



MOLECULAR PRODUCTS

ELISA, antibody , PCR, cell culture,
lentiviral cDNA clones

- [Etiquettes compl ter par 25 WOX 31 Beschrijfbare etiketten Per 25 kaarten WOX 31 AB Labels Pack CD](#)
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- [Stylets pour cran tactile 3 pack Stylus Pens 3 Pack A3 Spare Parts Accessories Pack PK](#)
- [WRAP 1 427 WRAP 1 427 AF Systems Consumables Pack RL Width 12 7 Height 19 05](#)
- [WRAP 10 427 WRAP 10 427 AF Systems Consumables Pack RL Width 25 4 Height 57 15](#)
- [WRAP 11 427 WRAP 11 427 AF Systems Consumables Pack RL Width 12 7 Height 12 7](#)
- [WRAP 12 427 WRAP 12 427 AF Systems Consumables Pack RL Width 50 8 Height 38 1](#)
- [WRAP 13 499 WRAP 13 499 AF Systems Consumables Pack RL Width 25 4 Height 25 4](#)
- [WRAP 2 427 WRAP 2 427 AF Systems Consumables Pack RL Width 25 4 Height 12 40](#)
- [WRAP 3 427 WRAP 3 427 AF Systems Consumables Pack RL Width 25 4 Height 31 75](#)
- [WRAP 4 427 WRAP 4 427 AF Systems Consumables Pack RL Width 25 4 Height 38 10](#)
- [WRAP 5 427 WRAP 5 427 AF Systems Consumables Pack RL Width 38 10 Height 63 5](#)
- [WRAP 6 427 WRAP 6 427 AF Systems Consumables Pack RL Width 50 80 Height 76 20](#)
- [WRAP 7 499 WRAP 7 499 AF Systems Consumables Pack RL Width 12 7 Height 19 05](#)
- [WRAP 8 499 WRAP 8 499 AF Systems Consumables Pack RL Width 25 4 Height 38 10](#)
- [WRAP 9 499 WRAP 9 499 AF Systems Consumables Pack RL Width 50 80 Height 50 80](#)
- [WRAPTOR WIRE ID PRINTER APPLICATOR WRAPTOR WIRE ID PRINTER APPLICATOR AA Systems Pack RL](#)
- [Etiquettes compl ter par 25 WTP 6 Beschrijfbare etiketten Per 25 kaarten WTP 6 AB Labels Pack PK Width 19 00 Height 0](#)
- [Etiquettes compl ter par 25 WTP 7 Beschrijfbare etiketten Per 25 kaarten WTP 7 AB Labels Pack PK Width 16 00 Height 0](#)
- [Etiquettes XTHT 17 8423 5 Etiketten XTHT 17 8423 5 AB Labels Pack RL Width 50 8 Height 25 4](#)
- [Etiquettes XTHT 18 8423 5 Etiketten XTHT 18 8423 5 AB Labels Pack RL Width 76 2 Height 25 4](#)
- [Etiquettes XTHT 19 8423 3 Etiketten XTHT 19 8423 3 AB Labels Pack RL Width 76 2 Height 50 8](#)
- [Etiquettes XTHT 55 8423 3 Etiketten XTHT 55 8423 3 AB Labels Pack RL Width 101 6 Height 50 8](#)
- [XerumFree](#)
- [DenHyb HYBRIDIZATION SOLUTION DAPI in Fluoroguard 1 g ml](#)
- [DenHyb HYBRIDIZATION SOLUTION cDenHyb 1 For general cell FISH](#)
- [DenHyb HYBRIDIZATION SOLUTION cDenHyb 2](#)
- [DenHyb HYBRIDIZATION SOLUTION cDenHyb Trial Set One 0 5 ml vial of cDenHyb 1 and one 0 5 ml vial of cDenHyb 2](#)
- [DenHyb HYBRIDIZATION SOLUTION tDenHyb 1 For general tissue FISH](#)
- [DenHyb HYBRIDIZATION SOLUTION tDenHyb 2 For tissue FISH with unique sequence probes](#)
- [DenHyb HYBRIDIZATION SOLUTION tDenHyb Trial Set One 0 5 ml vial of tDenHyb 1 and one 0 5 ml vial of tDenHyb 2](#)
- [2 WELL GLASS SLIDE FOR INTERPHASE FISH 2 Well slides for interphase FISH](#)
- [SILICONIZED COVERGLASS Cover Glasses Silicized 12 mm circle](#)
- [SILICONIZED COVERGLASS Cover Glasses Silicized 15 mm circle](#)
- [SILICONIZED COVERGLASS Cover Glasses Silicized 18 mm circle](#)
- [SILICONIZED COVERGLASS Cover Glasses Silicized 22 mm circle](#)
- [SILICONIZED COVERGLASS Cover Glasses Silicized 22 mm square](#)
- [SILICONIZED COVERGLASS Cover Glasses Silicized 22 x 40 mm](#)
- [SILICONIZED COVERGLASS Cover Glasses Silicized 22 x 60 mm](#)
- [REAGENTS REQUIRED FOR TISSUE PRE TREATMENT TissueDigest Reagent 20X](#)
- [REAGENTS REQUIRED FOR TISSUE PRE TREATMENT TissueDigest Diluent 10X](#)
- [REAGENTS REQUIRED FOR TISSUE PRE TREATMENT Tissue Pre Conditioner 10X](#)
- [REAGENTS REQUIRED FOR TISSUE PRE TREATMENT SkipDewax Trial Size 10X](#)
- [REAGENTS REQUIRED FOR TISSUE PRE TREATMENT SkipDewax 10X](#)
- [Tissue Pre Treatment Kit with Pre Conditioner Each](#)
- [Tissue Pre Treatment Kit with SkipDewax](#)
- [Basic Tissue FISH Kit with Pre Conditioner](#)
- [MagSi DNA clean FIX](#)
- [50ml centrifuge tube Bulk Qty bag 25](#)
- [15ml centrifuge tube Bulk Qty bag 50](#)
- [Antibody A1AT Host Goat](#)
- [Antibody A2M Host Goat](#)
- [Antibody AGP Host Goat](#)
- [Antibody ALB Host Goat](#)
- [Antibody Apo A1 native immunogen Host Goat](#)
- [Antibody Apo A1 mixture native and recombinant immunogen Host Goat](#)
- [Antibody Apo A1r recombinant immunogen Host Goat](#)
- [Antibody Apo B Host Goat](#)
- [Antibody Apo E recombinant immunogen Host Goat](#)
- [Antibody ATIII Host Goat](#)
- [Antibody Beta2M Host Goat](#)
- [Antibody C3 Host Goat](#)
- [Antibody C4 Host Goat](#)
- [Antibody CRP Host Goat](#)
- [Antibody HAP Host Goat](#)
- [Antibody IgA Host Goat](#)
- [Antibody IgE Host Goat](#)
- [Antibody IgG Fc Host Goat](#)
- [Antibody IgM Host Goat](#)
