

Table SI. Reverse transcription-quantitative PCR primer sequences.

Gene	Primer sequence (5'-3')
GNA12-FP	AAGTCCACGTTTCCTCAAGC
GNA12-RP	CCAAGGAATGCCAAGCTTATC
BST2-FP	TGATCTCATCAGTTCTGAGCGGGT
BST2-RP	AGACCTGCTCCAGAGGCCCTTCTC
THPO-FP	CCTGCTTCCTGACCCTTCTG
THPO-RP	CGGCAGTGTCTGAGAACCTT
ATG16L1-FP	GCATGACGTACCAAACAGGC
ATG16L1-RP	ACTCCCCACGTTTCTTGTGT
CAGE1-FP	AAGCCCAGAGAAAAAGCCAGA
CAGE1-RP	ATGTACAAGTTATATGCCAACATGG
ANKRD1-FP	AGTAGAGGAACTGGTCACTGG
ANKRD1-RP	TGTTTCTCGCTTTTCCACTGTT
TSPAN16-FP	AACGAGCCAGACGACTATTCT
TSPAN16-RP	GTGTGGCCCGTTGTCATTTC
SPIN3-FP	CCTCCGCATCCTTCAAGATTC
SPIN3-RP	GAGCCATCGTCTTTGGCGTAT

FP, forward primer; RP, reverse primer; GNA12, G protein subunit α 12; BST2, bone marrow stromal cell antigen 2; THPO, thrombopoietin; ATG16L1, autophagy-related 16-like 1; CAGE1, cancer antigen 1; ANKRD1, ankyrin repeat domain 1.

Table SII. Genes downregulated upon silencing of G protein subunit α 12.

Gene	Name	GenBank accession
<i>ABCA3</i>	ATP-binding cassette, sub-family A (ABC1), member 3	NM_001089
<i>ADORA2A</i>	Adenosine A2a receptor	NM_000675
<i>ALDH2</i>	Aldehyde dehydrogenase 2 family (mitochondrial)	NM_000690
<i>ANKRD1</i>	Ankyrin repeat domain 1 (cardiac muscle)	NM_014391
<i>ANO2</i>	Anoctamin 2	NM_001278597
<i>AOAH</i>	Acyloxyacyl hydrolase (neutrophil)	NM_001637
<i>APBA1</i>	Amyloid beta (A4) precursor protein-binding, family A, member 1	NM_001163
<i>APBB3</i>	Amyloid beta (A4) precursor protein-binding, family B, member 3	NM_133174
<i>ASCL1</i>	Achaete-scute family bhlh transcription factor 1	NM_004316
<i>ASS1</i>	Argininosuccinate synthase 1	NM_000050
<i>BAD</i>	BCL2-associated agonist of cell death	AK309150
<i>BARHL2</i>	Barh-like homeobox 2	NM_020063
<i>BMF</i>	Bcl2 modifying factor	NM_001003940
<i>BST2</i>	Bone marrow stromal cell antigen 2	NM_004335
<i>CABP2</i>	Calcium binding protein 2	NM_016366
<i>CAGE1</i>	Cancer antigen 1	NM_001170693
<i>CCDC114</i>	Coiled-coil domain containing 114	NM_144577
<i>CCDC170</i>	Coiled-coil domain containing 170	NM_025059
<i>CCDC181</i>	Coiled-coil domain containing 181	NM_021179
<i>CCDC81</i>	Coiled-coil domain containing 81	NM_021827
<i>CD163L1</i>	CD163 molecule-like 1	NM_174941
<i>CEACAM7</i>	Carcinoembryonic antigen-related cell adhesion molecule 7	NM_006890
<i>CHRM4</i>	Cholinergic receptor, muscarinic 4	NM_000741
<i>COCH</i>	Cochlin	NM_004086
<i>CPB1</i>	Carboxypeptidase B1 (tissue)	NM_001871
<i>CPXM2</i>	Carboxypeptidase X (M14 family), member 2	NM_198148
<i>CT45A1</i>	Cancer/testis antigen family 45, member A1	NM_001017417
<i>CTAG1A</i>	Cancer/testis antigen 1A	NM_139250
<i>CTLA4</i>	Cytotoxic T-lymphocyte-associated protein 4	NM_005214
<i>CTNNA2</i>	Catenin (cadherin-associated protein), alpha 2	NM_004389
<i>CYB5A</i>	Cytochrome b5 type A (microsomal)	NM_001914
<i>CYP51A1</i>	Cytochrome P450, family 51, subfamily A, polypeptide 1	NM_000786
<i>CYTH4</i>	Cytohesin 4	NM_013385
<i>DCDC2</i>	Doublecortin domain containing 2	NM_016356
<i>DEFB1</i>	Defensin, beta 1	NM_005218
<i>DNASE1L3</i>	Deoxyribonuclease I-like 3	NM_004944
<i>DSCAML1</i>	Down syndrome cell adhesion molecule like 1	NM_020693
<i>EGLN3</i>	Egl-9 family hypoxia-inducible factor 3	TCONS_00022702
<i>EPGN</i>	Epithelial mitogen	NM_001270989
<i>FAM170A</i>	Family with sequence similarity 170, member A	NM_182761
<i>FAM211B</i>	Family with sequence similarity 211, member B	NM_207644
<i>FAM217A</i>	Family with sequence similarity 217, member A	AK097426
<i>FCN2</i>	Ficolin (collagen/fibrinogen domain containing lectin) 2	NM_004108
<i>FERMT1</i>	Fermitin family member 1	
<i>FHAD1</i>	Forkhead-associated (FHA) phosphopeptide binding domain 1	NM_052929
<i>FHAD1</i>	Forkhead-associated (FHA) phosphopeptide binding domain 1	NM_052929
<i>FOXA1</i>	Forkhead box A1	
<i>FREM2</i>	FRAS1 related extracellular matrix protein 2	NM_207361
<i>GAGE7</i>	G antigen 7	NM_021123
<i>GHRH</i>	Growth hormone releasing hormone	NM_021081
<i>GPR17</i>	G protein-coupled receptor 17	BX538082
<i>GPR45</i>	G protein-coupled receptor 45	NM_007227
<i>GPT</i>	Glutamic-pyruvate transaminase (alanine aminotransferase)	NM_005309
<i>GSTT2B</i>	Glutathione S-transferase theta 2B (gene/pseudogene)	NM_001080843
<i>HES2</i>	Hes family bhlh transcription factor 2	NM_019089
<i>HES7</i>	Hes family bhlh transcription factor 7	NM_001165967
<i>HLA-DPB1</i>	Major histocompatibility complex, class II, DP beta 1	NM_002121
<i>HOXD10</i>	Homeobox D10	NM_002148
<i>HS3ST4</i>	Heparan sulfate (glucosamine) 3-O-sulfotransferase 4	NM_006040

