

Table 2. Genes identified in the Wackym-Soares normalized rat vestibular periphery cDNA library with GO terms and organized by function

Gene symbol	Description	Unigene cluster	Genbank accession No.
<i>Genes associated with synaptic mechanisms</i>			
Agrrn	Agrin, associated with the aggregation of nicotinic receptor subunits	Rn.112106	CX569919
Amph1	Amphiphysin	Rn.44463	CX570801
BEGAIN	Brain-enriched guanylate-kinase-associated	Rn.30036	CX569284
Chn2	Chimerin (chimaerin) 2	Rn.10521	CX569858
Cltb	Clathrin, light polypeptide (Lcb), synaptic vesicle protein	Rn.3440	CX569624, CX571033
Colq	Collagen-like tail subunit (single strand of homotrimer) of asymmetric acetylcholinesterase, associated with efferent cholinergic synapse	Rn.87303	CX570499
Cript	Postsynaptic protein Cript	Rn.30508	CX569283, CX569721
Dlg2	Disks, large homolog 2 (<i>Drosophila</i>)	Rn.53628	CX569439
Eea1	Early endosome antigen, associated with early internalization events linked to G-protein-coupled receptors	Mm.210035	CX570527
Ehd4	Pincher, pinocytic chaperone for NGF/TrkA signaling endosomes	Rn.7379	CX569848
Gabra1	γ -Aminobutyric acid (GABA-A) receptor, subunit α 1	Mm.338713	CX569130
Mlp	MARCKS-like protein	Rn.2486	CX569544
Myo5a	Myosin Va, trafficking of intracellular vesicles and found in afferent calyces	Rn.44865	CX570645
Nrxn1	Neurexin I, transmembrane scaffolding protein at nodes of Ranvier	Rn.86517	CX569595
Rnp24	Coated vesicle membrane protein	Rn.1022	CX570172
Scg2	Secretogranin II	Rn.45602	CX570820
Scg3	Secretogranin III, neuron-specific acidic secretory protein	Rn.11093	CX570837
SNAP25	Synaptosomal-associated protein (human)	Rn.107689	CX569379
Strn	Striatin, calmodulin-dependent scaffolding protein, binds calveolin 1	Rn.37469	CX569252, CX570666
Gs2na	Striatin, calmodulin-binding protein 3	Rn.8394	CX569252
Sv2a	Synaptic vesicle glycoprotein 2a	Rn.11264	CX569269
Ush3a	Usher syndrome type III (clarin 1)	Rn.57072	CX571115
Vamp4	Vesicle-associated membrane protein 4	Mm.10699	CX570325
Vapa	Vesicle-associated membrane protein, associated protein a	Rn.17540	CX570430
<i>Genes associated with cell surface receptor-linked signal transduction</i>			
Antxr1	Anthrax toxin receptor 1	Rn.105486	CX571075
Araf1	v-raf murine sarcoma 3611 viral oncogene homolog 1	Rn.1714	CX570800, CX570953
Argbp2	Arg/Abl-interacting protein ArgBP2	Rn.24612	CX570422
Arhgap20	p-GTPase activating protein 20	Mm.26150	CX570546
Brd8	Bromodomain-containing 8	Mm.45602	CX569950
Crhr1	Corticotropin-releasing hormone receptor 1	Rn.10499	CX570557
CSNK1A1	Casein kinase I, α 1	Rn.23810	CX570917
Csnk2a1	Casein kinase II, α 1-polypeptide	Rn.4231	CX569772
Ctf1	Cardiotrophin 1	Rn.10253	CX570114
Ddr1	Discoidin domain receptor family, member 1	Rn.7807	CX569832
DTR	Diphtheria toxin receptor	Rn.10148	CX569129
Eif4ebp2	Eukaryotic-translation-initiation-factor-4E-binding protein 2	Mm.250329	CX571116
F2r	Coagulation factor II receptor	Rn.2609	CX569291
Fbxw7	F box and WD-40 domain protein 7, archipelago homolog (<i>Drosophila</i>)	Mm.196475	CX570010
Glud1	Glutamate dehydrogenase 1	Rn.55106	CX570338
Gna13	Guanine-nucleotide-binding protein, α 13	Mm.193925	CX569411
Gnai1	Guanine-nucleotide-binding protein, α -inhibiting 1	Rn.11391	CX570117
Gnb1	Guanine-nucleotide-binding protein, β 1	Rn.7106	CX569538
Gng12	Guanine-nucleotide-binding protein (G protein), γ 12	Rn.17099	CX569762
GPR126	G-protein-coupled receptor 126	Hs.318894	CX570324

Table 2 (continued)