- [Antibody KAP Free Bound Host Goat](#)
- [Antibody LAM Free Bound Host Goat](#)
- [Antibody MYO Host Goat](#)
- [Antibody PAL Host Goat](#)
- [Antibody SAA Host Goat](#)
- [Antibody SAP Host Goat](#)
- [Antibody TRF Host Goat](#)
- [Apo A1 B Cal MBC Human Calibrators Minimum order volume 10 mLs Calibrator Level 3 300 mg dL 300 mg dL](#)
- [CRP Cal MBC Human Calibrators Minimum order volume 10 mLs Calibrator Level 3 25 mg dL](#)
- [CRP Cal MBC Human Calibrators Minimum order volume 10 mLs Calibrator 100 mg dL](#)
- [GSP Cal MBC Human Calibrators Minimum order volume 10 mLs General Serum Calibrator Request C of A](#)
- [Lp a Cal MBC Human Calibrators Minimum order volume 10 mLs Calibrator Level 3 100 mg dL](#)
- [NHS Normal Human Serum one liter qty MBC Normal Serum Products Minimum order volume 1 000 mLs](#)
- [NGS Normal Goat Serum one liter qty MBC Normal Serum Products Minimum order volume 1 000 mLs](#)
- [Antibody Bovine Colostrum IgG Antiser a to Animals Minimum order volume 20 mLs](#)
- [Antibody Equine IgG H L Antiser a to Animals Minimum order volume 20 mLs](#)
- [Antibody Porcine IgG H L Antiser a to Animals Minimum order volume 20 mLs](#)
- [Antibody Camelid IgG H L Antiser a to Animals Minimum order volume 20 mLs](#)
- [Bovine Serum Cal IgG range of 30 35 mg mL](#)
- [Equine Serum Cal IgG range of 30 37 mg mL](#)
- [Porcine Serum Cal IgG range of 20 27 mg mL](#)
- [Bovine Serum Control IgG 17 19 mg mL](#)
- [Bovine Serum Standard IgG](#)
- [Equine Serum Control IgG](#)
- [Equine Serum Standard IgG](#)
- [Antibody Diluent TRIS Saline pH 7 7](#)
- [Polymer Buffer 1 TRIS Saline PEG 8000 3 Triton pH 7 6](#)
- [Polymer Buffer 2 TRIS Saline PEG 8000 5 Triton pH 7 5](#)
- [Apo A1 B Diluent liquid stabilized apolipoprotein deficient serum](#)
- [Lp a Diluent liquid stabilized lipoprotein a deficient serum](#)
- [CIDE A Antibody](#)
- [CIDE B Antibody](#)
- [IRAK 2 Antibody](#)
- [IL 1RAcP Antibody](#)
- [Caspase 13 Antibody](#)
- [DC SIGN Antibody](#)
- [IRAK M Antibody](#)
- [TACI Antibody](#)
- [IL 21 Receptor Antibody](#)
- [IL 22 Receptor Antibody](#)
- [Caspase 14 Antibody](#)
- [ILP 2 Antibody](#)
- [Bcl B Antibody](#)
- [Bcl G Antibody](#)
- [Caspase 12 Antibody Large](#)
- [Caspase 12 Antibody Small](#)
- [MD 2 Antibody](#)
- [T cadherin Antibody](#)
- [LAMP 2 Antibody](#)
- [LAMP 1 Antibody](#)
- [XBP 1 Antibody](#)
- [IL 31 Antibody](#)
- [IL 32 Antibody](#)
- [IL 23 Antibody](#)
- [IL 27 Antibody](#)
- [TIM 1 Antibody](#)
- [TIM 4 Antibody](#)
- [MD 1 Antibody](#)
- [Bfl 1 Antibody](#)
- [RIG 1 Antibody](#)
- [Blimp 1 Antibody](#)
- [PDL 1 Antibody](#)
- [PDL 2 Antibody](#)
- [PD 1 Antibody](#)
- [ARF BP1 Antibody](#)
- [Strep tag II Antibody](#)
- [IFN beta Antibody](#)
- [IEX 1 Antibody](#)
- [IL 33 Antibody](#)
- [TOCA 1 Antibody](#)
- [Nhe 1 Antibody](#)
- [CXCR4 Lo Antibody](#)
- [Adenovirus 9 E4 Orf1 Antibody](#)
- [IL 34 Antibody](#)
- [PIG Y Antibody](#)
- [OCC 1 Antibody](#)
- [erbB 2 Antibody](#)
- [beta Galactosidase Antibody](#)
- [LDL R Antibody](#)
- [IA 1 Antibody](#)
- [IA 6 Antibody](#)
- [CCDC47 Antibody](#)
- [PPAPDC1A Antibody](#)
- [PPAPDC2 Antibody](#)
- [PPAPDC3 Antibody](#)
- [TMEM38A Antibody](#)
- [RHBDD1 Antibody](#)
- [RHBDD2 Antibody](#)
- [RHBDD3 Antibody](#)
- [INCA1 Antibody](#)
- [SLFN12 Antibody](#)
- [SLFN14 Antibody](#)
- [Girdin Antibody](#)
- [MRE11 Antibody](#)
- [NAT11 Antibody](#)
- [PICALM Antibody](#)
- [PRDM16 Antibody](#)
- [TRESK Antibody](#)
- [TSPAN9 Antibody](#)
- [VLK Antibody](#)
- [SYNGR1 Antibody](#)
- [SYNGR3 Antibody](#)
- [REEP2 Antibody](#)
- [REEP3 Antibody](#)
- [LXR A Antibody](#)
- [LXR B Antibody](#)
- [ARHGAP18 Antibody](#)
- [CALHM1 Antibody](#)
- [RSRC1 Antibody](#)
- [ZSCAN1 Antibody](#)
- [LZTR2 Antibody](#)
- [BCAS3 Antibody](#)
- [BCAS4 Antibody](#)
- [DCLK1 Antibody](#)
- [DCLK2 Antibody](#)
- [DCLK3 Antibody](#)
- [CAZIP Antibody](#)
- [LRRC19 Antibody](#)
- [TMEM70 Antibody](#)
- [Slc37A2 Antibody](#)
- [LYRM1 Antibody](#)
- [LYRM2 Antibody](#)
- [LYRM3 Antibody](#)
- [RANBP10 Antibody](#)
- [Maelstrom Antibody](#)
- [NSA1 Antibody](#)
- [ZC3H12A Antibody](#)
- [ZC3H12B Antibody](#)
- [ZC3H12C Antibody](#)
- [ZC3H12D Antibody](#)
- [TMEM184B Antibody](#)
- [TMEM184C Antibody](#)
- [ADAMTSL5 Antibody](#)
- [ENC 1 Antibody](#)
- [ENC 2 Antibody](#)
- [FAM82A1 Antibody](#)
- [TCC52 Antibody](#)
- [TINP1 Antibody](#)
- [Swine H1N1 Nucleocapsid Protein Antibody](#)
- [APC1 Antibody](#)
- [APC3 Antibody](#)
- [APC4 Antibody](#)
- [APC5 Antibody](#)
- [APC6 Antibody](#)
- [APC7 Antibody](#)
- [APC8 Antibody](#)
- [APC10 Antibody](#)
- [APC11 Antibody](#)



