**Supplementary Table I**. Genes with putative known function differentially expressed in ScN2a *vers*. mock infected N2a cells

| Putative function[a] | Clone ID[b] | Gene[c] | Avg fold[d] |
|---|---|---|---|
| **1) Upregulated** | | | |
| Catalytic activity | MG-15-252a12 | **Blvrb**: Biliverdin reductase B | 4.62 |
| Cell cycle | MG-3-76n3 | **Ddit3**: DNA-damage inducible transcript 3 (**Synonyms:** C/EBP homologous protein 10, chop, CHOP-10, CHOP10, Gadd153) | 4.53 |
| Cholesterol metabolism | MG-3-37f4 | **Idi1:** Isopentenyl-diphosphate delta-isomerase 1 (**Synonym:** Ipp) | 3.22 |
| | MG-6-57e23 | **Hmgcs1**: 3-hydroxy-3-methylglutaryl-Coenzyme A synthase 1 | 7.46 |
| | MG-8-94d7 | **Hmgcr**: 3-hydroxy-3-methylglutaryl-Coenzyme A reductase (**Synonyms:** HMG-CoAR, Red) | 3.32 |
| | MG-8-50j2 | **Dhcr7**: 7-dehydrocholesterol reductase | 3.53 |
| | MG-8-117d11 | **Glul**: Glutamine synthetase (**Synonyms:** Glns, GS) | 6.17 |
| | MG-14-106l5 | **Sc4mol**: C-4 methyl sterol oxidase | 10.91 |
| | MG-3-12a15 | **Fdft1**: farnesyl diphosphate farnesyl transferase 1 (**Synonyms:** SQS, squalene synthase) | 5.58 |
| | MG-6-12i22 | **Srebf2**: sterol regulatory element binding factor 2 (**Synonym:** SREBP-2) | 3.25 |
| Cholesterol/Lipid metabolism | MG-15-189g14 | **Scd2**: stearoyl-Coenzyme A desaturase 2 (**Synonym:** Scd-2) | 4.31 |
| | MG-15-90m19 | **Ldlr:** Low-density lipoprotein receptor precursor | 3.82 |
| DNA binding; DNA integration | MG-3-49p12 | **Ppfibp2**: protein tyrosine phosphatase, receptor-type, F interacting protein, binding protein 2 (**Synonyms:** Cclp1, liprin beta 2) | 3.56 |
| Energy metabolism | MG-13-1a23 | **Eno2**: enolase 2, gamma neuronal (**Synonyms:** Eno-2, NSE) | 3.16 |
| GTPase Regulator | MG-6-13l7 | **Gdi1**: guanosine diphosphate (GDP) dissociation inhibitor 1 (**Synonyms:** GDIA, GDIalpha, MGC:21593, Rab GDIalpha) | 3.32 |
| Intracellular signaling cascade | MG-13-117j9 | **Ahnak**: AHNAK nucleoprotein (desmoyokin) (**Synonym:** DY6) | 8.17 |
| Iron ion binding | MG-14-106n17 | **Trf:** Transferrin (**Synonyms:** Cd176, HP, Tfn) | 5.16 |
| MAP kinase; Hydrolase activity | MG-3-150c14 | **Dusp4**: Dual specificity phosphatase 4 | 3.46 |
| Proteolysis; metal ion binding | MG-3-5f9 | **X83328**: EST X83328 (**Synonym:** ESTM12) | 3.19 |
| Transcription elongation factor | MG-16-5b5 | **Supt6h**: suppressor of Ty 6 homolog (S. cerevisiae) (**Synonym:** SPT6) | 3.49 |
| Transferase activity | MG-3-81d5 | **Gstm1**: glutathione S-transferase, mu 1 (**Synonyms:** Gstb-1, Gstb1) | 3.60 |
| Translation | MG-8-22p22 | **Rps10**: ribosomal protein S10 | 3.22 |

