

SUPPLEMENTARY MATERIAL

Table S1. Supplemental data for transcription factors in the developing retina

Gene Name	Type	ESTs	ID #
TRANSCRIPTION INTERMEDIARY FACTOR 1-BETA (KRIP-1/TIF1B)	GTF	14	0104-10
transcription factor Math5	bHLH	13	0232-39
TRANSCRIPTION ACTIVATOR (SNF2-BETA/BRG-1)	GTF	9	0221-87
KRAB-containing zinc-finger protein KRAZ1	zinc finger	7	0174-69
hairy/enhancer of split 6 (HES6)	bHLH	6	2071-37
CARG-BINDING FACTOR-A (CBF-A)		5	2072-84
transcriptional activator/zinc finger protein ZAC1	zinc finger	5	2034-74
retina-specific transcription factor Chx10 (HOMEBOX PROTEIN)	homeobox	5	0612-13
TRANSCRIPTION FACTOR BTF3		5	0243-37
TRANSCRIPTION FACTOR SOX11	HMG	5	0242-92
LIM-homeodomain protein apterous/mLHX2 (interacts with mrg1)	LIM-homeo	4	2103-04
DNA-BINDING PROTEIN HTF4/E-BOX-BINDING PROTEIN (ALF1/ME1)	bHLH	4	0243-95
growth hormone transcription factor Zn-15/Zn-16	zinc finger	4	0233-86
Math4a/Neurogenin-2	bHLH	4	0174-56
PAX6 (paired box containing gene)	paired box	4	0084-46
retina-derived POU-domain factor-1 (RPF-1)	POU	3	2111-70
HOMEBOX PROTEIN SIX3	homeobox	3	2062-63
cAMP-DEPENDENT TRANSCRIPTION FACTOR ATF-4 (TAXREB67 HOMOLOG)	bZIP	3	2042-77
MYB PROTO-ONCOGENE PROTEIN (C-MYB)	bZIP	3	0263-52
TAR DNA-binding protein-43 (TDP-43)		3	0252-03
general transcription factor 2-I (TFII-I/BAP-135)	GTF	3	0233-72
APOPTOSIS RESPONSE ZINC FINGER PROTEIN REQUIEM (UBI-D4)	zinc finger	3	0224-14
bromodomain PHD finger transcription factor BPTF		3	0194-46
Creb-related protein (Creb-rp)	bZIP	3	0192-09
TRANSCRIPTIONAL ENHANCER FACTOR TEF-4 (ETEF-1/TEAD-2)		3	0191-16
splicing factor PSF/p54NRB (octamer-binding protein)		3	0182-91
MAZR (Myc-associated zinc finger/MAZ-related factor)	zinc finger	3	0174-22
TRANSCRIPTION FACTOR-LIKE PROTEIN MRGX		3	0123-64
X box binding protein-1 (HTF/TREB5)		3	0113-29
nuclear receptor co-repressor N-CoR	GTF	3	0112-06