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- [APC13 Antibody](#)
- [PIAS1 Antibody](#)
- [SAE2 Antibody](#)
- [SUMO2 3 Antibody](#)
- [MMS21 Antibody](#)
- [RBBP8 Antibody](#)
- [C. raf Antibody](#)
- [ATG9B Antibody](#)
- [ATG13 Antibody](#)
- [ATG101 Antibody](#)
- [USP10 Antibody](#)
- [IFITM1 Antibody](#)
- [FOXO4 Antibody](#)
- [ZEB1 Antibody](#)
- [FREM1 Antibody](#)
- [FREM2 Antibody](#)
- [ZC3HAV1 Antibody](#)
- [SCUBE1 Antibody](#)
- [SCRN1 Antibody](#)
- [SCRN3 Antibody](#)
- [ATP11A Antibody](#)
- [CaBP7 Antibody](#)
- [CaBP8 Antibody](#)
- [CCDC106 Antibody](#)
- [CRISP2 Antibody](#)
- [HVCN1 Antibody](#)
- [SESTD1 Antibody](#)
- [Slc30A8 Antibody](#)
- [WDR92 Antibody](#)
- [SH3RF2 Antibody](#)
- [NOD1 Antibody](#)
- [NOD3 Antibody](#)
- [NOD4 Antibody](#)
- [NOD5 Antibody](#)
- [NOD6 Antibody](#)
- [NALP4 Antibody](#)
- [NALP5 Antibody](#)
- [NALP6 Antibody](#)
- [NALP7 Antibody](#)
- [NALP8 Antibody](#)
- [NALP10 Antibody](#)
- [NALP11 Antibody](#)
- [NALP12 Antibody](#)
- [NALP13 Antibody](#)
- [NALP14 Antibody](#)
- [BANP Antibody](#)
- [CIITA Antibody](#)
- [MOX1 Antibody](#)
- [ZNF346 Antibody](#)
- [PLAC1 Antibody](#)
- [PLAC2 Antibody](#)
- [PLAC3 Antibody](#)
- [PLAC4 Antibody](#)
- [MFSD1 Antibody](#)
- [MFSD2A Antibody](#)
- [MFSD2B Antibody](#)
- [PIWI L1 Antibody](#)
- [PIWI L3 Antibody](#)
- [APBA2 Antibody](#)
- [CXXC4 Antibody](#)
- [EFCAB4A Antibody](#)
- [EFCAB4B Antibody](#)
- [LMBRD1 Antibody](#)
- [SYNPO Antibody](#)
- [SYNPO2 Antibody](#)
- [SYNPO2L Antibody](#)
- [PEAR1 Antibody](#)
- [SHISA9 Antibody](#)
- [TMEM59 Antibody](#)
- [ZIP1 Antibody](#)
- [ZIP2 Antibody](#)
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- [ZIP8 Antibody](#)
- [ZIP9 Antibody](#)
- [ZIP12 Antibody](#)
- [ZIP13 Antibody](#)
- [ZIP14 Antibody](#)
- [KLOTHO Antibody](#)
- [REQUIEM Antibody](#)
- [CXXC5 Antibody](#)
- [WIZ Antibody](#)
- [ZBTB4 Antibody](#)
- [ZBTB5 Antibody](#)
- [ZBTB8 Antibody](#)
- [ZMYM1 Antibody](#)
- [ZMYM2 Antibody](#)
- [PION Antibody](#)
- [AXIN2 Antibody](#)