## Supplementary Table I (*continued*)

| Putative function[a] | Clone ID[b] | Gene[c] | Avg fold[d] |
|---|---|---|---|
| Translocation elongation factor | MG-12-267k10 | **Gtpbp2:** GTP binding protein 2 | 3.53 |
| Transport and binding protein | MG-3-68i14 | **Ucp2**: uncoupling protein 2 (mitochondrial, proton carrier) (**Synonyms:** Slc25a8) | 3.29 |
| | MG-6-74c18 | **IER3**: immediate early response 3 (**Synonyms:** cAMP inducible gene 3, cI-3, gly96, IEX-1) | 4.90 |
| | MG-8-79a16 | **Snag1**: Sorting nexin associated golgi protein 1 | 3.06 |
| Unknown function | MG-3-28i9 | PREDICTED: similar to putative retrovirus-related gag protein | 11.47 |
| **2) Downregulated** | | | |
| Aminoacyl-tRNA ligase | MG-6-1c9 | **Nars**: asparaginyl-tRNA synthetase (**Synonym:** ASNRS) | -2.83 |
| Apoptosis | MG-6-19l12 | **Eif5a**: eukaryotic translation initiation factor 5A (**Synonym:** D19Wsu54e) | -3.16 |
| ATP binding | MG-14-80g20 | **Ddx3x**: DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 3, X-linked (**Synonyms:** embryonic RNA helicase, Fin14) | -4.22 |
| | MG-6-43d8 | **Ak2**: Adenylate kinase 2 (mitochondrial) | -3.10 |
| | MG-15-86p19 | **Rrm1**: ribonucleotide reductase M1 (**Synonym:** RnrM1) | -4.66 |
| ATP binding, DNA-binding | MG-15-98p23 | **Top2a**: topoisomerase (DNA) II alpha (**Synonyms:** DNA Topoisomerase II alpha, Top-2) | -5.31 |
| ATP binding, kinase activity | MG-6-1a13 | **Nme1**: Nucleoside diphosphate kinase A | -3.86 |
| ATP binding, nucleotide binding | MG-3-141m24 | **Cct3**: chaperonin subunit 3 (gamma) (**Synonyms**: Cctg, Tcp1-rs3, TriC-P5 ) | -3.78 |
| ATP metabolism | MG-6-11e3 | **Ak1**: adenylate kinase 1 | -2.77 |
| Cell cycle | MG-16-9b23 | **Cdc2a**: cell division cycle 2 homolog A (**Synonyms:** Cdc2, CDK1, p34) | -4.57 |
| | MG-13-57h1 | **Cks1b**: CDC28 protein kinase 1b **(Synonym:** Cks1) | -7.39 |
| | MG-8-12n3 | **Mcm2**: minichromosome maintenance deficient 5; DNA replication licensing factor Mcm2 (**Synonyms:** Cdcl1, Mcmd2) | -4.11 |
| | MG-15-222i11 | **Mcm4:** minichromosome maintenance deficient 4 homolog (S. cerevisiae) (**Synonyms:** 19G, Cdc21, mcdc21, Mcmd4) | -3.03 |
| Cell proliferation | MG-15-195c13 | **Mki67:** antigen identified by monoclonal antibody Ki 67 (**Synonym:** Ki-67) | -3.90 |
| | MG-15-206n21 | **Cse1l:** chromosome segregation 1-like (**Synonyms:** Capts, Cas, Xpo2) | -3.49 |