homeobox gene of the sine oculis-Six Six6 (Optx2)	homeobox	3	0111-08
TBP-associated factor 172 (TAFII170)	GTF	3	0084-31
FUSE (far upstream element of c-myc) binding protein FBP		3	0082-33
ZINC FINGER PROTEIN HRX (MLL/TRITHORAX-LIKE PROTEIN ALL-1)	zinc finger	3	0052-61
muscle TFII-I repeat domain-containing protein 1 (GTF2IRD1/BEN)		2	2124-50
transcription factor AP-2	bZIP	2	2121-52
SIGNAL TRANSDUCER AND ACTIVATOR OF TRANSCRIPTION 5B	stat	2	2114-12
ETS-RELATED TRANSCRIPTION FACTOR ELF-2 (ELF2)	ETS	2	2112-12
TBP-ASSOCIATED FACTOR 250KD (TAFII250)	GTF	2	2112-03
KRUEPPEL-LIKE FACTOR 7 KLF7 (UBIQUITOUS KRUEPPEL-LIKE FACTOR)	zinc finger	2	2101-26
metal response element DNA-binding protein M96 (ZiRF1)		2	2094-72
nuclear protein np95 (related to transcription factor ICBP90)		2	2072-94
zinc finger transcription factor Roaz	zinc finger	2	2041-67
PRE-B-CELL LEUKEMIA TRANSCRIPTION FACTOR/HOMEBOX PROTEIN PBX3	homeobox	2	0694-31
COUP TRANSCRIPTION FACTOR 1 (COUP-TF1/ear-3)	nuclear receptor	2	0693-33
bZIP protein LZIP-2	bZIP	2	0611-96
ZINC FINGER PROTEIN 35 (ZFP-35)	zinc finger	2	0272-28
ZINC FINGER PROTEIN 90 (ZFP-90/NK10)	zinc finger	2	0271-28
INTERLEUKIN ENHANCER-BINDING FACTOR 1 (ILF-1)		2	0263-42
retinoid-related orphan receptor (ROR) beta/ROR-BETA	nuclear receptor	2	0242-86
Tat transcriptional coactivator CA150	GTF	2	0242-49
transcription factor IIIC alpha-subunit (TFIIIC-alpha)		2	0241-69
grg1 (Groucho-related gene/transducin-like enhancer protein)		2	0234-48
J KAPPA RS-BINDING PROTEIN (SUPPRESSOR OF HAIRLESS)		2	0233-07
transcription factor LBP-1a/NF2d9		2	0223-48
HELIX-LOOP-HELIX PROTEIN 2 (HEN2/NSCL-2)	bHLH	2	0193-72
REGULATORY PROTEIN TSC-22 (TGFB STIMULATED CLONE 22)		2	0192-40
NEUROGENIC DIFFERENTIATION FACTOR 1 (BHF-1/NeuroD)	bHLH	2	0191-69
transcription repressor ZFM1/splicing factor SF1		2	0173-59