- [FBXL16 Antibody](#)
- [LRRTM1 Antibody](#)
- [LRRTM2 Antibody](#)
- [LRRTM3 Antibody](#)
- [LRRTM4 Antibody](#)
- [N4BP1 Antibody](#)
- [OGFOD1 Antibody](#)
- [OGFOD2 Antibody](#)
- [SLAMF9 Antibody](#)
- [VPS39 Antibody](#)
- [RHAMM Antibody](#)
- [ZHANGFEI Antibody](#)
- [ZNF346 CT Antibody](#)
- [Bcl9L Antibody](#)
- [CTTNBL1 Antibody](#)
- [MYOZAP Antibody](#)
- [RABEX5 Antibody](#)
- [TMEM192 Antibody](#)
- [TM4SF1 Antibody](#)
- [ZFP219 Antibody](#)
- [ZFP281 Antibody](#)
- [ZIMP7 Antibody](#)
- [ZIMP10 Antibody](#)
- [SLAMF1 Antibody](#)
- [SLAMF2 Antibody](#)
- [SLAMF3 Antibody](#)
- [SLAMF4 Antibody](#)
- [DYRK1A Antibody](#)
- [ATP2C2 Antibody](#)
- [PRR5 Antibody](#)
- [PRR5L Antibody](#)
- [SIK1 Antibody](#)
- [SIK2 Antibody](#)
- [SPT1 Antibody](#)
- [SPT2 Antibody](#)
- [ORMDL1 Antibody](#)
- [SGK1 Antibody](#)
- [VASH1 Antibody](#)
- [Anosmin Antibody](#)
- [Translin Antibody](#)
- [RASSF10 Antibody](#)
- [TYW1 Antibody](#)
- [TYW2 Antibody](#)
- [TYW3 Antibody](#)
- [TYW4 Antibody](#)
- [MEIG1 Antibody](#)
- [TEKT5 Antibody](#)
- [GEMC1 Antibody](#)
- [ATAD3A Antibody](#)
- [ATAD3B Antibody](#)
- [AP3S1 Antibody](#)
- [AP3M1 Antibody](#)
- [AP3B2 Antibody](#)
- [TMEM88 Antibody](#)
- [CCDC141 Antibody](#)
- [SPRYD2 Antibody](#)
- [SPRYD3 Antibody](#)
- [SPRYD4 Antibody](#)
- [SPRYD5 Antibody](#)
- [HDGFRP2 Antibody](#)
- [SYTL5 Antibody](#)
- [TMEM204 Antibody](#)
- [Apaf 1 Monoclonal Antibody](#)
- [DC SIGN Monoclonal Antibody](#)
- [Hemagglutinin Monoclonal Antibody](#)
- [PUMA Monoclonal Antibody](#)
- [EndoG Monoclonal Antibody](#)
- [Hax1a Monoclonal Antibody](#)
- [Bim Monoclonal Antibody](#)
- [MD 2 Monoclonal Antibody](#)
- [XBP 1 Monoclonal Antibody](#)
- [IL 33 Monoclonal Antibody](#)
- [PD 1 Monoclonal Antibody](#)
- [IRAK Monoclonal Antibody](#)
- [Seasonal H1N1 Hemagglutinin Monoclonal Antibody](#)
- [Swine H1N1 Hemagglutinin Monoclonal Antibody](#)
- [Seasonal H1N1 Neuraminidase Monoclonal Antibody](#)
- [ZNF503 may function as a transcriptional repressor.](#)
- [KLF16 is a transcription factor that binds GC and GT boxes and displaces Sp1 and Sp3 from these sequences. KLF16 modulates dopaminergic transmission in the brain.](#)
- [L3MBTL2 contains 1 FCS type zinc finger and 4 MBT repeats. It is putative Polycomb group PcG protein. PcG proteins maintain the transcriptionally repressive state of genes probably via a modification.](#)
- [TCF7L1 participates in the Wnt signaling pathway. It binds to DNA and acts as a repressor in the absence of CTNNB1 and as an activator in its presence. It is necessary for the terminal differentiation.](#)
- [The exact function of C2orf28 remains unknown. This gene is thought to be involved in apoptosis and may also be involved in hematopoietic development and differentiation.](#)

Two alternatively spliced tra

- [CXCL6 is chemotactic for neutrophil granulocytes.](#)
- [TFCP2 binds a variety of cellular and viral promoters including fibrinogen alpha globin SV40 and HIV 1 promoters. Activation of the alpha globin promoter in erythroid cells is via synergistic interaction.](#)
- [ELF1 belongs to the ETS family. It contains 1 ETS DNA binding domain. ELF1 is a transcription factor that activates the LYN and BLK promoters. It appears to be required for the T cell receptor mediated.](#)
- [HOXB3 belongs to ANTP homeobox family. It is a nuclear protein with a homeobox DNA binding domain. HOXB3 gene is included in a cluster of homeobox B genes located on chromosome 17. The protein function.](#)
- [SNAPc is involved in transcription by two types of polymerases. It is required for transcription of both the RNA polymerase II and III small nuclear RNA genes and binds specifically to the proximal site.](#)
- [The TSFM protein is a mitochondrial translation elongation factor. Synthesis of the 13 mitochondrial encoded proteins occurs on a dedicated mitochondrial translation apparatus similar to that found in.](#)
- [ZNF263 belongs to the krueppel C2H2 type zinc finger protein family. It contains 9 C2H2 type zinc fingers. 1 KRAB domain and 1 SCAN box domain. ZNF263 might play an important role in basic cellular pr.](#)
- [RBM6 contains 1 G patch domain and 1 RRM RNA recognition motif domain. It specifically binds poly G RNA homopolymers in vitro.](#)
- [MYST2 belongs to the MYST family which is characterized by a highly conserved C2HC zinc finger and a putative histone acetyltransferase domain. MYST2 specifically represses AR mediated transcription.](#)
- [POU6F2 is a member of a gene family characterized by the presence of a bipartite DNA binding domain consisting of a POU specific domain and a POU heterodomain separated by a variable polylinker POU.](#)
- [ZNF428 contains 1 C2H2 type zinc finger. The exact function of ZNF428 remains unknown.](#)
- [Olfactory receptors interact with odorant molecules in the nose to initiate a neuronal response that triggers the perception of a smell. The olfactory receptor proteins are members of a large family.](#)
- [ATF6B CREB1 is a transcription factor in the unfolded protein response UPR pathway during ER stress. Either as a homodimer or as a heterodimer with ATF6 alpha the protein binds to the ER stress.](#)
- [CMTM2 belongs to the chemokine like factor superfamily a novel family that links the chemokine and the transmembrane 4 superfamilies of signaling molecules. The protein may play an important role in.](#)
- [SLC34A3 contributes to the maintenance of inorganic phosphate Pi concentration at the kidney. SLC34A3 contributes to the maintenance of inorganic phosphate Pi concentration at the kidney. Segawa et](#)
- [SLC26A3 is a transmembrane glycoprotein that transports chloride ions across the cell membrane in exchange for bicarbonate ions. It is localized to the mucosa of the lower intestinal tract. particular.](#)
- [NR0B1 is a protein that contains a DNA binding domain. The protein acts as a dominant negative regulator of transcription which is mediated by the retinoic acid receptor. This protein also functions a.](#)
- [FOXG1 belongs to the forkhead family of transcription factors which is characterized by a distinct forkhead domain. The specific function of this gene has not yet been determined however it may play.](#)
- [SCMH1 is a component of the Polycomb group PcG multiprotein PRC1 complex a complex required to maintain the transcriptionally repressive state of many genes including Hox genes throughout develop.](#)
- [The exact function of FOXL1 remains unknown.](#)
- [PHOX2A contains a paired like homeodomain most similar to that of the Drosophila aristaless gene product. The encoded protein plays a central role in development of the autonomic nervous system. It re](#)
- [SOX1 is a member of the SOX SRY related HMG box family of transcription factors involved in the regulation of embryonic development and in the determination of the cell fate. SOX1 may act as a trans](#)
- [Pyruvate dehydrogenase PDH is a mitochondrial multienzyme complex that catalyzes the oxidative decarboxylation of pyruvate and is one of the major enzymes responsible for the regulation of homeostasis.](#)
- [PDK2 inhibits the mitochondrial pyruvate dehydrogenase complex by phosphorylation of the E1 alpha subunit thus contributing to the regulation of glucose metabolism.](#)
- [ZC3H7B is a protein that contains a tetratricopeptide repeat domain. The encoded protein also interacts with the rotavirus non structural protein NSP3. This gene encodes a protein that contains a tetra](#)
- [GATA3 is crucially involved in IL 5 gene transcription in](#)