## Supplementary Table I (*continued*)

| Putative function[a] | Clone ID[b] | Gene[c] | Avg fold[d] |
|---|---|---|---|
| Chromatin binding, histone methylation | MG-8-46e20 | **Enx-1**: Enhancer of zeste homolog 2 **(Synonyms:** Enx1h, Ezh2) | -3.35 |
| Cytoskeleton | MG-14-72k10 | **Pfn1**: profilin 1 (**Synonyms:** actin binding protein, Pfn) | -5.42 |
| | MG-6-15l1 | **Mylc2b**: myosin light chain, regulatory B (**Synonym:** RLC-B) | -2.56 |
| | MG-3-137j23 | **Tuba2**: Tubulin alpha 2 | -2.69 |
| | MG-3-18m8 | **Tubb2c:** tubulin, beta 2c | -3.56 |
| | MG-8-15n24 | **Tubb6**: tubulin, beta 6 | -3.86 |
| | MG-8-100j17 | **Flna**: filamin, alpha | -2.61 |
| | MG-6-3c22 | **Tmsb4x** : thymosin, beta 4, X chromosome (**Synonym:** Ptmb4) | -4.26 |
| DNA binding | MG-13-1g21 | **Ncl**: nucleolin (**Synonym:** Nucl) | -2.53 |
| | MG-13-54a15 | **Pole4**: polymerase (DNA-directed), epsilon 4 (p12 subunit) | -3.13 |
| | MG-3-91d6 | **Dek**: DEK oncogene | -4.57 |
| | MG-14-25l9 | **Hmgn2:** high mobility group nucleosomal binding domain 2 (**Synonyms:** HMG-17, Hmg17) | -12.55 |
| DNA binding, DNA packaging | MG-10-1m3 | **Ard1**: N-acetyltransferase Ard1 homolog **(Synonym:** Te2) | -3.39 |
| DNA binding, DNA replication | MG-16-6l1 | **Ris2**: retroviral integration site 2 (**Synonym:** Cdt1) | -3.22 |
| DNA binding; nucleosome assembly | MG-3-24h23 | **H3f3b**: H3 histone, family 3B (**Synonym:** H3.3B) | -2.59 |
| DNA binding; protein binding | MG-3-33o2 | **Bclaf1**: BCL2-associated transcription factor 1 | -2.64 |
| DNA repair; mRNA processing | MG-8-93b10 | **Sfpq**: splicing factor proline/glutamine rich (polypyrimidine tract binding protein associated) | -3.13 |
| Electron transport | MG-6-1a15 | **Txn1**: Thioredoxin 1 | -3.03 |
| | MG-6-1a17 | **Cycs**: Cytochrome c, somatic | -4.76 |
| Energy metabolism | MG-6-1k17 | **Ctbp1**: C-terminal binding protein 1 (**Synonym:** BARS) | -2.66 |
| GTP binding | MG-3-8a7 | **Ran:** RAN, member RAS oncogene family | -3.71 |
| GTPase activation | MG-3-76d11 | **Rangap1:** RAN GTPase activating protein 1 (**Synonym:** Fug1) | -2.64 |
| Heparin binding | MG-4-86a20 | **Hdgf:** hepatoma-derived growth factor | -2.64 |
| Iron ion binding | MG-14-36k20 | **Plod3**: procollagen-lysine, 2-oxoglutarate 5-dioxygenase 3 (**Synonyms:** LH3, lysyl hydroxylase 3) | -2.59 |
| Lipid metabolism | MG-3-58f20 | **Prdx6**: peroxiredoxin 6 (**Synonyms:** 1-Cys Prx, Brp-12, CP-3, GPx, Ltw-4) | -2.64 |