Table S1. Continued

transcriptional activator (BRG1/SNF2)	GTF	2	0172-21
putative transcription factor CA150		2	0122-72
GRG PROTEIN (ESP1/AES-2/Groucho-related gene)		2	0114-31
TRANSCRIPTION FACTOR HES-5 (HAIRY AND ENHANCER OF SPLIT 5)	bHLH	2	0113-49
myelin transcription factor 1 (Myt1)		2	0102-65
TRANSCRIPTION FACTOR HES-1 (HAIRY AND ENHANCER OF SPLIT 1)	bHLH	2	0101-39
core promoter binding protein CPBP		2	0084-84
similar to Drosophila ash2	bHLH	2	0081-73
TRANSCRIPTION INITIATION FACTOR IIE BETA SUBUNIT	GTF	2	0054-50
zinc finger transcription factor spalt-like protein msal-2	zinc finger	2	0054-40
Sex comb on midleg homolog scmh1 (a Polycomb-group protein)		2	0051-41
HOMEBOX PROTEIN DLX-1	homeobox	1	2123-87
rax/rx (retina and anterior neural fold homeobox gene)	homeobox	1	2113-28
CYCLIC-AMP-DEPENDENT TRANSCRIPTION FACTOR ATF-5/ATFX		1	2112-73
PSE-BINDING FACTOR DELTA SUBUNIT (PTF delta/SNAP45 homolog)		1	2104-73
calcineurin-dependent transcription complex subunit NF-ATc4	NFAT	1	2102-19
TRANSCRIPTION INITIATION FACTOR IIF (TFIIF-BETA/RAP30)	GTF	1	2101-67
teashirt 2 (tsh2)	zinc finger	1	2101-33
FORKHEAD-RELATED PROTEIN FKHL1 (TRANSCRIPTION FACTOR BF-1)	forkhead	1	2093-54
ATONAL PROTEIN HOMOLOG 3 (HELIX-LOOP-HELIX PROTEIN MATH-3)	bHLH	1	2092-58
CpG binding protein (CGBP/PCCX1 has PHD finger/CXXC domain)		1	2084-85
Max-interacting protein MGA (has bHLHZip motif/T-box domain)	bHLH/T box	1	2084-81
ETS-RELATED TRANSCRIPTION FACTOR ELF-1 (E74-LIKE FACTOR 1)	ETS	1	2084-75
HCF-binding transcription factor Zhangfei		1	2082-32
METAL RESPONSIVE ELEMENT BINDING TRANSCRIPTION FACTOR MTF-1		1	2081-19
transcription factor C1/HCF (VP16 ACCESSORY PROTEIN)		1	2074-77
TBP-related factor (TLF/TRF2)	GTF	1	2063-37
UPSTREAM STIMULATORY FACTOR 1 (USF1 BINDS E-BOX SEQUENCE)		1	2062-23
FHX/KIAA1041/FOXJ2 forkhead factor	forkhead	1	2061-51
ash1 (trithorax group gene/absent, small, or homeotic 1)		1	2054-12
SKI ONCOGENE (C-SKI)		1	2053-74
B-CELL REGULATOR OF IgH TRANSCRIPTION BRIGHT (DEAD RINGER LIKE)		1	2052-35
Pituitary tumor-transforming gene (PTTG activates c-Myc)		1	2044-24
checkpoint suppressor 1 CHES1 (FORKHEAD domain)	forkhead	1	2043-07
TATA-binding protein (TBP)-interacting protein TIP120B	GTF	1	2041-38
transcription factor IIIc63 (TFIIIC63)	GTF	1	2034-85
transcription factor SOX8	HMG	1	2032-95
TRANSCRIPTION FACTOR DP-1 (E2F DIMERIZATION PARTNER 1)		1	2031-09
ENHANCER OF ZESTE HOMOLOG 2 (ENX-1/Polycomb group gene)		1	2024-01
retinoblastoma-interacting zinc-finger gene RIZ	zinc finger	1	2023-09
B lymphocyte-induced maturation protein-1 (Blimp-1/PRDI-BF1)		1	2022-67
SOX9 transcription factor	HMG	1	2013-54
NUCLEAR FACTOR OF ACTIVATED T-CELLS (NFAT4/NFATx)	NFAT	1	2012-19
HOMEBOX PROTEIN DLX-2 (HOMEBOX PROTEIN TES-1)	homeobox	1	2012-16
LIM-homeodomain transcription factor islet1	LIM-homeo	1	0823-63
TBP-associated factor TAFI95	GTF	1	0822-77
homeobox gene Cut alternatively spliced product (CASP)	homeobox	1	0822-63
TRANSCRIPTION ELONGATION FACTOR S-II	GTF	1	0694-92
hepatocyte nuclear factor 6 (HNF-6)		1	0691-86
TSC22-related inducible leucine zipper 2	bHLH	1	0613-85
HOMEBOX PROTEIN PBX2	homeobox	1	0613-53
E2F-like transcriptional repressor protein		1	0611-91
Kruppel-type zinc finger protein ZBP-99	zinc finger	1	0611-24
homolog of TRANSCRIPTION FACTOR JUN-D	bZIP	1	0273-68
general transcription elongation factor Tat-SF1		1	0273-40
cyclin D-binding Myb-like transcription factor DMP1	bZIP	1	0271-32
Drosophila prospero homolog prox 1/CLE7 (homeobox gene)	homeobox	1	0263-67
FORKHEAD BOX PROTEIN K1 (MYOCYTE NUCLEAR FACTOR/MNF)	forkhead	1	0262-75
zinc finger/leucine zipper protein AF10	zinc finger	1	0261-83
zinc finger protein 62 (Zfp62)	zinc finger	1	0261-51
DNA-BINDING PROTEIN MEL-18 (a mammalian Polycomb group gene)		1	0254-83