Gene symbol	Description	Unigene cluster	Genbank accession No.
Gpr81	G-protein-coupled receptor 81	Mm.33362	CX570202
Gpr88	G-protein-coupled receptor 88	Rn.59513	CX570233
Gsk3b	Glycogen synthase kinase 3 β	Rn.10426	CX569788
Igsf4a	Immunoglobulin superfamily, member 4A	Mm.234832	CX569788
Lancl1	LanC (bacterial lantibiotic synthetase component C)-like 1	Rn.38972	CX569807
Lphn2	Latrophilin 2	Rn.12089	CX569322
LPHN3	Latrophilin 3	Rn.17279	CX569282
Lrp6	Low-density-lipoprotein-receptor-related protein 6	Mm.9776	CX569847
Ltbp4	Latent-transforming-growth-factor- β -binding protein 4	Mm.272251	27192755
Lynx1	Ly6/neurotoxin 1	Mm.257067	CX570354
Madh4	MAD homolog 4 (<i>Drosophila</i>)	Rn.9774	CX570506
Mist1	Muscle, intestine and stomach expression 1	Rn.9897	CX570103
Npr3	Natriuretic peptide receptor 3	Rn.11297	CX570752, CX570753
Omg	Oligodendrocyte myelin glycoprotein (Omg)	Rn.11850	CX569917
Osmr	Oncostatin M receptor	Rn.92110	CX571126
Pace4	Subtilisin-like endoproteases	Rn.950	CX570107
Pde1a	Phosphodiesterase 1A, calmodulin-dependent	Rn.94981	CX569606
Peli2	Pellino 2	Rn.60323	CX570251
Pkd1	Polycystic kidney disease 1 homolog	Rn.64559	CX569928
PLA2G3	Phospholipase A ₂ , group III	Hs.149623	CX571008
Ptpcr	Protein tyrosine phosphatase, receptor type, C	Rn.90166	CX570195, CX571080
Ptpcd	Protein tyrosine phosphatase, receptor type, D	Rn.91202	CX569120, CX569743
Ptpg	Protein tyrosine phosphatase, receptor type, G	Rn.87083	CX569151
Ptpkr	Protein tyrosine phosphatase, receptor type, K	Mm.332303	CX569971
Ptpzr1	Protein tyrosine phosphatase, receptor type, Z polypeptide 1	Rn.10088	CX569387
Ralgsd	Ras association (RalGDS/AF-6) domain family 4 (mouse), <i>ral</i> guanine nucleotide dissociation stimulator (rat)	Rn.40174	CX569767
Rassf4	Ras association (RalGDS/AF-6) domain family 4	Mm.257931	CX569309
Rgs7	Regulator of G protein signaling 7	Rn.21234	CX569526
Sfrp1	Secreted frizzled-related sequence protein 1	Rn.34957	CX570712
Sik2	Salt-inducible kinase 2, upregulated in high-salt-diet-fed rats	Mm.38316	CX570370
ST7	Suppression of tumorigenicity 7	Hs.368131	CX570584
STRAP	Similar to UNR-interacting protein [serine-threonine-kinase-receptor-associated protein (STRAP)]	Hs.504895	CX570661
Tcf7	Transcription factor 7, T-cell specific	Mm.31630	CX569558
Tiam1	T-cell lymphoma invasion and metastasis 1	Rn.38763	CX570615
Tob1	Transducer of ERBB2, 1	Rn.7819	CX570708
Wnt5a	Wingless-related MMTV integration site 5A	Rn.48749	CX569760
<i>Genes associated with intracellular signaling cascade</i>			
Add3	Adducin 3 (γ)	Rn.76589	CX569139, CX569167, CX570063
Arf3	ADP ribosylation factor 3	Rn.106440	CX570112
Arhgap5	ρ -GTPase-activating protein 5	Mm.35059	CX570052, CX570317
ARHGEF12	ρ -Guanine nucleotide exchange factor (GEF) 12	Hs.24598	CX569801, CX570379
Arl1	ADP-ribosylation-factor-like 1	Rn.3065	CX570254
Brp	BRCA1-associated protein	Mm.153372	CX570829
Btk	Bruton agammaglobulinemia tyrosine kinase	Mm.4475	CX569144

Table 2 (continued)

Gene symbol	Description	Unigene cluster	Genbank accession No.
Cab39	Calcium-binding protein 39	Mm.26135	CX569334, CX569455, CX570985
Calb2	Calbindin 2 (calretinin)	Rn.10321	CX569239
Camlg	Calcium-modulating ligand	Rn.63999	CX569118
Cdc42	Cell division cycle 42 homolog (<i>Saccharomyces cerevisiae</i>), Cdc42 GTPase-activating protein	Rn.60067	CX570916
Cdgap	Cdc42 GTPase-activating protein	Mm.268397	CX569953
CHN1	Chimerin (chimaerin) 1	Rn.11166	CX570159
Chp	Calcium-binding protein p22	Rn.11041	CX570980
Cipp	Channel-interacting PDZ domain protein	Mm.90218	CX569542
Crk	v- <i>crk</i> sarcoma virus CT10 oncogene homolog (avian)	Rn.96136	CX569340
Dixdc1	DIX domain containing 1	Mm.82598	CX570060
Dmd	Dystrophin, muscular dystrophy	Rn.10307	CX570612
DUSP21	Dual specificity phosphatase 21	Hs.534478	CX569877, CX570240
Eif4ebp2	Eukaryotic-translation-initiation-factor-4E-binding protein 2	Mm.250329	CX571116
ERBB2IP	ErbB2-interacting protein	Hs.519346	CX569874
FRK	Src-related tyrosine kinase (mouse or human)	Rn.10556	CX569559
Fstl1	Follistatin-like 1	Rn.95652	CX570462
Gab1	Growth-factor-receptor-bound-protein-2-associated protein 1	Mm.277409	CX569812, CX571056
Gdap1	Ganglioside-induced differentiation-associated protein 1	Mm.18218	CX570490, CX570961
Gna13	Guanine-nucleotide-binding protein, α 13	Mm.193925	CX569411
Gnb1	Guanine-nucleotide-binding protein, β 1	Rn.7106	CX569538
Hpcal1	Hippocalcin-like 1	Mm.20937	CX570539
Inpp5b	Inositol polyphosphate 5 phosphatase B	Mm.296202	CX570307
Mapk8ip2	Mitogen-activated protein kinase 8 interacting protein 2	Mm.173337	CX569486, CX569487
MAPK8IP3	Mitogen-activated protein kinase 8 (human or mouse)	Hs.207763	CX569515
Mpp2	Membrane protein, palmitoylated 2 (MAGUK p55 subfamily member 2)	Rn.44271	CX569948
Mras	Muscle and microspikes RAS	Rn.10641	CX570003
Nrbp	Nuclear-receptor-binding protein	Mm.292040	CX570780
Pik3cg	Phosphoinositide 3 kinase, catalytic, γ -polypeptide	Rn.109583	CX570088
Pkd1	Polycystic kidney disease 1 homolog	Rn.64559	CX569928
Pkd2	Polycystic kidney disease 2	Mm.6442	CX571081
Ppp2r5c	Protein phosphatase 2, regulatory subunit B (B56), γ -isoforms	Rn.2153	CX569386, CX569914
Prkce	Protein kinase C, ϵ	Rn.34966	CX569223
PSEN2	Presenilin 2	Rn.11045	CX569546
Rab1	RAB1, member RAS oncogene family (mouse), <i>ras</i> -related protein (rat)	Rn.106743	CX569849
Rab12	RAB12, member RAS oncogene family	Rn.11021	CX570389
Rab21	RAB21, member RAS oncogene family	Rn.13001	CX570891
RAB2B	RAB2B, member RAS oncogene family	Hs.22399	CX570798
Rab33b	RAB33B, member RAS oncogene family	Mm.1664	CX570148
RAB6B	RAB6B, member RAS oncogene family	Hs.147164	CX570372
Rab7	RAB7, member RAS oncogene family	Rn.1425	CX569615
Raf1	Murine leukemia viral (v- <i>raf</i> -1) oncogene homolog 1 (3611-MSV)	Rn.33262	CX570533
Ralgds	Ral guanine nucleotide dissociation stimulator (rat)	Rn.40174	CX569767
Ran	RAN, member RAS oncogene family	Rn.107698	CX571034
Rangap1	RAN GTPase-activating protein 1	Mm.270975	CX570737
Rap1ga1	Rap1, GTPase-activating protein 1	Mm.180763	CX569521
Rap2c	RAP2C, member RAS oncogene family	Rn.101524	CX570493
Rasa1	RAS p21 protein activator 1	Rn.12223	CX570623

