

Supplementary Table 6. Processes associated to the 2037 SCL candidate target genes

ID	Symbol	Entrez Gene Name	Process
NM_178114	AMIGO2	adhesion molecule with Ig-like domain 2	adhesion
NM_033474	ARVCF	armadillo repeat gene deletes in velocardiofacial syndrome	adhesion
NM_027060	BTBD9	BTB (POZ) domain containing 9	adhesion
NM_001039149	CD226	CD226 molecule	adhesion
NM_010581	CD47	CD47 molecule	adhesion
NM_023370	CDH23	cadherin-like 23	adhesion
NM_207298	CERCAM	cerebral endothelial cell adhesion molecule	adhesion
NM_021719	CLDN15	claudin 15	adhesion
NM_009902	CLDN3	claudin 3	adhesion
NM_008779	CNTN3	contactin 3 (plasmacytoma associated)	adhesion
NM_015734	COL5A1	collagen, type V, alpha 1	adhesion
NM_007803	CTTN	cortactin	adhesion
NM_009142	CX3CL1	chemokine (C-X3-C motif) ligand 1	adhesion
NM_031174	DSCAM	Down syndrome cell adhesion molecule	adhesion
NM_145158	EMILIN2	elastin microfibril interfacer 2	adhesion
NM_001081286	FAT1	FAT tumor suppressor homolog 1 (Drosophila)	adhesion
NM_001080814	FAT3	FAT tumor suppressor homolog 3 (Drosophila)	adhesion
NM_153795	FERMT3	fermitin family homolog 3 (Drosophila)	adhesion
NM_010494	ICAM2	intercellular adhesion molecule 2	adhesion
NM_023892	ICAM4 (includes E	intercellular adhesion molecule 4 (Landsteiner-Wiener blood group	adhesion
NM_001001979	MEGF10	multiple EGF-like-domains 10	adhesion
NM_172522	MEGF11	multiple EGF-like-domains 11	adhesion
NM_010739	MUC13	mucin 13, cell surface associated	adhesion
NM_013610	NINJ1	ninjurin 1	adhesion
NM_016718	NINJ2	ninjurin 2	adhesion
NM_172932	NLGN3	neuroligin 3	adhesion
NM_153424	NPHP4	nephronophthisis 4	adhesion
NM_009145	NPTN	neuroplastin	adhesion
NM_008751	NXPH1	neurexophilin 1	adhesion
NM_133167	PARVB	parvin, beta	adhesion
NM_019645	PKP1	plakophilin 1 (ectodermal dysplasia/skin fragility syndrome)	adhesion
NM_001033319	PPFIA1	protein tyrosine phosphatase, receptor type, f polypeptide (PTPRF	adhesion
NM_153790	SCARF2	scavenger receptor class F, member 2	adhesion
NM_013660	SEMA4D	sema domain, immunoglobulin domain (Ig), transmembrane doma	adhesion
NM_144539	SLAMF7	SLAM family member 7	adhesion

NM_177839	TNN	tenascin N	adhesion
NM_172955	VCAN	versican	adhesion
NM_025659	ABI3	ABI family, member 3	adhesion
NM_007393	ACTB	actin, beta	adhesion
NM_009609	ACTG1	actin, gamma 1	adhesion
NM_001111059	CD34	CD34 molecule	adhesion
NM_001039150	CD44	CD44 molecule (Indian blood group)	adhesion
NM_011925	CD97	CD97 molecule	adhesion
NM_023878	CLDN10	claudin 10	adhesion
NM_020504	CLDN13	claudin 13	adhesion
NM_019948	CLEC4E	C-type lectin domain family 4, member E	adhesion
NM_009929	COL18A1	collagen, type XVIII, alpha 1	adhesion
NM_007733	COL19A1	collagen, type XIX, alpha 1	adhesion
NM_007734	COL4A3	collagen, type IV, alpha 3 (Goodpasture antigen)	adhesion
NM_013848	ERMAP	erythroblast membrane-associated protein (Scianna blood group)	adhesion
NM_010326	GP1BA	glycoprotein Ib (platelet), alpha polypeptide	adhesion
NM_008148	GP5	glycoprotein V (platelet)	adhesion
NM_018762	GP9	glycoprotein IX (platelet)	adhesion
NM_010562	ILK	integrin-linked kinase	adhesion
NM_010575	ITGA2B (includes B	integrin, alpha 2b (platelet glycoprotein IIb of IIb/IIIa complex, antigen)	adhesion
NM_010576	ITGA4	integrin, alpha 4 (antigen CD49D, alpha 4 subunit of VLA-4 receptor)	adhesion
NM_008400	ITGAL	integrin, alpha L (antigen CD11A (p180), lymphocyte function-associated antigen 3)	adhesion
NM_008404	ITGB2	integrin, beta 2 (complement component 3 receptor 3 and 4 subunit)	adhesion
NM_008405	ITGB2L	integrin beta 2-like	adhesion
NM_013566	ITGB7	integrin, beta 7	adhesion
NM_008410	ITM2B	integral membrane protein 2B	adhesion
NM_001081171	LAMA5	laminin, alpha 5	adhesion
NM_008495	LGALS1	lectin, galactoside-binding, soluble, 1	adhesion
NM_011150	LGALS3BP	lectin, galactoside-binding, soluble, 3 binding protein	adhesion
NM_053247	LYVE1	lymphatic vessel endothelial hyaluronan receptor 1	adhesion
NM_021500	MAEA	macrophage erythroblast attacher	adhesion
NM_001081160	MDGA1	MAM domain containing glycosylphosphatidylinositol anchor 1	adhesion
NM_008626	MRC2	mannose receptor, C type 2	adhesion
NM_008630	MT1E	metallothionein 1E	adhesion
NM_001077406	NRP2	neuropilin 2	adhesion
NM_172544	NRXN3	neurexin 3	adhesion
NM_019932	PF4	platelet factor 4	adhesion

NM_029094	PIK3CB	phosphoinositide-3-kinase, catalytic, beta polypeptide	adhesion
NM_008948	PSMC3	proteasome (prosome, macropain) 26S subunit, ATPase, 3	adhesion
NM_011261	RELN	reelin	adhesion
NM_009073	ROM1	retinal outer segment membrane protein 1	adhesion
NM_016741	SCARB1	scavenger receptor class B, member 1	adhesion
NM_013659	SEMA4B	sema domain, immunoglobulin domain (Ig), transmembrane domain	adhesion
NM_009262	SPOCK1	sparc/osteonectin, cwcv and kazal-like domains proteoglycan (test	adhesion
NM_052994	SPOCK2	sparc/osteonectin, cwcv and kazal-like domains proteoglycan (test	adhesion
NM_001001183	TMEM204	transmembrane protein 204	adhesion
NM_001083587	TNS3	tensin 3	adhesion
NM_133234	BBC3	BCL2 binding component 3	apoptosis
NM_153516	BCL2L13	BCL2-like 13 (apoptosis facilitator)	apoptosis
NM_007544	BID	BH3 interacting domain death agonist	apoptosis
NM_007464	BIRC3	baculoviral IAP repeat-containing 3	apoptosis
NM_009761	BNIP3L	BCL2/adenovirus E1B 19kDa interacting protein 3-like	apoptosis
NM_009808	CASP12 (includes	caspase 12	apoptosis
NM_001128151	CECR2	cat eye syndrome chromosome region, candidate 2	apoptosis
NM_009950	CRADD	CASP2 and RIPK1 domain containing adaptor with death domain	apoptosis
NM_010015	DAD1	defender against cell death 1	apoptosis
NM_134062	DAPK1	death-associated protein kinase 1	apoptosis
NM_010019	DAPK2 (includes E	death-associated protein kinase 2	apoptosis
NM_007916	DDX19A	DEAD (Asp-Glu-Ala-As) box polypeptide 19A	apoptosis
NM_010100	EDAR	ectodysplasin A receptor	apoptosis
NM_172611	GRAMD4	GRAM domain containing 4	apoptosis
NM_021347	GSDMA	gasdermin A	apoptosis
NM_010745	LY86	lymphocyte antigen 86	apoptosis
NM_008562	MCL1	myeloid cell leukemia sequence 1 (BCL2-related)	apoptosis
NM_008243	MST1	macrophage stimulating 1 (hepatocyte growth factor-like)	apoptosis
NM_011586	MYO18A (includes	myosin XVIIIa	apoptosis
NM_023312	NDUFA13	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 13	apoptosis
NM_027438	PNMA1	paraneoplastic antigen MA1	apoptosis
NM_026097	RFFL	ring finger and FYVE-like domain containing 1	apoptosis
NM_019464	SH3GLB1	SH3-domain GRB2-like endophilin B1	apoptosis
NM_013929	SIVA1	SIVA1, apoptosis-inducing factor	apoptosis
NM_009652	AKT1	v-akt murine thymoma viral oncogene homolog 1	apoptosis
NM_010241	AKTIP	AKT interacting protein	apoptosis
NM_009754	BCL2L11	BCL2-like 11 (apoptosis facilitator)	apoptosis

NM_001012273	BIRC5	baculoviral IAP repeat-containing 5	apoptosis
NM_134059	DDX41	DEAD (Asp-Glu-Ala-Asp) box polypeptide 41	apoptosis
NM_023913	ERN1 (includes ERG1)	endoplasmic reticulum to nucleus signaling 1	apoptosis
NM_028680	IFT57	intraflagellar transport 57 homolog (Chlamydomonas)	apoptosis
NM_010844	MUC5AC	mucin 5AC, oligomeric mucus/gel-forming	apoptosis
NM_009344	PHLDA1	pleckstrin homology-like domain, family A, member 1	apoptosis
NM_008842	PIM1	pim-1 oncogene	apoptosis
NM_011625	PPP1R13B	protein phosphatase 1, regulatory (inhibitor) subunit 13B	apoptosis
NM_008654	PPP1R15A (includes PPP1R15B)	protein phosphatase 1, regulatory (inhibitor) subunit 15A	apoptosis
NM_017374	PPP2CB	protein phosphatase 2 (formerly 2A), catalytic subunit, beta isoform	apoptosis
NM_153405	RBM45	RNA binding motif protein 45	apoptosis
NM_177073	RELT	RELT tumor necrosis factor receptor	apoptosis
NM_021540	RNF130	ring finger protein 130	apoptosis
NM_080561	RNF216	ring finger protein 216	apoptosis
NM_053157	TM2D1	TM2 domain containing 1	apoptosis
NM_009396	TNFAIP2	tumor necrosis factor, alpha-induced protein 2	apoptosis
NM_134131	TNFAIP8	tumor necrosis factor, alpha-induced protein 8	apoptosis
NM_144551	TRIB2	tribbles homolog 2 (Drosophila)	apoptosis
NM_175093	TRIB3	tribbles homolog 3 (Drosophila)	apoptosis
NM_001081636	CCND3	cyclin D3	cell cycle
NM_007633	CCNE1	cyclin E1	cell cycle
NM_172839	CCNJ	cyclin J	cell cycle
NM_019937	CCNL1	cyclin L1	cell cycle
NM_028399	CCNT2	cyclin T2	cell cycle
NM_053180	CCRK	cell cycle related kinase	cell cycle
NM_001081058	CDC2L5	cell division cycle 2-like 5 (cholinesterase-related cell division control protein 2-like 5)	cell cycle
NM_011799	CDC6	cell division cycle 6 homolog (S. cerevisiae)	cell cycle
NM_183294	CDKL1	cyclin-dependent kinase-like 1 (CDC2-related kinase)	cell cycle
NM_028760	CEP55	centrosomal protein 55kDa	cell cycle
NM_026952	CRKRS	Cdc2-related kinase, arginine/serine-rich	cell cycle
NM_146207	CUL4A	cullin 4A	cell cycle
NM_027807	CUL5	cullin 5	cell cycle
NM_025853	DSN1	DSN1, MIND kinetochore complex component, homolog (S. cerevisiae)	cell cycle
NM_007836	GADD45A	growth arrest and DNA-damage-inducible, alpha	cell cycle
NM_011817	GADD45G	growth arrest and DNA-damage-inducible, gamma	cell cycle
NM_016692	INCENP	inner centromere protein antigens 135/155kDa	cell cycle
NM_181404	KANK1	KN motif and ankyrin repeat domains 1	cell cycle

NM_183046	KIF20B	kinesin family member 20B	cell cycle
NM_177757	KIF26B	kinesin family member 26B	cell cycle
NM_008442	KIF2A	kinesin heavy chain member 2A	cell cycle
NM_009600	MACF1	microtubule-actin crosslinking factor 1	cell cycle
NM_010752	MAD1L1	MAD1 mitotic arrest deficient-like 1 (yeast)	cell cycle
NM_007896	MAPRE1	microtubule-associated protein, RP/EB family, member 1	cell cycle
NM_133350	MAPRE3	microtubule-associated protein, RP/EB family, member 3	cell cycle
NM_001010833	MDC1	mediator of DNA damage checkpoint 1	cell cycle
NM_148922	MDM1	Mdm1 nuclear protein homolog (mouse)	cell cycle
NM_001081235	MN1	meningioma (disrupted in balanced translocation) 1	cell cycle
NM_026735	MOBK1A	MOB1, Mps One Binder kinase activator-like 1A (yeast)	cell cycle
NM_145571	MOBK1B	MOB1, Mps One Binder kinase activator-like 1B (yeast)	cell cycle
NM_172457	MOBK2A	MOB1, Mps One Binder kinase activator-like 2A (yeast)	cell cycle
NM_001045529	MORC3	MORC family CW-type zinc finger 3	cell cycle
NM_008675	NBL1	neuroblastoma, suppression of tumorigenicity 1	cell cycle
NM_178113	NCAPD3	non-SMC condensin II complex, subunit D3	cell cycle
NM_010892	NEK2	NIMA (never in mitosis gene a)-related kinase 2	cell cycle
NM_177898	NEK5	NIMA (never in mitosis gene a)-related kinase 5	cell cycle
NM_021606	NEK6	NIMA (never in mitosis gene a)-related kinase 6	cell cycle
NM_198654	NSL1	NSL1, MIND kinetochore complex component, homolog (S. cerevisiae)	cell cycle
NM_011050	PDCD4	programmed cell death 4 (neoplastic transformation inhibitor)	cell cycle
NM_016910	PPM1D	protein phosphatase 1D magnesium-dependent, delta isoform	cell cycle
NM_177167	PPM1E	protein phosphatase 1E (PP2C domain containing)	cell cycle
NM_024209	PPP6C	protein phosphatase 6, catalytic subunit	cell cycle
NM_019547	RBM38	RNA binding motif protein 38	cell cycle
NM_173867	RCC2	regulator of chromosome condensation 2	cell cycle
NM_001013370	SESN1	sestrin 1	cell cycle
NM_144907	SESN2	sestrin 2	cell cycle
NM_011543	SKP1	S-phase kinase-associated protein 1	cell cycle
NM_008017	SMC2	structural maintenance of chromosomes 2	cell cycle
NM_007790	SMC3	structural maintenance of chromosomes 3	cell cycle
NM_009282	STAG1	stromal antigen 1	cell cycle
NM_016964	STAG3	stromal antigen 3	cell cycle
NM_172656	STRADB	STE20-related kinase adaptor beta	cell cycle
NM_052973	STRN3	striatin, calmodulin binding protein 3	cell cycle
NM_026780	SYF2	SYF2 homolog, RNA splicing factor (S. cerevisiae)	cell cycle
NM_177089	TACC1	transforming, acidic coiled-coil containing protein 1	cell cycle

NM_001127233	TP53	tumor protein p53	cell cycle
NM_020002	REC8	REC8 homolog (yeast)	cell division
NM_178644	OAF	OAF homolog (Drosophila)	cell division
NM_174850	MICALL2	MICAL-like 2	cytoskeleton
NM_178598	TAGLN2	transgelin 2	cytoskeleton (smooth muscle)
NM_178385	TBCC	tubulin folding cofactor C	cytoskeleton (tubulin)
NM_173038	TBCEL	tubulin folding cofactor E-like	cytoskeleton (tubulin)
NM_178787	IFFO1	intermediate filament family orphan 1	cytoskeleton organisation
NM_183151	MID1	midline 1 (Opitz/BBB syndrome)	cytoskeleton organisation
NM_010878	NCK1	NCK adaptor protein 1	cytoskeleton organisation
NM_010879	NCK2	NCK adaptor protein 2	cytoskeleton organisation
NM_022656	NISCH	nischarin	cytoskeleton organisation
NM_008733	NRAP	nebulin-related anchoring protein	cytoskeleton organisation
NM_011892	SGCG	sarcoglycan, gamma (35kDa dystrophin-associated glycoprotein)	cytoskeleton organisation
NM_001102444	ADD1	adducin 1 (alpha)	cytoskeleton organisation
NM_013458	ADD2	adducin 2 (beta)	cytoskeleton organisation
NM_013758	ADD3	adducin 3 (gamma)	cytoskeleton organisation
NM_031158	ANK1	ankyrin 1, erythrocytic	cytoskeleton organisation
NM_021328	BIN3	bridging integrator 3	cytoskeleton organisation
NM_013513	EPB42	erythrocyte membrane protein band 4.2	cytoskeleton organisation
NM_146100	INA	internexin neuronal intermediate filament protein, alpha	cytoskeleton organisation
NM_001038609	MAPT	microtubule-associated protein tau	cytoskeleton organisation
NM_023668	NDEL1	nudE nuclear distribution gene E homolog (A. nidulans)-like 1	cytoskeleton organisation
NM_011057	PDGFB	platelet-derived growth factor beta polypeptide (simian sarcoma virus)	cytoskeleton organisation
NM_029303	PFN3	profilin 3	cytoskeleton organisation
NM_172261	PPP1R9B	protein phosphatase 1, regulatory (inhibitor) subunit 9B	cytoskeleton organisation
NM_013831	PSTPIP2	proline-serine-threonine phosphatase interacting protein 2	cytoskeleton organisation
NM_009008	RAC2	ras-related C3 botulinum toxin substrate 2 (rho family, small GTP binding protein)	cytoskeleton organisation
NM_145824	RANBP10	RAN binding protein 10	cytoskeleton organisation
NM_026772	CDC42EP2	CDC42 effector protein (Rho GTPase binding) 2	cytoskeleton organisation (actin filament)
NM_020006	CDC42EP4	CDC42 effector protein (Rho GTPase binding) 4	cytoskeleton organisation (actin filament)
NM_026514	CDC42EP3	CDC42 effector protein (Rho GTPase binding) 3	cytoskeleton organisation (actin filament), signal transduction
NM_008538	MARCKS (includes MARCKS)	myristoylated alanine-rich protein kinase C substrate	cytoskeleton organisation (actin filaments)
NM_008879	LCP1	lymphocyte cytosolic protein 1 (L-plastin)	cytoskeleton organisation (actin filaments) hematopoiesis
NM_172118	MYL9 (includes EGFP)	myosin, light polypeptide 9, regulatory	cytoskeleton organisation (actin-dependent motor protein)
NM_175441	MYLK3	myosin light chain kinase 3	cytoskeleton organisation (actin-dependent motor protein)
NM_148413	MYO3A	myosin IIIA	cytoskeleton organisation (actin-dependent motor protein)

NM_177376	MYO3B	myosin IIIB	cytoskeleton organisation (actin-dependent motor prc
NM_001081322	MYO5C	myosin VC	cytoskeleton organisation (actin-dependent motor prc
NM_021883	TMOD1	tropomodulin 1	cytoskeleton organisation (actin, tropomyosin binding
NM_016963	TMOD3	tropomodulin 3 (ubiquitous)	cytoskeleton organisation (actin, tropomyosin binding
NM_009798	CAPZB	capping protein (actin filament) muscle Z-line, beta	cytoskeleton organisation (actin)
NM_001037711	CGN	cingulin	cytoskeleton organisation (actin)
NM_080285	CTTNBP2	cortactin binding protein 2	cytoskeleton organisation (actin)
NM_172464	DAAM1	dishevelled associated activator of morphogenesis 1	cytoskeleton organisation (actin)
NM_007858	DIAPH1	diaphanous homolog 1 (Drosophila)	cytoskeleton organisation (actin)
NM_007862	DLG1	discs, large homolog 1 (Drosophila)	cytoskeleton organisation (actin)
NM_033374	DOCK2	dedicator of cytokinesis 2	cytoskeleton organisation (actin)
NM_080288	ELMO1	engulfment and cell motility 1	cytoskeleton organisation (actin)
NM_001128607	EPB41	erythrocyte membrane protein band 4.1 (elliptocytosis 1, RH-linked	cytoskeleton organisation (actin)
NM_013514	EPB49	erythrocyte membrane protein band 4.9 (dematin)	cytoskeleton organisation (actin)
NM_015759	FGD3	FYVE, RhoGEF and PH domain containing 3	cytoskeleton organisation (actin)
NM_053072	FGD6	FYVE, RhoGEF and PH domain containing 6	cytoskeleton organisation (actin)
NM_001033301	FHDC1	FH2 domain containing 1	cytoskeleton organisation (actin)
NM_001131020	GFAP	glial fibrillary acidic protein	cytoskeleton organisation (actin)
NM_027671	SNTG1	syntrophin, gamma 1	cytoskeleton organisation (actin)
NM_194355	SPIRE1	spire homolog 1 (Drosophila)	cytoskeleton organisation (actin)
NM_011465	SPTA1	spectrin, alpha, erythrocytic 1 (elliptocytosis 2)	cytoskeleton organisation (actin)
NM_013675	SPTB	spectrin, beta, erythrocytic	cytoskeleton organisation (actin)
NM_009260	SPTBN1	spectrin, beta, non-erythrocytic 1	cytoskeleton organisation (actin)
NM_013515	STOM	stomatin	cytoskeleton organisation (actin)
NM_178046	SVIL	supervillin	cytoskeleton organisation (actin)
NM_024427	TPM1	tropomyosin 1 (alpha)	cytoskeleton organisation (actin)
NM_011876	TWF2	twinfilin, actin-binding protein, homolog 2 (Drosophila)	cytoskeleton organisation (actin)
NM_009509	VIL1	villin 1	cytoskeleton organisation (actin)
NM_153423	WASF2	WAS protein family, member 2	cytoskeleton organisation (actin)
NM_028459	WASL (includes EC	Wiskott-Aldrich syndrome-like	cytoskeleton organisation (actin)
NM_183017	TTL12	tubulin tyrosine ligase-like family, member 12	cytoskeleton organisation (microtubule nucleation)
NM_001080971	TUBB1	tubulin, beta 1	cytoskeleton organisation (microtubule nucleation)
NM_009450	TUBB2A	tubulin, beta 2A	cytoskeleton organisation (microtubule nucleation)
NM_146116	TUBB2C	tubulin, beta 2C	cytoskeleton organisation (microtubule nucleation)
NM_023279	TUBB3	tubulin, beta 3	cytoskeleton organisation (microtubule nucleation)
NM_019756	TUBD1	tubulin, delta 1	cytoskeleton organisation (microtubule nucleation)
NM_133755	TUBGCP2	tubulin, gamma complex associated protein 2	cytoskeleton organisation (microtubule nucleation)