Table S1. Continued

SP1-like zinc finger transcription factor (FKLF homolog)	zinc finger	1	0254-65
STEROL REGULATORY ELEMENT BINDING PROTEIN-2 (SREBP-2)		1	0242-59
COUP TRANSCRIPTION FACTOR 2 (COUP-TF2/ARP-1)	nuclear receptor	1	0242-32
glucocorticoid modulatory element binding protein 1 (GMEB-1)		1	0242-30
transcription factor Sp1	zinc finger	1	0233-17
Rel domain-containing transcription factor NFAT5	NFAT	1	0233-14
erythroid transcription factor FKLF-2/BTEB3	zinc finger	1	0232-55
transcription factor TBX3 (T box protein)	T box	1	0232-17
co-repressor protein mSin3B	GTF	1	0221-61
ZINC FINGER PROTEIN 38 (ZFP-38/RU49/Zipro1)	zinc finger	1	0221-47
Myelin transcription factor zinc finger protein (MyT3/NZF-3)	zinc finger	1	0194-25
zinc finger transcription factor/AE-1 binding protein AEBP2	zinc finger	1	0194-06
maternal transcript Maid (negative regulator of bHLH factor)	bHLH	1	0192-89
SIGNAL TRANSDUCER AND ACTIVATOR OF TRANSCRIPTION 5A (Stat5a)	stat	1	0192-30
Human Sp2 homolog	zinc finger	1	0192-25
nuclear factor I-A2 (NFIA)	bHLH-ZIP	1	0192-13
SL3-3 ENHANCER FACTOR 2 (SEF-2/ITF-2)		1	0182-85
transcription factor TFIID 230 kda subunit (Taf250)		1	0182-13
NF45 (45-kDa subunit of NF-AT)	NFAT	1	0181-46
TRANSCRIPTION FACTOR MAFG OF BZIP FAMILY (basic-leucine zipper)	bZIP	1	0174-39
TRANSCRIPTION FACTOR JUN-D	bZIP	1	0172-28
TRANSCRIPTIONAL REPRESSOR CTCF (C-MYC PROMOTER BINDING)	bHLH	1	0171-73
deformed epidermal autoregulatory factor 1 (DEAF-1/NUDR)		1	0171-30
Smad1 (mothers-against-dpp-related-1)	smad	1	0123-56
LIM-type homeobox gene islet-2	LIM-homeo	1	0123-13
helix-loop-helix DNA binding protein regulator (Id)	bHLH	1	0122-61
putative transcription factor Vezf1/DB1		1	0121-26
transcription regulator Sin3A		1	0121-20
iroquois-class homeobox protein Irx6	homeobox	1	0114-80
HYPOXIA-INDUCIBLE FACTOR 1 ALPHA (HIF-1 ALPHA)		1	0114-33
transcription factor OC-2 (ONECUT homeodomain class)	homeobox	1	0112-31
TRANSCRIPTION FACTOR DP-2 (E2F DIMERIZATION PARTNER 2)		1	0104-61
ZINC FINGER PROTEIN GLI1	zinc finger	1	0103-63
myelin transcription factor 1-like (Png-1/NZF-1)		1	0102-76
CCAAT binding transcription factor CBF-C/NFY-C		1	0102-06
ZINC FINGER PROTEIN ZIC1	zinc finger	1	0084-89
SMAD5	smad	1	0084-69
ORPHAN NUCLEAR RECEPTOR TR2	nuclear receptor	1	0082-22
transcriptional repressor RP58/Translin Associated Zinc Finger	zinc finger	1	0081-24
T-box transcription factor tbx20	T box	1	0054-10
Btf (Bcl-2-associated transcription factor)		1	0053-37
Y-BOX TRANSCRIPTION FACTOR (CBF-A/EFI-A)		1	0053-25
HOMEBOX PROTEIN PBX1	homeobox	1	0052-40
MYB-RELATED PROTEIN B (B-MYB)	bZIP	1	0051-24
MYB-RELATED PROTEIN A (A-MYB)	bZIP	1	0051-13