Table 2 (continued)

Gene symbol	Description	Unigene cluster	Genbank accession No.
Rgs7	Regulator of G protein signaling 7	Rn.21234	CX569526
Rheb	Ras homolog enriched in brain	Rn.859	CX569676
Rhoa	ρ -Family GTPase, p15 ^{ras} -related homolog A2, alias Arha2	Rn.107401	CX569978, CX570151
Rhot1	Ras homolog gene family, member T1	Mm.261491	CX569462
Rock2	ρ -Associated coiled-coil-forming kinase 2	Rn.88642	CX569752
Sdcbp	Syntenin, anchors AMPA receptor to cell membrane	Rn.4309	CX570890, CX571093
SH3BP5	SH3 domain binding protein 5 (BTK-associated)	Rn.28667	CX570234
Slc9a3r2	Solute carrier family 9 (sodium/hydrogen exchanger), isoform 3 regulator 2	Rn.39351	CX570896
Smoc1	SPARC-related modular calcium binding 1	Rn.55639	CX569541
Snag1	Sorting-nexin-associated Golgi protein 1	Mm.33721	CX570588
Snx1	Sorting nexin 1	Rn.2785	CX571038
Snx10	Sorting nexin 10	Mm.294166	CX570331
Snx15	Sorting nexin 15	Mm.329629	CX569431
Snx4	Sorting nexin 4	Mm.28196	CX570764
Snx9	Sorting nexin 9	Mm.89515	CX570161, CX570795
Sos2	Son of sevenless homolog 2 (<i>Drosophila</i>)	Mm.3770	CX570160
Spag9	Sperm-associated antigen 9	Mm.260737	CX569461
Stat5b	Signal transducer and activator of transcription 5B	Rn.54486	CX569699
Stmn2	Stathmin-like 2	Rn.34335	CX570698
Tiam1	Cell lymphoma invasion and metastasis 1	Rn.38763	CX570615
Wsb1	WD repeat and SOCS box-containing 1	Mm.307022	CX570613
Ywhae	Tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, ϵ -polypeptide	Rn.4225	CX569647, CX570618
Ywhag	Tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, γ -polypeptide	Rn.29936	CX569658
<i>Genes associated with transport and/or ion channels</i>			
Abca8a	ATP-binding cassette, subfamily A (ABC1), member 8a	Mm.344148	CX570766
Abcb10	ATP-binding cassette, subfamily B (MDR/TAP), member 10	Mm.274243	CX569475
Abcd2	ATP-binding cassette, subfamily D (ALD), member 2	Rn.19678	CX569603
AFURS1	ATPase family homolog upregulated in senescence cells	Hs.529609	CX569209, CX569338
Ap1g1	Adaptor protein complex AP-1, γ 1-subunit	Rn.9446	CX570904
Ap3d1	Adaptor-related protein complex 3, δ -subunit	Mm.209294	CX571094
App	Golgi-associated PDZ and coiled-coil-motif-containing	Rn.2104	CX570008
Appbp2	Amyloid- β -precursor-protein (cytoplasmic tail)-binding protein 2	Mm.271997	CX570630
Arf1	ADP ribosylation factor 1	Rn.93735	CX570644
Arf3	ADP ribosylation factor 3	Rn.106440	CX570112
Arf4	ADP ribosylation factor 4	Rn.35935	CX570339
Arl1	ADP-ribosylation-factor-like 1	Rn.3065	CX570254
Arnt1	Aryl hydrocarbon receptor nuclear-translocator-like	Rn.14532	CX569745
Atp1a1	ATPase, Na ⁺ /K ⁺ transporting, α 1	Rn.2992	CX569887
Atp1b3	ATPase, Na ⁺ /K ⁺ transporting, β 3-polypeptide	Rn.5041	CX570512
ATP5C1	ATP synthase, H ⁺ transporting, mitochondrial F1 complex, γ -polypeptide 1 (human or mouse)	Rn.63959	CX569265
ATP5g3	ATP synthase, H ⁺ transporting, mitochondrial F0 complex, subunit c (subunit 9) isoform 3	Rn.2180	CX569532
Atp6s14	ATPase, vacuolar, 14 kDa	Rn.6167	CX570076
Bet1	Blocked early in transport 1 homolog (<i>Saccharomyces cerevisiae</i>)	Rn.3953	CX569346, CX569657
Bin3	Bridging integrator 3	Mm.24186	CX569642

Table 2 (continued)