NM_019641	STMN1	stathmin 1/oncoprotein 18	cytoskeleton organisation (microtubule)
NM_021314	TACC2	transforming, acidic coiled-coil containing protein 2	cytoskeleton organisation (microtubule)
NM_001040435	TACC3	transforming, acidic coiled-coil containing protein 3	cytoskeleton organisation (microtubule)
NM_001048207	GYPC	glycophorin C (Gerbich blood group)	cytoskeleton stability
NM_001081373	CEP164	centrosomal protein 164kDa	DNA repair
NM_015792	FBXO18	F-box protein, helicase, 18	DNA repair
NM_010822	MPG	N-methylpurine-DNA glycosylase	DNA repair
NM_010830	MSH6	mutS homolog 6 (E. coli)	DNA repair
NM_001024917	N4BP2	NEDD4 binding protein 2	DNA repair
NM_026330	NSMCE1	non-SMC element 1 homolog (S. cerevisiae)	DNA repair
NM_018878	PAXIP1	PAX interacting (with transcription-activation domain) protein 1	DNA repair
NM_009010	RAD23A	RAD23 homolog A (S. cerevisiae)	DNA repair
NM_009014	RAD51L1	RAD51-like 1 (S. cerevisiae)	DNA repair
NM_130454	RECQL5	RecQ protein-like 5	DNA repair
NM_177700	ATMIN	ATM interactor	DNA repair, cell cycle
NM_007550	BLM	Bloom syndrome	DNA repair, cell cycle
NM_026014	CDT1	chromatin licensing and DNA replication factor 1	DNA replication
NM_007999	FEN1	flap structure-specific endonuclease 1	DNA replication
NM_010210	FHIT	fragile histidine triad gene	DNA replication
NM_178856	GINS2	GINS complex subunit 2 (Psf2 homolog)	DNA replication
NM_024240	GINS4	GINS complex subunit 4 (Sld5 homolog)	DNA replication
NM_008893	POLA2	polymerase (DNA directed), alpha 2 (70kD subunit)	DNA replication
NM_008894	POLD2	polymerase (DNA directed), delta 2, regulatory subunit 50kDa	DNA replication
NM_015810	POLG2	polymerase (DNA directed), gamma 2, accessory subunit	DNA replication
NM_008922	PRIM2	primase, DNA, polypeptide 2 (58kDa)	DNA replication
NM_020022	RFC2	replication factor C (activator 1) 2, 40kDa	DNA replication
NM_025372	TIPIN	TIMELESS interacting protein	DNA replication
NM_009387	TK1	thymidine kinase 1, soluble	DNA replication
NM_145610	PPAN-P2RY11	PPAN-P2RY11 readthrough transcript	fusion protein
NM_013469	ANXA11	annexin A11	immune response
NM_009735	B2M	beta-2-microglobulin	immune response
NM_019465	CRTAM	cytotoxic and regulatory T cell molecule	immune response
NM_007827	DAF2	decay accelerating factor 2	immune response
NM_139220	DEFB7	defensin beta 7	immune response
NM_010391	HLA-A	major histocompatibility complex, class I, A	immune response
NM_008330	IFI47	interferon gamma inducible protein 47	immune response
NM_008326	IRGM	immunity-related GTPase family, M	immune response

NM_001025245	MBP	myelin basic protein	immune response
NM_029983	SLA2 (includes EG	Src-like-adaptor 2	immune response
NM_001033405	TREML2	triggering receptor expressed on myeloid cells-like 2	immune response
NM_001033922	TREML4	triggering receptor expressed on myeloid cells-like 4	immune response
NM_030210	AACS	acetoacetyl-CoA synthetase	metabolic process
NM_178772	AADACL1	arylacetamide deacetylase-like 1	metabolic process
NM_177470	ACAA2	acetyl-Coenzyme A acyltransferase 2	metabolic process
NM_001033452	ACCSL	1-aminocyclopropane-1-carboxylate synthase homolog (Arabidops	metabolic process
NM_009599	ACHE	acetylcholinesterase (Yt blood group)	metabolic process
NM_001102405	ACP5	acid phosphatase 5, tartrate resistant	metabolic process
NM_027976	ACSL5	acyl-CoA synthetase long-chain family member 5	metabolic process
NM_080575	ACSS1	acyl-CoA synthetase short-chain family member 1	metabolic process
NM_019811	ACSS2	acyl-CoA synthetase short-chain family member 2	metabolic process
NM_001109756	ADCY7	adenylate cyclase 7	metabolic process
NM_028320	ADIPOR1	adiponectin receptor 1	metabolic process
NM_134079	ADK	adenosine kinase	metabolic process
NM_028121	ADPGK	ADP-dependent glucokinase	metabolic process
NM_007421	ADSSL1	adenylosuccinate synthase like 1	metabolic process
NM_026644	AGPAT4	1-acylglycerol-3-phosphate O-acyltransferase 4 (lysophosphatidic	metabolic process
NM_028398	AGXT2L2	alanine-glyoxylate aminotransferase 2-like 2	metabolic process
NM_021299	AK3	adenylate kinase 3	metabolic process
NM_001081277	AK5	adenylate kinase 5	metabolic process
NM_001110208	AKT2	v-akt murine thymoma viral oncogene homolog 2	metabolic process
NM_153554	ALDH18A1	aldehyde dehydrogenase 18 family, member A1	metabolic process
NM_175438	ALDH4A1	aldehyde dehydrogenase 4 family, member A1	metabolic process
NM_019998	ALG2	asparagine-linked glycosylation 2, alpha-1,3-mannosyltransferase	metabolic process
NM_009663	ALOX5AP	arachidonate 5-lipoxygenase-activating protein	metabolic process
NM_007431	ALPL	alkaline phosphatase, liver/bone/kidney	metabolic process
NM_007444	AMD1	adenosylmethionine decarboxylase 1	metabolic process
NM_001081112	ANKRD26	ankyrin repeat domain 26	metabolic process
NM_026674	APH1C	anterior pharynx defective 1c homolog (C. elegans)	metabolic process
NM_028710	ARSG	arylsulfatase G	metabolic process
NM_020577	AS3MT	arsenic (+3 oxidation state) methyltransferase	metabolic process
NM_019734	ASAH1	N-acylsphingosine amidohydrolase (acid ceramidase) 1	metabolic process
NM_018830	ASAH2	N-acylsphingosine amidohydrolase (non-lysosomal ceramidase) 2	metabolic process
NM_012055	ASNS	asparagine synthetase	metabolic process
NM_007512	ATPIF1	ATPase inhibitory factor 1	metabolic process

NM_016709	AUH	AU RNA binding protein/enoyl-Coenzyme A hydratase	metabolic process
NM_001102458	AZIN1	antizyme inhibitor 1	metabolic process
NM_027739	B4GALNT1	beta-1,4-N-acetyl-galactosaminyl transferase 1	metabolic process
NM_177897	B4GALNT4	beta-1,4-N-acetyl-galactosaminyl transferase 4	metabolic process
NM_022305	B4GALT1	UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide	metabolic process
NM_019835	B4GALT5	UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide	metabolic process
NM_007519	BAAT	bile acid Coenzyme A: amino acid N-acyltransferase (glycine N-ch	metabolic process
NM_007563	BPGM	2,3-bisphosphoglycerate mutase	metabolic process
NM_052993	C1GALT1	core 1 synthase, glycoprotein-N-acetylgalactosamine 3-beta-galac	metabolic process
NM_009801	CA2	carbonic anhydrase II	metabolic process
NM_009804	CAT	catalase	metabolic process
NM_138651	CDS2	CDP-diacylglycerol synthase (phosphatidate cytidyltransferase) 2	metabolic process
NM_023850	CHST1	carbohydrate (keratan sulfate Gal-6) sulfotransferase 1	metabolic process
NM_021439	CHST11	carbohydrate (chondroitin 4) sulfotransferase 11	metabolic process
NM_028117	CHST14	carbohydrate (N-acetylgalactosamine 4-O) sulfotransferase 14	metabolic process
NM_001081163	CHSY1	chondroitin sulfate synthase 1	metabolic process
NM_009908	CMAS	cytidine monophosphate N-acetylneuraminic acid synthetase	metabolic process
NM_020557	CMPK2	cytidine monophosphate (UMP-CMP) kinase 2, mitochondrial	metabolic process
NM_009937	COLQ	collagen-like tail subunit (single strand of homotrimer) of asymmet	metabolic process
NM_001111062	COMT	catechol-O-methyltransferase	metabolic process
NM_026965	COMTD1	catechol-O-methyltransferase domain containing 1	metabolic process
NM_145507	DARS	aspartyl-tRNA synthetase	metabolic process
NM_033623	DCUN1D1	DCN1, defective in cullin neddylation 1, domain containing 1 (S. ce	metabolic process
NM_016765	DDAH2	dimethylarginine dimethylaminohydrolase 2	metabolic process
NM_016672	DDC	dopa decarboxylase (aromatic L-amino acid decarboxylase)	metabolic process
NM_001039106	DDHD1	DDHD domain containing 1	metabolic process
NM_024208	ECHDC3	enoyl Coenzyme A hydratase domain containing 3	metabolic process
NM_028013	ENDOD1	endonuclease domain containing 1	metabolic process
NM_026174	ENTPD4	ectonucleoside triphosphate diphosphohydrolase 4	metabolic process
NM_010146	EPM2A (includes E	epilepsy, progressive myoclonus type 2A, Lafora disease (laforin)	metabolic process
NM_029735	EPRS	glutamyl-prolyl-tRNA synthetase	metabolic process
NM_010162	EXT1	exostoses (multiple) 1	metabolic process
NM_018788	EXTL3	exostoses (multiple)-like 3	metabolic process
NM_023480	FAHD1	fumarylacetoacetate hydrolase domain containing 1	metabolic process
NM_173423	FEM1C	fem-1 homolog c (C. elegans)	metabolic process
NM_021891	FIGNL1	fidgetin-like 1	metabolic process
NM_025799	FUCA2	fucosidase, alpha-L- 2, plasma	metabolic process

NM_001081454	FURIN	furin (paired basic amino acid cleaving enzyme)	metabolic process
NM_001136484	GCNT1	glucosaminyl (N-acetyl) transferase 1, core 2 (beta-1,6-N-acetylglucosaminyl)	metabolic process
NM_010266	GDA	guanine deaminase	metabolic process
NM_013528	GFPT1	glutamine-fructose-6-phosphate transaminase 1	metabolic process
NM_010283	GGTA1	glycoprotein, alpha-galactosyltransferase 1	metabolic process
NM_008131	GLUL	glutamate-ammonia ligase (glutamine synthetase)	metabolic process
NM_001031667	GSK3A	glycogen synthase kinase 3 alpha	metabolic process
NM_025325	HAAO	3-hydroxyanthranilate 3,4-dioxygenase	metabolic process
NM_024284	HAGH	hydroxyacylglutathione hydrolase	metabolic process
NM_139145	HLCS	holocarboxylase synthetase (biotin-(propionyl-Coenzyme A-carboxyltransferase)	metabolic process
NM_178870	HS3ST3A1	heparan sulfate (glucosamine) 3-O-sulfotransferase 3A1	metabolic process
NM_015818	HS6ST1	heparan sulfate 6-O-sulfotransferase 1	metabolic process
NM_010489	HYAL2	hyaluronoglucosaminidase 2	metabolic process
NM_177197	ID12 (includes EG:3	isopentenyl-diphosphate delta isomerase 2	metabolic process
NM_173027	IHPK3	inositol hexakisphosphate kinase 3	metabolic process
NM_153526	INSIG1	insulin induced gene 1	metabolic process
NM_001101598	ISOC2	isochorismatase domain containing 2	metabolic process
NM_133892	LAO1	L-amino acid oxidase 1	metabolic process
NM_153408	LINCR	likely ortholog of mouse lung-inducible Neutralized-related C3HC4	metabolic process
NM_008280	LIPC	lipase, hepatic	metabolic process
NM_145376	LPCAT1	lysophosphatidylcholine acyltransferase 1	metabolic process
NM_022882	LPIN2	lipin 2	metabolic process
NM_008509	LPL	lipoprotein lipase	metabolic process
NM_146006	LSS	lanosterol synthase (2,3-oxidosqualene-lanosterol cyclase)	metabolic process
NM_008548	MAN1A1	mannosidase, alpha, class 1A, member 1	metabolic process
NM_026968	MANBAL	mannosidase, beta A, lysosomal-like	metabolic process
NM_145569	MAT2A	methionine adenosyltransferase II, alpha	metabolic process
NM_134017	MAT2B	methionine adenosyltransferase II, beta	metabolic process
NM_001083341	MBOAT2	membrane bound O-acyltransferase domain containing 2	metabolic process
NM_145494	ME2	malic enzyme 2, NAD(+)-dependent, mitochondrial	metabolic process
NM_145926	MGAT4B	mannosyl (alpha-1,3-)-glycoprotein beta-1,4-N-acetylglucosaminyl	metabolic process
NM_011844	MGLL	monoglyceride lipase	metabolic process
NM_174995	MGST2	microsomal glutathione S-transferase 2	metabolic process
NM_025569	MGST3	microsomal glutathione S-transferase 3	metabolic process
NM_153396	MICAL3 (includes E	microtubule associated monooxygenase, calponin and LIM domain	metabolic process
NM_010799	MINPP1	multiple inositol polyphosphate histidine phosphatase, 1	metabolic process
NM_175403	MLEC	malectin	metabolic process

NM_028464	MOCS1	molybdenum cofactor synthesis 1	metabolic process
NM_024433	MTAP (includes EC	methythioadenosine phosphorylase	metabolic process
NM_013792	NAGLU	N-acetylglucosaminidase, alpha-	metabolic process
NM_145829	NAGS	N-acetylglutamate synthase	metabolic process
NM_026086	NANP	N-acetylneuraminic acid phosphatase	metabolic process
NM_178728	NAPEPLD	N-acyl phosphatidylethanolamine phospholipase D	metabolic process
NM_026272	NARF	nuclear prelamin A recognition factor	metabolic process
NM_153126	NAT10	N-acetyltransferase 10 (GCN5-related)	metabolic process
NM_008674	NAT3	N-acetyltransferase 3	metabolic process
NM_010811	NDST2	N-deacetylase/N-sulfotransferase (heparan glucosaminyl) 2	metabolic process
NM_019730	NME3	non-metastatic cells 3, protein expressed in	metabolic process
NM_144533	NMNAT3 (includes	nicotinamide nucleotide adenyltransferase 3	metabolic process
NM_010924	NNMT	nicotinamide N-methyltransferase	metabolic process
NM_008710	NNT	nicotinamide nucleotide transhydrogenase	metabolic process
NM_172204	NOXA1	NADPH oxidase activator 1	metabolic process
NM_172204	NOXA1	NADPH oxidase activator 1	metabolic process
NM_025539	NUDT2	nudix (nucleoside diphosphate linked moiety X)-type motif 2	metabolic process
NM_001013022	ODF3B	outer dense fiber of sperm tails 3B	metabolic process
NM_173777	OLFM2	olfactomedin 2	metabolic process
NM_025661	ORMDL3	ORM1-like 3 (S. cerevisiae)	metabolic process
NM_138604	OTUD5	OTU domain containing 5	metabolic process
NM_008797	PC	pyruvate carboxylase	metabolic process
NM_011044	PCK1	phosphoenolpyruvate carboxykinase 1 (soluble)	metabolic process
NM_153565	PCSK9	proprotein convertase subtilisin/kexin type 9	metabolic process
NM_146239	PCTK2	PCTAIRE protein kinase 2	metabolic process
NM_211138	PCYT1B	phosphate cytidyltransferase 1, choline, beta	metabolic process
NM_021453	PGA5	pepsinogen 5, group I (pepsinogen A)	metabolic process
NM_025396	PGLS	6-phosphogluconolactonase	metabolic process
NM_027629	PGM2L1	phosphoglucomutase 2-like 1	metabolic process
NM_175306	PHACTR4	phosphatase and actin regulator 4	metabolic process
NM_025408	PHCA	alkaline ceramidase 3	metabolic process
NM_008845	PIP4K2A	phosphatidylinositol-5-phosphate 4-kinase, type II, alpha	metabolic process
NM_054097	PIP4K2C	phosphatidylinositol-5-phosphate 4-kinase, type II, gamma	metabolic process
NM_008846	PIP5K1B	phosphatidylinositol-4-phosphate 5-kinase, type I, beta	metabolic process
NM_177298	PISD	phosphatidylserine decarboxylase	metabolic process
NM_016915	PLA2G6	phospholipase A2, group VI (cytosolic, calcium-independent)	metabolic process
NM_023564	PLSCR3	phospholipid scramblase 3	metabolic process

NM_001034885	PNPLA1	patatin-like phospholipase domain containing 1	metabolic process
NM_015801	PNPLA6	patatin-like phospholipase domain containing 6	metabolic process
NM_030262	POFUT2	protein O-fucosyltransferase 2	metabolic process
NM_026438	PPA1	pyrophosphatase (inorganic) 1	metabolic process
NM_146141	PPA2	pyrophosphatase (inorganic) 2	metabolic process
NM_176831	PPCDC	phosphopantothencysteine decarboxylase	metabolic process
NM_001098231	PPM2C	protein phosphatase 2C, magnesium-dependent, catalytic subunit	metabolic process
NM_001013367	PRKAA1	protein kinase, AMP-activated, alpha 1 catalytic subunit	metabolic process
NM_031869	PRKAB1	protein kinase, AMP-activated, beta 1 non-catalytic subunit	metabolic process
NM_080554	PSMD5	proteasome (prosome, macropain) 26S subunit, non-ATPase, 5	metabolic process
NM_011192	PSME3	proteasome (prosome, macropain) activator subunit 3 (PA28 gamma)	metabolic process
NM_013782	PTDSS2	phosphatidylserine synthase 2	metabolic process
NM_009075	RPIA	ribose 5-phosphate isomerase A	metabolic process
NM_133933	RPN1	ribophorin I	metabolic process
NM_019642	RPN2	ribophorin II	metabolic process
NM_145565	SDS	serine dehydratase	metabolic process
NM_133902	SDSL	serine dehydratase-like	metabolic process
NM_144792	SGMS1	sphingomyelin synthase 1	metabolic process
NM_029945	SMPD4	sphingomyelin phosphodiesterase 4, neutral membrane (neutral sphingomyelinase 4)	metabolic process
NM_029367	SPACA3	sperm acrosome associated 3	metabolic process
NM_009272	SRM	spermidine synthase	metabolic process
NM_009177	ST3GAL1	ST3 beta-galactoside alpha-2,3-sialyltransferase 1	metabolic process
NM_009179	ST3GAL2	ST3 beta-galactoside alpha-2,3-sialyltransferase 2	metabolic process
NM_009178	ST3GAL4	ST3 beta-galactoside alpha-2,3-sialyltransferase 4	metabolic process
NM_001035228	ST3GAL5	ST3 beta-galactoside alpha-2,3-sialyltransferase 5	metabolic process
NM_018784	ST3GAL6	ST3 beta-galactoside alpha-2,3-sialyltransferase 6	metabolic process
NM_011372	ST6GALNAC3	ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1,3)-N-acetylglucosaminyltransferase 3	metabolic process
NM_012028	ST6GALNAC5	ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1,3)-N-acetylglucosaminyltransferase 5	metabolic process
NM_001113352	SYNJ2	synaptojanin 2	metabolic process
NM_011528	TALDO1	transaldolase 1	metabolic process
NM_009373	TGM2	transglutaminase 2 (C polypeptide, protein-glutamine-gamma-glutamyl cross-linking factor)	metabolic process
NM_001040426	THSD4	thrombospondin, type I, domain containing 4	metabolic process
NM_176842	TPRKB	TP53RK binding protein	metabolic process
NM_030254	TUSC3	tumor suppressor candidate 3	metabolic process
NM_030724	UCK2	uridine-cytidine kinase 2	metabolic process
NM_026765	UCKL1	uridine-cytidine kinase 1-like 1	metabolic process
NM_011673	UGCG	UDP-glucose ceramide glucosyltransferase	metabolic process