Table S2. Supplemental data for signaling molecules in the developing retina

Gene	EST	ID#
14-3-3 PROTEIN EPSILON (PROTEIN KINASE C INHIBITOR PROTEIN-1)	21	2051-63
secreted frizzled related protein 2 (Sarp1/sFRP-2/SDF5)	20	0612-96
calmodulin	15	0173-77
14-3-3 protein theta protein	13	0694-19
beta catenin	10	0242-81
NEUROMODULIN (AXONAL MEMBRANE PROTEIN GAP-43)	6	2114-90
DOUBLECORTIN (LISSENCEPHALIN-X)	6	2074-73
RAB GDP DISSOCIATION INHIBITOR BETA (GDI-2)	6	2043-44
Ulip (UNC-33-LIKE PHOSPHOPROTEIN)	6	0611-80
ULIP3 (collapsin response mediator 1)	6	0251-32
RAF PROTO-ONCOGENE SERINE/THREONINE-PROTEIN KINASE	5	2071-24
ARF-directed GTPase activating protein ASAP1 (centaurin beta4)	5	2024-04
RECEPTOR OF ACTIVATED PROTEIN KINASE C 1 (RACK1)	5	0171-70
Rho family GTPase RhoA	4	2103-91
14-3-3 PROTEIN BETA (PROTEIN KINASE C INHIBITOR PROTEIN-1)	4	2082-41
Dickkopf gene Dkk-3	4	2081-37
G protein beta 36 subunit (transducin beta subunit 1/GNB1)	4	2062-52
mab-21 homolog MAB21L2	4	0271-42
GUANINE NUCLEOTIDE-BINDING PROTEIN G(S) ALPHA SUBUNIT	4	0264-34
GUANINE NUCLEOTIDE-BINDING PROTEIN G(I) ALPHA-2 SUBUNIT	4	0244-53
COP9 complex subunit 3 (SGN3)	4	0102-51
EGF repeat transmembrane protein DBI-1 (related to the notch)	3	2122-70
GTPase activating protein ID-GAP	3	2102-35
regulator of Notch signaling manic fringe	3	2081-77
repulsive guidance receptor Roundabout (Robo2/KIAA1568)	3	2051-28
SMOOTHENED HOMOLOG (SMO)	3	0824-65
RAB GDP DISSOCIATION INHIBITOR ALPHA (GDI-1)	3	0691-19
ECSIT (evolutionarily conserved signaling intermediate in Toll)	3	0613-39
14-3-3 PROTEIN ZETA/Delta (PROTEIN KINASE C INHIBITOR PROTEIN)	3	0263-25
collapsin response mediator protein 5 (Crmp5)	3	0252-33
adenyl cyclase-associated protein (CAP)	3	0241-37
G PROTEIN BETA 2 SUBUNIT (TRANSDUCIN BETA CHAIN 2)	3	0221-26
taipoxin-associated calcium binding protein-49 (ERC-55)	3	0194-87
14-3-3 protein eta	3	0192-58
INTERFERON-RELATED DEVELOPMENTAL REGULATOR (IFRD1/TIS7)	3	0183-67
Ras-related GTP-binding protein Rheb	3	0113-38
14-3-3 protein gamma-subtype	3	0082-11
Drosophila pair-rule gene odz/Tenm homolog ODZ3	3	0052-06
guanine nucleotide-binding regulatory protein gamma-3 subunit	2	2114-57
regulator of G-protein signaling (RGS-r/RGS16)	2	2111-45
Arl2 binding protein BART1 (binds Arf-like 2 protein)	2	2103-44
NEDD5/SEPTIN 2 PROTEIN	2	2101-30
Borg4 (binder of Rho GTPases 4)	2	2071-11
CDC42 protein	2	2051-03
Flt3 interacting zinc finger protein Fiz1	2	2042-62
RasGAP SH3-binding protein 2 (G3BP2)	2	2011-50
putative GAP protein E6TP1 (SPA-1 like protein p1294)	2	2011-04
disintegrin-metalloprotease MADM/kuzbanian homolog	2	0824-70
TRAF6-binding protein T6BP/tax1-binding protein TXBP151	2	0692-82
candidate tumor suppressor protein DICE1 (contains EGF repeat)	2	0274-08
RAS-RELATED PROTEIN RAB14	2	0272-40
Nogo-A/Reticulon 4-A (a potent inhibitor of neurite growth)	2	0244-77
rhotekin (binds to p21/rho and inhibits its GTPase activity)	2	0244-09
mab-21 homolog MAB21L1/CAGR1	2	0243-07