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human peripheral CD4 positive t cells This gene is involved in growth control and the maintenance of the differentiated state in epithelial c

- GATA6 is thought to be important for regulating terminal differentiation and/or proliferation
- ZNF775 belongs to the krueppel C2H2 type zinc finger protein family It contains 11 C2H2 type zinc fingers ZNF775 may be involved in transcriptional regulation
- ZNF252 may be involved in transcriptional regulation
- LIM proteins named for LIN11 ISL1 and MEC3 are defined by the possession of a highly conserved double zinc finger motif called the LIM domain FHL1 contains 3 LIM zinc binding domains It may have
- Sequence specific double stranded DNA binding protein required for initiation of chromosomal DNA replication REPIN1 binds on 5 ATT 3 reiterated sequences downstream of the origin of bidirectional r
- GRHL1 is a member of the grainyhead family of transcription factors GRHL1 interacts with sister of mammalian grainyhead SOM and may function as a transcription factor during development Two transcr
- MNX1 contains 1 homeobox DNA binding domain MNX1 is a putative transcription factor involved in pancreas development and function Defects in MNX1 are a cause of Curranio syndrome
- ZNF404 may be involved in transcriptional regulation
- ZNF445 belongs to the krueppel C2H2 type zinc finger protein family It contains 14 C2H2 type zinc fingers 1 KRAB domain and 1 SCAN box domain ZNF445 may be involved in transcriptional regulation
- TRIM23 is a member of the tripartite motif TRIM family The TRIM motif includes three zinc binding domains a RING a B box type 1 and a B box type 2 and a coiled coil region This protein is also
- The homeodomain containing transcription factor NKX3 1 is a putative prostate tumor suppressor that is expressed in a largely prostate specific and androgen regulated manner Loss of NKX3 1 protein ex
- The exact function of FAM164A C8orf70 remains unknown
- The NR2E1 gene is a member of the steroid nuclear receptor superfamily and is predominately expressed in the brain The contributions of this gene to human B cell leukemia and to brain development are
- ZNF526 belongs to the krueppel C2H2 type zinc finger protein family It contains 13 C2H2 type zinc fingers ZNF526 may be involved in transcriptional regulation
- ZNF787 may be involved in transcriptional regulation
- OR1C35 is part of the olfactory receptors that interact with odorant molecules in the nose to initiate a neuronal response that triggers the perception of a smell The olfactory receptor proteins are
- GSC regulates chordin CHRD GSC may play a role in spatial programing within discrete embryonic fields or lineage compartments during organogenesis This gene encodes a member of the bicoid subfamily
- ZNF639 binds DNA and may function as a transcriptional repressor
- ZFPM1 is a transcription regulator that plays an essential role in erythroid and megakaryocytic cell differentiation ZFPM1 is an essential cofactor that acts via the formation of a heterodimer with t
- ZNF800 belongs to the krueppel C2H2 type zinc finger protein family It contains 7 C2H2 type zinc fingers ZNF800 may be involved in transcriptional regulation
- Members of the ETS family of transcription factors such
- PQBP1 is a nuclear polyglutamine binding protein that contains a WW domain PQBP1 is a nuclear polyglutamine binding protein that contains a WW domain Waragai et al 1999 PubMed 10332029
- The exact function of FOXJ3 remains unknown
- PIT1 is a pituitary specific transcription factor responsible for pituitary development and hormone expression in mammals and is a member of the POU family of transcription factors that regulate mamma
- Transcription factors containing a basic helix loop helix bHLH motif regulate expression of tissue specific genes in a number of mammalian and insect systems DNA binding activity of the bHLH protei
- ISL1 is a member of the LIM homeodomain family of transcription factors It binds to the enhancer region of the insulin gene among others and may play an important role in regulating insulin gene ex
- PITX1 is a member of the RIEG PITX homeobox family which is involved in organ development and left right asymmetry This protein acts as a transcriptional regulator involved in basal and hormone regu
- TLE2 belongs to the WD repeat Groucho TLE family It contains 6 WD repeats TLE2 is a transcriptional corepressor that binds to a number of transcription factors It inhibits the transcriptional activ
- RUVBL1 possesses single stranded DNA stimulated ATPase and ATP dependent DNA helicase 3 to 5 activity It

is the component of the NuA4 histone acetyltransferase complex which is involved in transcr