Table SII. Continued.

Gene	Name	GenBank accession
<i>HTR1A</i>	5-hydroxytryptamine (serotonin) receptor 1A, G protein-coupled	NM_000524
<i>IFFO1</i>	Intermediate filament family orphan 1	NR_036467
<i>INSM2</i>	Insulinoma-associated 2	NM_032594
<i>IQCF3</i>	IQ motif containing F3	NM_001085479
<i>KCNH2</i>	Potassium voltage-gated channel, subfamily H (eag-related), member 2	NM_000238
<i>KCTD7</i>	Potassium channel tetramerization domain containing 7	NM_153033
<i>KDR</i>	Kinase insert domain receptor (a type III receptor tyrosine kinase)	NM_002253
<i>KIAA1804</i>	Mixed lineage kinase 4	AJ311797
<i>L3MBTL1</i>	L(3)mbt-like 1 (Drosophila)	NM_032107
<i>LAX1</i>	Lymphocyte transmembrane adaptor 1	NM_017773
<i>LGI2</i>	Leucine-rich repeat LGI family, member 2	NM_018176
<i>LONRF3</i>	LON peptidase N-terminal domain and ring finger 3	
<i>LOXHD1</i>	Lipoxygenase homology domains 1	AK127869
<i>MIEF2</i>	Mitochondrial elongation factor 2	
<i>MRAP</i>	Melanocortin 2 receptor accessory protein	NM_178817
<i>MXRA8</i>	Matrix-remodelling associated 8	NM_032348
<i>MYT1</i>	Myelin transcription factor 1	BC062313
<i>NKG7</i>	Natural killer cell group 7 sequence	NM_005601
<i>NKX2-8</i>	NK2 homeobox 8	NM_014360
<i>NRG3</i>	Neuregulin 3	NM_001010848
<i>OR52H1</i>	Olfactory receptor, family 52, subfamily H, member 1	NM_001005289
<i>OR6P1</i>	Olfactory receptor, family 6, subfamily P, member 1	NM_001160325
<i>OR7G1</i>	Olfactory receptor, family 7, subfamily G, member 1	NM_001005192
<i>OTOP1</i>	Otopetrin 1	NM_177998
<i>OVOL2</i>	Ovo-like zinc finger 2	NM_021220
<i>PAG1</i>	Phosphoprotein associated with glycosphingolipid microdomains 1	NM_018440
<i>PAGE1</i>	P antigen family, member 1 (prostate associated)	NM_003785
<i>PDLIM5</i>	PDZ and LIM domain 5	NM_001011515
<i>PDZD7</i>	PDZ domain containing 7	NM_001195263
<i>PLCD4</i>	Phospholipase C, delta 4	AY512961
<i>PLD5</i>	Phospholipase D family, member 5	NM_152666
<i>PLEKHG4B</i>	Pleckstrin homology domain containing, family G (with rhogef domain) member 4B	NM_052909
<i>PLEKHS1</i>	Pleckstrin homology domain containing, family S member 1	NM_001193434
<i>PLXDC2</i>	Plexin domain containing 2	NM_032812
<i>PON1</i>	Paraoxonase 1	NM_000446
<i>PPFIBP2</i>	PTPRF interacting protein, binding protein 2 (liprin beta 2)	NM_003621
<i>PROP1</i>	PROP paired-like homeobox 1	NM_006261
<i>PRUNE2</i>	Prune homolog 2 (Drosophila)	NM_015225
<i>PSG1</i>	Pregnancy specific beta-1-glycoprotein 1	NM_006905
<i>PSG2</i>	Pregnancy specific beta-1-glycoprotein 2	NM_031246
<i>PSG3</i>	Pregnancy specific beta-1-glycoprotein 3	NM_021016
<i>PSG5</i>	Pregnancy specific beta-1-glycoprotein 5	NM_001130014