Table S2. Continued

CYCLIN-DEPENDENT KINASE 5 REGULATORY SUBUNIT 1 (P35/CDK5)	2	0241-91
AXIN 1 (FUSED/AXIS INHIBITION PROTEIN 1)	2	0241-11
ADP-ribosylation factor 1-directed GTPase activating protein	2	0234-93
J KAPPA RS-BINDING PROTEIN (SUPPRESSOR OF HAIRLESS)	2	0233-07
RAS-RELATED PROTEIN RAL-A	2	0231-71
Numb protein	2	0224-39
REGULATOR OF G-PROTEIN SIGNALING 12 (RGS12)	2	0194-64
GTP-binding regulatory protein gamma	2	0191-74
TUBERIN (TUBEROUS SCLEROSIS 2 HOMOLOG)	2	0183-44
ALPHA-1 CATENIN (102 KDA CADHERIN-ASSOCIATED PROTEIN)	2	0183-16
NF2/MERLIN (SCHWANNOMIN)	2	0172-39
tomoregulin/M7365 (contains follistatin modules and EGF domain)	2	0171-02
FOLLISTATIN-RELATED TGF-BETA-INDUCIBLE PROTEIN TSC-36	2	0124-29
guanine nucleotide binding protein gamma-5 subunit	2	0122-57
65 KDA YES-ASSOCIATED PROTEIN (YAP65)	2	0121-16
COP9 complex subunit 6	2	0114-16
calmodulin III (Calm3)	2	0112-21
RAN-SPECIFIC GTPASE-ACTIVATING PROTEIN (RANBP1)	2	0101-54
guanine nucleotide-binding protein ragA	2	0084-85
CADHERIN-RELATED TUMOR SUPPRESSOR HOMOLOG (FAT)	2	0081-03
RAS GTPASE-ACTIVATING-LIKE PROTEIN IQGAP1 (P195)	2	0051-91
plexin 2	1	2123-63
CD81 ANTIGEN (26KD CELL SURFACE PROTEIN TAPA-1)	1	2123-54
GAP-binding protein Tid-1 (a DnaJ/Tid56 homolog)	1	2122-15
EMBRYONAL FYN-ASSOCIATED SUBSTRATE (SRC-INTERACTING PROTEIN)	1	2121-84
PHOSPHATIDYLINOSITOL 3-KINASE CATALYTIC SUBUNIT (P110 BETA)	1	2121-31
kappa B-ras 2 (regulates the degradation of ikappaB)	1	2114-27
Trad/Duet/KALIRIN-12a serine/threonine kinase	1	2114-09
GTPase activating protein Nadrin	1	2112-90
TRAF and TNF receptor-associated protein (TTRAP)	1	2112-54
PKC-zeta-interacting protein (ZIP)	1	2112-31
TGF-beta receptor associated protein STRAP (recruits Smad7)	1	2112-11
DIACYLGLYCEROL KINASE ETA (DGK-ETA)	1	2111-76
suppressor of cytokine signalling-5 SOCS-5	1	2111-51
Stat3-interacting protein StIP1	1	2102-16
tetraspanin CD82/KAI-1/IA4 (a TM4SF protein)	1	2094-77
semaphorin subclass 4 member G (sema4g/KIAA1619)	1	2083-05
MAP kinase-activating death domain protein MADD/DENN	1	2082-91
ras-related small GTPase RAB18	1	2082-75
PHOSPHOLIPASE C-BETA-3 (PLC-BETA-3/PLCB3)	1	2082-38
TNF receptor associated factor 4 (TRAF4)	1	2081-94
RAS-RELATED PROTEIN RAB24 (RAB-16)	1	2081-83
RHO-RELATED GTP-BINDING PROTEIN RHO7	1	2074-49
GTP-binding protein RAB21	1	2074-48
regulator of G-protein signaling 2 (RGS2)	1	2074-31
RAS GTPASE-ACTIVATING-LIKE PROTEIN IQGAP1 related	1	2073-23
SYNDECAN-3/N-syndecan (CELL SURFACE PROTEOGLYCAN)	1	2071-69
SOCS box-containing WD protein SWIP-2/WSB-2	1	2071-67
NEUROFILIN-1 (A5 PROTEIN BINDS SEMAPHORIN 3A and VEGF165)	1	2071-25
RAS-RELATED PROTEIN R-RAS2 (RAS-LIKE PROTEIN TC21)	1	2064-04
B-ind1 protein (participates in Rac1 signaling)	1	2063-32
beta-catenin-interacting protein ICAT (regulate Wnt signaling)	1	2063-08
GROWTH FACTOR RECEPTOR-BOUND PROTEIN 10 (GRB10 ADAPTOR PROTEIN)	1	2062-38
PKR-associating protein RAX/PACT (activator of PKR kinase)	1	2061-70
RAS-RELATED PROTEIN RAB28 (RAB-26)	1	2054-59
phosphatidylinositol 3-kinase p170/cpk-m	1	2054-29

