

Table S1: Full list of 298 entries under the annotation of expressed in the “testis” from the Eurexpress database

HUGO approved gene name	Non-HUGO symbols listed in Eurexpress	HUGO approved name
1700011H14Rik	1700011H14Rik	*
Aatf		Apoptosis Antagonizing Transcription Factor
Abhd17c	2210412D01Rik	Abhydrolase Domain Containing 17C
Abl2		ABL Proto-Oncogene 2, Non-Receptor Tyrosine Kinase
Abtb2		Ankyrin Repeat And BTB (POZ) Domain Containing 2
Acsbg1		Acyl-Coa Synthetase Bubblegum Family Member 1
Adamts16		ADAM Metallopeptidase With Thrombospondin Type 1 Motif 16
Adamts2		ADAM Metallopeptidase With Thrombospondin Type 1 Motif 2
Adh1		Alcohol Dehydrogenase 1A (Class I), Alpha Polypeptide
Ajap1		Adherens Junctions Associated Protein 1
Akr1cl	4921521F21Rik	Aldo-Keto Reductase Family 1, Member C-Like
Amh		Anti-Mullerian Hormone
Anxa11		Annexin A11
Anxa4		Annexin A4
Ap3b2		Adaptor Related Protein Complex 3 Beta 2 Subunit
Apc		APC, WNT Signaling Pathway Regulator
Apex1		Apurinic/Apyrimidinic Endodeoxyribonuclease 1
Apln		Apelin
Arl6ip2		Atlastin Gtpase 2
Art5		ADP-Ribosyltransferase 5
Ash2l		ASH2 Like Histone Lysine Methyltransferase Complex Subunit
Aspa		Aspartoacylase
Atp1b1		Atpase Na ⁺ /K ⁺ Transporting Subunit Beta 1
Atp6v1b1		Atpase H ⁺ Transporting V1 Subunit B1
Atp6v1e1		Atpase H ⁺ Transporting V1 Subunit E1
Atp8b2		Atpase Phospholipid Transporting 8B2
Bbx		BBX, HMG-Box Containing
BC034902	BC034902	*
Bex2		Brain Expressed X-Linked 2
Bra1		BRCA1, DNA Repair Associated
Btf3		Basic Transcription Factor 3
Bub1		BUB1 Mitotic Checkpoint Serine/Threonine Kinase
Bub1b		BUB1 Mitotic Checkpoint Serine/Threonine Kinase B
Camkk2		Calcium/Calmodulin Dependent Protein Kinase Kinase 2
Casp6		Caspase 6
Cd34		CD34 Molecule
Cdca7l		Cell Division Cycle Associated 7 Like
Cdk5rap1		CDK5 Regulatory Subunit Associated Protein 1
Cenpj		Centromere Protein J
Cenpo	2810429O05Rik	Centromere Protein O

Cep68	BC027174	Centrosomal Protein 68
Clca1		Chloride Channel Accessory 1
Clca4		Chloride Channel Accessory 4
Clcn2		Chloride Voltage-Gated Channel 2
Cldn13		Claudin 13
Clmn		Calmin
Cobl1		Cordon-Bleu WH2 Repeat Protein Like 1
Col4a1		Collagen Type IV Alpha 1 Chain
Col9a3		Collagen Type IX Alpha 3 Chain
Copb2		Coatomer Protein Complex Subunit Beta 2
Csrp1		Cysteine And Glycine Rich Protein 1
Ctnna2		Catenin Alpha 2
Cx3cl1		C-X3-C Motif Chemokine Ligand 1
Cxadr		Coxsackie Virus And Adenovirus Receptor
Cxcl12		C-X-C Motif Chemokine Ligand 12
Cxxc6		Tet Methylcytosine Dioxygenase 1
Cyp11a1		Cytochrome P450 Family 11 Subfamily A Member 1
Cyp51		Cytochrome P450 Family 51 Subfamily A Member 1
D930030O05Rik	D930030O05Rik	*
Daam2		Dishevelled Associated Activator Of Morphogenesis 2
Dcun1d5	4833420K19Rik	DCN1, Defective In Cullin Neddylation 1, Domain Containing 5
Ddx41		DEAD-Box Helicase 41
Ddx48		Eukaryotic Translation Initiation Factor 4A3
Dnmt3b		DNA Methyltransferase 3 Beta
Dppa3		Developmental Pluripotency Associated 3
Dppa5		Developmental Pluripotency Associated 5
Drg1		Developmentally Regulated GTP Binding Protein 1
Dsp		Desmoplakin
E430025E21Rik		*
Eif2b1		Eukaryotic Translation Initiation Factor 2B Subunit Alpha
Eif2s3y		Eukaryotic Translation Initiation Factor 2, Subunit 3, Structural Gene Y-Linked
Elavl2		ELAV Like RNA Binding Protein 2
Eps8		Epidermal Growth Factor Receptor Pathway Substrate 8
Eps8l2		EPS8 Like 2
Ets1		ETS Proto-Oncogene 1, Transcription Factor
Etv5		ETS Variant 5
Fads1		Fatty Acid Desaturase 1
Fam214a	BC031353	Family With Sequence Similarity 214, Member A
Fasn		Fatty Acid Synthase
Fastkd2	2810421I24Rik	FAST Kinase Domains 2
Fbrsl1	2410025L10Rik	Fibrosin-Like 1
Fiz1		FLT3 Interacting Zinc Finger 1
Fosl2		FOS Like 2, AP-1 Transcription Factor Subunit