<i>PSG6</i>	Pregnancy specific beta-1-glycoprotein 6	NM_002782
<i>PSG8</i>	Pregnancy specific beta-1-glycoprotein 8	NM_182707
<i>PSG9</i>	Pregnancy specific beta-1-glycoprotein 9	AK056754
<i>PSMB11</i>	Proteasome (prosome, macropain) subunit, beta type, 11	NM_001099780
<i>RAB44</i>	RAB44, member RAS oncogene family	NM_001257357
<i>RAG2</i>	Recombination activating gene 2	
<i>RHOU</i>	Ras homolog family member U	NM_021205
<i>RNF17</i>	Ring finger protein 17	NM_031277
<i>RNPC3</i>	RNA-binding region (RNPI, RRM) containing 3	XM_005271009
<i>SIPR1</i>	Sphingosine-1-phosphate receptor 1	NM_001400
<i>SERTAD4</i>	SERTA domain containing 4	NM_019605
<i>SHBG</i>	Sex hormone-binding globulin	NM_001040
<i>SIAH3</i>	Siah E3 ubiquitin protein ligase family member 3	NM_198849
<i>SLAIN1</i>	SLAIN motif family, member 1	NM_001040153
<i>SLC24A3</i>	Solute carrier family 24 (sodium/potassium/calcium exchanger), member 3	NM_020689

Table SII. Continued.

Gene	Name	GenBank accession
<i>SNAI3</i>	Snail family zinc finger 3	NM_178310
<i>SORL1</i>	Sortilin-related receptor, L(DLR class) A repeats containing	NM_003105
<i>SPATA31D3</i>	SPATA31 subfamily D, member 3	NM_207416
<i>SPINT2</i>	Serine peptidase inhibitor, Kunitz type, 2	NM_021102
<i>STAG3</i>	Stromal antigen 3	NM_001282717
<i>STK32A</i>	Serine/threonine kinase 32A	NM_145001
<i>SYNE1</i>	Spectrin repeat containing, nuclear envelope 1	NM_033071
<i>TEX22</i>	Testis expressed 22	NM_001195082
<i>TIPARP</i>	TCDD-inducible poly(ADP-ribose) polymerase	NM_001184717
<i>TMEM262</i>	Transmembrane protein 262	NM_001282448
<i>TMEM98</i>	Transmembrane protein 98	NM_015544
<i>TP63</i>	Tumor protein p63	NM_003722
<i>TRIM10</i>	Tripartite motif containing 10	NM_052828
<i>UCP2</i>	Uncoupling protein 2 (mitochondrial, proton carrier)	NM_003355
<i>UGT2B11</i>	UDP glucuronosyltransferase 2 family, polypeptide B11	NM_001073
<i>USH1C</i>	Usher syndrome 1C (autosomal recessive, severe)	NM_005709
<i>VCX2</i>	Variable charge, X-linked 2	NM_016378
<i>VGLL2</i>	Vestigial like 2 (Drosophila)	NM_182645
<i>VIP</i>	Vasoactive intestinal peptide	NM_003381
<i>VSTM1</i>	V-set and transmembrane domain containing 1	NM_198481
<i>WDFY4</i>	WDFY family member 4	NM_020945
<i>WDR20</i>	WD repeat domain 20	NM_001242415
<i>WISP2</i>	WNT1 inducible signaling pathway protein 2	NM_003881
<i>XRRA1</i>	X-ray radiation resistance associated 1	NM_182969
<i>ZFHX2</i>	Zinc finger homeobox 2	NM_033400
<i>ZFYVE28</i>	Zinc finger, FYVE domain containing 28	NM_020972
<i>ZNF683</i>	Zinc finger protein 683	NM_001114759
<i>ZNRF2</i>	Zinc and ring finger 2	TCONS_00012988
<i>ZSCAN5D</i>	Zinc finger and SCAN domain containing 5D	XM_003403711