NM_201645	UGT1A1	UDP glucuronosyltransferase 1 family, polypeptide A1	metabolic process
NM_009471	UMPS	uridine monophosphate synthetase	metabolic process
NM_009477	UPP1	uridine phosphorylase 1	metabolic process
NM_145218	WBSCR17	Williams-Beuren syndrome chromosome region 17	metabolic process
NM_009667	AMPD3	adenosine monophosphate deaminase (isoform E)	metabolic process
NM_026639	ART4	ADP-ribosyltransferase 4 (Dombrock blood group)	metabolic process
NM_016888	B3GNT2	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 2	metabolic process
NM_145222	B3GNT7	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 7	metabolic process
NM_172148	B9D2	B9 protein domain 2	metabolic process
NM_134189	GALNT10	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylglactosaminyltransferase 10	metabolic process
NM_139272	GALNT2	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylglactosaminyltransferase 2	metabolic process
NM_172451	GALNT6	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylglactosaminyltransferase 6	metabolic process
NM_010360	GSTM3 (includes E)	glutathione S-transferase mu 3 (brain)	metabolic process
NM_027126	HFE2	hemochromatosis type 2 (juvenile)	metabolic process
NM_010438	HK1	hexokinase 1	metabolic process
NM_013820	HK2	hexokinase 2	metabolic process
NM_001113527	ISG20	interferon stimulated exonuclease gene 20kDa	metabolic process
NM_010700	LDLR	low density lipoprotein receptor	metabolic process
NM_145554	LDLRAP1	low density lipoprotein receptor adaptor protein 1	metabolic process
NM_029409	MFF	mitochondrial fission factor	metabolic process
NM_008613	MNS1	meiosis-specific nuclear structural 1	metabolic process
NM_172958	MTMR12	myotubularin related protein 12	metabolic process
NM_028860	MTMR3	myotubularin related protein 3	metabolic process
NM_029810	NT5C2	5'-nucleotidase, cytosolic II	metabolic process
NM_026004	NT5C3	5'-nucleotidase, cytosolic III	metabolic process
NM_175331	NT5DC3	5'-nucleotidase domain containing 3	metabolic process
NM_011956	NUBP2	nucleotide binding protein 2 (MinD homolog, E. coli)	metabolic process
NM_016773	NUCB2	nucleobindin 2	metabolic process
NM_033080	NUDT19	nudix (nucleoside diphosphate linked moiety X)-type motif 19	metabolic process
NM_026171	NVL	nuclear VCP-like	metabolic process
NM_016978	OAT	ornithine aminotransferase (gyrate atrophy)	metabolic process
NM_028696	OBFC2A	oligonucleotide/oligosaccharide-binding fold containing 2A	metabolic process
NM_013614	ODC1	ornithine decarboxylase 1	metabolic process
NM_001038614	OLFM1	olfactomedin 1	metabolic process
NM_177068	OLFML2B	olfactomedin-like 2B	metabolic process
NM_054076	OPTC	opticin	metabolic process
NM_153129	PACS1	phosphofurin acidic cluster sorting protein 1	metabolic process

NM_011059	PADI1	peptidyl arginine deiminase, type I	metabolic process
NM_023792	PANK1	pantothenate kinase 1	metabolic process
NM_172990	PANK4	pantothenate kinase 4	metabolic process
NM_021568	PCBP3	poly(rC) binding protein 3	metabolic process
NM_025835	PCCB	propionyl Coenzyme A carboxylase, beta polypeptide	metabolic process
NM_001081070	PDIA2	protein disulfide isomerase family A, member 2	metabolic process
NM_146156	PDIK1L	PDLIM1 interacting kinase 1 like	metabolic process
NM_019703	PFKP	phosphofructokinase, platelet	metabolic process
NM_031190	PGK2	phosphoglycerate kinase 2	metabolic process
NM_146194	PICALM	phosphatidylinositol binding clathrin assembly protein	metabolic process
NM_001039045	PIGC	phosphatidylinositol glycan anchor biosynthesis, class C	metabolic process
NM_001039536	PIGL	phosphatidylinositol glycan anchor biosynthesis, class L	metabolic process
NM_011822	PIGQ	phosphatidylinositol glycan anchor biosynthesis, class Q	metabolic process
NM_178698	PIGV	phosphatidylinositol glycan anchor biosynthesis, class V	metabolic process
NM_013631	PKLR	pyruvate kinase, liver and RBC	metabolic process
NM_011987	PLA2G10	phospholipase A2, group X	metabolic process
NM_008907	PPIA (includes EG)	peptidylprolyl isomerase A	metabolic process
NM_026352	PPID	peptidylprolyl isomerase D	metabolic process
NM_134084	PPIF	peptidylprolyl isomerase F	metabolic process
NM_011101	PRKCA	protein kinase C, alpha	metabolic process
NM_019537	PSMG1	proteasome (prosome, macropain) assembly chaperone 1	metabolic process
NM_019519	RABGGTA	Rab geranylgeranyltransferase, alpha subunit	metabolic process
NM_023663	RIPK4	receptor-interacting serine-threonine kinase 4	metabolic process
NM_011882	RNASEL	ribonuclease L (2',5'-oligoadenylate synthetase-dependent)	metabolic process
NM_013876	RNF11	ring finger protein 11	metabolic process
NM_011421	SMPD1	sphingomyelin phosphodiesterase 1, acid lysosomal	metabolic process
NM_001033463	TATDN2	TatD DNase domain containing 2	metabolic process
NM_207228	TSGA10	testis specific, 10	metabolic process
NM_011656	TUFT1	tuftelin 1	metabolic process
NM_027130	AFG3L2	AFG3 ATPase family gene 3-like 2 (yeast)	metabolic process (proteolysis)
NM_146226	APEH	N-acylaminoacyl-peptide hydrolase	metabolic process (proteolysis)
NM_026414	ASPRV1	aspartic peptidase, retroviral-like 1	metabolic process (proteolysis)
NM_025583	CTRB2	chymotrypsinogen B2	metabolic process (proteolysis)
NM_019861	CTSF	cathepsin F	metabolic process (proteolysis)
NM_033612	ELA1	elastase 1, pancreatic	metabolic process (proteolysis)
NM_026419	ELA3B	elastase 3B, pancreatic	metabolic process (proteolysis)
NM_019447	HGFAC	HGF activator	metabolic process (proteolysis)

NM_011175	LGMN	legumain	metabolic process (proteolysis)
NM_013783	MMEL1	membrane metallo-endopeptidase-like 1	metabolic process (proteolysis)
NM_008942	NPEPPS	aminopeptidase puromycin sensitive	metabolic process (proteolysis)
NM_020610	NRIP3	nuclear receptor interacting protein 3	metabolic process (proteolysis)
NM_145131	PITRM1	pitrilysin metallopeptidase 1	metabolic process (proteolysis)
NM_028243	PRCP	prolylcarboxypeptidase (angiotensinase C)	metabolic process (proteolysis)
NM_011156	PREP	prolyl endopeptidase	metabolic process (proteolysis)
NM_026111	QPCTL	glutaminy-peptide cyclotransferase-like	metabolic process (proteolysis)
NM_001003972	SENP7	SUMO1/sentrin specific peptidase 7	metabolic process (proteolysis)
NM_015830	SOLH	small optic lobes homolog (Drosophila)	metabolic process (proteolysis)
NM_009418	TPP2	tripeptidyl peptidase II	metabolic process (proteolysis)
NM_029012	UNQ1887	signal peptide peptidase 3	metabolic process (proteolysis)
NM_133216	XPNPEP1	X-prolyl aminopeptidase (aminopeptidase P) 1, soluble	metabolic process (proteolysis)
NM_153583	ATG4D	ATG4 autophagy related 4 homolog D (S. cerevisiae)	metabolic process (proteolysis)
NM_028835	ATG7	ATG7 autophagy related 7 homolog (S. cerevisiae)	metabolic process (proteolysis)
NM_027749	CPVL	carboxypeptidase, vitellogenic-like	metabolic process (proteolysis)
NM_007798	CTSB	cathepsin B	metabolic process (proteolysis)
NM_032540	KEL	Kell blood group, metallo-endopeptidase	metabolic process (proteolysis)
NM_008525	ALAD	aminolevulinate, delta-, dehydratase	metabolic process, heme catabolic process
NM_009653	ALAS2	aminolevulinate, delta-, synthase 2	metabolic process, heme catabolic process
NM_026678	BLVRA	biliverdin reductase A	metabolic process, heme catabolic process
NM_007757	CPOX	coproporphyrinogen oxidase	metabolic process, heme catabolic process
NM_007998	FECH	ferrochelataase (protoporphyria)	metabolic process, heme catabolic process
NM_013551	HMBS	hydroxymethylbilane synthase	metabolic process, heme catabolic process
NM_008911	PPOX	protoporphyrinogen oxidase	metabolic process, heme catabolic process
NM_009478	UROD	uroporphyrinogen decarboxylase	metabolic process, heme catabolic process
NM_009479	UROS	uroporphyrinogen III synthase	metabolic process, heme catabolic process
NM_009616	ADAM19	ADAM metallopeptidase domain 19 (meltrin beta)	metabolic process, proteolysis
NM_007601	CAPN3	calpain 3, (p94)	metabolic process, proteolysis
NM_007602	CAPN5	calpain 5	metabolic process, proteolysis
NR_003523	H2AFY3	H2A histone family, member Y3	Nucleosome assembly
NM_008210	H3F3A (includes E	H3 histone, family 3A	Nucleosome assembly
NM_008211	H3F3B	H3 histone, family 3B (H3.3B)	Nucleosome assembly
NM_030609	HIST1H1A	histone cluster 1, H1a	Nucleosome assembly
NM_015786	HIST1H1C	histone cluster 1, H1c	Nucleosome assembly
NM_175659	HIST1H2AC	histone cluster 1, H2ac	Nucleosome assembly
NM_178183	HIST1H2AD	histone cluster 1, H2ad	Nucleosome assembly

NM_178185	HIST1H2AE (includ	histone cluster 1, H2ae	Nucleosome assembly
NM_175660	HIST1H2AE (includ	histone cluster 1, H2ae	Nucleosome assembly
NM_178187	HIST1H2AE (includ	histone cluster 1, H2ae	Nucleosome assembly
NM_178186	HIST1H2AE (includ	histone cluster 1, H2ae	Nucleosome assembly
NM_178188	HIST1H2AE (includ	histone cluster 1, H2ae	Nucleosome assembly
NM_178182	HIST1H2AE (includ	histone cluster 1, H2ae	Nucleosome assembly
NM_178184	HIST1H2AE (includ	histone cluster 1, H2ae	Nucleosome assembly
NM_175661	HIST1H2AF	histone cluster 1, H2af	Nucleosome assembly
NM_178202	HIST1H2BD	histone cluster 1, H2bd	Nucleosome assembly
NM_178196	HIST1H2BI	histone cluster 1, H2bi	Nucleosome assembly
NM_023422	HIST1H2BI	histone cluster 1, H2bi	Nucleosome assembly
NM_178194	HIST1H2BI	histone cluster 1, H2bi	Nucleosome assembly
NM_178199	HIST1H2BK	histone cluster 1, H2bk	Nucleosome assembly
NM_178198	HIST1H2BK	histone cluster 1, H2bk	Nucleosome assembly
NM_178195	HIST1H2BK	histone cluster 1, H2bk	Nucleosome assembly
NM_175665	HIST1H2BK	histone cluster 1, H2bk	Nucleosome assembly
NM_178201	HIST1H2BK	histone cluster 1, H2bk	Nucleosome assembly
NM_178200	HIST1H2BM	histone cluster 1, H2bm	Nucleosome assembly
NM_175664	HIST1H2BN	histone cluster 1, H2bn	Nucleosome assembly
NM_178203	HIST1H3F	histone cluster 1, H3f	Nucleosome assembly
NM_175653	HIST1H3F	histone cluster 1, H3f	Nucleosome assembly
NM_178204	HIST1H3F	histone cluster 1, H3f	Nucleosome assembly
NM_178205	HIST1H3F	histone cluster 1, H3f	Nucleosome assembly
NM_013548	HIST1H3F	histone cluster 1, H3f	Nucleosome assembly
NM_175656	HIST1H4A	histone cluster 1, H4a	Nucleosome assembly
NM_178208	HIST1H4C	histone cluster 1, H4c	Nucleosome assembly
NM_175657	HIST1H4D	histone cluster 1, H4d	Nucleosome assembly
NM_033596	HIST1H4E	histone cluster 1, H4e	Nucleosome assembly
NM_178192	HIST1H4F	histone cluster 1, H4f	Nucleosome assembly
NM_153173	HIST1H4H (include	histone cluster 1, H4h	Nucleosome assembly
NM_175654	HIST1H4L	histone cluster 1, H4l	Nucleosome assembly
NM_178212	HIST2H2AA2	histone cluster 2, H2aa2	Nucleosome assembly
NM_054045	HIST2H3C2	histone cluster 2, H3c2	Nucleosome assembly
NM_178216	HIST2H3D	histone cluster 2, H3d	Nucleosome assembly
NM_013550	HIST3H3 (includes	histone cluster 3, H3	Nucleosome assembly
NM_178206	HIST3H3 (includes	histone cluster 3, H3	Nucleosome assembly
NM_178207	HIST3H3 (includes	histone cluster 3, H3	Nucleosome assembly

NM_145073	HIST3H3 (includes	histone cluster 3, H3	Nucleosome assembly
NM_178211	HIST4H4 (includes	histone cluster 4, H4	Nucleosome assembly
NM_010470	HP1BP3	heterochromatin protein 1, binding protein 3	Nucleosome assembly
NM_008672	NAP1L4	nucleosome assembly protein 1-like 4	Nucleosome assembly
NM_009407	TNP1	transition protein 1 (during histone to protamine replacement)	Nucleosome assembly
NM_198617	TSPYL3	TSPY-like 3 (pseudogene)	Nucleosome assembly
NM_199195	BCKDHB	branched chain keto acid dehydrogenase E1, beta polypeptide	oxidation reduction
NM_001122683	BDH1	3-hydroxybutyrate dehydrogenase, type 1	oxidation reduction
NM_144923	BLVRB	biliverdin reductase B (flavin reductase (NADPH))	oxidation reduction
NM_027978	COQ2	coenzyme Q2 homolog, prenyltransferase (yeast)	oxidation reduction
NM_053091	COX4I2	cytochrome c oxidase subunit IV isoform 2 (lung)	oxidation reduction
NM_007751	COX8B	cytochrome c oxidase, subunit VIIIb	oxidation reduction
NM_013495	CPT1A	carnitine palmitoyltransferase 1A (liver)	oxidation reduction
NM_029787	CYB5R3	cytochrome b5 reductase 3	oxidation reduction
NM_175475	CYP26B1	cytochrome P450, family 26, subfamily B, polypeptide 1	oxidation reduction
NM_001105201	CYP26C1	cytochrome P450, family 26, subfamily C, polypeptide 1	oxidation reduction
NM_009999	CYP2B6 (includes	cytochrome P450, family 2, subfamily B, polypeptide 6	oxidation reduction
NM_029562	CYP2D26	cytochrome P450, family 2, subfamily d, polypeptide 26	oxidation reduction
NM_001100181	CYP4A11	cytochrome P450, family 4, subfamily A, polypeptide 11	oxidation reduction
NM_011303	DHRS3	dehydrogenase/reductase (SDR family) member 3	oxidation reduction
NM_001037938	DHRS4	dehydrogenase/reductase (SDR family) member 4	oxidation reduction
NM_133964	DOHH	deoxyhypusine hydroxylase/monooxygenase	oxidation reduction
NM_144858	DUS3L	dihydrouridine synthase 3-like (S. cerevisiae)	oxidation reduction
NM_053207	EGLN1	egl nine homolog 1 (C. elegans)	oxidation reduction
NM_028133	EGLN3	egl nine homolog 3 (C. elegans)	oxidation reduction
NM_023737	EHHADH	enoyl-Coenzyme A, hydratase/3-hydroxyacyl Coenzyme A dehydr	oxidation reduction
NM_010191	FDFT1	farnesyl-diphosphate farnesyltransferase 1	oxidation reduction
NM_010239	FTH1	ferritin, heavy polypeptide 1	oxidation reduction
NM_031261	FTHL17	ferritin, heavy polypeptide-like 17	oxidation reduction
NM_008084	GAPDH (includes B	glyceraldehyde-3-phosphate dehydrogenase	oxidation reduction
NM_008129	GCLM	glutamate-cysteine ligase, modifier subunit	oxidation reduction
NM_001033399	GFOD1	glucose-fructose oxidoreductase domain containing 1	oxidation reduction
NM_053108	GLRX	glutaredoxin (thioltransferase)	oxidation reduction
NM_028419	GLRX5	glutaredoxin 5	oxidation reduction
NM_025508	GMPR	guanosine monophosphate reductase	oxidation reduction
NM_134118	GPSN2	glycoprotein, synaptic 2	oxidation reduction
NM_008212	HADH	hydroxyacyl-Coenzyme A dehydrogenase	oxidation reduction

NM_008277	HPD	4-hydroxyphenylpyruvate dioxygenase	oxidation reduction
NM_173011	IDH2	isocitrate dehydrogenase 2 (NADP+), mitochondrial	oxidation reduction
NM_011830	IMPDH2	IMP (inosine monophosphate) dehydrogenase 2	oxidation reduction
NM_027570	LDHD	lactate dehydrogenase D	oxidation reduction
NM_010840	MTHFR	5,10-methylenetetrahydrofolate reductase (NADPH)	oxidation reduction
NM_172607	NAPRT1	nicotinate phosphoribosyltransferase domain containing 1	oxidation reduction
NM_011030	P4HA1	prolyl 4-hydroxylase, alpha polypeptide I	oxidation reduction
NM_011031	P4HA2	prolyl 4-hydroxylase, alpha polypeptide II	oxidation reduction
NM_011032	P4HB	prolyl 4-hydroxylase, beta polypeptide	oxidation reduction
NM_008811	PDHA2	pyruvate dehydrogenase (lipoamide) alpha 2	oxidation reduction
NM_007952	PDIA3	protein disulfide isomerase family A, member 3	oxidation reduction
NM_134021	PNPO	pyridoxamine 5'-phosphate oxidase	oxidation reduction
NM_008898	POR	P450 (cytochrome) oxidoreductase	oxidation reduction
NM_133819	PPP1R15B	protein phosphatase 1, regulatory (inhibitor) subunit 15B	oxidation reduction
NM_011563	PRDX2	peroxiredoxin 2	oxidation reduction
NM_007453	PRDX6	peroxiredoxin 6	oxidation reduction
NM_008969	PTGS1	prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase)	oxidation reduction
NM_133705	PYCR2	pyrroline-5-carboxylate reductase family, member 2	oxidation reduction
NM_009127	SCD	stearoyl-CoA desaturase (delta-9-desaturase)	oxidation reduction
NM_009128	SCD2	stearoyl-Coenzyme A desaturase 2	oxidation reduction
NM_080559	SH3BGRL3	SH3 domain binding glutamic acid-rich protein like 3	oxidation reduction
NM_145533	SMOX	spermine oxidase	oxidation reduction
NM_011434	SOD1	superoxide dismutase 1, soluble	oxidation reduction
NM_013671	SOD2	superoxide dismutase 2, mitochondrial	oxidation reduction
NM_133186	STEAP3	STEAP family member 3	oxidation reduction
NM_011539	TBXAS1	thromboxane A synthase 1 (platelet)	oxidation reduction
NM_019913	TXN2	thioredoxin 2	oxidation reduction
NM_029582	TXNDC11	thioredoxin domain containing 11	oxidation reduction
NM_153519	TXNDC2	thioredoxin domain-containing 2 (spermatozoa)	oxidation reduction
NM_016792	TXNL1	thioredoxin-like 1	oxidation reduction
NM_001042513	TXNRD1	thioredoxin reductase 1	oxidation reduction
NM_012037	VAT1	vesicle amine transport protein 1 homolog (T. californica)	oxidation reduction
NM_019573	XKR8	WW domain containing oxidoreductase	oxidation reduction
NM_009627	ADM	adrenomedullin	proliferation
NM_030248	CDK5RAP3 (includ	CDK5 regulatory subunit associated protein 3	proliferation
NM_007783	CSK	c-src tyrosine kinase	proliferation
NM_008150	GPC4	glypican 4	proliferation

NM_175500	GPC5	glypican 5	proliferation
NM_021320	NTN4	netrin 4	proliferation
NM_027088	BAP1	BRCA1 associated protein-1 (ubiquitin carboxy-terminal hydrolase	proliferation
NM_024223	CRIP2	cysteine-rich protein 2	proliferation
NM_008231	HDGF	hepatoma-derived growth factor (high-mobility group protein 1-like	proliferation
NM_053149	HEMGN	hemogen	proliferation
NM_025910	MINA	MYC induced nuclear antigen	proliferation
NM_016695	MPP2	membrane protein, palmitoylated 2 (MAGUK p55 subfamily memb	proliferation
NM_054043	MSI2	musashi homolog 2 (Drosophila)	proliferation
NM_021315	NOC3L	nucleolar complex associated 3 homolog (S. cerevisiae)	proliferation
NM_021422	DNAJA4	DnaJ (Hsp40) homolog, subfamily A, member 4	protein folding
NM_018808	DNAJB1	DnaJ (Hsp40) homolog, subfamily B, member 1	protein folding
NM_019965	DNAJB12	DnaJ (Hsp40) homolog, subfamily B, member 12	protein folding
NM_020266	DNAJB2 (includes	DnaJ (Hsp40) homolog, subfamily B, member 2	protein folding
NM_027287	DNAJB4	DnaJ (Hsp40) homolog, subfamily B, member 4	protein folding
NM_019964	DNAJB8	DnaJ (Hsp40) homolog, subfamily B, member 8	protein folding
NM_013760	DNAJB9	DnaJ (Hsp40) homolog, subfamily B, member 9	protein folding
NM_172704	DNAJC11	DnaJ (Hsp40) homolog, subfamily C, member 11	protein folding
NM_153571	HSCB	HscB iron-sulfur cluster co-chaperone homolog (E. coli)	protein folding
NM_010480	HSP90AA1	heat shock protein 90kDa alpha (cytosolic), class A member 1	protein folding
NM_011631	HSP90B1	heat shock protein 90kDa beta (Grp94), member 1	protein folding
NM_028306	HSPA12B	heat shock 70kD protein 12B	protein folding
NM_008300	HSPA4	heat shock 70kDa protein 4	protein folding
NM_022310	HSPA5	heat shock 70kDa protein 5 (glucose-regulated protein, 78kDa)	protein folding
NM_013560	HSPB1	heat shock 27kDa protein 1	protein folding
NM_013559	HSPH1	heat shock 105kDa/110kDa protein 1	protein folding
NM_021395	HYOU1	hypoxia up-regulated 1	protein folding
NM_021351	CRYBA4	crystallin, beta A4	sensory perception (visual perception)
NM_173415	NYX	nyctalopin	sensory perception (visual perception)
NM_011148	PPEF2	protein phosphatase, EF-hand calcium binding domain 2	sensory perception (visual perception)
NM_009038	RCVRN	recoverin	sensory perception (visual perception)
NM_018769	DFNA5	deafness, autosomal dominant 5	sensory perception of sound
NM_026571	LHFPL5	lipoma HMGIC fusion partner-like 5	sensory perception of sound
NM_001077190	ABI1	abl-interactor 1	signaling
NM_021604	AGRN	agrin	signaling
NM_054085	ALPK3	alpha-kinase 3	signaling
NM_009640	ANGPT1	angiopoietin 1	signaling