## Supplementary Table I (*continued*)

| Putative function[a] | Clone ID[b] | Gene[c] | Avg fold[d] |
|---|---|---|---|
| Malate metabolism; electron carrier | MG-8-77i22 | **Me2**: malic enzyme 2, NAD(+)-dependent, mitochondrial | -2.51 |
| Metal ion binding | MG-15-203l12 | **Lyar**: Ly1 antibody reactive clone | -3.10 |
| Metal ion binding, zinc ion binding | MG-3-17g16 | **Crip2**: cysteine rich protein 2 (**Synonyms:** Crp, ESP1, Hlp) | -2.86 |
| Methyltransferase activity | MG-4-145m17 | **Srm**: Spermidine synthase | -3.82 |
| mRNA processing | MG-12-188i10 | **Pm14**: Pre-mRNA branch site protein p14 | -2.89 |
| | MG-16-170m19 | **Sfrs3**: splicing factor, arginine/serine-rich 3 (SRp20) (**Synonym:** X16) | -6.30 |
| | MG-3-43d7 | **Snrpg**: small nuclear ribonucleoprotein polypeptide G (**Synonym:** SMG) | -2.97 |
| | MG-6-1a19 | **Ptbp1**: polypyrimidine tract binding protein 1 (**Synonyms:** hnRNP I, pPTB, Ptb, PTB-1, PTB2, PTB3, PTB4) | -3.90 |
| | MG-6-41o6 | **Pabpn1**: poly(A) binding protein, nuclear 1 (**Synonyms:** PAB2, Pabp3, poly(A) binding protein II) | -2.75 |
| Protein binding | MG-12-233n24 | **Sla2**: Src-like-adapter 2 (**Synonyms:** SLAP-2, SLAP2) | -3.10 |
| | MG-3-5g6 | **Rasa1**: RAS p21 protein activator 1 (**Synonym:** Gap) | -3.53 |
| | MG-3-70b18 | **Maged1**: melanoma antigen, family D, 1 (**Synonyms:** Dlxin-1, DXBwg1492e) | -3.35 |
| | MG-3-3k20 | **Stmn1**: Stathmin (**Synonyms:** 19K, Lag, Lap18, leukemia associated phosphoprotein p18, metablastin, oncoprotein18, op18, p18, p19, pig, PP17, PP18, PR22, prosolin, SMN ) | -4.85 |
| | MG-3-4i4 | **Tipin** (Interim): timeless interacting protein | -2.53 |
| Protein binding, histone binding | MG-3-31o18 | **Nasp:** Nuclear autoantigenic sperm protein (**Synonym**: Epcs32) | -6.11 |
| Protein binding; metal ion binding | MG-3-10a14 | **Trim28**: tripartite motif protein 28 (**Synonyms:** KAP-1, KRIP-1, Tif1b) | -3.03 |
| Protein binding; protein folding | MG-6-22p24 | **Ppia:** peptidylprolyl isomerase A (**Synonyms:** Cphn, cyclophilin A, CyP-18, CypA) | -3.39 |
| Protein binding; protein inport into nucleus | MG-13-144a3 | **Kpnb1:** karyopherin (importin) beta 1 (**Synonym:** Impnb) | -3.06 |
| Protein biosynthesis | MG-14-83c21 | **Cars**: cysteinyl-tRNA synthetase (**Synonym:** CA3) | -2.75 |
| | MG-14-68e19 | **Gfm1**: G elongation factor, mitochondrial 1 | -2.75 |
| | MG-3-37k5 | **Mrpl12**: mitochondrial ribosomal protein L12 (**Synonyms:** MRP-L12, Rpml12) | -6.11 |
| | MG-8-89h3 | **Gspt1**: G1 to S phase transition 1 (**Synonyms:** G1st, Gst-1) | -2.72 |