Table SIII. Genes upregulated upon silencing of G protein subunit α 12.

Gene	Name	GenBank Accession
<i>ACOX2</i>	Acyl-coa oxidase 2, branched chain	NM_003500
<i>ADAMTS3</i>	ADAM metalloproteinase with thrombospondin type 1 motif, 3	NM_014243
<i>AFAP1L1</i>	actin filament associated protein 1-like 1	NM_152406
<i>AFP</i>	Alpha-fetoprotein	NM_001134
<i>AKR1C3</i>	Aldo-keto reductase family 1, member C3	NM_003739
<i>ALDH3B2</i>	Aldehyde dehydrogenase 3 family, member B2	NM_000695
<i>ALPK1</i>	Alpha kinase 1	NM_025144
<i>AMZ2</i>	Archaealysin family metalloproteinase 2	NM_016627
<i>ANAPC1</i>	Anaphase promoting complex subunit 1	NM_022662
<i>ANKRD11</i>	Ankyrin repeat domain 11	AK125549
<i>APOL6</i>	Apolipoprotein L, 6	NM_030641
<i>ARHGAP29</i>	Rho gtpase activating protein 29	NM_004815
<i>ARHGAP9</i>	Rho gtpase activating protein 9	NM_032496
<i>ARL4C</i>	ADP-ribosylation factor-like 4C	NM_001282431
<i>ARNT2</i>	Aryl-hydrocarbon receptor nuclear translocator 2	NM_014862
<i>ATG16L1</i>	Autophagy related 16-like 1 (S. Cerevisiae)	NM_030803
<i>ATP1B2</i>	ATPase, Na ⁺ /K ⁺ transporting, beta 2 polypeptide	NM_001678
<i>ATXN1</i>	Ataxin 1	NM_000332
<i>BTBD16</i>	BTB (POZ) domain containing 16	NM_144587
<i>C1R</i>	Complement component 1, r subcomponent	NM_001733
<i>CCDC34</i>	Coiled-coil domain containing 34	NM_080654
<i>CCND1</i>	Cyclin D1	NM_053056
<i>CD33</i>	CD33 molecule	NM_001772
<i>CDH6</i>	Cadherin 6, type 2, K-cadherin	NM_004932
<i>CDH16</i>	Cadherin 16, KSP-cadherin	NM_004062
<i>CHRD12</i>	Chordin-like 2	NM_015424
<i>CHRNA9</i>	Cholinergic receptor, nicotinic, alpha 9 (neuronal)	NM_017581
<i>CNNM2</i>	Cyclin M2	NM_017649
<i>CNRIP1</i>	Cannabinoid receptor interacting protein 1	NM_015463
<i>COL1A1</i>	Collagen, type I, alpha 1	NM_000088
<i>COL7A1</i>	Collagen, type VII, alpha 1	NM_000094
<i>COL8A1</i>	Collagen, type VIII, alpha 1	NM_001850
<i>CPE</i>	Carboxypeptidase E	NM_001873
<i>CTGF</i>	Connective tissue growth factor	NM_001901
<i>CXCR3</i>	Chemokine (C-X-C motif) receptor 3	NM_001504
<i>CYP1B1</i>	Cytochrome P450, family 1, subfamily B, polypeptide 1	NM_000104
<i>DBF4B</i>	DBF4 homolog B (S. Cerevisiae)	AK023149
<i>DDX60L</i>	DEAD (Asp-Glu-Ala-Asp) box polypeptide 60-like	NM_001012967
<i>DGUOK</i>	Deoxyguanosine kinase	NM_080916
<i>DMBT1</i>	Deleted in malignant brain tumors 1	NM_007329
<i>DNAJB4</i>	DnaJ (Hsp40) homolog, subfamily B, member 4	NM_007034
<i>DPP4</i>	Dipeptidyl-peptidase 4	NM_001935
<i>DSC3</i>	Desmocollin 3	NM_001941
<i>DISC1</i>	Disrupted in schizophrenia 1	NM_018662
<i>DSEL</i>	Dermatan sulfate epimerase-like	NM_032160
<i>EPCAM</i>	Epithelial cell adhesion molecule	NM_002354
<i>EIF3F</i>	Eukaryotic translation initiation factor 3, subunit F	NM_003754
<i>EIF3L</i>	Eukaryotic translation initiation factor 3, subunit L	NM_016091
<i>ELP6</i>	Elongator acetyltransferase complex subunit 6	NM_001031703
<i>EMP1</i>	Epithelial membrane protein 1	NM_001423
<i>ERG</i>	V-ets avian erythroblastosis virus E26 oncogene homolog	NM_004449
<i>ESPNL</i>	Espin-like	NM_194312
<i>ETV1</i>	Ets variant 1	NM_004956
<i>FN1</i>	Fibronectin 1	NM_054034
<i>F2R</i>	Coagulation factor II (thrombin) receptor	NM_001992
<i>FAM149A</i>	Family with sequence similarity 149, member A	NM_015398
<i>FAM196A</i>	Family with sequence similarity 196, member A	NM_001039762
<i>FBXL19</i>	F-box and leucine-rich repeat protein 19	NM_001099784
<i>FLNA</i>	Filamin A, alpha	NM_001110556