NM_010026	ASAP1	ArfGAP with SH3 domain, ankyrin repeat and PH domain 1	signaling
NM_001039126	ASB1	ankyrin repeat and SOCS box-containing 1	signaling
NM_025758	ASB17	ankyrin repeat and SOCS box-containing 17	signaling
NM_133346	ASB6	ankyrin repeat and SOCS box-containing 6	signaling
NM_177580	BAIAP2L2	BAI1-associated protein 2-like 2	signaling
NM_007553	BMP2	bone morphogenetic protein 2	signaling
NM_080708	BMP2K (includes E	BMP2 inducible kinase	signaling
NM_007554	BMP4	bone morphogenetic protein 4	signaling
NM_009758	BMPR1A	bone morphogenetic protein receptor, type IA	signaling
NM_009768	BSG	basigin (Ok blood group)	signaling
NM_172449	BZRAP1	benzodiazapine receptor (peripheral) associated protein 1	signaling
NM_027292	BZRPL1	benzodiazapine receptor (peripheral)-like 1	signaling
NM_001042418	CABYR	calcium binding tyrosine-(Y)-phosphorylation regulated	signaling
NM_009790	CALM1	calmodulin 1 (phosphorylase kinase, delta)	signaling
NM_007589	CALM2	calmodulin 2 (phosphorylase kinase, delta)	signaling
NM_144817	CAMK1G	calcium/calmodulin-dependent protein kinase IG	signaling
NM_007595	CAMK2B	calcium/calmodulin-dependent protein kinase II beta	signaling
NM_025821	CARHSP1	calcium regulated heat stable protein 1, 24kDa	signaling
NM_001081493	CARTPT	CART prepropeptide	signaling
NM_181858	CD59	CD59 molecule, complement regulatory protein	signaling
NM_028408	CNIH3	cornichon homolog 3 (Drosophila)	signaling
NM_007758	CR2	complement component (3d/Epstein Barr virus) receptor 2	signaling
NM_009970	CSF2RA (includes	colony stimulating factor 2 receptor, alpha, low-affinity (granulocyte	signaling
NM_007780	CSF2RB	colony stimulating factor 2 receptor, beta, low-affinity (granulocyte	signaling
NM_007781	CSF2RB	colony stimulating factor 2 receptor, beta, low-affinity (granulocyte	signaling
NM_011932	DAPP1	dual adaptor of phosphotyrosine and 3-phosphoinositides	signaling
NM_027539	DCLK2	doublecortin-like kinase 2	signaling
NM_138306	DGKZ	diacylglycerol kinase, zeta 104kDa	signaling
NM_146128	DLGAP4	discs, large (Drosophila) homolog-associated protein 4	signaling
NM_010109	EFNA5	ephrin-A5	signaling
NM_010111	EFNB2	ephrin-B2	signaling
NM_007939	EPHA8	EPH receptor A8	signaling
NM_010149	EPOR	erythropoietin receptor	signaling
NM_010168	F2	coagulation factor II (thrombin)	signaling
NM_010190	FCN1	ficolin (collagen/fibrinogen domain containing) 1	signaling
NM_199448	FEZ2	fasciculation and elongation protein zeta 2 (zygin II)	signaling
NM_001136063	GFRA4	GDNF family receptor alpha 4	signaling

NM_010345	GRB10	growth factor receptor-bound protein 10	signaling
NM_008244	HGS	hepatocyte growth factor-regulated tyrosine kinase substrate	signaling
NM_027521	HMHA1	histocompatibility (minor) HA-1	signaling
NM_011984	HOMER3	homer homolog 3 (Drosophila)	signaling
NM_010513	IGF1R	insulin-like growth factor 1 receptor	signaling
NM_010566	INPP5D	inositol polyphosphate-5-phosphatase, 145kDa	signaling
NM_178641	INPP5F	inositol polyphosphate-5-phosphatase F	signaling
NM_001134383	IQSEC1	IQ motif and Sec7 domain 1	signaling
NM_001081212	IRS2	insulin receptor substrate 2	signaling
NM_015783	ISG15 (includes EC	ISG15 ubiquitin-like modifier	signaling
NM_001081109	LMTK2	lemur tyrosine kinase 2	signaling
NM_001080390	MARK2	MAP/microtubule affinity-regulating kinase 2	signaling
NM_144800	MTSS1	metastasis suppressor 1	signaling
NM_019472	MYO10	myosin X	signaling
NM_008677	NCF4	neutrophil cytosolic factor 4, 40kDa	signaling
NM_019744	NCOA4	nuclear receptor coactivator 4	signaling
NM_022996	NDFIP1	Nedd4 family interacting protein 1	signaling
NM_010928	NOTCH2	Notch homolog 2 (Drosophila)	signaling
NM_008716	NOTCH3	Notch homolog 3 (Drosophila)	signaling
NM_021892	NPVF	neuropeptide VF precursor	signaling
NM_001081079	OGFRL1	opioid growth factor receptor-like 1	signaling
NM_146860	OLFR161	olfactory receptor 161	signaling
NM_001011814	OLFR524	olfactory receptor 524	signaling
NM_013887	OPN4	opsin 4	signaling
NM_013618	OR51B4	olfactory receptor, family 51, subfamily B, member 4	signaling
NM_146959	OR51M1	olfactory receptor, family 51, subfamily M, member 1	signaling
NM_146305	OR6K2	olfactory receptor, family 6, subfamily K, member 2	signaling
NM_001008497	P2RY14	purinergic receptor P2Y, G-protein coupled, 14	signaling
NM_008773	P2RY2	purinergic receptor P2Y, G-protein coupled, 2	signaling
NM_183408	PDE4A	phosphodiesterase 4A, cAMP-specific (phosphodiesterase E2 domain)	signaling
NM_172665	PDK1	pyruvate dehydrogenase kinase, isozyme 1	signaling
NM_008840	PIK3CD	phosphoinositide-3-kinase, catalytic, delta polypeptide	signaling
NM_177568	PLCB2	phospholipase C, beta 2	signaling
NM_013880	PLCL2	phospholipase C-like 2	signaling
NM_153804	PLEKHG3	pleckstrin homology domain containing, family G (with RhoGef domain)	signaling
NM_008881	PLXNA1	plexin A1	signaling
NM_144880	PPP2R5A	protein phosphatase 2, regulatory subunit B', alpha isoform	signaling

NM_008854	PRKACA	protein kinase, cAMP-dependent, catalytic, alpha	signaling
NM_011158	PRKAR2B	protein kinase, cAMP-dependent, regulatory, type II, beta	signaling
NM_011104	PRKCE	protein kinase C, epsilon	signaling
NM_021381	PROKR1	prokineticin receptor 1	signaling
NM_011196	PTGER3	prostaglandin E receptor 3 (subtype EP3)	signaling
NM_001136079	PTGER4	prostaglandin E receptor 4 (subtype EP4)	signaling
NM_172498	PTK2B	PTK2B protein tyrosine kinase 2 beta	signaling
NM_008975	PTP4A3	protein tyrosine phosphatase type IVA, member 3	signaling
NM_008976	PTPN14	protein tyrosine phosphatase, non-receptor type 14	signaling
NM_008977	PTPN2	protein tyrosine phosphatase, non-receptor type 2	signaling
NM_011212	PTPRE	protein tyrosine phosphatase, receptor type, E	signaling
NM_008982	PTPRJ	protein tyrosine phosphatase, receptor type, J	signaling
NM_181070	RAB18	RAB18, member RAS oncogene family	signaling
NM_009058	RALGDS	ral guanine nucleotide dissociation stimulator	signaling
NM_024457	RAP1B	RAP1B, member of RAS oncogene family	signaling
NM_001039086	RAPGEF1	Rap guanine nucleotide exchange factor (GEF) 1	signaling
NM_001099624	RAPGEF2	Rap guanine nucleotide exchange factor (GEF) 2	signaling
NM_053268	RASA2	RAS p21 protein activator 2	signaling
NM_178256	REPS2	RALBP1 associated Eps domain containing 2	signaling
NM_016846	RGL1	ral guanine nucleotide dissociation stimulator-like 1	signaling
NM_012026	RGNEF	Rho-guanine nucleotide exchange factor	signaling
NM_026418	RGS10	regulator of G-protein signaling 10	signaling
NM_173402	RGS12	regulator of G-protein signaling 12	signaling
NM_015812	RGS6	regulator of G-protein signaling 6	signaling
NM_175092	RHOF	ras homolog gene family, member F (in filopodia)	signaling
NM_001081105	RHOH	ras homolog gene family, member H	signaling
NM_177620	RIN3	Ras and Rab interactor 3	signaling
NM_009708	RND2	Rho family GTPase 2	signaling
NM_145852	ROPN1L	ropporin 1-like	signaling
NM_022982	RTN4R	reticulon 4 receptor	signaling
NM_177708	RTN4RL1	reticulon 4 receptor-like 1	signaling
NM_001042607	RYK	RYK receptor-like tyrosine kinase	signaling
NM_001081030	SBF1	SET binding factor 1	signaling
NM_011681	SCGB1A1	secretoglobin, family 1A, member 1 (uteroglobin)	signaling
NM_001113481	SEMA4F	sema domain, immunoglobulin domain (Ig), transmembrane domain	signaling
NM_028534	SMAP1	small ArfGAP 1	signaling
NM_133716	SMAP2	small ArfGAP2	signaling

NM_178710	SNF1LK2	salt-inducible kinase 2	signaling
NM_012031	SPAG1	sperm associated antigen 1	signaling
NM_145934	STAP2	signal transducing adaptor family member 2	signaling
NM_011491	STC2	stanniocalcin 2	signaling
NM_021537	STK25	serine/threonine kinase 25 (STE20 homolog, yeast)	signaling
NM_009311	TAC1	tachykinin, precursor 1	signaling
NM_010744	TMED1	transmembrane emp24 protein transport domain containing 1	signaling
NM_133739	TMEM123	transmembrane protein 123	signaling
NM_009426	TRH	thyrotropin-releasing hormone	signaling
NM_197996	TSPAN15	tetraspanin 15	signaling
NM_183180	TSPAN18	tetraspanin 18	signaling
NM_001128081	TSPAN32	tetraspanin 32	signaling
NM_011682	UTRN	utrophin	signaling
NM_011705	VRK1	vaccinia related kinase 1	signaling
NM_011738	YWHAH	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activator	signaling
NM_009137	CCL22	chemokine (C-C motif) ligand 22	signaling
NM_007657	CD9	CD9 molecule	signaling
NM_029083	DDIT4	DNA-damage-inducible transcript 4	signaling
NM_001122733	KIT	v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog	signaling
NM_013611	NODAL	nodal homolog (mouse)	signaling
NM_207525	OPA3	optic atrophy 3 (autosomal recessive, with chorea and spastic paraparesis)	signaling
NM_008772	P2RY1	purinergic receptor P2Y, G-protein coupled, 1	signaling
NM_001024955	PIK3R1	phosphoinositide-3-kinase, regulatory subunit 1 (alpha)	signaling
NM_029686	PKD1L2	polycystic kidney disease 1-like 2	signaling
NM_172285	PLCG2	phospholipase C, gamma 2 (phosphatidylinositol-specific)	signaling
NM_018797	PLXNC1	plexin C1	signaling
NM_053075	RHEB	Ras homolog enriched in brain	signaling
NM_133741	SNRK	SNF related kinase	signaling
NM_172734	STK38L (includes B	serine/threonine kinase 38 like	signaling
NM_011518	SYK	spleen tyrosine kinase	signaling
NM_053093	TAC4	tachykinin 4 (hemokinin)	signaling
NM_146173	TSPAN33	tetraspanin 33	signaling
NM_175638	WNK4	WNK lysine deficient protein kinase 4	signaling
NM_009912	CCR1	chemokine (C-C motif) receptor 1	signaling (G protein)
NM_007718	CCR1L1	chemokine (C-C motif) receptor 1-like 1	signaling (G protein)
NM_009917	CCR5	chemokine (C-C motif) receptor 5	signaling (G protein)
NM_007551	CXCR5	chemokine (C-X-C motif) receptor 5	signaling (G protein)

NM_010045	DARC	Duffy blood group, chemokine receptor	signaling (G protein)
NM_010169	F2R	coagulation factor II (thrombin) receptor	signaling (G protein)
NM_010170	F2RL2	coagulation factor II (thrombin) receptor-like 2	signaling (G protein)
NM_177798	FRS2	fibroblast growth factor receptor substrate 2	signaling (G protein)
NM_010302	GNA12	guanine nucleotide binding protein (G protein) alpha 12	signaling (G protein)
NM_008138	GNAI2	guanine nucleotide binding protein (G protein), alpha inhibiting acti	signaling (G protein)
NM_008559	MC1R	melanocortin 1 receptor (alpha melanocyte stimulating hormone re	signaling (G protein)
NM_008561	MC3R	melanocortin 3 receptor	signaling (G protein)
NM_173764	TAPT1	transmembrane anterior posterior transformation 1	signaling (G protein)
NM_145396	TBL3	transducin (beta)-like 3	signaling (G protein)
NM_133202	TRHR2	thyrotropin releasing hormone receptor 2	signaling (G protein)
NM_009631	ADORA3	adenosine A3 receptor	signaling (G-protein)
NM_007417	ADRA2A	adrenergic, alpha-2A-, receptor	signaling (G-protein)
NM_007420	ADRB2	adrenergic, beta-2-, receptor, surface	signaling (G-protein)
NM_198111	AKAP6	A kinase (PRKA) anchor protein 6	signaling (G-protein)
NM_177231	ARRB1	arrestin, beta 1	signaling (G-protein)
NM_009913	CCR9	chemokine (C-C motif) receptor 9	signaling (G-protein)
NM_017466	CCRL2	chemokine (C-C motif) receptor-like 2	signaling (G-protein)
NM_001112697	CHRM1	cholinergic receptor, muscarinic 1	signaling (G-protein)
NM_009895	CISH	cytokine inducible SH2-containing protein	signaling (G-protein)
NM_007726	CNR1	cannabinoid receptor 1 (brain)	signaling (G-protein)
NM_007762	CRHR1	corticotropin releasing hormone receptor 1	signaling (G-protein)
NM_007722	CXCR7	chemokine (C-X-C motif) receptor 7	signaling (G-protein)
NM_172812	HTR2A	5-hydroxytryptamine (serotonin) receptor 2A	signaling (G-protein)
NM_008313	HTR4	5-hydroxytryptamine (serotonin) receptor 4	signaling (G-protein)
NM_010483	HTR5B	5-hydroxytryptamine (serotonin) receptor 5B	signaling (G-protein)
NM_021358	HTR6	5-hydroxytryptamine (serotonin) receptor 6	signaling (G-protein)
NM_001081141	GABBR2	gamma-aminobutyric acid (GABA) B receptor, 2	signaling (G-protein)
NM_008082	GALR1	galanin receptor 1	signaling (G-protein)
NM_001003685	GHRHR	growth hormone releasing hormone receptor	signaling (G-protein)
NM_018771	GIPC1	GIPC PDZ domain containing family, member 1	signaling (G-protein)
NR_003258	GNAS	GNAS complex locus	signaling (G-protein)
NM_008141	GNAT2	guanine nucleotide binding protein (G protein), alpha transducing a	signaling (G-protein)
NM_010315	GNG2	guanine nucleotide binding protein (G protein), gamma 2	signaling (G-protein)
NM_133776	GPR110	G protein-coupled receptor 110	signaling (G-protein)
NM_001033468	GPR114	G protein-coupled receptor 114	signaling (G-protein)
NM_001024138	GPR139	G protein-coupled receptor 139	signaling (G-protein)

NM_030258	GPR146	G protein-coupled receptor 146	signaling (G-protein)
NM_178406	GPR153	G protein-coupled receptor 153	signaling (G-protein)
NM_001080707	GPR155	G protein-coupled receptor 155	signaling (G-protein)
NM_177366	GPR157	G protein-coupled receptor 157	signaling (G-protein)
NM_173398	GPR171	G protein-coupled receptor 171	signaling (G-protein)
NM_011906	GPR175	G protein-coupled receptor 175	signaling (G-protein)
NM_134438	GPR37L1	G protein-coupled receptor 37 like 1	signaling (G-protein)
NM_018882	GPR56	G protein-coupled receptor 56	signaling (G-protein)
NM_199058	GPR6	G protein-coupled receptor 6	signaling (G-protein)
NM_001079848	GPR64	G protein-coupled receptor 64	signaling (G-protein)
NM_175493	GPR68	G protein-coupled receptor 68	signaling (G-protein)
NM_173036	GPR97	G protein-coupled receptor 97	signaling (G-protein)
NM_153410	GPSM1	G-protein signaling modulator 1 (AGS3-like, C. elegans)	signaling (G-protein)
NM_029522	GPSM2	G-protein signaling modulator 2 (AGS3-like, C. elegans)	signaling (G-protein)
NM_023168	GRINA	glutamate receptor, ionotropic, N-methyl D-aspartate-associated p	signaling (G-protein)
NM_013818	GTPBP1	GTP binding protein 1	signaling (G-protein)
NM_019581	GTPBP2	GTP binding protein 2	signaling (G-protein)
NM_027000	GTPBP4	GTP binding protein 4	signaling (G-protein)
NM_178376	RRAGA	Ras-related GTP binding A	signaling (GTP binding)
NM_001025377	ARHGAP15	Rho GTPase activating protein 15	signaling (GTPase)
NM_144529	ARHGAP17	Rho GTPase activating protein 17	signaling (GTPase)
NM_001128084	ARHGAP21	Rho GTPase activating protein 21	signaling (GTPase)
NM_001037727	ARHGAP25	Rho GTPase activating protein 25	signaling (GTPase)
NM_178754	ARHGAP6	Rho GTPase activating protein 6	signaling (GTPase)
NM_001112723	ARHGEF10L	Rho guanine nucleotide exchange factor (GEF) 10-like	signaling (GTPase)
NM_027144	ARHGEF12	Rho guanine nucleotide exchange factor (GEF) 12	signaling (GTPase)
NM_019718	ARL3	ADP-ribosylation factor-like 3	signaling (GTPase)
NM_007487	ARL4A	ADP-ribosylation factor-like 4A	signaling (GTPase)
NM_025768	GRTP1	growth hormone regulated TBC protein 1	signaling (GTPase)
NM_018738	IGTP	interferon gamma induced GTPase	signaling (GTPase)
NM_001039363	TSC2	tuberous sclerosis 2	signaling (GTPase)
NM_001110498	IFNAR2	interferon (alpha, beta and omega) receptor 2	signaling (JAK-STAT)
NM_008337	IFNG	interferon, gamma	signaling (JAK-STAT)
NM_008338	IFNGR2	interferon gamma receptor 2 (interferon gamma transducer 1)	signaling (JAK-STAT)
NM_008348	IL10RA	interleukin 10 receptor, alpha	signaling (JAK-STAT)
NM_008349	IL10RB	interleukin 10 receptor, beta	signaling (JAK-STAT)
NM_031168	IL6	interleukin 6 (interferon, beta 2)	signaling (JAK-STAT)

NM_001134458	IL9R	interleukin 9 receptor	signaling (JAK-STAT)
NM_146145	JAK1	Janus kinase 1 (a protein tyrosine kinase)	signaling (JAK)
NM_009896	SOCS1	suppressor of cytokine signaling 1	signaling (JAK/Stat)
NM_001081308	TAOK3	TAO kinase 3	signaling (JNK)
NM_016693	MAP3K6	mitogen-activated protein kinase kinase kinase 6	signaling (MAP and Jun kinase)
NM_016961	MAPK9	mitogen-activated protein kinase 9	signaling (MAP and Jun kinase)
NM_011896	SPRY1	sprouty homolog 1, antagonist of FGF signaling (Drosophila)	signaling (MAP kinase, JAK/Stat)
NM_011945	MAP3K1	mitogen-activated protein kinase kinase kinase 1	signaling (MAP kinase, NFkB))
NM_023138	MAP2K2	mitogen-activated protein kinase kinase 2	signaling (MAP kinase, Ras)
NM_011951	MAPK14	mitogen-activated protein kinase 14	signaling (MAP kinase, Ras)
NM_008551	MAPKAPK2	mitogen-activated protein kinase-activated protein kinase 2	signaling (MAP kinase, Ras)
NM_178907	MAPKAPK3	mitogen-activated protein kinase-activated protein kinase 3	signaling (MAP kinase, Ras)
NM_013642	DUSP1	dual specificity phosphatase 1	signaling (MAP kinase)
NM_176933	DUSP4	dual specificity phosphatase 4	signaling (MAP kinase)
NM_001085390	DUSP5	dual specificity phosphatase 5	signaling (MAP kinase)
NM_008748	DUSP8	dual specificity phosphatase 8	signaling (MAP kinase)
NM_008006	FGF2	fibroblast growth factor 2 (basic)	signaling (MAP kinase)
NM_008928	MAP2K3	mitogen-activated protein kinase kinase 3	signaling (MAP kinase)
NM_011947	MAP3K3	mitogen-activated protein kinase kinase kinase 3	signaling (MAP kinase)
NM_025609	MAP3K7IP1	mitogen-activated protein kinase kinase kinase 7 interacting protein	signaling (MAP kinase)
NM_015806	MAPK6	mitogen-activated protein kinase 6	signaling (MAP kinase)
NM_019920	MAPKSP1	MAPK scaffold protein 1	signaling (MAP kinase)
NM_033523	SPRED2	sprouty-related, EVH1 domain containing 2	signaling (MAP kinase)
NM_145465	STK24	serine/threonine kinase 24 (STE20 homolog, yeast)	signaling (MAP kinase)
NM_016866	STK39	serine threonine kinase 39 (STE20/SPS1 homolog, yeast)	signaling (MAP kinase)
NM_031199	TGFA	transforming growth factor, alpha	signaling (MAP kinase)
NM_021423	SHANK3	SH3 and multiple ankyrin repeat domains 3	signaling (MAPK)
NM_019786	TBK1	TANK-binding kinase 1	signaling (NFkB)
NM_145133	TIFA	TRAF-interacting protein with forkhead-associated domain	signaling (NFkB)
NM_009423	TRAF4	TNF receptor-associated factor 4	signaling (NFkB)
NM_011633	TRAF5	TNF receptor-associated factor 5	signaling (NFkB)
NM_180662	TRAPPC9	trafficking protein particle complex 9	signaling (NFkB)
NM_134023	TBC1D10A	TBC1 domain family, member 10A	signaling (Rab GTPase activity)
NM_025706	TBC1D15	TBC1 domain family, member 15	signaling (Rab GTPase activity)
NM_173186	TBC1D24	TBC1 domain family, member 24	signaling (Rab GTPase activity)
NM_194334	TBC1D2B	TBC1 domain family, member 2B	signaling (Rab GTPase activity)
NM_025935	TBC1D7	TBC1 domain family, member 7	signaling (Rab GTPase activity)