- ATOH1 belongs to the basic helix loop helix BHLH family of transcription factors It activates E box dependent transcription along with E47 This protein belongs to the basic helix loop helix BHLH
- SIX3 belongs to the SIX Sine oculis homeobox family It contains 1 homeobox DNA binding domain SIX3 may be involved in visual system development
- SIX1 is a homeobox protein that is similar to the Drosophila sine oculis gene product This gene is found in a cluster of related genes on chromosome 14 and is thought to be involved in limb develop
- PAX7 is a member of the paired box PAX family of transcription factors Members of this gene family typically contain a paired box domain an octapeptide and a paired type homeodomain These genes
- NEUROD6 contains 1 basic helix loop helix BHLH domain It activates E box dependent transcription in collaboration with TCF3 E47 and may be a trans acting factor involved in the development and main
- LHX4 is a member of a large protein family which contains the LIM domain a unique cysteine rich zinc binding domain The encoded protein may function as a transcriptional regulator and be involved in
- EYA1 is a member of the eyes absent EYA family of proteins EYA1 may play a role in the developing kidney branchial arches eye and ear Mutations of this gene have been associated with branchioot
- PCBD1 is pterin 4 alpha carbinolamine dehydratase an enzyme involved in phenylalanine hydroxylation A deficiency of this enzyme leads to hyperphenylalaninemia The enzyme regulates the homodimerizat
- Initiation of transcription by RNA polymerase II requires the activities of more than 70 polypeptides The protein that coordinates these activities is the basal transcription factor TFIID which bind
- SIN3A is a transcriptional regulatory protein It contains paired amphipathic helix PAH domains which are important for protein protein interactions and may mediate repression by the Mad Max complex
- NCOA3 is a nuclear receptor coactivator that interacts with nuclear hormone receptors to enhance their transcriptional activator functions The encoded protein has histone acetyltransferase activity a
- This protein belongs to the TRIM protein family It has multiple zinc finger motifs and a leucine zipper motif It has been proposed to form homo or heterodimers which are involved in nucleic acid bi
- TAZ transcriptional coactivator with PDZ binding motif also known as WW domain containing transcription regulator 1 WWTR1 is a member of the bicoid sub family of homeodomain containing transcrip
- MIZF interacts with methyl CpG binding protein 2 MBD2 MIM 603547 a component of the MeCP1 histone deacetylase HDAC complex and plays a role in DNA methylation and transcription repression MIZF
- The function remains unknown
- GTF2H4 belongs to the TFB2 family It is a component of the core TFIID basal transcription factor involved in nucleotide excision repair NER of DNA and when complexed to CAK in RNA transcription b
- HCFC2 is one of two proteins which interact with VP16 a herpes simplex virus protein that initiates virus infection Both the encoded protein and the original Herpes host cell factor interact with VP
- LASS2 is a protein that has sequence similarity to yeast longevity assurance gene 1 Mutation or overexpression of the related gene in yeast has been shown to alter yeast lifespan The human protein m
- Proteins that contain a CXXC motif within their DNA binding domain such as CXXC1 recognize CpG sequences and regulate gene expression Proteins that contain a CXXC motif within their DNA binding dom
- Chromosomal protein HMG14 HMGN1 and its close analog HMG17 MIM 163910 bind to the inner side of the nucleosomal DNA potentially altering the interaction between the DNA and the histone octamer T
- HOXC10 belongs to the homeobox family The homeobox family is a highly conserved family of transcription factors that play an important role in morphogenesis in all multicellular organisms Mammals po
- HOXD1 is a protein with a homeobox DNA binding domain and it belongs to the Antp homeobox family This nuclear protein functions as a sequence specific transcription factor that is involved in differ
- ZNF391 belongs to the krueppel C2H2 type zinc finger protein family It contains 9 C2H2 type zinc fingers ZNF391 may be involved in transcriptional regulation
- Insulin is produced exclusively by the beta cells in the islets of Langerhans in the pancreas The level and beta cell specificity of insulin gene expression are regulated by a set