Table SIII. Continued.

Gene	Name	GenBank Accession
<i>FRMD3</i>	FERM domain containing 3	NM_001244959
<i>GALNT14</i>	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 14	NM_024572
<i>GBP3</i>	grancalcin, EF-hand calcium binding protein	NM_012198
<i>GCA</i>	guanylate binding protein 3	NM_018284
<i>GCNT2</i>	Glucosaminyl (N-acetyl) transferase 2, I-branching enzyme	NM_001491
<i>GDF11</i>	Growth differentiation factor 11	NM_005811
<i>GEM</i>	GTP binding protein overexpressed in skeletal muscle	NM_005261
<i>GLYR1</i>	Glyoxylate reductase 1 homolog (Arabidopsis)	NM_032569
<i>GPM6A</i>	Glycoprotein M6A	NM_201591
<i>GPR133</i>	G protein-coupled receptor 133	NM_198827
<i>GPR35</i>	G protein-coupled receptor 35	NM_001195381
<i>GPR68</i>	G protein-coupled receptor 68	NM_003485
<i>GRAMD3</i>	GRAM domain containing 3	NM_023927
<i>HGSNAT</i>	Heparan-alpha-glucosaminide N-acetyltransferase	NM_152419
<i>HHIPL2</i>	HHIP-like 2	NM_024746
<i>HIST1H3E</i>	Histone cluster 1, h3e	NM_003532
<i>HMGA2</i>	High mobility group AT-hook 2	NM_003483
<i>HRCT1</i>	Histidine rich carboxyl terminus 1	NM_001039792
<i>IF1H1</i>	interferon induced with helicase C domain 1	NM_022168
<i>IGFBP7</i>	insulin-like growth factor binding protein 7	NM_001553
<i>IGSF1</i>	Immunoglobulin superfamily, member 1	NM_205833
<i>IKZF2</i>	IKAROS family zinc finger 2	NM_001079526
<i>IL6</i>	Interleukin 6 (interferon, beta 2)	NM_000600
<i>IL8</i>	interleukin 8	NM_000584
<i>IL11</i>	Interleukin 11	NM_000641
<i>IL18R1</i>	Interleukin 18 receptor 1	NM_003855
<i>IRGM</i>	Immunity-related gtpase family, M	NM_001145805
<i>ITPR3</i>	Inositol 1,4,5-trisphosphate receptor, type 3	NM_002224
<i>JAM2</i>	Junctional adhesion molecule 2	NM_021219
<i>JMJD6</i>	Jumonji domain containing 6	NM_015167
<i>KIAA0408</i>	Kiaa0408	NM_014702
<i>KIAA1462</i>	Kiaa1462	NM_020848
<i>KLF8</i>	Kruppel-like factor 8	NM_001159296
<i>KLHDC4</i>	Kelch domain containing 4	NM_001184854
<i>LIN7A</i>	Lin-7 homolog A (C. Elegans)	NM_004664
<i>LIN7B</i>	Lin-7 homolog B (C. Elegans)	NM_022165
<i>LINGO1</i>	Leucine rich repeat and Ig domain containing 1	NM_032808
<i>LPAR1</i>	lysophosphatidic acid receptor 1	NM_057159
<i>LRRC9</i>	Leucine rich repeat containing 9	NR_075071
<i>LRRIQ1</i>	leucine-rich repeats and IQ motif containing 1	NM_001079910
<i>LUZP4</i>	Leucine zipper protein 4	NM_016383
<i>MARCKS</i>	Myristoylated alanine-rich protein kinase C substrate	NM_002356
<i>MATN3</i>	Matrilin 3	NM_002381
<i>MED29</i>	Mediator complex subunit 29	NM_017592
<i>MEF2C</i>	Myocyte enhancer factor 2C	NM_002397
<i>METAP2</i>	Methionyl aminopeptidase 2	NM_006838
<i>MOXD1</i>	monooxygenase, DBH-like 1	NM_015529
<i>MSRA</i>	Methionine sulfoxide reductase A	NM_012331
<i>MUC20</i>	Mucin 20, cell surface associated	NM_001098516
<i>MX1</i>	Myxovirus (influenza virus) resistance 1, interferon-inducible protein p78	NM_002462
<i>NAV3</i>	Neuron navigator 3	NM_014903
<i>NDUFS7</i>	NADH dehydrogenase (ubiquinone) Fe-S protein 7	NM_024407
<i>NEUROG2</i>	Neurogenin 2	NM_024019
<i>NID1</i>	Nidogen 1	NM_002508
<i>NIF3L1</i>	NIF3 NGG1 interacting factor 3-like 1 (S. Cerevisiae)	NM_001142356
<i>NLGN1</i>	Neuroigin 1	NM_014932
<i>NLGN4X</i>	Neuroigin 4, X-linked	NM_001282145