NM_001111304	TBC1D9	TBC1 domain family, member 9 (with GRAM domain)	signaling (Rab GTPase activity)
NM_134091	SGSM3	small G protein signaling modulator 3	signaling (Rab GTPase)
NM_001081396	WDR67	WD repeat domain 67	signaling (Rab GTPase)
NM_013716	G3BP1	GTPase activating protein (SH3 domain) binding protein 1	signaling (Ras protein)
NM_010815	GRAP2	GRB2-related adaptor protein 2	signaling (Ras protein)
NM_008163	GRB2	growth factor receptor-bound protein 2	signaling (Ras protein)
NM_021284	KRAS	v-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog	signaling (Ras protein)
NM_013571	KSR1	kinase suppressor of ras 1	signaling (Ras protein)
NM_010689	LAT	linker for activation of T cells	signaling (Ras protein)
NM_009105	RSU1	Ras suppressor protein 1	signaling (ras)
NM_001002267	TMEM158	transmembrane protein 158	signaling (ras)
NM_009384	TIAM1	T-cell lymphoma invasion and metastasis 1	signaling (Rho GTPase)
NM_001081302	TRIO	triple functional domain (PTPRF interacting)	signaling (Rho GTPase)
NM_026257	UBXN11	UBX domain protein 11	signaling (Rho GTPase)
NM_001113246	CHN1 (includes EC	chimerin (chimaerin) 1	signaling (Rho GTPases)
NM_178683	DEPDC1B	DEP domain containing 1B	signaling (Rho GTPases)
NM_008385	INPP5B	inositol polyphosphate-5-phosphatase, 75kDa	signaling (Rho GTPases)
NM_001110276	ITSN1	intersectin 1 (SH3 domain protein)	signaling (Rho protein)
NM_011691	VAV1	vav 1 guanine nucleotide exchange factor	signaling (Rho, GTP binding proteins)
NM_029332	AKAP13	A kinase (PRKA) anchor protein 13	signaling (Rho)
NM_001001602	DAB2IP	DAB2 interacting protein	signaling (small GTPase)
NM_001015046	GARNL4	GTPase activating Rap/RanGAP domain-like 4	signaling (small GTPase)
NM_010276	GEM	GTP binding protein overexpressed in skeletal muscle	signaling (small GTPase)
NM_145541	HCG 1757335	hCG1757335	signaling (small GTPase)
NM_027711	IQGAP2	IQ motif containing GTPase activating protein 2	signaling (small GTPase)
NM_011379	SIPA1	signal-induced proliferation-associated 1	signaling (small GTPase)
NM_172579	SIPA1L1	signal-induced proliferation-associated 1 like 1	signaling (small GTPase)
NM_016788	TNK2	tyrosine kinase, non-receptor, 2	signaling (small GTPase)
NM_007395	ACVR1B	activin A receptor, type IB	signaling (TGF beta)
NM_009612	ACVRL1	activin A receptor type II-like 1	signaling (TGF beta)
NM_008107	GDF1	growth differentiation factor 1	signaling (TGF beta)
NM_153587	RPS6KA5	ribosomal protein S6 kinase, 90kDa, polypeptide 5	signaling (TGF beta)
NM_016769	SMAD3	SMAD family member 3	signaling (TGF beta)
NM_008542	SMAD6	SMAD family member 6	signaling (TGF beta)
NM_001042660	SMAD7	SMAD family member 7	signaling (TGF beta)
NM_011578	TGFBR3	transforming growth factor, beta receptor III	signaling (TGF beta)
NM_019919	LTBP1	latent transforming growth factor beta binding protein 1	signaling (TGFbeta)

NM_011577	TGFB1	transforming growth factor, beta 1	signaling (TGFbeta)
NM_009371	TGFB2	transforming growth factor, beta receptor II (70/80kDa)	signaling (TGFbeta)
NM_178931	TNFRSF14	tumor necrosis factor receptor superfamily, member 14 (herpesvirus)	signaling (TNF)
NM_001034097	TNFSF12-TNFSF13	TNFSF12-TNFSF13 readthrough transcript	signaling (TNF)
NM_010228	FLT1	fms-related tyrosine kinase 1 (vascular endothelial growth factor/v	signaling (VEGF)
NM_010612	KDR	kinase insert domain receptor (a type III receptor tyrosine kinase)	signaling (VEGF)
NM_025367	SPHK1	sphingosine kinase 1	signaling (VEGF)
NM_001025250	VEGFA	vascular endothelial growth factor A	signaling (VEGF)
NM_009771	BTRC	beta-transducin repeat containing	signaling (Wnt)
NM_008043	FRAT1	frequently rearranged in advanced T-cell lymphomas	signaling (Wnt)
NM_001040689	RSPO4	R-spondin family, member 4	signaling (wnt)
NM_177545	VANG1	vang-like 1 (van gogh, Drosophila)	signaling (Wnt)
NM_009521	WNT3	wingless-type MMTV integration site family, member 3	signaling (Wnt)
NM_009522	WNT3A	wingless-type MMTV integration site family, member 3A	signaling (Wnt)
NM_009259	SPN	sialophorin	signaling, immune function
NM_019508	IL17B	interleukin 17B	signaling, immune response
NM_008362	IL1R1	interleukin 1 receptor, type I	signaling, immune response
NM_010555	IL1R2	interleukin 1 receptor, type II	signaling, immune response
NM_008364	IL1RAP	interleukin 1 receptor accessory protein	signaling, immune response
NM_133193	IL1RL2	interleukin 1 receptor-like 2	signaling, immune response
NM_010696	LCP2	lymphocyte cytosolic protein 2 (SH2 domain containing leukocyte	signaling, immune response
NM_001039537	LIF	leukemia inhibitory factor (cholinergic differentiation factor)	signaling, immune response
NM_028773	SASH3	SAM and SH3 domain containing 3	signaling, immune response
NM_021343	SPATA5	spermatogenesis associated 5	spermatogenesis
NM_028852	SPATC1	spermatogenesis and centriole associated 1	spermatogenesis
NM_007570	BTG2	BTG family, member 2	transcription
NM_019726	GPS2	G protein pathway suppressor 2	transcription
NM_025541	ASF1A	ASF1 anti-silencing function 1 homolog A (S. cerevisiae)	transcription (chromatin modification)
NM_016812	BANP	BTG3 associated nuclear protein	transcription (chromatin modification)
NM_021531	CARM1	coactivator-associated arginine methyltransferase 1	transcription (chromatin modification)
NM_028763	CBX6	chromobox homolog 6	transcription (chromatin modification)
NM_144811	CBX7	chromobox homolog 7	transcription (chromatin modification)
NM_009881	CDYL	chromodomain protein, Y-like	transcription (chromatin modification)
NM_146019	CHD3	chromodomain helicase DNA binding protein 3	transcription (chromatin modification)
NM_058212	DPF3	D4, zinc and double PHD fingers, family 3	transcription (chromatin modification)
NM_145508	DYRK3	dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 3	transcription (chromatin modification)
NM_001109686	EHMT1	euchromatic histone-lysine N-methyltransferase 1	transcription (chromatin modification)

NM_007970	EZH1	enhancer of zeste homolog 1 (Drosophila)	transcription (chromatin modification)
NM_144919	HDAC11	histone deacetylase 11	transcription (chromatin modification)
NM_001033430	JHDM1D	jumonji C domain containing histone demethylase 1 homolog D (S	transcription (chromatin modification)
NM_001038695	JMJD1A	jumonji domain containing 1A	transcription (chromatin modification)
NM_001081256	JMJD1B	jumonji domain containing 1B	transcription (chromatin modification)
NM_029842	JMJD5	jumonji domain containing 5	transcription (chromatin modification)
NM_026796	SMYD2	SET and MYND domain containing 2	transcription (chromatin modification)
NM_001081362	TRRAP	transformation/transcription domain-associated protein	transcription (chromatin modification)
NM_001001735	WHSC1L1	Wolf-Hirschhorn syndrome candidate 1-like 1	transcription (chromatin modification)
NM_019673	ACTL6A	actin-like 6A	transcription (chromatin remodeling)
NM_001085355	ARID1B	AT rich interactive domain 1B (SWI1-like)	transcription (chromatin remodeling)
NM_054078	BAZ2A	bromodomain adjacent to zinc finger domain, 2A	transcription (chromatin remodeling)
NM_053068	CHRA1	chromatin accessibility complex 1	transcription (chromatin remodeling)
NM_020004	KAT2A	K(lysine) acetyltransferase 2A	transcription (chromatin remodeling)
NM_020005	KAT2B	K(lysine) acetyltransferase 2B	transcription (chromatin remodeling)
NM_019390	LMNA	lamin A/C	transcription (chromatin remodeling)
NM_010773	MBD2	methyl-CpG binding domain protein 2	transcription (chromatin remodeling)
NM_009211	SMARCC1	SWI/SNF related, matrix associated, actin dependent regulator of	transcription (chromatin remodeling)
NM_010238	BRD2	bromodomain containing 2	transcription (chromatin)
NM_012047	BRD7	bromodomain containing 7	transcription (chromatin)
NM_009410	TOP3A	topoisomerase (DNA) III alpha	transcription (DNA topological change)
NM_011624	TOP3B	topoisomerase (DNA) III beta	transcription (DNA topological change)
NM_170777	ELOF1	elongation factor 1 homolog (S. cerevisiae)	transcription (elongation)
NM_009089	POLR2A	polymerase (RNA) II (DNA directed) polypeptide A, 220kDa	transcription (elongation)
NM_030229	POLR3H	polymerase (RNA) III (DNA directed) polypeptide H (22.9kD)	transcription (elongation)
NM_009296	SUPT4H1	suppressor of Ty 4 homolog 1 (S. cerevisiae)	transcription (elongation)
NM_001080706	BTAF1	BTAF1 RNA polymerase II, B-TFIID transcription factor-associated	transcription (initiation)
NM_138953	ELL2	elongation factor, RNA polymerase II, 2	transcription (initiation)
NM_031391	GTF2A1	general transcription factor IIA, 1, 19/37kDa	transcription (initiation)
NM_133801	GTF2F1	general transcription factor IIF, polypeptide 1, 74kDa	transcription (initiation)
NM_172977	GTF3C4	general transcription factor IIIC, polypeptide 4, 90kDa	transcription (initiation)
NM_148928	GTF3C5	general transcription factor IIIC, polypeptide 5, 63kDa	transcription (initiation)
NM_026113	GTF3C6	general transcription factor IIIC, polypeptide 6, alpha 35kDa	transcription (initiation)
NM_009645	AICDA	activation-induced cytidine deaminase	transcription (mRNA processing)
NM_138669	EIF4A3 (includes E	eukaryotic translation initiation factor 4A, isoform 3	transcription (mRNA processing)
NM_182650	HNRNPA2B1	heterogeneous nuclear ribonucleoprotein A2/B1	transcription (mRNA processing)
NM_133834	HNRNPF	heterogeneous nuclear ribonucleoprotein F	transcription (mRNA processing)

NM_021510	HNRNPH1	heterogeneous nuclear ribonucleoprotein H1 (H)	transcription (mRNA processing)
NM_011112	PAPOLA	poly(A) polymerase alpha	transcription (mRNA processing)
NM_001081118	PHRF1	PHD and ring finger domains 1	transcription (mRNA processing)
NM_026045	PRPF18	PRP18 pre-mRNA processing factor 18 homolog (S. cerevisiae)	transcription (mRNA processing)
NM_013830	PRPF4B	PRP4 pre-mRNA processing factor 4 homolog B (yeast)	transcription (mRNA processing)
NM_008956	PTBP1	polypyrimidine tract binding protein 1	transcription (mRNA processing)
NM_001139511	RALY	RNA binding protein, autoantigenic (hnRNP-associated with lethal	transcription (mRNA processing)
NM_018765	WBP4	WW domain binding protein 4 (formin binding protein 21)	transcription (mRNA processing)
NM_001080981	DDX23	DEAD (Asp-Glu-Ala-Asp) box polypeptide 23	transcription (mRNA splicing)
NM_007840	DDX5	DEAD (Asp-Glu-Ala-Asp) box polypeptide 5	transcription (mRNA splicing)
NM_144831	DHX8	DEAH (Asp-Glu-Ala-His) box polypeptide 8	transcription (mRNA splicing)
NM_139149	FUS	fusion (involved in t(12;16) in malignant liposarcoma)	transcription (mRNA splicing)
NM_018739	RP9	retinitis pigmentosa 9 (autosomal dominant)	transcription (mRNA splicing)
NM_026175	SF3A1	splicing factor 3a, subunit 1, 120kDa	transcription (mRNA splicing)
NM_175102	SF3B5	splicing factor 3b, subunit 5, 10kDa	transcription (mRNA splicing)
NM_023603	SFPQ	splicing factor proline/glutamine-rich (polypyrimidine tract binding p	transcription (mRNA splicing)
NM_016680	SFRS16	splicing factor, arginine/serine-rich 16	transcription (mRNA splicing)
NM_011358	SFRS2	splicing factor, arginine/serine-rich 2	transcription (mRNA splicing)
NM_013663	SFRS3	splicing factor, arginine/serine-rich 3	transcription (mRNA splicing)
NM_172429	SMNDC1	survival motor neuron domain containing 1	transcription (mRNA splicing)
NM_021336	SNRPA1	small nuclear ribonucleoprotein polypeptide A'	transcription (mRNA splicing)
NM_016799	SRRM1	serine/arginine repetitive matrix 1	transcription (mRNA splicing)
NM_001038608	TXNL4A (includes	thioredoxin-like 4A	transcription (mRNA splicing)
NM_133671	U2AF2 (includes E	U2 small nuclear RNA auxiliary factor 2	transcription (mRNA splicing)
NM_001113564	SERBP1	SERPINE1 mRNA binding protein 1	transcription (mRNA stability)
NM_026252	CPEB4	cytoplasmic polyadenylation element binding protein 4	transcription (polyadenylation)
NM_010678	AFF3	AF4/FMR2 family, member 3	transcription (regulation)
NM_026375	AHCTF1	AT hook containing transcription factor 1	transcription (regulation)
NM_146155	AHDC1	AT hook, DNA binding motif, containing 1	transcription (regulation)
NM_016666	AIP	aryl hydrocarbon receptor interacting protein	transcription (regulation)
NM_001081379	ANKRD11	ankyrin repeat domain 11	transcription (regulation)
NM_009124	ATXN1	ataxin 1	transcription (regulation)
NM_007520	BACH1	BTB and CNC homology 1, basic leucine zipper transcription facto	transcription (regulation)
NM_001045523	BAHD1	bromo adjacent homology domain containing 1	transcription (regulation)
NM_016707	BCL11A	B-cell CLL/lymphoma 11A (zinc finger protein)	transcription (regulation)
NM_175045	BCOR	BCL6 co-repressor	transcription (regulation)
NM_001081315	BRPF3	bromodomain and PHD finger containing, 3	transcription (regulation)

NM_007569	BTG1	B-cell translocation gene 1, anti-proliferative	transcription (regulation)
NM_025824	BZW1	basic leucine zipper and W2 domains 1	transcription (regulation)
NM_001081557	CAMTA1 (includes	calmodulin binding transcription activator 1	transcription (regulation)
NM_027994	CAND1	cullin-associated and neddylation-dissociated 1	transcription (regulation)
NM_009824	CBFA2T3	core-binding factor, runt domain, alpha subunit 2; translocated to, 3	transcription (regulation)
NM_009834	CCRN4L	CCR4 carbon catabolite repression 4-like (S. cerevisiae)	transcription (regulation)
NM_198164	CDC2L6	cell division cycle 2-like 6 (CDK8-like)	transcription (regulation)
NM_207131	CEBPE	CCAAT/enhancer binding protein (C/EBP), epsilon	transcription (regulation)
NM_010828	CITED2	Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-term	transcription (regulation)
NM_019563	CITED4	Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-term	transcription (regulation)
NM_001037848	CNOT2	CCR4-NOT transcription complex, subunit 2	transcription (regulation)
NM_133850	COMM7	COMM domain containing 7	transcription (regulation)
NM_011957	CREB3L1	cAMP responsive element binding protein 3-like 1	transcription (regulation)
NM_011804	CREG1	cellular repressor of E1A-stimulated genes 1	transcription (regulation)
NM_001110854	CREM	cAMP responsive element modulator	transcription (regulation)
NM_173863	CRTC3	CREB regulated transcription coactivator 3	transcription (regulation)
NM_001113333	CRY2	cryptochrome 2 (photolyase-like)	transcription (regulation)
NM_011733	CSDA	cold shock domain protein A	transcription (regulation)
NM_013502	CTBP1	C-terminal binding protein 1	transcription (regulation)
NM_009986	CUX1	cut-like homeobox 1	transcription (regulation)
NM_007837	DDIT3	DNA-damage-inducible transcript 3	transcription (regulation)
NM_175647	DMRTA1	DMRT-like family A1	transcription (regulation)
NM_013874	DPF1	D4, zinc and double PHD fingers family 1	transcription (regulation)
NM_177733	E2F2	E2F transcription factor 2	transcription (regulation)
NM_148952	E2F4	E2F transcription factor 4, p107/p130-binding	transcription (regulation)
NM_028932	EAF1	ELL associated factor 1	transcription (regulation)
NM_025456	EAPP	E2F-associated phosphoprotein	transcription (regulation)
NM_007913	EGR1	early growth response 1	transcription (regulation)
NM_010155	ERF	Ets2 repressor factor	transcription (regulation)
NM_133659	ERG	v-ets erythroblastosis virus E26 oncogene homolog (avian)	transcription (regulation)
NM_011809	ETS2	v-ets erythroblastosis virus E26 oncogene homolog 2 (avian)	transcription (regulation)
NM_007961	ETV6	ets variant 6	transcription (regulation)
NM_001003953	FBXL10	F-box and leucine-rich repeat protein 10	transcription (regulation)
NM_010211	FHL1	four and a half LIM domains 1	transcription (regulation)
NM_008026	FLI1	Friend leukemia virus integration 1	transcription (regulation)
NM_010234	FOS	v-fos FBJ murine osteosarcoma viral oncogene homolog	transcription (regulation)
NM_008036	FOSB	FBJ murine osteosarcoma viral oncogene homolog B	transcription (regulation)

NM_008023	FOXB2	forkhead box B2	transcription (regulation)
NM_008593	FOXD2	forkhead box D2	transcription (regulation)
NM_019740	FOXO3	forkhead box O3	transcription (regulation)
NM_177136	FRYL	FRY-like	transcription (regulation)
NM_008089	GATA1	GATA binding protein 1 (globin transcription factor 1)	transcription (regulation)
NM_008090	GATA2	GATA binding protein 2	transcription (regulation)
NM_001113345	GATAD2A	GATA zinc finger domain containing 2A	transcription (regulation)
NM_010278	GFI1	growth factor independent 1 transcription repressor	transcription (regulation)
NM_008114	GFI1B	growth factor independent 1B transcription repressor	transcription (regulation)
NM_147221	GLIS1	GLIS family zinc finger 1	transcription (regulation)
NM_001122963	GPBP1	GC-rich promoter binding protein 1	transcription (regulation)
NM_008213	HAND1	heart and neural crest derivatives expressed 1	transcription (regulation)
NM_010402	HAND2	heart and neural crest derivatives expressed 2	transcription (regulation)
NM_177993	HBP1	HMG-box transcription factor 1	transcription (regulation)
NM_008235	HES1	hairy and enhancer of split 1, (Drosophila)	transcription (regulation)
NM_008245	HHEX	hematopoietically expressed homeobox	transcription (regulation)
NM_178922	HIC2	hypermethylated in cancer 2	transcription (regulation)
NM_010432	HIPK1	homeodomain interacting protein kinase 1	transcription (regulation)
NM_001136065	HIPK2	homeodomain interacting protein kinase 2	transcription (regulation)
NM_007772	HIVEP1	human immunodeficiency virus type I enhancer binding protein 1	transcription (regulation)
NM_008250	HLX	H2.0-like homeobox	transcription (regulation)
NM_010441	HMGA2	high mobility group AT-hook 2	transcription (regulation)
NM_013920	HNF4G	hepatocyte nuclear factor 4, gamma	transcription (regulation)
NM_010448	HNRNPAB	heterogeneous nuclear ribonucleoprotein A/B	transcription (regulation)
NM_175606	HOPX	HOP homeobox	transcription (regulation)
NM_024219	HSBP1	heat shock factor binding protein 1	transcription (regulation)
NM_013562	IFRD1	interferon-related developmental regulator 1	transcription (regulation)
NM_001025597	IKZF1	IKAROS family zinc finger 1 (Ikaros)	transcription (regulation)
NM_011770	IKZF2	IKAROS family zinc finger 2 (Helios)	transcription (regulation)
NM_011919	ING1	inhibitor of growth family, member 1	transcription (regulation)
NM_016889	INSM1	insulinoma-associated 1	transcription (regulation)
NM_010574	IRX2	iroquois homeobox 2	transcription (regulation)
NM_001039511	IVNS1ABP	influenza virus NS1A binding protein	transcription (regulation)
NM_021878	JARID2	jumonji, AT rich interactive domain 2	transcription (regulation)
NM_010591	JUN	jun oncogene	transcription (regulation)
NM_010592	JUND	jun D proto-oncogene	transcription (regulation)
NM_010635	KLF1	Kruppel-like factor 1 (erythroid)	transcription (regulation)