Gene symbol	Description	Unigene cluster	Genbank accession No.
Cfh	Complement component factor h	Rn.101777	CX570315, CX570341
Cacna1a	Calcium channel, voltage-dependent, P/Q type, α 1A-subunit	Rn.87769	CX570139
Cacna1d	Calcium channel, voltage-dependent, L type, α 1D-subunit	Rn.89671	CX569572
Camk2g	Calcium/calmodulin-dependent protein kinase II γ (mouse), calcium/calmodulin-dependent protein kinase (CaM kinase) II γ (rat)	Rn.10961	CX570070, CX570371
Cav2	Caveolin 2, lipid-raft-associated	Rn.81070	CX570273
Cbl1	Casitas B-lineage-lymphoma-like 1	Mm.273270	CX570449
Clcn2	Chloride channel 2	Rn.11073	CX569444, CX570218, CX570277
Clns1a	Chloride channel, nucleotide-sensitive, 1A	Rn.4089	CX569358
Cpt1a	Carnitine palmitoyltransferase 1, liver	Rn.2856	CX569915
Cpt1b	Carnitine palmitoyltransferase 1b	Rn.6028	CX570294
Dab2	Disabled homolog 2 (<i>Drosophila</i>)	Rn.14763	CX570050
Dnch2	Dynein, cytoplasmic, heavy chain 2	Rn.44896	CX570555
Dncl1	Dynein, cytoplasmic, light intermediate chain 1	Mm.128627	CX570329
Dst	Dystonin	Mm.33625	CX569627
Ecac1	Epithelial calcium channel 1	Rn.12948	CX569588, CX570541
Elmo3	Engulfment and cell motility 3, ced-12 homolog (<i>Caenorhabditis elegans</i>)	Mm.237966	CX569114
ERBB2IP	ErbB2-interacting protein	Hs.519346	CX569874
Erp29	Endoplasmic reticulum protein 29	Rn.32904	CX569415
Fxyd6	FXD-domain-containing ion transport regulator 6	Rn.839	CX570067
Gabt1	GABA transporter protein	Rn.10035	CX570929
GOLGA7	Golgi autoantigen, golgin subfamily a, 7	Hs.7953	CX570696
Gira2	Glycine receptor, α 2-subunit	Rn.10379	CX569486, CX569486
Gria4	Glutamate receptor, ionotropic, AMPA4 (α 4)	Rn.10938	CX570526
Grid2	Glutamate receptor, ionotropic, δ 2	Rn.10046	CX569929
Grin1a	Glutamate receptor, ionotropic	Rn.3796	CX569222
Gsk3b	Glycogen synthase kinase β 3	Rn.10426	CX569788
Heph	Hephaestin	Rn.43849	CX570368, CX570400
KCNA6	Potassium voltage-gated channel, shaker-related subfamily, member 6	Rn.64494	CX569988
Kcnc2	Potassium voltage-gated channel, Shaw-related subfamily, member	Rn.9733	CX570895
Kcne1	Potassium voltage-gated channel, Isk-related subfamily, member 1, in humans mutations in this gene result in Jervell and Lange-Nielson syndrome (JLNS2); also involved with renal potassium transport	Rn.9734	CX569446
Kcnh1	Potassium voltage-gated channel, subfamily H (eag-related), member 1	Rn.11071	CX570577
Kcnj13	Potassium inwardly rectifying channel, subfamily J, member 1	Rn.14516	CX569724
Kctd15	Potassium channel tetramerization-domain-containing 15	Mm.214380	CX571084
Kpna3	Karyopherin (importin) α 3	Mm.25545	CX570042
Kpn1	Karyopherin (importin) β 1	Rn.11061	CX570834
Ldlr	Low-density lipoprotein receptor	Rn.10483	CX569181
LRP6	Low-density-lipoprotein-receptor-related protein 6	Hs.210343	CX569847, CX569991
M6pr	Mannose-6-phosphate receptor, cation-dependent	Mm.249225	CX569149
Madh4	MAD homolog 4 (<i>Drosophila</i>)	Rn.9774	CX570506
Osbpl1a	Oxysterol-binding-protein-like 1A	Rn.19665	CX570244
Pkd1	Polycystic kidney disease 1 homolog	Rn.64559	CX569928
Pkd2	Polycystic kidney disease 2	Mm.6442	CX571081
Prkar2a	Protein kinase, cAMP-dependent regulatory, type II α	Rn.9742	CX570109
Psm1	Proteasome (prosome, macropain) subunit, α type 1	Rn.2668	CX569498

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Rab1	<i>ras</i> -related protein (rat), RAB1, member RAS oncogene family (mouse)	Rn.106743	CX569849, CX570178
Rab12	RAB12, member RAS oncogene family	Rn.11021	CX570389
Rab21	RAB21, member RAS oncogene family	Rn.13001	CX570891
Rab33b	RAB33B, member RAS oncogene family	Mm.1664	CX570148
Rab7	RAB7, member RAS oncogene family	Rn.1425	CX569615
Ralbp1	ralA-binding protein 1	Rn.7107	CX570030
Ralgds	Ras association (RalGDS/AF-6) domain family 4 (mouse), ral guanine nucleotide dissociation stimulator (rat)	Rn.40174	CX569767
Ran	RAN, member RAS oncogene family	Rn.107698	CX571034
RAP-1A	Ras-related protein RAP-1A	Rn.106321	CX570846, CX570920
Rph3a	Rabphilin 3A	Rn.10976	CX570804
Scamp1	Secretory carrier membrane protein 1	Rn.20374	CX570429
Scamp3	Secretory carrier membrane protein 3	Rn.98518	CX569482
Scn1a	Sodium channel, voltage-gated, type 1, α -polypeptide	Rn.32079	CX570659
Sec23b	SEC23B (<i>Saccharomyces cerevisiae</i>)	Rn.8735	CX569808
SLC3A1	Solute carrier organic anion transporter family, member 3A1	Rn.11196	CX569289
Slc4a4	Solute carrier family 4, member 4	Mm.41044	CX569317
Slc7a1	Solute carrier family 7, member 1	Rn.9439	CX569652
Slc9a6	Solute carrier family 9 (sodium/hydrogen exchanger), isoform 6	Mm.17815	CX570784
Slc12a2	Solute carrier family 12, member 2	Rn.11523	CX570528
SLC12A5	Solute carrier family 12, (potassium-chloride transporter) member 5	Rn.10513	CX570132
Slc12a7	Solute carrier family 12, member 7	Mm.275800	CX569350
Slc13a3	Solute carrier family 13 (sodium-dependent dicarboxylate transporter), member 3	Rn.3587	CX570545
Slc16a1	Solute carrier family 16, member 1	Rn.6085	CX570720
Slc22a6	Solute carrier family 22, member 6	Rn.87849	CX570269, CX570289
SMC1L1	SMC1 (structural maintenance of chromosomes 1)-like 1 (yeast)	Rn.11763	CX570710
Snag1	Sorting-nexin-associated Golgi protein 1	Mm.33721	CX570588
Snx1	Sorting nexin 1	Rn.2785	CX571038
Snx10	Sorting nexin 10	Mm.294166	CX570331
Snx15	Sorting nexin 15	Mm.329629	CX569431
Snx4	Sorting nexin 4	Mm.28196	CX570764
Snx9	Sorting nexin 9	Mm.89515	CX570161, CX570795
Stg	Small glutamine-rich tetratricopeptide-repeat (TPR)-containing protein	Rn.9655	CX571036
Stk38l	Serine/threonine-kinase-38-like	Mm.32212	CX570718
Sypl	Synaptophysin-like protein	Mm.80919	CX570044
Syt1	Synaptotagmin 1	Rn.7596	CX570599
Tfrc	Transferrin receptor	Rn.98672	CX570856
Timm17a	Translocator of inner mitochondrial membrane 17a (yeast)	Rn.22514	CX570827
Tmc6	Transmembrane-channel-like gene family 6	Mm.286963	CX569650
Tob1	Transducer of ERBB2, 1	Rn.7819	CX570708
Tram1	Translocating chain-associating membrane protein 1	Rn.104193	CX569235
Trpc3	Transient receptor protein 3	Rn.45385	CX569857, CX569927
Ttpa	Tocopherol (α) transfer protein	Rn.64565	CX570237
Tuba4	Tubulin, α 4	Mm.1155	CX570937
Tubg1	Tubulin, γ 1	Rn.8218	CX570794
Ubl4	Ubiquitin-like 4	Mm.3979	CX569296
Vps26	Vacuolar protein sorting 26 (yeast)	Mm.260703	CX569584
Vps35	Vacuolar protein sorting 35	Rn.8419	CX569258, CX570297, CX570740