Table SIII. Continued.

Gene	Name	GenBank Accession
<i>NPEPL1</i>	Aminopeptidase-like 1	NM_024663
<i>NP1PB5</i>	Nuclear pore complex interacting protein family, member B5	XM_005255011
<i>NPR3</i>	Natriuretic peptide receptor C/guanylate cyclase C	NM_000908
<i>NR4A2</i>	Nuclear receptor subfamily 4, group A, member 2	NM_006186
<i>NXPH2</i>	Neurexophilin 2	NM_007226
<i>PAX6</i>	Paired box 6	NM_000280
<i>PCDH11X</i>	Protocadherin 11 X-linked	NM_014522
<i>PCDHB10</i>	Protocadherin beta 10	NM_018930
<i>PCDHB15</i>	Protocadherin beta 15	NM_018935
<i>PDGFRB</i>	Platelet-derived growth factor receptor, beta polypeptide	NM_002609
<i>PDLIM3</i>	PDZ and LIM domain 3 transcript variant 1	NM_014476
<i>PGS1</i>	Phosphatidylglycerophosphate synthase 1	NM_024419
<i>PLA2G4A</i>	Phospholipase A2, group IVA (cytosolic, calcium-dependent)	NM_024420
<i>PLEKHA4</i>	Pleckstrin homology domain containing, family A (phosphoinositide binding specific) member 4	NM_020904
<i>PNMA2</i>	Paraneoplastic Ma antigen 2	NM_007257
<i>PRDM8</i>	PR domain containing 8, transcript variant 1	NM_020226
<i>PRKACB</i>	Protein kinase, camp-dependent, catalytic, beta	NM_207578
<i>PRRC2B</i>	Proline-rich coiled-coil 2B	NM_013318
<i>PSMB11</i>	Proteasome (prosome, macropain) subunit, beta type, 11	NM_001099780
<i>PSMC1</i>	Proteasome (prosome, macropain) 26S subunit, ATPase, 1	NM_002802
<i>PTCD3</i>	Pentatricopeptide repeat domain 3	
<i>RASD2</i>	RASD family, member 2	NM_014310
<i>RASSF2</i>	Ras association (ralgds/AF-6) domain family member 2	NM_014737
<i>RBM11</i>	RNA binding motif protein 11	NM_144770
<i>RBM47</i>	RNA binding motif protein 47	NM_019027
<i>RGS11</i>	Regulator of G-protein signaling 11	NM_003834
<i>RNF6</i>	Ring finger protein (C3H2C3 type) 6	NM_005977
<i>RSBN1L</i>	Round spermatid basic protein 1-like	BC037783
<i>RTN1</i>	Reticulon 1	NM_021136
<i>SDHAF2</i>	Succinate dehydrogenase complex assembly factor 2	NM_017841
<i>SEL1L3</i>	sel-1 suppressor of lin-12-like 3	NM_015187
<i>SH3BP2</i>	SH3-domain binding protein 2	NM_001145855
<i>SHISA2</i>	Shisa family member 2	NM_001007538
<i>SHISA3</i>	Shisa family member 3	NM_001080505
<i>SLC4A4</i>	solute carrier family 4 (sodium bicarbonate cotransporter), member 4	NM_003759
<i>SLC5A11</i>	Solute carrier family 5 (sodium/inositol cotransporter), member 11	NM_052944
<i>SLC6A13</i>	Solute carrier family 6 (neurotransmitter transporter), member 13	NM_001243392
<i>SLC9A9</i>	Solute carrier family 9, subfamily A (NHE9, cation proton antiporter 9), member 9	NM_173653
<i>SLC16A2</i>	solute carrier family 16, member 2 (thyroid hormone transporter)	NM_006517
<i>SLC47A1</i>	Solute carrier family 47 (multidrug and toxin extrusion), member 1	NM_018242
<i>SP140L</i>	SP140 nuclear body protein-like	NM_138402
<i>SPANXA1</i>	Sperm protein associated with the nucleus, X-linked, family member A1	NM_013453
<i>SPATA17</i>	Spermatogenesis associated 17	NM_138796
<i>SPEG</i>	SPEG complex locus	NM_005876
<i>SPIN3</i>	Spindlin family, member 3	NM_001010862
<i>SULF2</i>	Sulfatase 2, transcript variant 1	NM_018837
<i>SUPT20H</i>	Suppressor of Ty 20 homolog (S. Cerevisiae)	NM_017569
<i>TDO2</i>	Tryptophan 2,3-dioxygenase	NM_005651
<i>TECPR1</i>	Tectonin beta-propeller repeat containing 1	NM_015395
<i>TGM2</i>	Transglutaminase 2	NM_004613
<i>THPO</i>	Thrombopoietin	NM_000460
<i>TMEM135</i>	Transmembrane protein 135	NM_022918
<i>TMEM200A</i>	Transmembrane protein 200A	NM_052913