NM_013692	KLF10	Kruppel-like factor 10	transcription (regulation)
NM_178357	KLF11	Kruppel-like factor 11	transcription (regulation)
NM_010636	KLF12	Kruppel-like factor 12	transcription (regulation)
NM_021366	KLF13	Kruppel-like factor 13	transcription (regulation)
NM_078477	KLF16	Kruppel-like factor 16	transcription (regulation)
NM_009769	KLF5	Kruppel-like factor 5 (intestinal)	transcription (regulation)
NM_011803	KLF6	Kruppel-like factor 6	transcription (regulation)
NM_033563	KLF7	Kruppel-like factor 7 (ubiquitous)	transcription (regulation)
NM_010638	KLF9	Kruppel-like factor 9	transcription (regulation)
NM_029789	LASS2	LAG1 homolog, ceramide synthase 2	transcription (regulation)
NM_172154	LCOR	ligand dependent nuclear receptor corepressor	transcription (regulation)
NM_010697	LDB1	LIM domain binding 1	transcription (regulation)
NM_001039522	LEO1	Leo1, Paf1/RNA polymerase II complex component, homolog (S. d	transcription (regulation)
NM_172397	LIMD2	LIM domain containing 2	transcription (regulation)
NM_001115010	LIN54	lin-54 homolog (C. elegans)	transcription (regulation)
NM_001142337	LMO2	LIM domain only 2 (rhombotin-like 1)	transcription (regulation)
NM_028233	LRPPRC	leucine-rich PPR-motif containing	transcription (regulation)
NM_008535	LYL1	lymphoblastic leukemia derived sequence 1	transcription (regulation)
NM_199364	LZTS1	leucine zipper, putative tumor suppressor 1	transcription (regulation)
NM_008558	MAX	MYC associated factor X	transcription (regulation)
NM_008565	MCM4	minichromosome maintenance complex component 4	transcription (regulation)
NM_172424	MED13L	mediator complex subunit 13-like	transcription (regulation)
NM_027213	MED6	mediator complex subunit 6	transcription (regulation)
NM_134250	MED7 (includes EC	mediator complex subunit 7	transcription (regulation)
NM_025282	MEF2C	myocyte enhancer factor 2C	transcription (regulation)
NM_026830	RREB1	ras responsive element binding protein 1	transcription (regulation)
NM_009821	RUNX1	runt-related transcription factor 1	transcription (regulation)
NM_011305	RXRA	retinoid X receptor, alpha	transcription (regulation)
NM_009107	RXRG	retinoid X receptor, gamma	transcription (regulation)
NM_183426	SBNO2	strawberry notch homolog 2 (Drosophila)	transcription (regulation)
NM_130893	SCRT1	scratch homolog 1, zinc finger protein (Drosophila)	transcription (regulation)
NM_018820	SERTAD1	SERTA domain containing 1	transcription (regulation)
NM_001038625	SERTAD2	SERTA domain containing 2	transcription (regulation)
NM_001113559	SOX5 (includes EC	SRY (sex determining region Y)-box 5	transcription (regulation)
NM_011445	SOX6	SRY (sex determining region Y)-box 6	transcription (regulation)
NM_011355	SPI1	spleen focus forming virus (SFFV) proviral integration oncogene s	transcription (regulation)
NM_030237	SPZ1	spermatogenic leucine zipper 1	transcription (regulation)

NM_033218	SREBF2	sterol regulatory element binding transcription factor 2	transcription (regulation)
NM_023672	SSBP3	single stranded DNA binding protein 3	transcription (regulation)
NM_178652	SUPT3H (includes	suppressor of Ty 3 homolog (S. cerevisiae)	transcription (regulation)
NM_146177	SUV420H2	suppressor of variegation 4-20 homolog 2 (Drosophila)	transcription (regulation)
NM_011527	TAL1	T-cell acute lymphocytic leukemia 1	transcription (regulation)
NM_009319	TARBP2	TAR (HIV-1) RNA binding protein 2	transcription (regulation)
NM_032005	TBX19	T-box 19	transcription (regulation)
NM_025804	TCF25	transcription factor 25 (basic helix-loop-helix)	transcription (regulation)
NM_011548	TCF3	transcription factor 3 (E2A immunoglobulin enhancer binding factor)	transcription (regulation)
NM_009335	TFAP2C	transcription factor AP-2 gamma (activating enhancer binding protein)	transcription (regulation)
NM_178667	TFDP2	transcription factor Dp-2 (E2F dimerization partner 2)	transcription (regulation)
NM_009372	TGIF1	TGFB-induced factor homeobox 1	transcription (regulation)
NM_146153	THRAP3	thyroid hormone receptor associated protein 3	transcription (regulation)
NM_198634	TIGD3 (includes E	tigger transposable element derived 3	transcription (regulation)
NM_011605	TMPO	thymopoietin	transcription (regulation)
NM_009427	TOB1	transducer of ERBB2, 1	transcription (regulation)
NM_001098799	TOX2	TOX high mobility group box family member 2	transcription (regulation)
NM_011280	TRIM10	tripartite motif-containing 10	transcription (regulation)
NM_009546	TRIM25	tripartite motif-containing 25	transcription (regulation)
NM_009366	TSC22D1	TSC22 domain family, member 1	transcription (regulation)
NM_010286	TSC22D3	TSC22 domain family, member 3	transcription (regulation)
NM_054040	TULP4	tubby like protein 4	transcription (regulation)
NM_172253	TWISTNB	TWIST neighbor	transcription (regulation)
NM_001009935	TXNIP	thioredoxin interacting protein	transcription (regulation)
NM_001083319	UBP1	upstream binding protein 1 (LBP-1a)	transcription (regulation)
NM_023054	UTP3	UTP3, small subunit (SSU) processome component, homolog (S.	transcription (regulation)
NM_007701	VSX2	visual system homeobox 2	transcription (regulation)
NM_178744	ZBTB1	zinc finger and BTB domain containing 1	transcription (regulation)
NM_198886	ZBTB12	zinc finger and BTB domain containing 12	transcription (regulation)
NM_001033324	ZBTB16	zinc finger and BTB domain containing 16	transcription (regulation)
NM_010731	ZBTB7A	zinc finger and BTB domain containing 7A	transcription (regulation)
NM_009565	ZBTB7B	zinc finger and BTB domain containing 7B	transcription (regulation)
NM_001005916	ZBTB9	zinc finger and BTB domain containing 9	transcription (regulation)
NM_134003	ZC3H10	zinc finger CCCH-type containing 10	transcription (regulation)
NM_172121	ZC3H3	zinc finger CCCH-type containing 3	transcription (regulation)
NM_198631	ZC3H4	zinc finger CCCH-type containing 4	transcription (regulation)
NM_028864	ZC3HAV1	zinc finger CCCH-type, antiviral 1	transcription (regulation)

NM_153160	ZCCHC17	zinc finger, CCHC domain containing 17	transcription (regulation)
NM_153538	ZCCHC6	zinc finger, CCHC domain containing 6	transcription (regulation)
NM_177027	ZCCHC7	zinc finger, CCHC domain containing 7	transcription (regulation)
NM_146073	ZDHHC14	zinc finger, DHHC-type containing 14	transcription (regulation)
NM_001017968	ZDHHC18	zinc finger, DHHC-type containing 18	transcription (regulation)
NM_199309	ZDHHC19	zinc finger, DHHC-type containing 19	transcription (regulation)
NM_199309	ZDHHC19	zinc finger, DHHC-type containing 19	transcription (regulation)
NM_015753	ZEB2	zinc finger E-box binding homeobox 2	transcription (regulation)
NM_133349	ZFAND2A	zinc finger, AN1-type domain 2A	transcription (regulation)
NM_009551	ZFAND5	zinc finger, AN1-type domain 5	transcription (regulation)
NM_022985	ZFAND6	zinc finger, AN1-type domain 6	transcription (regulation)
NM_007496	ZFHX3	zinc finger homeobox 3	transcription (regulation)
NM_001037665	ZFP1	zinc finger protein 1 homolog (mouse)	transcription (regulation)
NM_011756	ZFP36	zinc finger protein 36, C3H type, homolog (mouse)	transcription (regulation)
NM_007564	ZFP36L1	zinc finger protein 36, C3H type-like 1	transcription (regulation)
NM_001001806	ZFP36L2	zinc finger protein 36, C3H type-like 2	transcription (regulation)
NM_013843	ZFP53	zinc finger protein 53	transcription (regulation)
NM_172763	ZFP809	zinc finger protein 809	transcription (regulation)
NM_009569	ZFPM1 (includes E	zinc finger protein, multitype 1	transcription (regulation)
NM_183154	ZFYVE1	zinc finger, FYVE domain containing 1	transcription (regulation)
NM_023685	ZKSCAN3	zinc finger with KRAB and SCAN domains 3	transcription (regulation)
NM_025594	ZMAT2	zinc finger, matrin type 2	transcription (regulation)
NM_183208	ZMIZ1	zinc finger, MIZ-type containing 1	transcription (regulation)
NM_027230	ZMYND8	zinc finger, MYND-type containing 8	transcription (regulation)
NM_001033299	ZNF217	zinc finger protein 217	transcription (regulation)
NM_013866	ZNF385A	zinc finger protein 385A	transcription (regulation)
NM_001113400	ZNF385B	zinc finger protein 385B	transcription (regulation)
NM_020589	ZNF467	zinc finger protein 467	transcription (regulation)
NM_183033	ZNF516	zinc finger protein 516	transcription (regulation)
NM_175751	ZNF608	zinc finger protein 608	transcription (regulation)
NM_172536	ZNF609	zinc finger protein 609	transcription (regulation)
NM_026856	ZNF644	zinc finger protein 644	transcription (regulation)
NM_201609	ZNF652	zinc finger protein 652	transcription (regulation)
NM_030074	ZNF687	zinc finger protein 687	transcription (regulation)
NM_001040686	ZNF692	zinc finger protein 692	transcription (regulation)
NM_133218	ZNF704	zinc finger protein 704	transcription (regulation)
NM_175433	ZNF710	zinc finger protein 710	transcription (regulation)

NM_178763	ZNF750	zinc finger protein 750	transcription (regulation)
NM_001037745	ZNF791	zinc finger protein 791	transcription (regulation)
NM_001099328	ZNF831	zinc finger protein 831	transcription (regulation)
NM_001033196	ZNFX1	zinc finger, NFX1-type containing 1	transcription (regulation)
NM_011663	ZRSR1	zinc finger (CCCH type), RNA binding motif and serine/arginine rich	transcription (regulation)
NM_145456	ZSWIM6	zinc finger, SWIM-type containing 6	transcription (regulation)
NM_011271	RNASE1	ribonuclease, RNase A family, 1 (pancreatic)	transcription (RNA degradation)
NM_030098	RNASE6	ribonuclease, RNase A family, k6	transcription (RNA degradation)
NM_030255	APOBEC3B	apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3	transcription (RNA editing)
NM_144826	UTP6	UTP6, small subunit (SSU) processome component, homolog (yeast)	transcription (RNA processing)
NM_008715	INTS6	integrator complex subunit 6	transcription (snRNA processing)
NM_007713	CLK3	CDC-like kinase 3	transcription (splicing)
NM_001025392	BCLAF1	BCL2-associated transcription factor 1	transcription regulator
NM_008584	MEOX2	mesenchyme homeobox 2	transcription regulator
NM_027973	MLF1IP	MLF1 interacting protein	transcription regulator
NM_011842	MTA2	metastasis associated 1 family, member 2	transcription regulator
NM_054082	MTA3	metastasis associated 1 family, member 3	transcription regulator
NM_008636	MTF1	metal-regulatory transcription factor 1	transcription regulator
NM_010753	MXD4	MAX dimerization protein 4	transcription regulator
NM_010848	MYB (includes EGFR)	v-myb myeloblastosis viral oncogene homolog (avian)	transcription regulator
NM_008652	MYBL2	v-myb myeloblastosis viral oncogene homolog (avian)-like 2	transcription regulator
NM_010849	MYC	v-myc myelocytomatosis viral oncogene homolog (avian)	transcription regulator
NM_026495	NACC2	NACC family member 2, BEN and BTB (POZ) domain containing	transcription regulator
NM_172495	NCOA7	nuclear receptor coactivator 7	transcription regulator
NM_023739	NFX1	nuclear transcription factor, X-box binding 1	transcription regulator
NM_001110832	NFYA	nuclear transcription factor Y, alpha	transcription regulator
NM_008692	NFYC	nuclear transcription factor Y, gamma	transcription regulator
NM_183248	NKX6-2	NK6 homeobox 2	transcription regulator
NM_153529	NRN1	neuritin 1	transcription regulator
NM_177460	PARP16	poly (ADP-ribose) polymerase family, member 16	transcription regulator
NM_011037	PAX2	paired box 2	transcription regulator
NM_011040	PAX8	paired box 8	transcription regulator
NM_001042623	PHC1B	polyhomeotic homolog 1B (Drosophila)	transcription regulator
NM_018774	PHC2	polyhomeotic homolog 2 (Drosophila)	transcription regulator
NM_011078	PHF2	PHD finger protein 2	transcription regulator
NM_001033225	PNRC1	proline-rich nuclear receptor coactivator 1	transcription regulator
NM_022318	POPDC2	popeye domain containing 2	transcription regulator

NM_001081209	PRDM14	PR domain containing 14	transcription regulator
NM_138750	PROM2	prominin 2	transcription regulator
NM_008943	PSEN1	presenilin 1	transcription regulator
NM_026000	PSMD9	proteasome (prosome, macropain) 26S subunit, non-ATPase, 9	transcription regulator
NM_008972	PTMA	prothymosin, alpha	transcription regulator
NM_133242	RBM39	RNA binding motif protein 39	transcription regulator
NM_001085492	RERE	arginine-glutamic acid dipeptide (RE) repeats	transcription regulator
NM_009056	RFX2	regulatory factor X, 2 (influences HLA class II expression)	transcription regulator
NM_016698	RNF10	ring finger protein 10	transcription regulator
NM_153049	MKL1	megakaryoblastic leukemia (translocation) 1	transcription regulator
NM_010813	MNT	MAX binding protein	transcription regulator
NM_010847	MXI1	MAX interactor 1	transcription regulator
NM_016776	MYBBP1A	MYB binding protein (P160) 1a	transcription regulator
NM_011308	NCOR1	nuclear receptor co-repressor 1	transcription regulator
NM_008685	NFE2	nuclear factor (erythroid-derived 2), 45kDa	transcription regulator
NM_010902	NFE2L2	nuclear factor (erythroid-derived 2)-like 2	transcription regulator
NM_010905	NFIA	nuclear factor I/A	transcription regulator
NM_011584	NR1D2	nuclear receptor subfamily 1, group D, member 2	transcription regulator
NM_010938	NRF1	nuclear respiratory factor 1	transcription regulator
NM_173440	NRIP1	nuclear receptor interacting protein 1	transcription regulator
NM_008739	NSD1	nuclear receptor binding SET domain protein 1	transcription regulator
NM_010947	NTN3	netrin 3	transcription regulator
NM_139226	ONECUT3 (includes EG:)	one cut homeobox 3	transcription regulator
NM_011023	OTX1	orthodenticle homeobox 1	transcription regulator
NM_183355	PBX1	pre-B-cell leukemia homeobox 1	transcription regulator
NM_008831	PHB (includes EG:)	prohibitin	transcription regulator
NM_138755	PHF21A	PHD finger protein 21A	transcription regulator
NM_018807	PLAGL2	pleiomorphic adenoma gene-like 2	transcription regulator
NM_011137	POU2F1	POU class 2 homeobox 1	transcription regulator
NM_008910	PPM1A	protein phosphatase 1A (formerly 2C), magnesium-dependent, alpha isoenzyme	transcription regulator
NM_016891	PPP2R1A	protein phosphatase 2 (formerly 2A), regulatory subunit A, alpha isoform	transcription regulator
NM_007548	PRDM1	PR domain containing 1, with ZNF domain	transcription regulator
NM_011214	PTPRU	protein tyrosine phosphatase, receptor type, U	transcription regulator
NM_001025562	PUS1	pseudouridylate synthase 1	transcription regulator
NM_009826	RB1CC1	RB1-inducible coiled-coil 1	transcription regulator
NM_019419	ARL6IP1	ADP-ribosylation factor-like 6 interacting protein 1	translation
NM_001042593	HBS1L	HBS1-like (S. cerevisiae)	translation

NM_201226	LRRC47	leucine rich repeat containing 47	translation
NM_021461	MKNK1	MAP kinase interacting serine/threonine kinase 1	translation
NM_021462	MKNK2	MAP kinase interacting serine/threonine kinase 2	translation
NM_145433	MRM1	mitochondrial rRNA methyltransferase 1 homolog (S. cerevisiae)	translation
NM_001039084	MRPL1	mitochondrial ribosomal protein L1	translation
NM_025553	MRPL11	mitochondrial ribosomal protein L11	translation
NM_053162	MRPL34	mitochondrial ribosomal protein L34	translation
NM_025500	MRPL37	mitochondrial ribosomal protein L37	translation
NM_026851	MRPL52	mitochondrial ribosomal protein L52	translation
NM_030116	MRPL9	mitochondrial ribosomal protein L9	translation
NM_025369	MRPS36	mitochondrial ribosomal protein S36	translation
NM_001142950	NARS	asparaginyl-tRNA synthetase	translation
NM_146169	PAIP2B	poly(A) binding protein interacting protein 2B	translation
NM_030722	PUM1	pumilio homolog 1 (Drosophila)	translation
NM_001081054	QRSL1	glutaminyl-tRNA synthase (glutamine-hydrolyzing)-like 1	translation
NM_029279	SECISBP2	SECIS binding protein 2	translation
NM_010106	EEF1A1	eukaryotic translation elongation factor 1 alpha 1	translation (elongation)
NM_025380	EEF1E1	eukaryotic translation elongation factor 1 epsilon 1	translation (elongation)
NM_007908	EEF2K	eukaryotic elongation factor-2 kinase	translation (elongation)
NM_175317	EFTUD1	elongation factor Tu GTP binding domain containing 1	translation (elongation)
NM_026603	DENR (includes E	density-regulated protein	translation (initiation)
NM_011508	EIF1	eukaryotic translation initiation factor 1	translation (initiation)
NM_013557	EIF2AK1	eukaryotic translation initiation factor 2-alpha kinase 1	translation (initiation)
NM_153178	EIF2C2	eukaryotic translation initiation factor 2C, 2	translation (initiation)
NM_080635	EIF3H	eukaryotic translation initiation factor 3, subunit H	translation (initiation)
NM_007918	EIF4EBP1	eukaryotic translation initiation factor 4E binding protein 1	translation (initiation)
NM_145941	EIF4G1	eukaryotic translation initiation factor 4 gamma, 1	translation (initiation)
NM_001040131	EIF4G2 (includes E	eukaryotic translation initiation factor 4 gamma, 2	translation (initiation)
NM_172703	EIF4G3	eukaryotic translation initiation factor 4 gamma, 3	translation (initiation)
NM_173363	EIF5	eukaryotic translation initiation factor 5	translation (initiation)
NM_181582	EIF5A	eukaryotic translation initiation factor 5A	translation (initiation)
NM_145552	GNL2	guanine nucleotide binding protein-like 2 (nucleolar)	translation (ribosome biogenesis)
NM_023536	MRT04	mRNA turnover 4 homolog (S. cerevisiae)	translation (ribosome biogenesis)
NM_010880	NCL	nucleolin	translation (ribosome biogenesis)
NM_139236	NOL6	nucleolar protein family 6 (RNA-associated)	translation (ribosome biogenesis)
NM_029278	NOP14	NOP14 nucleolar protein homolog (yeast)	translation (ribosome biogenesis)
NM_028762	RBM19	RNA binding motif protein 19	translation (ribosome biogenesis)

NM_053183	DDX50	DEAD (Asp-Glu-Ala-Asp) box polypeptide 50	translation (rRNA processing)
NM_008774	PABPC1	poly(A) binding protein, cytoplasmic 1	translation (rRNA processing)
NM_010925	RRP1	ribosomal RNA processing 1 homolog (S. cerevisiae)	translation (rRNA processing)
NM_023479	ELAC2	elaC homolog 2 (E. coli)	translation (tRNA processing)
NM_024274	FARS2	phenylalanyl-tRNA synthetase 2, mitochondrial	translation (tRNA processing)
NM_026308	RPP21	ribonuclease P/MRP 21kDa subunit	translation (tRNA processing)
NM_133982	RPP25	ribonuclease P/MRP 25kDa subunit	translation (tRNA processing)
NM_021322	WDR4 (includes E0	WD repeat domain 4	translation (tRNA processing)
NM_030251	ABTB1	ankyrin repeat and BTB (POZ) domain containing 1	translation elongation
NM_011287	RPL10A (includes E	ribosomal protein L10A	translation elongation (ribosome constituent)
NM_009076	RPL12 (includes E	ribosomal protein L12	translation elongation (ribosome constituent)
NM_013762	RPL3	ribosomal protein L3	translation elongation (ribosome constituent)
NM_053257	RPL31	ribosomal protein L31	translation elongation (ribosome constituent)
NM_172086	RPL32	ribosomal protein L32	translation elongation (ribosome constituent)
NM_011290	RPL6	ribosomal protein L6	translation elongation (ribosome constituent)
NM_023133	RPS19	ribosomal protein S19	translation elongation (ribosome constituent)
NM_024175	RPS23	ribosomal protein S23	translation elongation (ribosome constituent)
NM_009095	RPS5	ribosomal protein S5	translation elongation (ribosome constituent)
NM_013454	ABCA1	ATP-binding cassette, sub-family A (ABC1), member 1	transport
NM_019552	ABCB10	ATP-binding cassette, sub-family B (MDR/TAP), member 10	transport
NM_008830	ABCB4	ATP-binding cassette, sub-family B (MDR/TAP), member 4	transport
NM_023732	ABCB6	ATP-binding cassette, sub-family B (MDR/TAP), member 6	transport
NM_019875	ABCB9	ATP-binding cassette, sub-family B (MDR/TAP), member 9	transport
NM_008576	ABCC1	ATP-binding cassette, sub-family C (CFTR/MRP), member 1	transport
NM_001033336	ABCC4	ATP-binding cassette, sub-family C (CFTR/MRP), member 4	transport
NM_009593	ABCG1	ATP-binding cassette, sub-family G (WHITE), member 1	transport
NM_011920	ABCG2	ATP-binding cassette, sub-family G (WHITE), member 2	transport
NM_138955	ABCG4	ATP-binding cassette, sub-family G (WHITE), member 4	transport
NM_009597	ACCN2	amiloride-sensitive cation channel 2, neuronal	transport
NM_183022	ACCN4	amiloride-sensitive cation channel 4, pituitary	transport
NM_181411	AFTPH	aftiphilin	transport
NM_010472	AGFG1 (includes E	ArfGAP with FG repeats 1	transport
NM_145566	AGFG2	ArfGAP with FG repeats 2	transport
NM_020332	ANKH	ankylosis, progressive homolog (mouse)	transport
NM_178263	ANKRD27	ankyrin repeat domain 27 (VPS9 domain)	transport
NM_175344	ANO6	anoctamin 6	transport
NM_007454	AP1B1	adaptor-related protein complex 1, beta 1 subunit	transport