Table 2 (continued)

Gene symbol	Description	Unigene cluster	Genbank accession No.
Xpo1	Exportin 1 (CRM1, yeast, homolog)	Rn.34087	CX570807
Xpot	Exportin, tRNA (nuclear export receptor for tRNAs)	Mm.25042	CX570872
Ywhab	Tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, β -polypeptide	Rn.8653	CX569872
Ywhae	Tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, ϵ -polypeptide	Rn.4225	CX569647
Ywhag	Tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, γ -polypeptide	Rn.29936	CX569658
Ywhaz	Tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, ζ -polypeptide	Rn.1292	CX570313
<i>Genes associated with RNA transcription and metabolism</i>			
Adnp	Activity-dependent neuroprotective protein	Rn.48777	CX569981
Aebp2	AE-binding protein 2	Mm.86453	CX570037
Arntl	Aryl hydrocarbon receptor nuclear-translocator-like	Rn.14532	CX569745
Atf7ip	Activating-transcription-factor-7-interacting protein	Mm.173271	CX570608
Atm	Ataxia telangiectasia mutated homolog (human)	Rn.98962	CX570256
Bat8	HLA-B-associated transcript 8	Rn.116518	CX569734
Bpnt1	3(2),5-bisphosphate nucleotidase	Rn.8453	CX569645, CX570358
Bteb1	Basic transcription-element-binding protein 1	Rn.19481	CX569601, CX570034
Cbx3	Chromobox homolog 3 (<i>Drosophila</i> HP1 γ)	Mm.280968	CX570135, CX570414
Ccnc	Cyclin C	Rn.106758	CX569348
Ccnl	Cyclin L	Rn.12962	CX571099
Cnot4	CCR4-NOT transcription complex, subunit 4	Mm.214525	CX570571
Col9a2	Procollagen, type IX, α 2	Mm.269384	CX570928
Cops2	COP9 (constitutive photomorphogenic) homolog, subunit 2 (<i>Arabidopsis thaliana</i>)	Rn.11556	CX571022
Cugbp2	CUG triplet repeat, RNA binding protein 2	Rn.30004	CX570663
DCPS	mRNA-decapping enzyme	Rn.101986	CX570864
Dut	Deoxyuridine triphosphatase (dUTPase)	Rn.6102	CX570340
E2f6	E2F transcription factor 6	Rn.79506	CX571006
Elf1	E74-like factor 1	Rn.98640	CX570394
Esrrg	Estrogen-related receptor γ	Mm.89989	CX570676
Exosc1	Exosome component 1	Mm.289086	CX570213
Foxo1A	Forkhead box O1, transcription factor	Rn.102196	CX569970
Gabpa	GA-binding protein transcription factor, α -subunit 60 kDa	Rn.76236	CX569467
Gabpb1	GA-repeat-binding protein, β 1	Mm.293266	CX570296
Gtf2a1	General transcription factor IIA, 1	Rn.44436	CX570522
Hlf	Hepatic leukemia factor	Mm.158903	CX570949
Hnrpf	Ribonucleoprotein F	Rn.20143	CX569723
Hnrph2	Heterogeneous nuclear ribonucleoprotein H2	Mm.315909	CX569144
Hnrpk	Heterogeneous nuclear ribonucleoprotein K	Rn.11854	CX570880
Hnrpr	Heterogeneous nuclear ribonucleoprotein R	Rn.14947	CX570301
Irf2	Interferon-regulatory factor 2	Mm.1149	CX571096
Irx2	Iroquois-related homeobox 2 (<i>Drosophila</i>)	Mm.28888	CX569242
Isl1	ISL1 transcription factor, LIM/homeodomain (islet 1)	Rn.36202	CX569363
ISL2	Insulin-related protein 2 (islet 2)	Rn.10026	CX571066
Jarid1a	Jumonji, AT-rich interactive domain 1A (Rbp2-like)	Mm.354889	CX570120
Lamp2	Lysosomal membrane glycoprotein 2	Rn.1722	CX569410, CX570657
Lztr1	Leucine-zipper-like transcriptional regulator, 1	Mm.161726	CX570641
Madh4	MAD homolog 4 (<i>Drosophila</i>)	Rn.9774	CX570506
Mafb	v- <i>maf</i> musculoaponeurotic fibrosarcoma oncogene family, protein B (avian)	Rn.10725	CX569552

Table 2 (continued)