Table SIII. Continued.

Gene	Name	GenBank Accession
<i>TMEM223</i>	Transmembrane protein 223	NM_001080501
<i>TMEM254</i>	Transmembrane protein 254	NM_025125
<i>TMPRSS11D</i>	Transmembrane protease, serine 11D	NM_004262
<i>TNC</i>	Tenascin C	NM_002160
<i>TNFRSF11B</i>	Tumor necrosis factor receptor superfamily, member 11b	NM_002546
<i>TOMM20L</i>	Translocase of outer mitochondrial membrane 20 homolog (yeast)-like	NM_207377
<i>TRAPPC9</i>	Trafficking protein particle complex 9	NM_031466
<i>TSPAN16</i>	Tetraspanin 16	NM_012466
<i>TXNIP</i>	Thioredoxin interacting protein	NM_006472
<i>UBE2E1</i>	Ubiquitin-conjugating enzyme E2E 1	NM_003341
<i>UCN2</i>	Urocortin 2	NM_033199
<i>VAX1</i>	Ventral anterior homeobox 1	NM_001112704
<i>VGLL3</i>	Vestigial like 3	NM_016206
<i>VMO1</i>	Vitelline membrane outer layer 1 homolog (chicken)	NM_182566
<i>ZNF528</i>	Zinc finger protein 528	NM_032423
<i>ZNF620</i>	Zinc finger protein 620	NM_175888
<i>ZNF804A</i>	Zinc finger protein 804A	NM_194250

Table SIV. Differentially expressed long non-coding RNAs.