Foxn2		Forkhead Box N2
Frzb		Frizzled-Related Protein
Fthfd		Aldehyde Dehydrogenase 1 Family Member L1
Fzd3		Frizzled Class Receptor 3
Gas6		Growth Arrest Specific 6
Gem		GTP Binding Protein Overexpressed In Skeletal Muscle
Gjb2		Gap Junction Protein Beta 2
Gmn		Geminin, DNA Replication Inhibitor
Gnl3		G Protein Nucleolar 3
Gpc4		Glypican 4
Gpr37		G Protein-Coupled Receptor 37
Gpr56		Adhesion G Protein-Coupled Receptor G1
Gprk5		G Protein-Coupled Receptor Kinase 5
Gramd1b		GRAM Domain Containing 1B
Grrp1		Family With Sequence Similarity 110 Member D
Gsta4		Glutathione S-Transferase Alpha 4
Gstm1		Glutathione S-Transferase Mu 1
Gstm4		Glutathione S-Transferase Mu 4
Gstm5		Glutathione S-Transferase Mu 5
Gstm7		Glutathione S-Transferase, Mu 7
Gtf2b		General Transcription Factor IIB
Gtf2e2		General Transcription Factor IIE Subunit 2
Gtf3c3		General Transcription Factor IIIC Subunit 3
Gucy1a3		Guanylate Cyclase 1 Soluble Subunit Alpha
Gucy1b3		Guanylate Cyclase 1 Soluble Subunit Beta
Hadhsc		Hydroxyacyl-CoA Dehydrogenase
Hat1		Histone Acetyltransferase 1
Heatr1	B130016L12Rik	HEAT Repeat Containing 1
Hmg20a		High Mobility Group 20A
Hmga1		High Mobility Group AT-Hook 1
Hoxd9		Homeobox D9
Hs6st1		Heparan Sulfate 6-O-Sulfotransferase 1
Hsd17b7		Hydroxysteroid 17-Beta Dehydrogenase 7
Hsd17b7		Hydroxysteroid 17-Beta Dehydrogenase 7 Pseudogene 2
Hsd3b3		Hydroxy-Delta-5-Steroid Dehydrogenase, 3 Beta- And Steroid Delta-Isomerase 3
Hsp90aa1		Heat Shock Protein 90 Alpha Family Class A Member 1
Hspa1a		Heat Shock Protein Family A (Hsp70) Member 1A
Hspa2		Heat Shock Protein Family A (Hsp70) Member 2
Iah1	4833421E05Rik	Isoamyl Acetate-Hydrolyzing Esterase 1 Homolog
Idh1		Isocitrate Dehydrogenase (NADP(+)) 1, Cytosolic
Idi1		Isopentenyl-Diphosphate Delta Isomerase 1
Ier5l		Immediate Early Response 5 Like
Ifi27	D12Ert647e	Interferon, Alpha-Inducible Protein 27