Gene symbol	Description	Unigene cluster	Genbank accession No.
Me1	Malic enzyme 1	Rn.3519	CX571055
MEF2A	Myocyte enhancer factor 2A	Hs.268675	CX569192
Mist1	Muscle, intestine and stomach expression 1	Rn.9897	CX570103
Mll	Myeloid/lymphoid or mixed-lineage leukemia	Rn.62341	CX569305
Msc	Musculin	Mm.5820	CX569607
Mtpn	Myotrophin	Rn.3239	CX569183
Nfia	Nuclear factor I/A	Rn.10550	CX569764
Nr1d1	Nuclear receptor subfamily 1, group D, member 1	Rn.29848	CX569951
Nr3c1	Nuclear receptor subfamily 1, group D, member 1	Rn.90070	CX569719
Pabpc1	Poly(A)-binding protein, cytoplasmic 1	Rn.29024	CX570543
PHF5A	Transcription factor INI (human)	Hs.474980	CX570115
Polr2k	Polymerase (RNA) II (DNA directed) polypeptide K	Mm.27375	CX570683
Polr3e	Polymerase (RNA) III (DNA directed) polypeptide E	Mm.193632	CX569125
POLR3F	Polymerase (RNA) III (DNA directed) polypeptide F, 39 kDa	Hs.472227	CX570610
Pou4f2	POU domain, class 4, transcription factor 2	Rn.92413	CX570611
Psip2	PC4 and SFRS1-interacting protein 2	Rn.93075	CX570375
Ptb	Polypyrimidine-tract-binding protein	Rn.64440	CX569478, CX569569
Rab1	RAB1, member RAS oncogene family (mouse), <i>ras</i> -related protein	Rn.106743	CX569849, CX570178
RAB2B	RAB2B, member RAS oncogene family	Hs.22399	CX570798
Rab7	RAB7, member RAS oncogene family	Rn.1425	CX569615
Rb1	Retinoblastoma 1	Rn.55115	CX570185
Rbl2	Retinoblastoma-like 2	Rn.11020	CX569140
Rnase4	Ribonuclease, RNase A family 4	Rn.1742	CX569828, CX570925
Rnf14	Ring finger protein 14	Mm.228903	CX569704
Rnf4	Ring finger protein 4	Rn.30015	CX570071
Rngtt	RNA guanylyltransferase and 5'-phosphatase	Mm.240024	CX571037, CX571042
Sfrs10	Splicing factor, arginine/serine-rich (transformer 2 <i>Drosophila</i> homolog) 10	Rn.8538	CX570478, CX570537
Sfrs5	Splicing factor, arginine/serine-rich 5	Rn.54448	CX570862
Sfrs8	Splicing factor, arginine/serine-rich 8	Mm.288714	CX569522
Sirt1	Sirtuin 1 (silent mating type information regulation 2, homolog) 1 (<i>Saccharomyces cerevisiae</i>)	Rn.42098	CX570156, CX571017
Six1	Sine-oculis-related homeobox 1 homolog (<i>Drosophila</i>)	Rn.94813	CX570649, CX570675
Smarca1	SWI/SNF-related, matrix-associated, actin-dependent regulator of chromatin, subfamily a, member 1	Mm.229151	CX570664
Smarca3	SWI/SNF-related, matrix-associated, actin-dependent regulator of chromatin, subfamily a, member 3	Mm.209150	CX569578
Smcf1	Transcription factor 1 (human)	Rn.22598	CX570212
Sox17	SRY-box-containing gene 17	Mm.279103	CX570427
Sprn	Double-stranded-RNA-binding protein p74	Rn.98476	CX569844
Ssrp1	Structure-specific recognition protein	Rn.35908	CX570924
Stat5b	Signal transducer and activator of transcription 5B	Rn.54486	CX569699
STRAP	Similar to UNR-interacting protein [serine-threonine-kinase-receptor-associated protein (STRAP)] (LOC297699), mRNA	Hs.504895	CX570661
Syncrip	Synaptotagmin-binding, cytoplasmic-RNA-interacting protein	Mm.260545	CX570279
TAF13	TAF13 RNA polymerase II, TATA-box-binding-protein (TBP)-associated factor (<i>Mus musculus</i>)	Hs.502508	CX569395
Taf4a	TAF4A RNA polymerase II, TATA-box-binding-protein (TBP)-associated factor	Mm.235542	CX569230
Tbl1x	Hepatic leukemia factor	Mm.258476	CX571057
Tceb1	Transcription elongation factor B (SIII), polypeptide 1	Rn.5996	CX570147

Table 2 (continued)

Gene symbol	Description	Unigene cluster	Genbank accession No.
Tcf7	Transcription factor 7 (T-cell specific, HMG box)	Mm.3163	CX569558
Thrap2	Thyroid-hormone-receptor-associated protein 2	Mm.206238	CX570989
Trpc3	Transient receptor protein 3	Rn.45385	CX569857, CX569927
Vars2	Valyl-tRNA synthetase 2	Rn.12314	CX570841
YT521	Splicing factor YT521-B	Rn.48752	CX569190
Zdhhc2	Zinc finger, DHHC-domain-containing 2	Rn.17310	CX569994, CX570636
Zfhx1b	Zinc finger homeobox 1b	Mm.259595	CX570048
Zfp162	Zinc finger protein 162	Rn.1074	CX569903
Zfp191	Zinc finger protein 191	Rn.44991	CX569273
Zfp260	Zinc finger protein 260	Rn.98773	CX569165
Zfp3611	Zinc finger protein 36, C3H-type-like 1	Rn.6142	CX569763, CX571117
Zfp426	Zinc finger protein 426	Mm.297660	CX570523
Zfp68	Zinc finger protein 68	Mm.27575	CX569651
Zfx	Zinc finger protein-X-linked	Mm.919	CX569105
Zhx1	Zinc fingers and homeoboxes 1	Rn.16902	CX570260
Znf265	Zinc finger protein 265	Rn.11361	CX569154
<i>Genes associated with cell proliferation, neurogenesis, cell growth and programmed cell death</i>			
Abi1	Abl-interactor 1, regulation of actin dynamics, has overlapping SNARE domain	Rn.24800	CX570640
Actr2	ARP2 actin-related protein 2 homolog (yeast)	Mm.259045	CX569158, CX569343, CX570437
Ahi1	Ahi-1 may play important role in signal transduction and may be involved in tumor development	Rn.236737	CX570625
Ank2	Ankyrin 2, brain, implicated in development of long QT syndrome (Jervell and Lange-Nielson syndrome)	Rn.71011	CX569484, CX569582, CX570542
Anln	Anillin, actin-binding protein (scraps homolog, <i>Drosophila</i>)	Mm.282751	CX569784
Anxa7	Annexin A7, Ca ²⁺ -binding protein, Ca ²⁺ -signaling process	Rn.106184	CX569433, CX570854
Api5	Apoptosis inhibitor 5	Mm.181824	CX569195
App	Amyloid β (A4) precursor protein	Rn.2104	CX570008
Asah2	N-acylsphingosine amidohydrolase 2	Rn.22738	CX570687, CX570892
Atm	Ataxia telangiectasia mutated homolog (human)	Rn.98962	CX570256
Bmi1	B lymphoma Mo-MLV insertion region 1 (mouse)	Mm.289584	CX570285, CX570142
Camk2g	Calcium/calmodulin-dependent protein kinase (CaM kinase) II γ	Rn.10961	CX570371
Catnb	Catenin β , associated with cell proliferation in vestibular epithelia	Rn.112601	CX570119
Ccnc	Cyclin C, involved in cell cycle reentry	Rn.106758	CX569348
Ccng1	Cyclin G1	Rn.5834	CX569833
Ccni	Cyclin I	Mm.250419	CX570514
Cdc37	Cell division cycle 37 homolog (<i>Saccharomyces cerevisiae</i>)-like	Rn.17982	CX570717
Cdc42	Cell division cycle 42 homolog (<i>Saccharomyces cerevisiae</i>), Cdc42 GTPase-activating protein	Rn.60067	CX570916
Cdk5	Cyclin-dependent kinase 5 (Cdk5)	Rn.10749	CX569253
Cetn2	Centrin 2, calcium-binding protein, duplication and segregation of the centrosome	Rn.9472	CX570323
Cfl2	Cofilin 2, muscle	Mm.276826	CX570425, CX570573
CGI-121	CGI-121 protein, PRPK (p53-related protein kinase)-binding protein	Hs.157401	CX570314
Chrdl1	Chordin-like 1	Mm.157697	CX569787
CKLFSF5	Chemokine-like factor superfamily 5 (LOC290214)	Hs.99272	CX569344