## Supplementary Table I (*continued*)

| Putative function[a] | Clone ID[b] | Gene[c] | Avg fold[d] |
|---|---|---|---|
| Protein folding | MG-8-1e3 | **Fkbp4**: FK506 binding protein 4 (**Synonyms:** FKBP-52, FKPB52, p59) | -3.03 |
| | MG-3-71m8 | **Dnajb4**: DnaJ (Hsp40) homolog, subfamily B, member 4 | -2.59 |
| | MG-4-2h1 | **Hsp110**: heat shock protein 110 (**Synonyms:** 105kDa, hsp-E7I, Hsp105, HSP105 42 C-HSP, HSP1) | -4.85 |
| Protein transporter | MG-14-110m7 | **Xpo5**: exprotin 5 (**Synonym:** Exp5) | -4.53 |
| Ribosome biogenesis | MG-15-188a15 | **Nol5a**: Nucleolar protein 5a **(Synonym:** Nop56) | -4.85 |
| RNA binding; RNA processing | MG-3-10k3 | **Hnrpc**: heterogeneous nuclear ribonucleoprotein C (**Synonyms:** hnRNP C1, hnRNP C2, hnRNPC1, hnRNPC2, snoRNA MBI-122) | -2.56 |
| RNA binding; RNA processing | MG-12-228l7 | **Hnrpa2b1**: Heterogeneous nuclear ribonucleoproteins A2/B1 (**Synonyms:** hnrnp-A, Hnrpa2) | -4.22 |
| | MG-15-95e6 | **Hnrpab**: Heterogeneous nuclear ribonucleoprotein A/B (**Synonyms:** CBF-A, Cgbfa) | -3.53 |
| | MG-8-31a6 | **Hnrpu**: Heterogenous nuclear ribonucleoprotein U **(Synonym:** Sp120) | -4.53 |
| RNA processing; DNA binding | MG-6-19g10 | **Pcbp2**: poly(rC) binding protein 2 (**Synonyms:** alphaCP-2, Hnrpx) | -2.97 |
| RNA binding | MG-3-76o9 | **Nhp2l1**: NHP2-like protein 1 (High mobility group-like nuclear protein 2 homolog 1) (**Synonyms:** FA-1, Fertilization antigen-1, Fta1, Ssfa1) | -2.83 |
| | MG-6-42b15 | Splicing factor U2AF 65 kDa subunit | -3.03 |
| Succinyl-CoA metabolism | MG-6-65c15 | **Oxct1**: 3-oxoacid CoA transferase 1 (**Synonym:** Scot-s) | -2.61 |
| Transcription regulation | MG-14-81j6 | **Id1**: inhibitor of DNA binding 1 (**Synonym:** Idb1) | -3.03 |
| Translation | MG-8-32a23 | **Eif1:** eukaryotic translation initiation factor 1 (**Synonym:** Sui1-rs1) | -3.03 |
| | MG-16-5j12 | **Itgb4bp:** integrin beta 4 binding protein (**Synonym:** Eif6) | -2.53 |
| Transport and binding protein | MG-15-66g15 | **Ranbp1**: Ran binding protein 1 **(Synonym:** Htf9a) | -4.90 |
| | MG-6-3h11 | **Cplx1**: complexin 1 | -3.00 |
| | MG-8-42j10 | **Cd24**: Signal transducer CD24 precursor | -2.80 |
| tRNA processing | MG-3-49o10 | **Rpp21**: ribonuclease P 21 subunit (human) | -3.39 |
| Unknown function | MG-14-56o5 | **Slc38a2**: solute carrier family 38, member 2 | -2.83 |
| | MG-14-91g24 | **Rbm13**: RNA binding motif protein 13 | -3.74 |
| | MG-16-179o20 | **Lsm2**: U6 snRNA-associated Sm-like protein Lsm2 | -3.71 |
| | MG-16-3e3 | **NM_024096**: XTP3-transactivated protein A | -5.37 |

**Supplementary Table I** (*continued*)

| Putative function[a] | Clone ID[b] | Gene[c] | Avg fold[d] |
|---|---|---|---|
| | MG-3-103a23 | **NP_109610**: stress-associated endoplasmic reticulum protein 1 | -2.77 |
| | MG-3-106g16 | **Erh**: Enhancer of rudimentary homolog **(Synonyms:** Mer, Prei1) | -4.66 |
| | MG-3-22j13 | **Gpiap1**: GPI-anchored membrane protein 1 | -2.72 |
| | MG-6-10a10 | **Cdk2ap1**: Cyclin-dependent kinase 2-associated protein 1 | -2.92 |
| | MG-6-41h1 | **SET**: SET protein | -7.46 |
| | MG-8-40d18 | **Anp32b**: acidic nuclear phosphoprotein 32 family, member B (**Synonyms:** PAL31, PHAPI2a) | -5.00 |

[a] The putative gene function
[b] The microarray clone ID
[c] Gene name
[d] In the microarray experiment determined average fold gene expression