

Accession Number	Gene Name	Putative biological function (source UniProt)
FP008154	Peptide-N(4)-(N-acetyl-beta-D-glucosaminy)lasparagine amidase F GNFase F (NgI)	Unknown
FP010154	Complement C1q-like protein 4 (C1QL4)	Negative regulation of ERK1 and ERK2 cascades, adipocyte differentiation
AM857325	Neuronal acetylcholine receptor subunit alpha-6 (CHRNA6)	Ion transport
CU991479	Kyphoscoliosis peptidase (KY)	Muscle growth
CU988470	Fos-related antigen 1 (FOSL1)	Embryonic development, cell proliferation and cycle, response to a stimulus
CU984081	Tripartite motif-containing protein 2 (Trim2)	Ubl conjugation pathway
CU997410	Vacuolar protein sorting-associated protein 28 homolog (VPS28)	Protein transport, Transport
CU989588	Dual specificity protein phosphatase 14 (DUSP14)	Involved in the inactivation of MAP kinases
CU990751	S-phase kinase-associated protein 1 (SKP1)	histone H2A monoubiquitination, Cell cycle, Ubl conjugation pathway, Wnt signaling pathway
AM866181	Cytochrome P450 3A4 (CYP3A4)	Lipid metabolism, Steroid metabolism, Sterol metabolism
CU990917	Protein psiR	Unknown
CU986392	Actin-related protein 2/3 complex subunit 2 (ARPC4)	Response to DNA damage by promoting nuclear actin polymerization
AM863962	Nacrein-like protein P2	Regulator for calcification in the shells of mollusks
AM868879	Protein disulfide-isomerase TMX3	Cell redox homeostasis
FP000321	40S ribosomal protein S6 (Rps6)	Cell growth and proliferation
CU987157	Transmembrane protein 233 (TMEM233)	Unknown
AM853237	CD109 antigen Iso2	Cell proliferation, negative regulation of protein phosphorylation
CU988311	COP9 signalosome complex subunit 6 (COPS6)	Post-translational protein modification, nucleotide-excision repair, DNA damage recognition
CU991460	Electroneutral sodium bicarbonate	Ion transport, cell pH

	exchanger 1 (SLC4A8)	regulation and survival
CU996633	Alpha-crystallin B chain Iso2 (CRYAB)	Negative regulation of transcription and apoptotic process
CU986548	Putative tyrosinase-like protein tyr-3	Melanin biosynthetic process
FP010231	Matrix metalloproteinase (MMP)	Collagen degradation, regulation of cell migration and DNA damage
AM866267	Toll-like receptor 3 (TLR3)	Immunity, Inflammatory response, Innate immunity
AM861255	Latent-transforming growth factor beta-binding protein 4 (LTBP4)	Development, cell differentiation, cell growth
AM855778	L-xylulose reductase (DCXR)	Carbohydrate metabolism, Glucose metabolism, Xylose metabolism
CU992874	Polyamine-modulated factor 1-binding protein 1 (PMFBP1)	Spermatogenesis
AM859820	Interferon-induced protein 44 Iso2 (IFI44)	Immune response
CU987577	Peptidyl prolyl cis-trans isomerase B (PIIB)	Developement
CU684943	Period circadian protein Iso2 (Per)	Biological rhythms
CU995019	GMP synthase (GMPS)	Cell division, GMP biosynthesis, Purine biosynthesis
CU984299	Ectoine hydroxylase	unknown
CU987464	Tumor protein p53-inducible protein 11 Iso3 (Tp53I11)	Negative regulation of cell population proliferation
AM865696	Beta-1,4-galactosyltransferase galt-1	N-glycan processing, protein galactosylation
CU683571	Tripartite motif-containing protein 2 (TRIM2)	Ubl conjugation pathway
FP010896	Cytochrome P450 2J6 (CYP2J6)	Metabolism
CU984444	Ankyrin repeat and IBR domain-containing protein 1 (ANKIB1)	Ubl conjugation pathway
CU999022	N-acetylglucosamine-1-phosphodiester alpha-N-acetylglucosaminidase (NAGPA)	Unknown
FP002052	Thymidine phosphorylase (TYMP)	Angiogenesis, Chemotaxis, Cell Differentiation
CU984459	Electrogenic sodium bicarbonate cotransporter 1 (SLC4A4)	Ion transport, Sodium transport, Symport, Transport
AM869057	Immunoglobulin epsilon Fc receptor Iso2 (Fcer2)	Immunity
AM861031	Ubiquitin carboxyl-terminal hydrolase	Immunity, Innate immunity,