Ifitm7		
Immt		Inner Membrane Mitochondrial Protein
Irf1		Interferon Regulatory Factor 1
Itga9		Integrin Subunit Alpha 9
Itgb8		Integrin Subunit Beta 8
Kcnt1		Potassium Sodium-Activated Channel Subfamily T Member 1
Kctd14		Potassium Channel Tetramerization Domain Containing 14
Kif2c		Kinesin Family Member 2C
Kirrel2		Kin Of IRRE Like 2 (Drosophila)
L3mbtl		L(3)Mbt-Like 1 (Drosophila)
Lba1		Tetratricopeptide Repeat And Ankyrin Repeat Containing 1
Lin28		Lin-28 Homolog A
Liph		Lipase H
Lisch7		Lipolysis Stimulated Lipoprotein Receptor
LOC620538		*
LOC673219		*
Lyar		Ly1 Antibody Reactive
Mafg		MAF Bzip Transcription Factor G
Mcm8		Minichromosome Maintenance 8 Homologous Recombination Repair Factor
Melk		Maternal Embryonic Leucine Zipper Kinase
Mettl25	BC067068	Methyltransferase Like 25
Mmp8		Matrix Metalloproteinase 8
mmu-miR-291a-5p		^
mmu-miR-291b-5p		^
mmu-miR-696		^
Mod1		Chromobox 1
Mphosph6		M-Phase Phosphoprotein 6
Mpp3		Membrane Palmitoylated Protein 3
Mrpl23		Mitochondrial Ribosomal Protein L23
Mrpl24		Mitochondrial Ribosomal Protein L24
Mrps27		Mitochondrial Ribosomal Protein S27
Mtif2		Mitochondrial Translational Initiation Factor 2
Mybbp1a		MYB Binding Protein 1a
Mybl1		MYB Proto-Oncogene Like 1
Nat10		N-Acetyltransferase 10
Ndufa9		NADH:Ubiquinone Oxidoreductase Subunit A9
Ndufab1		NADH:Ubiquinone Oxidoreductase Subunit AB1
Ndufs1		NADH:Ubiquinone Oxidoreductase Core Subunit S1
Ndufs3		NADH:Ubiquinone Oxidoreductase Core Subunit S3
Ndufv1		NADH:Ubiquinone Oxidoreductase Core Subunit V1
Nepro	BC027231	Nucleolus And Neural Progenitor Protein
Nfe2		Nuclear Factor, Erythroid 2
Npr1		Natriuretic Peptide Receptor 1

Nr4a1		Nuclear Receptor Subfamily 4 Group A Member 1
Nrg1		Neuregulin 1
Nsmaf		Neutral Sphingomyelinase Activation Associated Factor
Nts		Neurotensin
Nup11		Nucleoporin 58
Nutf2		Nuclear Transport Factor 2
Orc5l		Origin Recognition Complex Subunit 5
Osbp110		Oxysterol Binding Protein Like 10
Parm1	9130213B05Rik	Prostate Androgen-Regulated Mucin-Like Protein 1
Pcanap6		Solute Carrier Family 45 Member 3
Pcmt1	A030012M09Rik	Protein-L-Isoaspartate (D-Aspartate) O-Methyltransferase Domain Containing 1
Pcsk6		Proprotein Convertase Subtilisin/Kexin Type 6
Pdgfa		Platelet Derived Growth Factor Subunit A
Pdzd4		PDZ Domain Containing 4
Per2		Period Circadian Clock 2
Pgpep1		Pyroglutamyl-Peptidase I
Pink1		PTEN Induced Putative Kinase 1
Pip5k2a		Phosphatidylinositol-5-Phosphate 4-Kinase Type 2 Alpha
Pla2g5		Phospholipase A2 Group V
Plekha1		Pleckstrin Homology Domain Containing A1
Plekha2		Pleckstrin Homology Domain Containing A2
Polr2h		RNA Polymerase II Subunit H
Polr2l		RNA Polymerase II Subunit L
Polr3f		RNA Polymerase III Subunit F
Por		Cytochrome P450 Oxidoreductase
Por		Porcupine Homolog (Drosophila)
Pou6f1		POU Class 6 Homeobox 1
Ppm1a		Protein Phosphatase, Mg2+/Mn2+ Dependent 1A
Ppt1		Palmitoyl-Protein Thioesterase 1
Prkar2b		Protein Kinase Camp-Dependent Type II Regulatory Subunit Beta
Prlr		Prolactin Receptor
Prlr		Prolactin Receptor
Prss15		Lon Peptidase 1, Mitochondrial
Psm1		Proteasome Subunit Alpha 1
Ptpro		Protein Tyrosine Phosphatase, Receptor Type O
Ptpro		Protein Tyrosine Phosphatase, Receptor Type U
Rad52b		RAD52 Motif Containing 1
Rbbp7		RB Binding Protein 7, Chromatin Remodeling Factor
Rcc2		Regulator Of Chromosome Condensation 2
Rcl1		RNA Terminal Phosphate Cyclase Like 1
Reep2	BC020184	Receptor Accessory Protein 2
Ren1		
Rgs11		Regulator Of G-Protein Signaling 11