NM_007456	AP1M1	adaptor-related protein complex 1, mu 1 subunit	transport
NM_001110300	AP1M2	adaptor-related protein complex 1, mu 2 subunit	transport
NM_183027	AP1S3 (includes E	adaptor-related protein complex 1, sigma 3 subunit	transport
NM_007459	AP2A2	adaptor-related protein complex 2, alpha 2 subunit	transport
NM_009692	APOA1	apolipoprotein A-I	transport
NM_175105	AQP11	aquaporin 11	transport
NM_009700	AQP4	aquaporin 4	transport
NM_001109045	AQP8	aquaporin 8	transport
NM_022026	AQP9	aquaporin 9	transport
NM_007480	ARF5	ADP-ribosylation factor 5	transport
NM_025445	ARFGAP3	ADP-ribosylation factor GTPase activating protein 3	transport
NM_029097	ATP13A2	ATPase type 13A2	transport
NM_144900	ATP1A1	ATPase, Na+/K+ transporting, alpha 1 polypeptide	transport
NM_178405	ATP1A2	ATPase, Na+/K+ transporting, alpha 2 (+) polypeptide	transport
NM_009721	ATP1B1	ATPase, Na+/K+ transporting, beta 1 polypeptide	transport
NM_016745	ATP2A3	ATPase, Ca++ transporting, ubiquitous	transport
NM_026482	ATP2B1	ATPase, Ca++ transporting, plasma membrane 1	transport
NM_213616	ATP2B4	ATPase, Ca++ transporting, plasma membrane 4	transport
NM_016920	ATP6V0A1	ATPase, H+ transporting, lysosomal V0 subunit a1	transport
NM_133826	ATP6V1H	ATPase, H+ transporting, lysosomal 50/57kDa, V1 subunit H	transport
NM_001001488	ATP8B1	ATPase, class I, type 8B, member 1	transport
NM_026094	ATP8B3	ATPase, class I, type 8B, member 3	transport
NM_020263	CACNA2D2	calcium channel, voltage-dependent, alpha 2/delta subunit 2	transport
NM_009603	CHRNE	cholinergic receptor, nicotinic, epsilon	transport
NM_173876	CLCN3	chloride channel 3	transport
NM_013885	CLIC4	chloride intracellular channel 4	transport
NM_012000	CLN8	ceroid-lipofuscinosis, neuronal 8 (epilepsy, progressive with mental retardation)	transport
NM_001003908	CLTC	clathrin, heavy chain (Hc)	transport
NM_001102471	CNNM2	cyclin M2	transport
NM_133724	CNO	cappuccino homolog (mouse)	transport
NM_013581	COG1	component of oligomeric golgi complex 1	transport
NM_170684	CPNE7	copine VII	transport
NM_011182	CYTH3	cytohesin 3	transport
NM_024207	DERL1	Der1-like domain family, member 1	transport
NM_008226	HCN2	hyperpolarization activated cyclic nucleotide-gated potassium channel 2	transport
NM_152134	HOMER1	homer homolog 1 (Drosophila)	transport
NM_029665	IPO11	importin 11	transport

NM_023579	IPO5	importin 5	transport
NM_019923	ITPR2	inositol 1,4,5-triphosphate receptor, type 2	transport
NM_021566	JPH2	junctophilin 2	transport
NM_010599	KCNAB3	potassium voltage-gated channel, shaker-related subfamily, beta n	transport
NM_008424	KCNE1	potassium voltage-gated channel, Isk-related family, member 1	transport
NM_008433	KCNN4	potassium intermediate/small conductance calcium-activated chan	transport
NM_001114662	MFSD4	major facilitator superfamily domain containing 4	transport
NM_138670	MPST	mercaptopyruvate sulfurtransferase	transport
NM_010886	NDUFA4	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 4, 9kDa	transport
NM_001030274	NDUFS5	NADH dehydrogenase (ubiquinone) Fe-S protein 5, 15kDa (NADH	transport
NM_025383	NECAP2	NECAP endocytosis associated 2	transport
NM_010890	NEDD4	neural precursor cell expressed, developmentally down-regulated	transport
NM_031881	NEDD4L	neural precursor cell expressed, developmentally down-regulated	transport
NM_153578	NIPA1	non imprinted in Prader-Willi/Angelman syndrome 1	transport
NM_175749	NUP153	nucleoporin 153kDa	transport
NM_021512	NUP160	nucleoporin 160kDa	transport
NM_175423	ORAI1	ORAI calcium release-activated calcium modulator 1	transport
NM_198424	ORAI3	ORAI calcium release-activated calcium modulator 3	transport
NM_011016	ORM1	orosomucoid 1	transport
NM_027132	OTOP3	otopetrin 3	transport
NM_001038887	P2RX7	purinergic receptor P2X, ligand-gated ion channel, 7	transport
NM_021517	PDZK1	PDZ domain containing 1	transport
NM_026018	PDZK1IP1	PDZK1 interacting protein 1	transport
NM_134025	PEX12	peroxisomal biogenesis factor 12	transport
NM_175933	PEX5	peroxisomal biogenesis factor 5	transport
NM_145823	PITPNC1	phosphatidylinositol transfer protein, cytoplasmic 1	transport
NM_011256	PITPNM2	phosphatidylinositol transfer protein, membrane-associated 2	transport
NM_181544	PKD1L3	polycystic kidney disease 1-like 3	transport
NM_181422	PKD2L1	polycystic kidney disease 2-like 1	transport
NM_016927	PKD2L2	polycystic kidney disease 2-like 2	transport
NM_008859	PRKCQ	protein kinase C, theta	transport
NM_017382	RAB11A	RAB11A, member RAS oncogene family	transport
NM_024436	RAB22A	RAB22A, member RAS oncogene family	transport
NM_030554	RAB27B	RAB27B, member RAS oncogene family	transport
NM_198163	RAB35	RAB35, member RAS oncogene family	transport
NM_023852	RAB3C	RAB3C, member RAS oncogene family	transport
NM_009003	RAB4A	RAB4A, member RAS oncogene family	transport

NM_019983	RABGEF1	RAB guanine nucleotide exchange factor (GEF) 1	transport
NM_145510	RABIF	RAB interacting factor	transport
NM_011240	RANBP2	RAN binding protein 2	transport
NM_027933	RANBP3	RAN binding protein 3	transport
NM_009034	RBP2	retinol binding protein 2, cellular	transport
NM_011269	RHAG	Rh-associated glycoprotein	transport
NM_011270	RHD	Rh blood group, D antigen	transport
NM_020599	RLBP1	retinaldehyde binding protein 1	transport
NM_028940	RLBP1L1	retinaldehyde binding protein 1-like 1	transport
NM_178614	SAMM50	sorting and assembly machinery component 50 homolog (S. cerevisiae)	transport
NM_177547	SGK3	serum/glucocorticoid regulated kinase family, member 3	transport
NM_016981	SLC9A1	solute carrier family 9 (sodium/hydrogen exchanger), member 1	transport
NM_009303	SYNGR1	synaptogyrin 1	transport
NM_009304	SYNGR2	synaptogyrin 2	transport
NM_015799	TFR2	transferrin receptor 2	transport
NM_181321	TMC6	transmembrane channel-like 6	transport
NM_028011	TOM1L1	target of myb1 (chicken)-like 1	transport
NM_024214	TOMM20	translocase of outer mitochondrial membrane 20 homolog (yeast)	transport
NM_025394	TOMM7	translocase of outer mitochondrial membrane 7 homolog (yeast)	transport
NM_172406	TRAK2	trafficking protein, kinesin binding 2	transport
NM_001039104	TRPM1	transient receptor potential cation channel, subfamily M, member 1	transport
NM_011706	TRPV2	transient receptor potential cation channel, subfamily V, member 2	transport
NM_175274	TTYH3	tweety homolog 3 (Drosophila)	transport
NM_009464	UCP3	uncoupling protein 3 (mitochondrial, proton carrier)	transport
NM_025917	USE1	unconventional SNARE in the ER 1 homolog (S. cerevisiae)	transport
NM_009497	VAMP2	vesicle-associated membrane protein 2 (synaptobrevin 2)	transport
NM_016794	VAMP8	vesicle-associated membrane protein 8 (endobrevin)	transport
NM_011695	VDAC2	voltage-dependent anion channel 2	transport
NM_172269	VPS18	vacuolar protein sorting 18 homolog (S. cerevisiae)	transport
NM_177876	VPS37B	vacuolar protein sorting 37 homolog B (S. cerevisiae)	transport
NM_001081097	GRIK3	glutamate receptor, ionotropic, kainate 3	transport
NM_008420	KCNB1	potassium voltage-gated channel, Shab-related subfamily, member 1	transport
NM_153512	KCNG3	potassium voltage-gated channel, subfamily G, member 3	transport
NM_008425	KCNJ2	potassium inwardly-rectifying channel, subfamily J, member 2	transport
NM_080466	KCNN3	potassium intermediate/small conductance calcium-activated channel	transport
NM_026145	KCTD10 (includes	potassium channel tetramerisation domain containing 10	transport
NM_172650	KCTD3	potassium channel tetramerisation domain containing 3	transport

NM_172509	KCTD7	potassium channel tetramerisation domain containing 7	transport
NM_008448	KIF5B	kinesin family member 5B	transport
NM_008640	LAPTM4A	lysosomal protein transmembrane 4 alpha	transport
NM_178780	RIC3 (includes EG)	resistance to inhibitors of cholinesterase 3 homolog (C. elegans)	transport
NM_009406	TNNI3	troponin I type 3 (cardiac)	transport
NM_011676	UNC119	unc-119 homolog (C. elegans)	transport
NM_145940	WIP1	WD repeat domain, phosphoinositide interacting 1	transport
NM_201368	XKR8	XK, Kell blood group complex subunit-related family, member 8	transport
NM_025797	CYB5A	cytochrome b5 type A (microsomal)	transport (electron transport chain)
NM_178086	FA2H	fatty acid 2-hydroxylase	transport (electron transport chain)
NM_021890	FADS3	fatty acid desaturase 3	transport (electron transport chain)
NM_001113478	FRRS1	ferric-chelate reductase 1	transport (electron transport chain)
NM_001045520	CLINT1	clathrin interactor 1	transport (endocytosis)
NM_001080386	CLTA	clathrin, light chain (Lca)	transport (endocytosis)
NM_146122	DENND1A	DENN/MADD domain containing 1A	transport (endocytosis)
NM_001039520	DNM2	dynamain 2	transport (endocytosis)
NM_010119	EHD1	EH-domain containing 1	transport (endocytosis)
NM_024270	STARD3NL	STARD3 N-terminal like	transport (endocytosis)
NM_011638	TFRC	transferrin receptor (p90, CD71)	transport (endocytosis)
NM_001136259	TOM1	target of myb1 (chicken)	transport (endocytosis)
NM_025516	ERGIC3	ERGIC and golgi 3	transport (ER/Golgi)
NM_007472	AQP1	aquaporin 1 (Colton blood group)	transport (erythroid)
NM_016689	AQP3	aquaporin 3 (Gill blood group)	transport (erythroid)
NM_010369	GYPA	glycophorin A (MNS blood group)	transport (erythroid)
NM_008221	HBE1	hemoglobin, epsilon 1	transport (erythroid)
NM_175353	EXOC6	exocyst complex component 6	transport (exocytosis)
NM_030725	SYT13	synaptotagmin XIII	transport (exocytosis)
NM_001009573	UNC13D	unc-13 homolog D (C. elegans)	transport (exocytosis)
NM_026700	DOPEY2	dopey family member 2	transport (Golgi to endosome, ER)
NM_013546	HEBP1	heme binding protein 1	transport (heme binding)
NM_008379	KPNB1	karyopherin (importin) beta 1	transport (into nucleus)
NM_028758	GGA2	golgi associated, gamma adaptin ear containing, ARF binding prot	transport (intracellular)
NM_010748	LYST	lysosomal trafficking regulator	transport (intracellular)
NM_009294	STX4	syntaxin 4	transport (intracellular)
NM_008465	KPNA1	karyopherin alpha 1 (importin alpha 5)	transport (intracellular), DNA recombination
NM_030238	DYNC1H1	dynein, cytoplasmic 1, heavy chain 1	transport (microtubule-based movement)
NM_029153	SCAMP1	secretory carrier membrane protein 1	transport (protein)

NM_028777	SEC14L1	SEC14-like 1 (<i>S. cerevisiae</i>)	transport (protein)
NM_001029937	SEC14L3	SEC14-like 3 (<i>S. cerevisiae</i>)	transport (protein)
NM_001029982	SEC23IP	SEC23 interacting protein	transport (protein)
NM_028112	SEH1L	SEH1-like (<i>S. cerevisiae</i>)	transport (protein)
NM_009150	SELENBP1	selenium binding protein 1	transport (protein)
NM_172926	SNX14	sorting nexin 14	transport (protein)
NM_026912	SNX15	sorting nexin 15	transport (protein)
NM_001025612	SNX22	sorting nexin 22	transport (protein)
NM_017472	SNX3	sorting nexin 3	transport (protein)
NM_025712	SNX31	sorting nexin 31	transport (protein)
NM_001024560	SNX32	sorting nexin 32	transport (protein)
NM_011899	SRP54	signal recognition particle 54kDa	transport (protein)
NM_025965	SSR1	signal sequence receptor, alpha	transport (protein)
NM_011530	TAP2	transporter 2, ATP-binding cassette, sub-family B (MDR/TAP)	transport (protein)
NM_013896	TIMM9	translocase of inner mitochondrial membrane 9 homolog (yeast)	transport (protein)
NM_026123	UNC50	unc-50 homolog (<i>C. elegans</i>)	transport (protein)
NM_009194	SLC12A2	solute carrier family 12 (sodium/potassium/chloride transporters), member 2	transport (solute carrier)
NM_019415	SLC12A3	solute carrier family 12 (sodium/chloride transporters), member 3	transport (solute carrier)
NM_009195	SLC12A4	solute carrier family 12 (potassium/chloride transporters), member 4	transport (solute carrier)
NM_172892	SLC13A4	solute carrier family 13 (sodium/sulfate symporters), member 4	transport (solute carrier)
NM_028122	SLC14A1	solute carrier family 14 (urea transporter), member 1 (Kidd blood group)	transport (solute carrier)
NM_053079	SLC15A1	solute carrier family 15 (oligopeptide transporter), member 1	transport (solute carrier)
NM_028247	SLC16A10	solute carrier family 16, member 10 (aromatic amino acid transporter)	transport (solute carrier)
NM_172371	SLC16A13	solute carrier family 16, member 13 (monocarboxylic acid transporter)	transport (solute carrier)
NM_027921	SLC16A14	solute carrier family 16, member 14 (monocarboxylic acid transporter)	transport (solute carrier)
NM_001077515	SLC1A2	solute carrier family 1 (glial high affinity glutamate transporter), member 2	transport (solute carrier)
NM_148938	SLC1A3	solute carrier family 1 (glial high affinity glutamate transporter), member 3	transport (solute carrier)
NM_015747	SLC20A1	solute carrier family 20 (phosphate transporter), member 1	transport (solute carrier)
NM_001033167	SLC22A23	solute carrier family 22, member 23	transport (solute carrier)
NM_019687	SLC22A4 (includes SLC22A4)	solute carrier family 22 (organic cation/ergothioneine transporter), member 4	transport (solute carrier)
NM_008766	SLC22A6	solute carrier family 22 (organic anion transporter), member 6	transport (solute carrier)
NM_194333	SLC23A3	solute carrier family 23 (nucleobase transporters), member 3	transport (solute carrier)
NM_144813	SLC24A1	solute carrier family 24 (sodium/potassium/calcium exchanger), member 1	transport (solute carrier)
NM_001081048	SLC25A18 (includes SLC25A18)	solute carrier family 25 (mitochondrial carrier), member 18	transport (solute carrier)
NM_144793	SLC25A38	solute carrier family 25, member 38	transport (solute carrier)
NM_011988	SLC27A3	solute carrier family 27 (fatty acid transporter), member 3	transport (solute carrier)
NM_022880	SLC29A1	solute carrier family 29 (nucleoside transporters), member 1	transport (solute carrier)

NM_011400	SLC2A1	solute carrier family 2 (facilitated glucose transporter), member 1	transport (solute carrier)
NM_011401	SLC2A3	solute carrier family 2 (facilitated glucose transporter), member 3	transport (solute carrier)
NM_145559	SLC2A9	solute carrier family 2 (facilitated glucose transporter), member 9	transport (solute carrier)
NM_001033286	SLC30A10	solute carrier family 30, member 10	transport (solute carrier)
NM_080854	SLC34A3	solute carrier family 34 (sodium phosphate), member 3	transport (solute carrier)
NM_029875	SLC35E3	solute carrier family 35, member E3	transport (solute carrier)
NM_024249	SLC38A10	solute carrier family 38, member 10	transport (solute carrier)
NM_172479	SLC38A5	solute carrier family 38, member 5	transport (solute carrier)
NM_001009950	SLC38A8	solute carrier family 38, member 8	transport (solute carrier)
NM_001135150	SLC39A8	solute carrier family 39 (zinc transporter), member 8	transport (solute carrier)
NM_016917	SLC40A1	solute carrier family 40 (iron-regulated transporter), member 1	transport (solute carrier)
NM_001037493	SLC41A3 (includes	solute carrier family 41, member 3	transport (solute carrier)
NM_001083809	SLC43A1	solute carrier family 43, member 1	transport (solute carrier)
NM_021398	SLC43A3	solute carrier family 43, member 3	transport (solute carrier)
NM_152808	SLC44A2	solute carrier family 44, member 2	transport (solute carrier)
NM_001081263	SLC44A5	solute carrier family 44, member 5	transport (solute carrier)
NM_145977	SLC45A3	solute carrier family 45, member 3	transport (solute carrier)
NM_001033219	SLC45A4	solute carrier family 45, member 4	transport (solute carrier)
NM_021053	SLC46A2	solute carrier family 46, member 2	transport (solute carrier)
NM_026353	SLC48A1	solute carrier family 48 (heme transporter), member 1	transport (solute carrier)
NM_011403	SLC4A1	solute carrier family 4, anion exchanger, member 1 (erythrocyte m	transport (solute carrier)
NM_008135	SLC6A9	solute carrier family 6 (neurotransmitter transporter, glycine), mem	transport (solute carrier)
NM_011990	SLC7A11	solute carrier family 7, (cationic amino acid transporter, y+ system)	transport (solute carrier)
NM_011404	SLC7A5	solute carrier family 7 (cationic amino acid transporter, y+ system)	transport (solute carrier)
NM_194464	MRV11	murine retrovirus integration site 1 homolog	tumor supressor gene
NM_001081317	ANUBL1	AN1, ubiquitin-like, homolog (Xenopus laevis)	ubiquitination
NM_175206	FBXL22 (includes	F-box and leucine-rich repeat protein 22	ubiquitination
NM_001081034	FBXO11	F-box protein 11	ubiquitination
NM_176848	FBXO2	F-box protein 2	ubiquitination
NM_020593	FBXO3	F-box protein 3	ubiquitination
NM_176982	FBXO48	F-box protein 48	ubiquitination
NM_013908	FBXW5	F-box and WD repeat domain containing 5	ubiquitination
NM_080428	FBXW7	F-box and WD repeat domain containing 7	ubiquitination
NM_010192	FEM1A	fem-1 homolog a (C. elegans)	ubiquitination
NM_001081151	GAN	gigaxonin	ubiquitination
NM_010295	GCLC	glutamate-cysteine ligase, catalytic subunit	ubiquitination
NM_172473	HACE1	HECT domain and ankyrin repeat containing, E3 ubiquitin protein l	ubiquitination