	7 (USP14)	Ubl conjugation pathway
AM867288	Glutathione S-transferase Y1	Metabolism
AM868209	E3 ubiquitin-protein ligase MIB2	Notch signaling pathway, Ubl conjugation pathway
FP011170	Baculoviral IAP repeat-containing protein 7-B (birc7-b)	Apoptosis, Ubl conjugation pathway
CU986307	ATP-dependent DNA helicase PIF1	DNA damage, DNA recombination, DNA repair
FP003510	Mediator of RNA polymerase II transcription subunit 27 (MED27)	Transcription regulation
CU997866	Tumor suppressor candidate 3 (TUSC3)	Transport
CU983908	Testis-expressed sequence 33 protein Iso2 (TEX33)	Unknown
AM865729	Manganese-dependent ADP-ribose/CDP-alcohol diphosphatase (ADPRM)	nucleobase-containing small molecule catabolic process
AM860224	Tripartite motif-containing protein 2 (TRIM2)	Ubl conjugation pathway
FP003669	V-type proton ATPase 116 kDa subunit a Iso1 (ATP6V0A1)	Ion transport
FP004994	Spermatogenesis-associated protein 7 (SPATA7)	Sensory transduction
CU995574	Putative gamma-glutamyltransferase ywrD	Glutathione catabolic process
FP009897	1,2-dihydroxy-3-keto-5-methylthiopentene dioxygenase (Adi1)	Amino-acid biosynthesis, Methionine biosynthesis
AM854745	Ubiquitin-conjugating enzyme E2 D4 (UBE2D4)	Ubl conjugation pathway
CX069279	Carboxypeptidase B (CPB1)	Proteolysis
CU683581	Golgi phosphoprotein 3 (GOLPH3)	Protein transport
AM855770	Neurogenic locus notch homolog protein 1 (NOTCH1)	Angiogenesis, Differentiation, Notch signaling pathway, Development, Transcription regulation
FP007485	Sodium-coupled monocarboxylate transporter 1 (SLC5A1)	Apoptosis, Ion transport, Sodium transport, Symport
AM856659	CUB and sushi domain-containing protein 3 (CSMD3)	Regulation of dendrite development
CX069305	Complement C1q-like protein 4 (C1QL4)	Negative regulation of ERK1 and ERK2 cascade, may inhibit adipocyte differentiation at an early stage
CU999029	Proteasome subunit alpha type-1	Circadian rhythm,

	(Prosalpha6)	proteasome-mediated ubiquitin-dependent protein catabolic process, Toll signaling pathway
CU987396	Coiled-coil domain-containing protein 178 (CCDC178)	Unknown
CU992173	28S ribosomal protein S12, mitochondrial (MRPS12)	Mitochondrial translation
AM861630	Rhomboid-related protein 4 (RHHBDD1)	Apoptosis, Differentiation, Spermatogenesis
CU987910	Speckle-type POZ protein (SPOP)	Ubl conjugation pathway
CX069297	Neuroendocrine convertase 1 (PCSK1)	Cell signaling, peptide and protein processing
CU994588	Ankyrin repeat and SOCS box protein 3 (ASB3)	Ubl conjugation pathway
FP001911	Synoviocyte proliferation-associated in collagen-induced arthritis protein 1 (Saal1)	Response to stimulus, cell proliferation
CU990223	Integumentary mucin C.1	Reponse to stimulus, immunity
CU685643	Receptor-type tyrosine-protein phosphatase kappa (PTPRK)	Cell cycle, cell proliferation, cell migration, transcription
CU988555	Pre-mRNA-splicing factor SYF2	Gastrulation, embryonic organ development, cell cycle, RNA splicing
CU991046	Homeobox protein orthopedia (Otp)	Differentiation, Neurogenesis, Transcription regulation
AM854715	Fatty acyl-CoA hydrolase precursor, medium chain	Fatty acid biosynthesis, Fatty acid metabolism, Lipid biosynthesis, Lipid metabolism
FP007109	EAL domain-containing protein	Unknown