA 211004600 gene (211004600), mRNA.
GULI3	NM_020441	3.10E-04	3.91E-02	1.13	PREDICTED: Mus musculus glutathione S-transferase 1 like 3 (Gul13), mRNA.
MI-3000-112_1692		3.25E-04	4.03E-02	0.94	
MYL2B	NM_020462.2	3.26E-04	4.03E-02	0.72	Mus musculus myosin light chain, regulatory B (My12b), mRNA.
NP23A	NM_172268.1	3.26E-04	4.03E-02	0.83	Mus musculus nucleoporin 234 (Np23a), mRNA, NM_008973, NM_009012, NM_009051, NM_009078, NM_009101, NM_009130, NM_009157
FDRF01	NM_172911.1	3.29E-04	4.03E-02	0.82	Mus musculus FAD-dependent oxidoreductase domain containing 1 (Fdrf01), mRNA.
SETD7	NM_020441	3.29E-04	4.03E-02	1.13	Mus musculus SET domain containing (lysine methyltransferase) 7 (Setd7), mRNA.
DOCK1	NM_009712	3.30E-04	4.03E-02	1.36	Mus musculus doublecortin-like kinase 1 (Dock1), mRNA.
5010040071_1_5	AK020441	3.30E-04	4.03E-02	0.84	
CLDN5	NM_013805.3	3.37E-04	4.10E-02	1.72	Mus musculus claudin 5 (Cldn5), mRNA.
KNO2	NM_01006077.1	3.40E-04	4.11E-02	1.20	Mus musculus potassium voltage-gated channel, subfamily D, member 2 (Kcnq2), transcript variant 9, mRNA.
ZNF767	NM_00104611.1	3.41E-04	4.11E-02	1.69	Mus musculus zinc finger protein 407 (Znf407), transcript variant 2, mRNA.
ETFL	NM_021383.3	3.41E-04	4.11E-02	1.13	Mus musculus extensin (multipig) like 2 (Etl2), mRNA.
WFA2	NM_008426.1	3.44E-04	4.12E-02	1.13	Mus musculus kreinin family member 3a (Wfa2), mRNA.
CTTN	NM_007803.4	3.46E-04	4.12E-02	1.31	Mus musculus catenin (Ctnn), mRNA.
IRP2	NM_020441	3.47E-04	4.12E-02	1.12	PREDICTED: Mus musculus low density lipoprotein receptor related protein 2, transcript variant 3 (Irp2), mRNA.
ZBTB4	NM_021348.1	3.47E-04	4.12E-02	1.18	Mus musculus zinc finger and BTB domain containing 4 (Zbtb4), mRNA.
LOC118879	NM_121897.2	3.55E-04	4.19E-02	0.82	
111004000Rik	NM_01013377.1	3.56E-04	4.19E-02	0.83	Mus musculus RIKEN cDNA 111004000 gene (111004000), mRNA.
LOC38608	NM_008301.1	3.57E-04	4.19E-02	1.88	
KCNK1	NM_008426.3	3.58E-04	4.19E-02	1.10	Mus musculus potassium voltage-gated channel, lid-related subfamily, member 1 (Kcnk1), mRNA.
CDH8	NM_00101954.1	3.61E-04	4.21E-02	1.20	Mus musculus cadherin 8 (Cdh8), transcript variant 1, mRNA.
MTAF3	NM_020234.2	3.62E-04	4.21E-02	1.18	Mus musculus karatin associated protein 3 (Mtaf3), mRNA.
QSOX101	NM_00101791.1	3.64E-04	4.24E-02	1.22	Mus musculus effector receptor 101 (Qsox101), mRNA.
ATP1A3	NM_00101791.1	3.68E-04	4.24E-02	1.18	Mus musculus ATPase, Na(+)/K(+)-transporting, alpha 3 polypeptide (Atp1a3), mRNA.
NOTY1	NM_0010021.2	3.69E-04	4.24E-02	1.14	Mus musculus N-deacetylglucosaminyltransferase (N-deacetylglucosaminyltransferase) 1 (Noty1), mRNA.
TMOO3	NM_020632.2	3.71E-04	4.25E-02	0.80	Mus musculus troponin 3 (Tmo3), mRNA.
QNF1R5	NM_146716.1	3.74E-04	4.25E-02	1.14	Mus musculus troponin receptor 195 (Qnf1r5), mRNA.
BP1L1	NM_021433.3	3.74E-04	4.25E-02	1.86	Mus musculus fibronectin protein 17-like 1 (Bp1l1), mRNA.
B2300404Rik	NM_177833.3	3.75E-04	4.25E-02	0.91	
GRP1	NM_020441	3.76E-04	4.25E-02	1.12	Mus musculus G-protein-coupled receptor 107 (Grp1), mRNA.
9530009014Rik	NM_082329.2	3.79E-04	4.27E-02	0.75	PREDICTED: Mus musculus RIKEN cDNA 9530009014 gene (9530009014), mRNA.
LOC100404622	NM_0146154.1	3.82E-04	4.27E-02	1.36	PREDICTED: Mus musculus similar to 14-3-3 sigma-binding protein p22 (LOC100404622), mRNA.