NM_144788	HECTD1	HECT domain containing 1	ubiquitination
NM_001081348	HECW1	HECT, C2 and WW domain containing E3 ubiquitin protein ligase 1	ubiquitination
NM_026580	OTUB2	OTU domain, ubiquitin aldehyde binding 2	ubiquitination
NM_030743	RNF114	ring finger protein 114	ubiquitination
NM_026301	RNF125	ring finger protein 125	ubiquitination
NM_175226	RNF139	ring finger protein 139	ubiquitination
NM_025607	RNF181	ring finger protein 181	ubiquitination
NM_013923	RNF19A	ring finger protein 19A	ubiquitination
NM_023738	UBA7	ubiquitin-like modifier activating enzyme 7	ubiquitination
NM_133835	UBAC1	UBA domain containing 1	ubiquitination
NM_177823	UBASH3A	ubiquitin associated and SH3 domain containing, A	ubiquitination
NM_176860	UBASH3B	ubiquitin associated and SH3 domain containing, B	ubiquitination
NM_011664	UBB	ubiquitin B	ubiquitination
NM_019639	UBC	ubiquitin C	ubiquitination
NM_025356	UBE2D3	ubiquitin-conjugating enzyme E2D 3 (UBC4/5 homolog, yeast)	ubiquitination
NM_026454	UBE2F	ubiquitin-conjugating enzyme E2F (putative)	ubiquitination
NM_019803	UBE2G2	ubiquitin-conjugating enzyme E2G 2 (UBC7 homolog, yeast)	ubiquitination
NM_009459	UBE2H (includes E	ubiquitin-conjugating enzyme E2H (UBC8 homolog, yeast)	ubiquitination
NM_019949	UBE2L6	ubiquitin-conjugating enzyme E2L 6	ubiquitination
NM_023230	UBE2V1	ubiquitin-conjugating enzyme E2 variant 1	ubiquitination
NM_011668	UBE3A	ubiquitin protein ligase E3A	ubiquitination
NM_024475	UBLCP1	ubiquitin-like domain containing CTD phosphatase 1	ubiquitination
NM_080562	UBOX5	U-box domain containing 5	ubiquitination
NM_144873	UHRF2	ubiquitin-like with PHD and ring finger domains 2	ubiquitination
NM_009462	USP10	ubiquitin specific peptidase 10	ubiquitination
NM_011669	USP12	ubiquitin specific peptidase 12	ubiquitination
NM_001038589	USP14	ubiquitin specific peptidase 14 (tRNA-guanine transglycosylase)	ubiquitination
NM_027604	USP15	ubiquitin specific peptidase 15	ubiquitination
NM_028846	USP20	ubiquitin specific peptidase 20	ubiquitination
NM_144937	USP3	ubiquitin specific peptidase 3	ubiquitination
NM_001029934	USP32	ubiquitin specific peptidase 32	ubiquitination
NM_001033291	USP40	ubiquitin specific peptidase 40	ubiquitination
NM_152825	USP45	ubiquitin specific peptidase 45	ubiquitination
NM_009481	USP9X	ubiquitin specific peptidase 9, X-linked	ubiquitination
NM_178694	ZER1	zer-1 homolog (C. elegans)	ubiquitination
NM_029967	ADAMTSL1	ADAMTS-like 1	
NM_025629	ADAMTSL5	ADAMTS-like 5	

NM_178873	ADCK2	aarF domain containing kinase 2
NM_026203	AHI1	Abelson helper integration site 1
NM_009643	AHNAK	AHNAK nucleoprotein (desmoyokin)
NM_172393	AIM1 (includes EG)	absent in melanoma 1
NR_002853	AIR	Acute insulin response (2)
NM_028070	ALKBH4	alkB, alkylation repair homolog 4 (E. coli)
NM_026303	ALKBH8	alkB, alkylation repair homolog 8 (E. coli)
NM_144524	ANGEL1	angel homolog 1 (Drosophila)
NM_175375	ANKHD1	ankyrin repeat and KH domain containing 1
NM_023472	ANKRA2	ankyrin repeat, family A (RFXANK-like), 2
NM_026718	ANKRD13A	ankyrin repeat domain 13A
NM_146024	ANKRD40	ankyrin repeat domain 40
NM_001012450	ANKRD6	ankyrin repeat domain 6
NM_175207	ANKRD9	ankyrin repeat domain 9
NM_009672	ANP32A	acidic (leucine-rich) nuclear phosphoprotein 32 family, member A
NM_173743	APOL9B	apolipoprotein L 9b
NM_001034858	ARMC2	armadillo repeat containing 2
NM_027560	ARRDC2	arrestin domain containing 2
NM_001042591	ARRDC3	arrestin domain containing 3
NM_183020	ATXN2L	ataxin 2-like
NM_028139	ATXN7L1	ataxin 7-like 1
NM_172661	BAT2L	HLA-B associated transcript 2-like
NM_138681	BCAS3	breast carcinoma amplified sequence 3
NM_175277	BOLA3	bolA homolog 3 (E. coli)
NM_177472	BTBD12	BTB (POZ) domain containing 12
NM_013483	BTN1A1	butyrophilin, subfamily 1, member A1
NM_013535	C12ORF57	chromosome 12 open reading frame 57
NM_001033236	C14ORF138	chromosome 14 open reading frame 138
NM_199310	C15ORF57	chromosome 15 open reading frame 57
NM_181569	C16ORF35	chromosome 16 open reading frame 35
NM_183175	C1QTNF9	C1q and tumor necrosis factor related protein 9
NM_133781	CAB39	calcium binding protein 39
NM_133746	CALHM2	calcium homeostasis modulator 2
NM_001033533	CCDC102A	coiled-coil domain containing 102A
NM_028312	CCDC12	coiled-coil domain containing 12
NM_027346	CCDC44	coiled-coil domain containing 44
NM_183307	CCDC63	coiled-coil domain containing 63

NM_026439	CCDC80	coiled-coil domain containing 80	
NM_026681	CCDC88C	coiled-coil domain containing 88C	
NM_001136471	CCDC9	coiled-coil domain containing 9	
NM_009846	CD24	CD24 molecule	
NM_007652	CD59A	CD59a antigen	
NM_133974	CDCP1	CUB domain containing protein 1	
NM_025496	CDRT4	CMT1A duplicated region transcript 4	
NM_172260	CEP68	centrosomal protein 68kDa	
NM_023873	CEP70	centrosomal protein 70kDa	
NM_025336	CHCHD3	coiled-coil-helix-coiled-coil-helix domain containing 3	
NM_007705	CIRBP	cold inducible RNA binding protein	
NM_025902	CISD2	CDGSH iron sulfur domain 2	
NM_181589	CKAP2L	cytoskeleton associated protein 2-like	
NM_001081114	CLIP3	CAP-GLY domain containing linker protein 3	
NM_009191	CLPB	ClpB caseinolytic peptidase B homolog (E. coli)	
NM_172974	COPS7B	COP9 constitutive photomorphogenic homolog subunit 7B (Arabidopsis)	
NM_139130	CORO6	coronin 6	
NM_170597	CREG2	cellular repressor of E1A-stimulated genes 2	
NM_018776	CRLF3 (includes E	cytokine receptor-like factor 3	
NM_146034	CTAGE5	CTAGE family, member 5	
NM_026295	CTDP1	CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) phosphatase, subunit 1	
NM_133687	CXXC5	CXXC finger 5	
NM_011722	DCTN6	dynactin 6	
NM_174854	DISC1	disrupted in schizophrenia 1	
NM_173383	DND1	dead end homolog 1 (zebrafish)	
NM_001081954	DUX	double homeobox	
NM_026626	EFCAB2	EF-hand calcium binding domain 2	
NM_001081046	EFCAB3	EF-hand calcium binding domain 3	
NM_001033464	EFCAB4B	EF-hand calcium binding domain 4B	
NM_025994	EFHD2	EF-hand domain family, member D2	
NM_152922	EGFL8	EGF-like-domain, multiple 8	
NM_007930	ENC1	ectodermal-neural cortex (with BTB-like domain)	
NM_022313	ERAL1	Era G-protein-like 1 (E. coli)	
NM_026983	ERP27	endoplasmic reticulum protein 27 kDa	
NM_026576	ETAA1	Ewing tumor-associated antigen 1	
NR_015349	ETOHD2	ethanol decreased 2	
NM_027698	EXOD1	exoribonuclease 2	

NM_177391	FAM109B	family with sequence similarity 109, member B
NM_146127	FAM110A	family with sequence similarity 110, member A
NM_027828	FAM110C	family with sequence similarity 110, member C
NM_172293	FAM113B	family with sequence similarity 113, member B
NM_026520	FAM122A	family with sequence similarity 122A
NM_175184	FAM125B	family with sequence similarity 125, member B
NM_146084	FAM13B1	family with sequence similarity 13, member B1
NM_033146	FAM158A	family with sequence similarity 158, member A
NM_027342	FAM162A	family with sequence similarity 162, member A
NM_001013811	FAM169B (includes	family with sequence similarity 169, member B
NM_145413	FAM20B	family with sequence similarity 20, member B
NM_138587	FAM3C	family with sequence similarity 3, member C
NM_029758	FAM49A	family with sequence similarity 49, member A
NM_144846	FAM49B	family with sequence similarity 49, member B
NM_178390	FAM53A	family with sequence similarity 53, member A
NM_175268	FAM53B	family with sequence similarity 53, member B
NM_030069	FAM55B	family with sequence similarity 55, member B
NM_001033445	FAM59A	family with sequence similarity 59, member A
NM_028731	FAM62B	family with sequence similarity 62 (C2 domain containing) member B
NM_001081241	FAM65A	family with sequence similarity 65, member A
NM_026062	FAM69A	family with sequence similarity 69, member A
NM_001033136	FAM82A2	family with sequence similarity 82, member A2
NM_027975	FAM83D	family with sequence similarity 83, member D
NM_178618	FAM83G	family with sequence similarity 83, member G
NM_001033980	FAM92B	family with sequence similarity 92, member B
NM_133999	FIG4	FIG4 homolog (S. cerevisiae)
NR_002840	GAS5	growth arrest-specific 5 (non-protein coding)
NM_027450	GLIPR2	GLI pathogenesis-related 2
NM_008132	GLRP1	glutamine repeat protein 1
NM_001033403	GM1968	gene model 1968, (NCBI)
NM_001085505	GM572	gene model 572, (NCBI)
NM_001033414	GM833	gene model 833, (NCBI)
NM_025673	GOLPH3	golgi phosphoprotein 3 (coat-protein)
NM_153528	GRAMD1C	GRAM domain containing 1C
NM_011938	GRK6	G protein-coupled receptor kinase 6
NM_031378	GSDMC	gasdermin C
NM_001081076	GUCY2G (includes	guanylate cyclase 2g

NM_026812	HDDC3	HD domain containing 3
NM_020586	HERPUD2	HERPUD family member 2
NM_001024720	HMCN1 (includes E	hemicentin 1
NM_010439	HMG1L1	high-mobility group box 1-like 1
NM_198937	HN1L	hematological and neurological expressed 1-like
NM_021429	HS1BP3	HCLS1 binding protein 3
NM_010499	IER2	immediate early response 2
NM_010500	IER5	immediate early response 5
NM_030244	IER5L	immediate early response 5-like
NM_008331	IFIT1L	interferon-induced protein with tetratricopeptide repeats 1-like
NM_025903	IFRD2	interferon-related developmental regulator 2
NM_207205	IGSF3	immunoglobulin superfamily, member 3
NM_172625	INO80C	INO80 complex subunit C
NM_175515	INTU	inturned planar cell polarity effector homolog (Drosophila)
NM_177193	ISLR2	immunoglobulin superfamily containing leucine-rich repeat 2
NM_028001	JSRP1	junctional sarcoplasmic reticulum protein 1
NM_153572	KATNAL1	katanin p60 subunit A-like 1
NM_178929	KAZALD1	Kazal-type serine peptidase inhibitor domain 1
NM_027117	KLHDC2	kelch domain containing 2
NM_145479	KLHL22	kelch-like 22 (Drosophila)
NM_182782	KLHL25	kelch-like 25 (Drosophila)
NM_026448	KLHL7	kelch-like 7 (Drosophila)
NM_030599	KLRB1B (includes	killer cell lectin-like receptor subfamily B member 1B
NM_010684	LAMP1	lysosomal-associated membrane protein 1
NM_001040399	LARP2 (includes E	La ribonucleoprotein domain family, member 2
NM_001024526	LARP4	La ribonucleoprotein domain family, member 4
NM_133815	LBR	lamin B receptor
NM_175036	LEPROT	leptin receptor overlapping transcript
NM_020295	LMBR1	limb region 1 homolog (mouse)
NM_008377	LRIG1	leucine-rich repeats and immunoglobulin-like domains 1
NM_172784	LRP11	low density lipoprotein receptor-related protein 11
NM_153542	LRRC20	leucine rich repeat containing 20
NM_153074	LRRC25	leucine rich repeat containing 25
NM_199149	LRRC68 (includes	leucine rich repeat containing 68
NM_001033550	LRRC8B	leucine rich repeat containing 8 family, member B
NM_133897	LRRC8C	leucine rich repeat containing 8 family, member C
NM_148947	LY6G5C	lymphocyte antigen 6 complex, locus G5C

NM_027366	LY6G6E	lymphocyte antigen 6 complex, locus G6E
NM_182785	LYPD4	LY6/PLAUR domain containing 4
NM_033322	LZTFL1	leucine zipper transcription factor-like 1
NM_134147	MACROD1	MACRO domain containing 1
NR_002847	MALAT1	metastasis associated lung adenocarcinoma transcript 1 (non-protein coding)
NM_020007	MBNL1	muscleblind-like (Drosophila)
NM_173189	MCPH1	microcephalin 1
NM_001039214	MEX3C	mex-3 homolog C (C. elegans)
NM_173015	MON1B	MON1 homolog B (yeast)
NM_001081100	MORN1	MORN repeat containing 1
NM_020597	MSMB	microseminoprotein, beta-
NM_013602	MT1F	metallothionein 1F
NM_133898	N4BP2L1	NEDD4 binding protein 2-like 1
NM_001111016	NAV2 (includes EG	neuron navigator 2
NM_134009	NCLN	nicalin homolog (zebrafish)
NM_024193	NOL5A	nucleolar protein 5A (56kDa with KKE/D repeat)
NM_024193	NOL5A	nucleolar protein 5A (56kDa with KKE/D repeat)
NM_001109985	NOS1AP	nitric oxide synthase 1 (neuronal) adaptor protein
NM_145469	NPAL2	NIPA-like domain containing 2
NM_001007462	PABPNL1 (includes	poly(A)binding protein nuclear-like 1
NM_198410	PAQR6	progesterone and adipoQ receptor family member VI
NM_027995	PAQR7	progesterone and adipoQ receptor family member VII
NM_198414	PAQR9	progesterone and adipoQ receptor family member IX
NM_181402	PARP11	poly (ADP-ribose) polymerase family, member 11
NM_145981	PHYHIP	phytanoyl-CoA 2-hydroxylase interacting protein
NM_138674	PKHD1L1	polycystic kidney and hepatic disease 1 (autosomal recessive)-like 1
NM_182930	PLEKHA6	pleckstrin homology domain containing, family A member 6
NM_177606	PLEKHH2	pleckstrin homology domain containing, family H (with MyTH4 domain) member 2
NM_153119	PLEKHO2	pleckstrin homology domain containing, family O member 2
NM_032398	PLVAP	plasmalemma vesicle associated protein
NM_025861	PQLC1	PQ loop repeat containing 1
NM_001114119	QRICH1	glutamine-rich 1
NM_181750	R3HDM1	R3H domain containing 1
NM_144538	RAB3IL1	RAB3A interacting protein (rabin3)-like 1
NM_134083	RCBTB2	regulator of chromosome condensation (RCC1) and BTB (POZ) domain containing protein 2
NM_001038846	RCSD1	RCSD domain containing 1
NM_025654	RDM1	RAD52 motif 1

NM_178606	REEP3	receptor accessory protein 3
NM_139292	REEP6	receptor accessory protein 6
NM_026328	REG4	regenerating islet-derived family, member 4
NM_025852	REXO1	REX1, RNA exonuclease 1 homolog (S. cerevisiae)
NM_181397	RFTN1	raftlin, lipid raft linker 1
NM_146218	RFWD3	ring finger and WD repeat domain 3
NM_172572	RHBDF2	rhomboid 5 homolog 2 (Drosophila)
NR_002841	RN4.5S	4.5S RNA
NM_028862	RNF145	ring finger protein 145
NM_027934	RNF180	ring finger protein 180
NM_025739	RNF220	ring finger protein 220
NM_134064	RNF44	ring finger protein 44
NR_002865	RNU11	RNA, U11 small nuclear
NR_004432	RNU12	RNA, U12 small nuclear
NM_133185	ROGDI	rogdi homolog (Drosophila)
NM_027434	RPRD1B	regulation of nuclear pre-mRNA domain containing 1B
NM_001080977	RSBN1L	round spermatid basic protein 1-like
NM_028456	RWDD3	RWD domain containing 3
NM_146025	SAMD14	sterile alpha motif domain containing 14
NM_175021	SAMD4B	sterile alpha motif domain containing 4B
NM_029489	SAMD7	sterile alpha motif domain containing 7
NM_023380	SAMSN1	SAM domain, SH3 domain and nuclear localization signals 1
NM_027805	SAPS2	SAPS domain family, member 2
NM_022886	SCEL	sciellin
NM_013928	SCHIP1	schwannomin interacting protein 1
NM_019708	SCOC	short coiled-coil protein
NM_029756	SDCCAG8	serologically defined colon cancer antigen 8
NM_029100	SEPN1 (includes E	selenoprotein N, 1
NM_025867	SERPINB11	serpin peptidase inhibitor, clade B (ovalbumin), member 11
NM_011454	SERPINB6B	serine (or cysteine) peptidase inhibitor, clade B, member 6b
NM_028385	SETD5	SET domain containing 5
NM_030207	SFI1	Sfi1 homolog, spindle assembly associated (yeast)
NM_024480	SH3BP5L	SH3-binding domain protein 5-like
NM_025340	SHARPIN	SHANK-associated RH domain interactor
NM_181590	SHQ1	SHQ1 homolog (S. cerevisiae)
NM_001029841	SLA	Src-like-adaptor
NM_172796	SLFN13	schlafen family member 13

NM_183201	SLFN5	schlafen family member 5
NM_024230	SMTNL1	smoothelin-like 1
NM_177776	SMTNL2 (includes	smoothelin-like 2
NR_003145	SNHG10 (includes	small nucleolar RNA host gene (non-protein coding) 10
NR_003270	SNHG3	small nucleolar RNA host gene 3 (non-protein coding)
NM_175318	SPTY2D1	SPT2, Suppressor of Ty, domain containing 1 (S. cerevisiae)
NM_001100110	SRP54C	signal recognition particle 54C
NM_009274	SRPK2	SFRS protein kinase 2
NM_001083315	ST7	suppression of tumorigenicity 7
NM_019990	STARD10	StAR-related lipid transfer (START) domain containing 10
NM_023231	STOML2	stomatin (EPB72)-like 2
NM_027890	SUSD2	sushi domain containing 2
NM_025491	SUSD3	sushi domain containing 3
NM_146008	TCP11L2	t-complex 11 (mouse)-like 2
NM_025329	TCTEX1D2	Tctex1 domain containing 2
NR_001579	TERC (includes EC	telomerase RNA component
NM_207176	TES	testis derived transcript (3 LIM domains)
NM_001040400	TET2	tet oncogene family member 2
NM_009388	TKT	transketolase
NM_027249	TLCD2	TLC domain containing 2
NM_026281	TM7SF3	transmembrane 7 superfamily member 3
NM_027154	TMBIM1	transmembrane BAX inhibitor motif containing 1
NM_178874	TMCC2	transmembrane and coiled-coil domain family 2
NM_172051	TMCC3	transmembrane and coiled-coil domain family 3
NM_026104	TMCO5A	transmembrane and coiled-coil domains 5A
NM_025838	TMEM107	transmembrane protein 107
NM_001039723	TMEM120B	transmembrane protein 120B
NM_018872	TMEM131	transmembrane protein 131
NM_001034863	TMEM136 (include	transmembrane protein 136
NM_145580	TMEM149	transmembrane protein 149
NM_025387	TMEM14C	transmembrane protein 14C
NM_144916	TMEM150	transmembrane protein 150
NM_177260	TMEM154	transmembrane protein 154
NM_175187	TMEM161B	transmembrane protein 161B
NM_177592	TMEM164	transmembrane protein 164
NM_026198	TMEM167B	transmembrane protein 167B
NM_026325	TMEM179B	transmembrane protein 179B

NM_144914	TMEM184A	transmembrane protein 184A
NM_025708	TMEM186	transmembrane protein 186
NM_178577	TMEM205	transmembrane protein 205
NM_025667	TMEM222	transmembrane protein 222
NM_144805	TMEM40	transmembrane protein 40
NM_026837	TMEM53	transmembrane protein 53
NM_023440	TMEM86B	transmembrane protein 86B
NM_177124	TNRC6B	trinucleotide repeat containing 6B
NM_030706	TRIM2	tripartite motif-containing 2
NM_020267	TRIM44	tripartite motif-containing 44
NM_001081281	TRIM55	tripartite motif-containing 55
NM_201373	TRIM56	tripartite motif-containing 56
NM_001039047	TRIM58	tripartite motif-containing 58
NM_025863	TRIM59	tripartite motif-containing 59
NM_053166	TRIM7	tripartite motif-containing 7
NM_053100	TRIM8	tripartite motif-containing 8
NM_201357	TSSC1	tumor suppressing subtransferable candidate 1
NM_153392	TTC39A	tetratricopeptide repeat domain 39A
NM_001080769	UHRF1BP1	UHRF1 binding protein 1
NM_029166	UHRF1BP1L	UHRF1 binding protein 1-like
NM_172569	UNK	unkempt homolog (Drosophila)
NM_028789	UNKL (includes EG	unkempt-like (Drosophila)
NM_028357	VEPH1	ventricular zone expressed PH domain homolog 1 (zebrafish)
NM_001102582	VMN2R18	vomer nasal 2, receptor 18
NR_003555	VMN2R29	vomer nasal 2, receptor 29
NM_177184	VPS13C	vacuolar protein sorting 13 homolog C (S. cerevisiae)
NM_001128198	VPS13D	vacuolar protein sorting 13 homolog D (S. cerevisiae)
NM_001081366	VPS8	vacuolar protein sorting 8 homolog (S. cerevisiae)
NM_182636	VWA5B2	von Willebrand factor A domain containing 5B2
NM_001004436	WAPAL	wings apart-like homolog (Drosophila)
NM_016852	WBP2	WW domain binding protein 2
NM_172882	WDFY3	WD repeat and FYVE domain containing 3
NM_172598	WDHD1	WD repeat and HMG-box DNA binding protein 1
NM_145514	WDR26	WD repeat domain 26
NM_175173	WDR27	WD repeat domain 27
NM_001008498	WDR34	WD repeat domain 34
NM_026893	WDR40A	WD repeat domain 40A

NM_030234	WDR76	WD repeat domain 76	
NM_178363	YLPM1	YLP motif containing 1	
NM_001005342	YPEL4	yippee-like 4 (Drosophila)	
NM_153566	YRDC	yrdC domain containing (E. coli)	

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