of nuclear genes th

- Since they lack a putative transactivation domain the small Mafs behave as transcriptional repressors when they dimerize among themselves However they seem to serve as transcriptional activators by
- Aminoacyl tRNA synthetases are a class of enzymes that charge tRNAs with their cognate amino acids MARS belongs to the class I family of tRNA synthetases Aminoacyl tRNA synthetases are a class of enz
- NPAS1 is a member of the basic helix loop helix bHLH PAS family of transcription factors Studies of a related mouse gene suggest that it functions in neurons The exact function of this gene is unc
- ZNF295 contains 1 BTB POZ domain and 8 C2H2 type zinc fingers ZNF295 may be involved in transcriptional regulation
- Adaptor proteins are usually required for transcriptional activation possibly to acetylate and destabilize nucleosomes thereby relieving chromatin constraints at the promoter TADA3L is a transcripti
- BAF1 is a nuclear basic leucine zipper protein that belongs to the AP 1 ATF superfamily of transcription factors The leucine zipper of this protein mediates dimerization with members of the Jun family
- This gene which is located on chromosome 8 is predicted to code a transcription factor with unknown function
- ACADM is the medium chain specific C4 to C12 straight chain acyl Coenzyme A dehydrogenase The homotetramer enzyme catalyzes the initial step of the mitochondrial fatty acid beta oxidation pathway
- ME1 is a cytosolic NADP dependent enzyme that generates NADPH for fatty acid biosynthesis The activity of this enzyme the reversible oxidative decarboxylation of malate links the glycolytic and ci
- AVIL is a member of the gelsolin villin family of actin regulatory proteins This protein has structural similarity to villin It binds actin and may play a role in the development of neuronal cells t
- TCEG1 is a nuclear protein that regulates transcriptional elongation and pre mRNA splicing TCEG1 interacts with the hyperphosphorylated C terminal domain of RNA polymerase II via multiple FF domain
- MORF4L1 is a novel chromodomain protein that is present in two distinct multiprotein complexes involved in transcriptional activation
- PRDM5 is a transcription factor of the PR domain protein family It contains a PR domain and multiple zinc finger motifs Transcription factors of the PR domain family are known to be involved in cell
- DUSP12 is a member of the dual specificity protein phosphatase subfamily These phosphatases inactivate their target kinases by dephosphorylating both the phosphoserine threonine and phosphotyrosine r
- DLX1 is a member of a homeobox transcription factor family It is localized to the nucleus where it may function as a transcriptional regulator of signals from multiple TGF beta superfamily members
- TRIT1 is responsible for the modification of A37 to isopentenyl A37 of both cytosolic and mitochondrial tRNAs
- PBXIP1 is the regulator of pre B cell leukemia transcription factors BPXs function it inhibits the binding of PBX1 HOX complex to DNA and blocks the transcriptional activity of E2A PBX1 PBXIP1 tet
- GATAD2B has transcriptional repressor activity It is identification as potent transcriptional repressors interacting with MBD2 and MBD3
- The exact function of ZNF608 remains unknown
- EBF4 belongs to the COE family and contains 1 IPT TIG domain EBF4 is a transcriptional factor which recognizes variations of the palindromic sequence 5 ATTCCCNNGGGAATT 3 EBF4 belongs to the conser
- ZFAT1 may be involved in transcriptional regulation Overexpression of ZFAT1 causes down regulation of a number of genes involved in the immune response Some genes are also up regulated
- JMJD2C is a member of the Jumonji domain 2 JMJD2 family It contains one JmjC domain one JmjN domain two PHD type zinc fingers and two Tudor domains This nuclear protein functions as a trimethyl
- HIC2 belongs to the krueppel C2H2 type zinc finger protein family
- POG2 appears to be a zinc finger protein containing a transposase domain at the C terminus This protein was found to interact with the transcription factor SP1 in a yeast two hybrid system The protei
- The exact function of ECD remains unknown
- PITX3 is a member of the RIEG PITX homeobox family which is in the bicoid class of homeodomain proteins Members of this family act as transcription factors Mutations of PITX3 have been associated w
- Phosphatidylcholine PC specific phospholipases D PLDs EC 3.1.4.4 catalyze the hydrolysis of PC to produce



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phosphatidic acid and choline Activation of PC specific PLDs occurs as a consequence of

- PML is a member of the tripartite motif TRIM family. The TRIM motif includes three zinc binding domains a RING a B box type 1 and a B box type 2 and a coiled coil region PML localizes to nuclear
- CHRAC1 is a histone fold protein that interacts with other histone fold proteins to bind DNA in a sequence independent manner. These histone fold protein dimers combine within larger enzymatic complex
- PCCA is the alpha subunit of the heterodimeric mitochondrial enzyme Propionyl CoA carboxylase PCCA is the biotin binding region of this enzyme. Mutations in either PCCA or PCCB encoding the beta sub
- APP is a cell surface receptor and transmembrane precursor protein that is cleaved by secretases to form a number of peptides. Some of these peptides are secreted and can bind to the acetyltransferase
- CXADR is a type I membrane receptor for group B coxsackieviruses and subgroup C adenoviruses. Pseudogenes of this gene are found on chromosomes 15 18 and 21. The protein encoded by this gene is a ty
- This ribonuclease gene is a novel member of the Rh T2 S glycoprotein class of extracellular ribonucleases. It is a single copy gene that maps to 6q27 a region associated with human malignancies and c
- AHCYL1 belongs to the adenosylhomocysteinase family. The protein an inositol 1 4 5 trisphosphate receptor binding protein specifically binds to and activates pancreas type Na HCO3 cotransporter 1
- ZNF407 contains 22 C2H2 type zinc fingers. ZNF407 may be involved in transcriptional regulation.
- BBX is a transcription factor that is necessary for cell cycle progression from G1 to S phase.
- ZNF512B may be involved in transcriptional regulation.
- The exact function of GATAD1 remains unknown.
- NKX3 2 is a member of the NK family of homeobox containing proteins. It may play a role in skeletal development. This gene encodes a member of the NK family of homeobox containing proteins. The encode
- PURA is a sequence specific single stranded DNA binding protein. It binds preferentially to the single strand of the purine rich element termed PUR which is present at origins of replication and in
- RFXAP is part of the RFX complex that binds to the X box of MHC II promoters. Major histocompatibility MHC class II molecules are transmembrane proteins that have a central role in development and co
- This gene belongs to the paired homeobox family and is located in the pseudoautosomal region 1 PAR1 of X and Y chromosomes. Defects in this gene are associated with idiopathic growth retardation and
- SHOX2 is a member of the homeo box family of genes that encode proteins containing a 60 amino acid residue motif that represents a DNA binding domain. Homeo box genes have been characterized extensively
- TUT1 is a nucleotidyl transferase that functions as both a terminal uridylyltransferase and a nuclear poly A polymerase. TUT1 specifically adds and removes nucleotides from the 3 end of small nucle
- The function of JMJD4 remains unknown.
- SOX15 is a member of the SOX SRY related HMG box family of transcription factors involved in the regulation of embryonic development and in the determination of the cell fate. The protein may act as
- SP3 is a transcriptional factor that can act as an activator or repressor probably in an isoform specific manner. SP3 binds to GT and GC boxes promoters elements. This gene belongs to a family of Sp1 r
- ING3 is similar to ING1 a tumor suppressor protein that can interact with TP53 inhibit cell growth and induce apoptosis. This protein contains a PHD finger which is a common motif in proteins invo
- This protein is a member of the STAT family of transcription factors. In response to cytokines and growth factors, STAT family members are phosphorylated by the receptor associated kinases and then f
- ZFP36L2 is a member of the TIS11 family of early response genes. Family members are induced by various agonists such as the phorbol ester TPA and the polypeptide mitogen EGF. The encoded protein conta
- Initiation of transcription by RNA polymerase II requires the activities of more than 70 polypeptides. The protein that coordinates these activities is transcription factor IID TFIID which binds to
- TBX1 is a member of a phylogenetically conserved family of genes that share a common DNA binding domain. The T box T box genes encode transcription factors involved in the regulation of developmental
- The TCL7L2 is a high mobility group HMG box containing transcription factor implicated in blood glucose homeostasis. The study of Yi et al suggested that TCL7L2 acts through