Rhpn1		Rhophilin Rho Gtpase Binding Protein 1
Rmdn2		Regulator Of Microtubule Dynamics 2
Rnf138		Ring Finger Protein 138
Rnf181	2500002L14Rik	Ring Finger Protein 181
Rnf213	D11ErtD759e	Ring Finger Protein 213
Rnf34		Ring Finger Protein 34
Rnmt		RNA Guanine-7 Methyltransferase
Rpp30		Ribonuclease P/MRP Subunit P30
Rps27l		Ribosomal Protein S27 Like
Sc4mol		Methylsterol Monooxygenase 1
Scarb1		Scavenger Receptor Class B Member 1
Schip1		Schwannomin Interacting Protein 1
Scrn2		Secernin 2
Sct		Secretin
Sec11l1		SEC11 Homolog A, Signal Peptidase Complex Subunit
Senp8		SUMO/Sentrin Peptidase Family Member, NEDD8 Specific
Serpinb6a		Serine (Or Cysteine) Peptidase Inhibitor, Clade B, Member 6a
Sgk3		Serum/Glucocorticoid Regulated Kinase Family Member 3
Sil1		SIL1 Nucleotide Exchange Factor
Slc16a1		Solute Carrier Family 16 Member 1
Slc20a1		Solute Carrier Family 20 Member 1
Slc25a31		Solute Carrier Family 25 Member 31
Slc25a39	D11ErtD333e	Solute Carrier Family 25, Member 39
Slc29a1		Solute Carrier Family 29 Member 1 (Augustine Blood Group)
Slc38a1		Solute Carrier Family 38 Member 1
Slc44a1		Solute Carrier Family 44 Member 1
Slc7a5		Solute Carrier Family 7 Member 5
Smarca4		SWI/SNF Related, Matrix Associated, Actin Dependent Regulator Of Chromatin, Subfamily A, Member 4
Smoc1		SPARC Related Modular Calcium Binding 1
Snrpn		Small Nuclear Ribonucleoprotein Polypeptide N
Snw1		SNW Domain Containing 1
Sostdc1		Sclerostin Domain Containing 1
Sox2		SRY-Box 2
Sox4		SRY-Box 4
Spice1	D16ErtD480e	Spindle And Centriole Associated Protein 1
Srfbp1		Serum Response Factor Binding Protein 1
Srpx2		Sushi Repeat Containing Protein, X-Linked 2
Star		Steroidogenic Acute Regulatory Protein
Star		Guanylate Cyclase 2C
Star		Steroidogenic Acute Regulatory Protein
Stc1		Stanniocalcin 1
Stc2		Stanniocalcin 2
Stk25		Serine/Threonine Kinase 25

Stxbp2		Syntaxin Binding Protein 2
Tacr3		Tachykinin Receptor 3
Tacstd1		Epithelial Cell Adhesion Molecule
Taf7		TATA-Box Binding Protein Associated Factor 7
Tbc1d8		TBC1 Domain Family Member 8
Tcf21		Transcription Factor 21
Tde1		Serine Incorporator 3
Tdrd12	2410004F06Rik	Tudor Domain Containing 12
Tesc		Tescalcin
Tex2		Testis Expressed 2
Tex261		Testis Expressed 261
Tgif		TGFB Induced Factor Homeobox 1
Timm8b		Translocase Of Inner Mitochondrial Membrane 8 Homolog B
Tle6		Transducin Like Enhancer Of Split 6
Tmcc3		Transmembrane And Coiled-Coil Domain Family 3
Tmem22		Solute Carrier Family 35 Member G2
Tmem35		Transmembrane Protein 35A
Tmem64	9630015D15Rik	Transmembrane Protein 64
Tmem86a	1810054O13Rik	Transmembrane Protein 86A
Tpd52		Tumor Protein D52
Tpr		Translocated Promoter Region, Nuclear Basket Protein
Trim71		Tripartite Motif Containing 71
Trip13		Thyroid Hormone Receptor Interactor 13
Trpv2		Transient Receptor Potential Cation Channel Subfamily V Member 2
Ttrap		Transformation/Transcription Domain Associated Protein
Ttc39c	2810439F02Rik	Tetratricopeptide Repeat Domain 39C
Txnrd2		Thioredoxin Reductase 2
Tyro3		TYRO3 Protein Tyrosine Kinase
Ube2t		Ubiquitin Conjugating Enzyme E2 T
Uchl1		Ubiquitin C-Terminal Hydrolase L1
Uchl5		Ubiquitin C-Terminal Hydrolase L5
Usf1		Upstream Transcription Factor 1
Utn		Utrophin
Wdr10		Intraflagellar Transport 122
Wdr21		DDB1 And CUL4 Associated Factor 4
Wdr31		WD Repeat Domain 31
Wdr36		WD Repeat Domain 36
Xrcc6		X-Ray Repair Cross Complementing 6
Yars2		Tyrosyl-Trna Synthetase 2
Zdhhc24		Zinc Finger DHHC-Type Containing 24
Zfp451		Zinc Finger Protein 451
Zfp516		Zinc Finger Protein 516