A, Non-coding RNA genes downregulated upon silencing of *GNAI2*

Gene	Name	GenBank Accession
<i>ABCA17P</i>	ATP-binding cassette, sub-family A (ABC1), member 17, pseudogene	NR_003574
<i>BSN-AS2</i>	Homo sapiens BSN antisense RNA 2	NR_038866
<i>CDRT15P2</i>	CMT1A duplicated region transcript 15 pseudogene 2	NR_033865
<i>CT64</i>	Cancer/testis antigen 64 non- coding RNA	TCONS_12_00020245
<i>EGFLAM-AS2</i>	EGFLAM antisense RNA 2, long non-coding RNA	NR_102749
<i>FLJ16341</i>	Long non-coding RNA	NR_033980
<i>FLJ42969</i>	Uncharacterized LOC441374, long non-coding RNA	NR_033962
<i>FLJ45079</i>	Uncharacterized long non-coding RNA	NR_028337
<i>FLJ42969</i>	Uncharacterized LOC441374, long non-coding RNA	NR_033962
<i>IFFO1</i>	Non-coding Intermediate filament family orphan 1, variant 7, RNA	NR_036467
<i>KIAA1875</i>	Long non-coding RNA	NR_024207
<i>LINC00028</i>	Long intergenic non-protein coding RNA 28	NR_024358
<i>LINC00298</i>	Homo sapiens long intergenic non-protein coding RNA 298	NR_015405
<i>LINC00578</i>	Long intergenic non-protein coding RNA 578	NR_047568
<i>LINC00911</i>	Long intergenic non-protein coding RNA 911	NR_102737
<i>LINC00922</i>	Long intergenic non-protein coding RNA 922	NR_027755
<i>LOC201651</i>	Arylacetamide deacetylase (esterase) pseudogene non-coding RNA	NR_026915
<i>LOC390705</i>	protein phosphatase 2, regulatory subunit B'', beta pseudogene	NR_033866
<i>LOC100128787</i>	Uncharacterized long non-coding RNA	NR_038914
<i>LOC100132735</i>	Uncharacterized long non-coding RNA	NR_038399
<i>LOC100133612</i>	Uncharacterized long non-coding RNA	NR_024455
<i>LOC100192426</i>	Uncharacterized long non-coding RNA	NR_024419
<i>LOC100507412</i>	Uncharacterized long non-coding RNA	NR_038958
<i>LOC151484</i>	Uncharacterized long non-coding RNA	NR_038238
<i>LOC202181</i>	SUMO-interacting motifs containing 1 pseudogene, non-coding RNA	NR_026921
<i>MIR155HG</i>	Long non-coding RNA []	NR_001458
<i>SERTAD4-AS1</i>	SERTAD4 antisense RNA 1, long non-coding RNA	NR_024337
<i>SETD5-AS1</i>	SETD5 antisense RNA 1, long non-coding RNA	BC132680
<i>PAXIP1-AS2</i>	PAXIP1 antisense RNA 2, non-coding lncRNA	BC050402
<i>TPTEP1</i>	Transmembrane phosphatase with tensin homology pseudogene 1	TCONS_12_00018137
<i>UCA1</i>	Urothelial cancer associated 1 long non-coding RNA	NR_015379
<i>UNQ6494</i>	Uncharacterized long non-coding RNA	NR_024280

B, Non-coding RNA genes upregulated upon silencing of *GNAI2*

Gene	Name	GenBank Accession
<i>BACE1-AS</i>	Long non-coding BACE1 antisense RNA	NR_037803
<i>BOK-AS1</i>	Long non-coding BOK antisense RNA 1	NR_033346
<i>EHHADH-AS1</i>	Long non-coding EHHADH antisense RNA 1	TCONS_00005678
<i>FBXL19-AS1</i>	Long non-coding FBXL19 antisense RNA 1	NR_024348
<i>LINC00408</i>	Long intergenic non-protein coding RNA	NR_104118
<i>LINC00608</i>	Long intergenic non-protein coding RNA 608	NR_015390
<i>LINC00676</i>	long intergenic non-protein coding RNA 676	NR_103846
<i>LINC00853</i>	Long intergenic non-protein coding RNA 853	NR_047498
<i>LINC00882</i>	Long intergenic non-protein coding RNA 882	TCONS_00005803
<i>LINC01116</i>	long intergenic non-protein coding RNA 1116	NR_040001
<i>LINC01125</i>	long intergenic non-protein coding RNA 1125	NR_038386
<i>LOC339803</i>	Uncharacterized long non-coding RNA	NR_036496
<i>LOC340073</i>	Uncharacterized long non-coding RNA	NR_037895
<i>LOC389906</i>	Long non-coding zinc finger protein 839 pseudogene RNA	NR_034031
<i>LOC441204</i>	Uncharacterized long non-coding RNA	NR_015364
<i>LOC100506022</i>	Uncharacterized long non-coding RNA	NR_104622
<i>LOC100630918</i>	Uncharacterized long non-coding RNA	NR_038942
<i>LRRC9</i>	Long non-coding RNA	NR_075071
<i>PPP1R2P3</i>	Long non-coding protein phosphatase 1, regulatory subunit 2 pseudogene 3	NR_038443
<i>PRSS30P</i>	Long non-coding Protease, serine, 30, pseudogene	NR_026864

Table SIV. Continued.

B, Non-coding RNA genes upregulated upon silencing of *GNA12*

Gene	Name	GenBank Accession
<i>MCF2L-AS</i>	Long non-coding MCF2L antisense RNA	NR_034002
<i>RXRG</i>	Long non-coding Retinoid X receptor, gamma transcript variant 2 RNA	NR_033824
<i>SPIN3-2</i>	Long non-coding SPIN3 transcript variant 2	NR_027139
<i>TAPT1-AS</i>	Long non-coding TAPT1 antisense RNA 1	BC132927
<i>TUG1</i>	Taurine up-regulated 1 long intergenic non-protein coding RNA	NR_002323

GNA12, G protein subunit α 12.