Table 2 (continued)

Gene symbol	Description	Unigene cluster	Genbank accession No.
Cks1	CDC28 protein kinase 1	Mm.3049	CX570033
Col1a2	Procollagen, type I, α 2	Rn.107239	CX569233
Col27a1	Procollagen, type XXVII, α 1	Rn.53800	CX569339
Col5a2	Procollagen, type V, α	Rn.2875	CX570287
Col6a3	Procollagen, type VI, α	Mm.7562	CX571091
Col8a1	Procollagen, type VIII, α 1	Mm.130388	CX570262
Cops2	COP9 (constitutive photomorphogenic) homolog, subunit 2 (<i>Arabidopsis thaliana</i>)	Rn.11556	CX571022
CORO2B	Coronin, actin-binding protein, 2B	Hs.24907	CX570038
Crk	Crk sarcoma virus CT10 oncogene homolog (avian)	Rn.96136	CX569340
Cxadr	Coxsackievirus and adenovirus receptor	Rn.92354	CX569477
Cxcl12	Chemokine (C-X-C motif) ligand 12	Rn.54439	CX570639
Cycs	Cytochrome c, somatic	Rn.2202	CX569492
Dcn	Decorin, small leucine-rich proteoglycan, binds to collagen	Rn.106103	CX569188
DIP13B	Dip3 β	Hs.506603	CX570163
Dst	Dystonin	Mm.336625	CX569627
E2f6	E2F transcription factor 6	Rn.79506	CX571006
Elmo3	Engulfment and cell motility 3, ced-12 homolog (<i>Caenorhabditis elegans</i>)	Hs.7953	CX569114
Emp3	Epithelial membrane protein 3	Rn.6782	CX571058
Facl6	Fatty acid coenzyme A ligase, long chain 6	Rn.33697	CX569632, CX570126
Fgf10	Fibroblast growth factor 10	Rn.44439	CX569707
Fgf12	Fibroblast growth factor 12	Rn.45965	CX569312, CX569884, CX570064, CX570483, CX570498
FRK	Src-related tyrosine kinase	Rn.10556	CX569559
Gas1	Growth-arrest-specific 1	Mm.22701	CX569715
Gas2	Growth-arrest-specific 2	Rn.124724	CX569331
Gdap1	Ganglioside-induced differentiation-associated protein 1	Rn.10426	CX570490, CX570961
Gsk3b	Glycogen synthase kinase 3 β	Rn.10426	CX569788
Has3	Hyaluronan synthase 3	Rn.91135	CX569718
HGF	Hepatocyte growth factor (hepapoietin A; scatter factor)	Rn.10468	CX569659
Hprt	Hypoxanthine guanine phosphoribosyl transferase	Rn.47	CX569790
HRPAP20	Hormone-regulated proliferation-associated 20-kDa protein	Rn.106694	CX569836
Igf2	Insulin-like growth factor 2	Rn.964	CX570027
Igfbp3	Insulin-like-growth-factor-binding protein 3	Rn.26369	CX570134
Igfbp6	Insulin-like-growth-factor-binding protein 6	Rn.6431	CX570622
Igsf4a	Immunoglobulin superfamily, member 4A	Mm.234832	CX569946, CX570882
Il15	Interleukin 15	Rn.2490	CX570692
Inexa	Internexin α , neuronal intermediate filament (NIF) protein, in CNS can be involved with NIF inclusion diseases (NIFID)	Rn.88941	CX569775
Lamc1	Laminin, γ 1	Rn.7145	CX570004, CX571039
Lats2	Large tumor suppressor	Mm.347899	CX570275, CX570295
Lfg	Lifeguard, neural membrane protein 35 (NMP35), plays role in Fas-mediated cell death, colocalizes with GluR2 (postsynaptic membrane)	Rn.21679	CX570940
Mab2111	Mab-21-like 1 (<i>Caenorhabditis elegans</i>)	Mm.252244	CX569364
Madd	MAP-kinase-activating death domain	Rn.90117	CX570750
Mapk4	Mitogen-activated protein kinase 4	Rn.92317	CX570433
MAPK8IP3	Mitogen-activated protein kinase 8	Hs.207763	CX569515

Table 2 (continued)