Table S2. Continued

PDZ protein TIP-1 (interacts with the rho effector rhotekin)	1	2052-42
RhoGEF ARHGEF4/KIAA1112 related gene	1	2051-61
Ras GAP-binding phosphoprotein of 190kD (p190-A)	1	2051-48
A-kinase anchor protein (AKAP100)	1	2044-94
PHOSPHATIDYLINOSITOL 3-KINASE CATALYTIC SUBUNIT ALPHA ISOFORM	1	2042-70
GTP-binding protein G-septin/septin 3 (GTPase)	1	2041-12
GRIP-associated protein 1 (GRASP-1/a neuronal RasGEF)	1	2034-57
neuroglycan C (NGC/HEPARAN SULFATE PROTEOGLYCAN)	1	2034-10
Homer/vesl family protein homer-3	1	2032-16
p120 catenin (p120ctn/CTNND1)	1	2032-06
cell-polarity protein Par6 (binds Cdc42 and Rac1)	1	2031-77
Plenty of SH3s (POSH/Rac-binding protein)	1	2024-53
Rab6 GTPase activating protein GAPCenA	1	2023-82
RAS-RELATED PROTEIN RAB-35 (RAB-1C/RAY)	1	2023-37
nucleolar GTPase/AUTOANTIGEN NGP-1	1	2021-39
Activator of G protein signaling 3 (AGS3/a GDI protein)	1	2013-90
suppressor of cytokine signalling-2 SOCS-2	1	0824-17
N-CHIMAERIN (N-CHIMERIN/GTPASE ACTIVATING PROTEIN FOR P21-RAC)	1	0823-05
TRIPLE FUNCTIONAL DOMAIN PROTEIN/PTPRF INTERACTING PROTEIN	1	0822-89
TRAF-interacting protein I-TRAF/TANK	1	0822-38
RAS-RELATED C3 BOTULINUM TOXIN SUBSTRATE 1 (P21-RAC1)	1	0822-22
SYNDECAN-1 (CELL SURFACE PROTEOGLYCAN)	1	0821-93
EPH-RELATED RECEPTOR TYROSINE KINASE LIGAND (ELF-1/CEK7-L)	1	0821-17
signal transducing adaptor molecule STAM	1	0694-86
NEUROGENIC LOCUS NOTCH HOMOLOG PROTEIN 4 (NOTCH4/INT-3)	1	0692-10
TRANSMEMBRANE PROTEIN SEX (PLEXIN 4)	1	0612-01
guanylate binding protein (GUANINE NUCLEOTIDE-BINDING PROTEIN)	1	0611-30
formin-2/Fmn2 (LIMB DEFORMITY PROTEIN cappuccino)	1	0273-82
Notch signalling regulator deltex	1	0272-63
centrosomal A-kinase anchoring protein AKAP450	1	0271-62
EPHRIN-B1 (EPH-RELATED RECEPTOR TYROSINE KINASE LIGAND 2/STRA1)	1	0262-63
GUANINE NUCLEOTIDE-BINDING PROTEIN G(Z) ALPHA SUBUNIT	1	0262-56
membrane-associated guanylate kinase CASK/LIN-2	1	0262-52
GTPASE-ACTIVATING PROTEIN (GAP/P120GAP)	1	0261-34
Smad6	1	0261-28
TRANSMEMBRANE 4 SUPERFAMILY (TETRASPANIN 6/TM4SF-A15)	1	0253-62
A kinase anchor protein AKAP-KL	1	0251-45
CRK-LIKE PROTEIN CRKL (SH2/SH3 adaptor protein)	1	0251-11
BETA-ARRESTIN 2	1	0251-07
Cas and HEF1 associated signal transducer Chat	1	0251-04
SYNDECAN-2 PRECURSOR (FIBROGLYCAN/HEPARAN SULFATE PROTEOGLYCAN)	1	0244-90
phosphatidylinositol 3-kinase adaptor protein p150	1	0244-23
reelin	1	0243-03
SGN2/TRIP15/COPS2 of the COP9/Signalosome complex	1	0241-75
RAS-RELATED PROTEIN RAP-1B (GTP-BINDING PROTEIN SMG P21B)	1	0234-44
phosphorylated GTPgammaS-G(z)alpha binding protein GRIN1	1	0234-17
liprin-alpha2 (LAR-interacting protein)	1	0233-56
REGULATOR OF G-PROTEIN SIGNALING 5 (RGS5)	1	0233-29
cornichon	1	0231-52
NUCLEOBINDIN/Calnuc (an EF-hand Ca binding protein)	1	0224-11
RAS-RELATED PROTEIN RAH (low-molecular-weight G-protein)	1	0223-01
guanine nucleotide exchange factor (SON OF SEVENLESS/SOS-1)	1	0221-79
PROTO-ONCOGENE TYROSINE-PROTEIN KINASE FES/FPS	1	0193-88
mouse homolog of the Drosophila Disabled (mDab1)	1	0193-43
regulator of G-protein signaling RGS17/Rgsz2	1	0192-87
GUANINE NUCLEOTIDE DISSOCIATION STIMULATOR RALGDS FORM A	1	0184-15