PP4R18	NM_146154.1	3.82E-04	4.27E-02	0.84	Mus musculus protein phosphatase 1, regulatory (inhibitor) subunit 8 (Ppp4r18), mRNA.
WDR93	NM_136098.4	3.83E-04	4.30E-02	0.77	Mus musculus WDR repeat domain 92 (Wdr93), mRNA.
LOC100404622	NM_007161.3	3.92E-04	4.36E-02	1.17	PREDICTED: Mus musculus similar to 14-3-3 sigma-binding protein p22 (LOC100404622), mRNA.
FLT1	NM_010208.3	3.94E-04	4.37E-02	1.44	Mus musculus FMS-like tyrosine kinase 1 (Flt1), mRNA.
AL1001040Rik	NM_020441	3.98E-04	4.40E-02	0.80	
GRN2B	NM_008171.3	4.01E-04	4.41E-02	1.21	Mus musculus glutamate receptor, ionotropic, NMDA2B (subunit 2) (Grn2b), mRNA.
GRN2B	NM_020441	4.07E-04	4.45E-02	1.19	Mus musculus NADH dehydrogenase (ubiquinone) 1 beta subcomplex 1 (Ndn2b), mRNA.
111004200Rik	NM_008371.1	4.07E-04	4.45E-02	1.13	Mus musculus RIKEN cDNA 111004200 gene, transcript variant 1 (111004200), mRNA.
NKX2-3	NM_007242.2	4.11E-04	4.48E-02	1.19	Mus musculus NK homeobox 2 (Nkx2-3), mRNA.
LOC424267	NM_007227.1	4.14E-04	4.50E-02	1.86	PREDICTED: Mus musculus gene expression 147 (LOC424267), mRNA.
IGFBP5	NM_009492.2	4.20E-04	4.55E-02	0.67	Mus musculus insulin-like growth factor binding protein 5 (Igfbp5), mRNA.
021000510Rik	NM_020441	4.24E-04	4.57E-02	0.79	Mus musculus RIKEN cDNA 021000510 gene (021000510), mRNA.
CD8	NM_0010518.2	4.26E-04	4.57E-02	0.70	Mus musculus insulin-like growth factor binding protein 8 (Igfbp8), mRNA.
VP13D	NM_00102441.1	4.27E-04	4.57E-02	0.83	PREDICTED: Mus musculus vaccular protein receptor subunit 13D (vp13d), transcript variant 2 (Vp13d), mRNA.
IRNA	NM_020564.4	4.27E-04	4.57E-02	1.78	Mus musculus inhibitor alpha (Irna), mRNA.
SETIC1A	NM_015123.2	4.30E-04	4.58E-02	0.74	Mus musculus SETIC homeobox A (5, conserved) (Setic1a), mRNA.
LOC343451	NM_01478813.1	4.32E-04	4.58E-02	1.11	PREDICTED: Mus musculus similar to eukaryotic translation initiation factor 4A2 (LOC343451), mRNA.
SETD7	NM_008793.5	4.33E-04	4.58E-02	1.12	Mus musculus SET domain containing (lysine methyltransferase) 7 (Setd7), mRNA.
NM_008386_331		4.34E-04	4.58E-02	0.84	
CPPT1	NM_144807.2	4.38E-04	4.61E-02	1.19	Mus musculus choline phosphotransferase 1 (Cppt1), mRNA.
LOC381844	NM_100911.1	4.40E-04	4.62E-02	1.11	
NOS3AP4	NM_020584.2	4.42E-04	4.62E-02	1.15	Mus musculus NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 9 (Nos3ap4), mRNA.
WNK4	NM_176432	4.43E-04	4.62E-02	0.83	Mus musculus WNK tyrosine deficient protein kinase 4 (Wnk4), mRNA.
ADCFAP41	NM_007407.3	4.45E-04	4.62E-02	1.18	Mus musculus adenylyl cyclase activating polypeptide 1 receptor 1 (Adcfap41), transcript variant 1, mRNA.
MLT1	NM_138112.2	4.47E-04	4.62E-02	1.18	Mus musculus myeloid/lymphoid or mixed lineage leukemia translocation to 6 homolog (Drosophila) (Mlt1), mRNA.
SAP2	NM_008313.1	4.48E-04	4.62E-02	1.16	Mus musculus SAPS domain family, member 2 (Sap2), transcript variant 1, mRNA.
TNFRSF44	NM_021865.4	4.50E-04	4.62E-02	0.81	Mus musculus tumor necrosis factor receptor superfamily, member 44 (Tnfrsf44), mRNA.
OTTM5000004066	NM_01039502.2	4.50E-04	4.62E-02	1.27	Mus musculus predicted gene, OTTM5000004066 (OTTM5000004066), mRNA.
ZPPO7	NM_020441	4.50E-04	4.71E-02	0.92	
TRAPP3	NM_012718.2	4.55E-04	4.73E-02	1.18	Mus musculus trafficking protein particle complex 3 (Trapp3), mRNA.
CNTNA4	NM_125264.4	4.55E-04	4.75E-02	1.42	Mus musculus CAC-like MARVEL transmembrane domain containing 4 (Cntna4), mRNA.
B93007915Rik	NM_00104602.				