Gene symbol	Description	Unigene cluster	Genbank accession No.
Mina	Myc-induced nuclear antigen	Rn.77753	CX570081, CX570322
Mmp23	Matrix metalloproteinase 23	Rn.22562	CX570316
Mobp	Myelin-associated oligodendrocytic basic protein	Rn.91185	CX570716
Mrt1	PDZ protein Mrt1	Rn.7581	CX570962
Myliip	Myosin-regulatory light-chain-interacting protein	Mm.212855	CX569366, CX570883
MYR8	Myosin heavy-chain Myr 8	Hs.368522	CX569610
Nbn	Nibrin, heterozygous Nbn-knockout mice develop tumors, animal model of Nijmegen breakage syndrome (NBS1 mutation)	Rn.25214	CX570587
Negr1	Neuronal growth regulator 1	Rn.42884	CX569591
Neurodap1	Protein carrying the RING-H2 sequence motif	Rn.18446	CX570491
Nf1	Neurofibromatosis 1, Ras GTPase-activating protein (Ras-GAP) neurofibromin	Rn.10686	CX571140
Nfia	Nuclear factor I/A	Rn.10550	CX569764
NIPA2	Nonimprinted in Prader-Willi/Angelman syndrome 2, putative polypeptide with 9 transmembrane domains, suggesting receptor or transport function	Hs.370367	CX569221
Pcdha13	Protocadherin α 13	Rn.22308	CX569332
Pin1	Protein (peptidyl-prolyl cis/trans isomerase) NIMA-interacting 1	Mm.296604	CX571119
Pkd1	Polycystic kidney disease 1 homolog	Rn.64559	CX569928
Pkd2	Polycystin 2 (nonselective cation channel), polycystic kidney disease 2	Mm.6442	CX571081
Plp	Proteolipid protein, modulates viability and phenotype of neurons	Rn.4550	CX569916, CX570186, CX570335, CX570377, CX570575, CX570681, CX570850
POLA2	DNA polymerase α -subunit II	Rn.31773	CX569342
Pold3	Polymerase (DNA-directed), δ 3, accessory subunit	Mm.37562	CX570399, CX570453
Pou4f2	POU domain, class 4, transcription factor 2	Rn.92413	CX570611
Ppp1cb	Protein phosphatase 1, catalytic subunit, β -isoforms	Rn.39034	CX569837
Ppp2ca	Protein phosphatase 2a, catalytic subunit, α -isoforms	Rn.1271	CX569267, CX569924, CX570152
Ppp6c	Protein phosphatase 6, catalytic subunit	Rn.9573	CX570150
Prkar1a	Protein kinase, cAMP-dependent regulatory, type I, α	Rn.10990	CX570249
Prkar2b	Protein kinase, cAMP-dependent regulatory, type II, β	Rn.4075	CX569141
Prkrir	Protein kinase, interferon-inducible double-stranded RNA-dependent inhibitor, repressor of (P58 repressor)	Mm.4428	CX569327
Ptn	Pleiotrophin, highly expressed in neural stem (progenitor) cells of mouse ventral mesencephalon and promotes production of dopaminergic neurons	Rn.1653	CX569602
Ptpn16	Protein tyrosine phosphatase, nonreceptor type 16	Rn.98260	CX569577
Ptpnz1	Protein tyrosine phosphatase, receptor type, Z polypeptide 1	Rn.10088	CX569387
Qk	Quaking, required for formation of myelin	Mm.311104	CX570642
Raf1	Murine leukemia viral (<i>v-raf-1</i>) oncogene homolog 1 (3611-MSV)	Rn.33262	CX570533
Ran	RAN, member RAS oncogene family	Rn.107698	CX571034
Rb1	Retinoblastoma 1	Rn.55115	CX570185
Rbl2	Retinoblastoma-like 2	Rn.11020	CX569140
Rsn	Restin, trafficking micropinosomes to cytoskeleton	Rn.22069	CX570815
SASH1	SAM- and SH3-domain-containing 1	Hs.193133	CX569194
SCAP2	Src-family-associated phosphoprotein 2	Rn.17562	CX570193
Sema3d	Sema domain, immunoglobulin domain (Ig), short basic domain, secreted (semaphorin), 3D	Mm.89313	CX571016
Sesn3	Sestrin 3, gene-family-related to p53-activated gene 26	Mm.325126	CX570660

Table 2 (continued)

Gene symbol	Description	Unigene cluster	Genbank accession No.
Set	SET translocation	Rn.105791	CX570066
Sgpp1	Sphingosine-1-phosphate phosphatase 1	Rn.8423	CX569110, CX570138
Shb	Src-homology-2-domain-containing transforming protein B	Mm.251716	CX569708
Sirt1	Sirtuin 1 (silent mating type information regulation 2, homolog 1) (<i>Saccharomyces cerevisiae</i>)	Rn.42098	CX570156, CX571017
Skil	SKI-like, ski is a unique proto-oncoprotein	Mm.15406	CX570047, CX570409
Slipr	Scaffolding protein SLIPR	Rn.22579	CX570652
SMC1L1	SMC1 (structural maintenance of chromosomes 1)-like 1 (yeast)	Rn.11763	CX570710
Snn	Stannin, mediates selective toxicity of organotins	Rn.6147	CX569153
Spin	Spindlin, interacts with spindle apparatus	Mm.188432	CX569523
Spnb1	Spectrin β 1	Mm.32881	CX570971
TAFA2	TAFP proteins are distantly related to MIP-1 α , a member of the CC chemokine family	Hs.269745	CX570686
Tcf7	Transcription factor 7, T-cell specific	Mm.31630	CX569558
Thbs2	Thrombospondin 2	Mm.26688	CX570309
Tial1	Tial1 cytotoxic granule-associated RNA-binding-protein-like	Rn.7555	CX570516
Tiam1	T-cell lymphoma invasion and metastasis 1	Mm.124100	CX570615
Tm4sf9	Transmembrane 4 superfamily member 9	Rn.98240	CX569145
Tnfrsf11b	Tumor necrosis factor receptor superfamily, member 11b (osteoprotegerin)	Rn.9792	CX569855, CX570658
Traf3	Tnf-receptor-associated factor	Mm.27431	CX569503
TRIP12	Thyroid hormone receptor interactor 12	Hs.368985	CX569208
Ugt8	UDP-glucuronosyltransferase 8	Rn.9744	CX570079
Vegfa	Vascular endothelial growth factor A	Mm.282184	CX569472
VG5Q	Angiogenic factor VG5Q	Hs.213393	CX570960
Xpr1	Xenotropic and polytropic retrovirus receptor 1	Mm.266215	CX569667
Zfp330	Zinc finger protein 330	Mm.269248	CX570421
Zic2	Zic family member 2 (odd-paired homolog, <i>Drosophila</i>)	Mm.358647	CX569471

Genes with GO terms which can be categorized into the subheadings included are found in this table. The entire expression database for the Wackym-Soares normalized rat vestibular periphery cDNA library can be found in the Hearing and Balance Research Database (URL: <http://www.genexpression.info>).