Table S2. Continued

Trio guanine nucleotide exchange factor	1	0181-38
Ras GTPase-activating protein	1	0181-19
P58IPK-interacting protein P52rIPK (regulator of PKR)	1	0173-83
related to SEMAPHORIN 6A (SEMA Q)	1	0172-35
phosducin-like protein	1	0123-15
cyclin-dependent kinase 5 CDK5 (PSSALRE kinase)	1	0122-86
SEGMENT POLARITY PROTEIN DISHEVELLED HOMOLOG DVL-2	1	0121-87
proto-oncogene P21/c-K-ras	1	0121-43
NEUROGENIC LOCUS NOTCH HOMOLOG (MOTCH/NOTCH1)	1	0113-53
PINCH PROTEIN (Integrin-linked kinase binding protein)	1	0111-36
PROTO-ONCOGENE C-CRK	1	0104-74
ARF GTPase-activating protein GIT1	1	0104-44
UNC-13 homolog Munc13-2	1	0101-72
AUTOSOMAL DOMINANT POLYCYSTIC KIDNEY DISEASE PROTEIN 1 (PKD1)	1	0101-19
ADP-ribosylation factor GTPase-activating protein (ARFGAP1)	1	0082-31
cornichon-like protein	1	0081-63
ATRIAL NATRIURETIC PEPTIDE RECEPTOR B/guanylyl cyclase	1	0051-71
guanine nucleotide-binding protein rhoB	1	0051-36