regulation of progluca

- ZNF354A belongs to the krueppel C2H2 type zinc finger protein family. It contains 13 C2H2 type zinc fingers and 1 KRAB domain
- TEAD4 is a member of the transcriptional enhancer factor TEF family of transcription factors which contain the TEA ATTS DNA binding domain. TEAD4 is preferentially expressed in the skeletal muscle.
- TFAP2C is a sequence specific DNA binding transcription factor involved in the activation of several developmental genes. The protein can act as either a homodimer or heterodimer with other family mem
- ZFP37 belongs to the krueppel C2H2 type zinc finger protein family. It contains 12 C2H2 type zinc fingers and 1 KRAB domain. ZFP37 may be involved in transcriptional regulation.
- ZFX is a probable transcriptional activator.
- ZNF3 belongs to the krueppel C2H2 type zinc finger protein family. It contains 8 C2H2 type zinc fingers and 1 KRAB domain. ZNF3 is involved in cell differentiation and or proliferation.
- ZSCAN20 belongs to the krueppel C2H2 type zinc finger protein family. It contains 10 C2H2 type zinc fingers and 1 SCAN box domain. ZSCAN20 may be involved in transcriptional regulation.
- ZNF76 belongs to the krueppel C2H2 type zinc finger protein family. It contains 7 C2H2 type zinc fingers. ZNF76 may be involved in transcriptional regulation.
- ZNF207 is a new candidate transcription factor.
- ZNF236 belongs to the krueppel C2H2 type zinc finger protein family. It contains 30 C2H2 type zinc fingers. ZNF236 may be involved in transcriptional regulation.
- The exact function of this protein remains unknown.
- ZNF672 belongs to the krueppel C2H2 type zinc finger protein family. It contains 14 C2H2 type zinc fingers. ZNF672 may be involved in transcriptional regulation.
- USP3 is a novel human ubiquitin specific protease. The USP3 protein is a functional ubiquitin specific protease in vitro and is able to inhibit ubiquitin dependent degradation of both an N end Rule 5
- ZBTB39 belongs to the krueppel C2H2 type zinc finger protein family. It contains 1 BTB POZ domain and 8 C2H2 type zinc fingers. ZBTB39 may be involved in transcriptional regulation.
- ST18 repressor that binds to DNA sequences containing a bipartite element consisting of a direct repeat of the sequence 5 AAAGTTT. 3 separated by 29 nucleotides. ST18 represses basal transcription a
- NR1D1 belongs to the nuclear hormone receptor family NR1 subfamily. It contains 1 nuclear receptor DNA binding domain. NR1D1 functions as a constitutive transcriptional repressor. It is a possible re
- CIR may modulate splice site selection during alternative splicing of pre mRNAs. CIR regulates transcription and acts as corepressor for RBPSUH by recruiting RBPSUH to the Sin3 histone deacetylase com
- Poly ADP ribosyl ation is an immediate DNA damage dependent post translational modification of histones and other nuclear proteins that contributes to the survival of injured proliferating cells. PAR
- TNKS may regulate vesicle trafficking and modulate the subcellular distribution of SLC2A4 GLUT4 vesicles. It has PARP activity and can modify TERF1 and thereby contribute to the regulation of telomer
- TIPARP is a poly ADP ribose polymerase using NAD as a substrate to transfer ADP ribose onto glutamic acid residues of a protein acceptor. Repeated rounds of ADP ribosylation leads to the formation
- PARP1 encodes a chromatin associated enzyme. Poly ADP ribosyl transferase which modifies various nuclear proteins by poly ADP ribosyl ation. The modification is dependent on DNA and is involved in
- PARP9 contains 2 Macro domains and 1 PARP catalytic domain. PARP9 is overexpressed at significantly higher levels in fatal high risk diffuse large B cell lymphomas. DLB CL compared to cured low risk
- This locus controls the synthesis of the Kell blood group precursor substance Kx. Mutations in this gene have been associated with McLeod syndrome, an X linked recessive disorder characterized by
- PLP1 is a transmembrane proteolipid protein that is the predominant myelin protein present in the central nervous system. It may play a role in the compaction stabilization and maintenance of myelin
- Cholecystokinin CCK is a brain gut peptide. In the gut it induces the release of pancreatic enzymes and the contraction of the gallbladder. In the brain its physiologic role is unclear. The cholec
- ACADL belongs to the acyl CoA dehydrogenase family which is a family of mitochondrial flavoenzymes involved in fatty acid and branched chain amino acid metabolism. This protein is one of the four enz

- CTRC is a member of the peptidase S1 family. The protein is a serum calcium decreasing factor that has chymotrypsin like protease activity. Alternatively spliced transcript variants have been observed
- KIFC3 belongs to the kinesin like protein family. It contains 1 kinesin motor domain. KIFC3 is the minus end microtubule dependent motor protein. It is involved in apically targeted transport
- KIF13B may be involved in reorganization of the cortical cytoskeleton. KIF13B may be functionally important for the intracellular trafficking of MAGUKs and associated protein complexes
- Members of the kinesin superfamily of microtubule associated proteins are involved in a variety of intracellular processes including cell division and organelle transport. KIFC2 encodes a 792 amino ac
- The function of the KIF9 protein remains unknown
- The protein encoded by the KIF25 gene is a member of the kinesin like protein family. Protein family members are microtubule dependent molecular motors that transport organelles within cells and move
- Voltage gated potassium Kv channels represent the most complex class of voltage gated ion channels from both functional and structural standpoints. Their diverse functions include regulating neurot
- BLZF1 is required for normal Golgi structure and for protein transport from the endoplasmic reticulum ER through the Golgi apparatus to the cell surface
- Alpha chymotrypsin EC 3 4 21 1 is one of a family of serine proteases secreted into the gastrointestinal tract as the inactive precursor chymotrypsinogen. The zymogen is activated by proteolytic cle
- CCRL2 is a chemokine receptor like protein which is predicted to be a seven transmembrane protein and most closely related to CCR1. Chemokines and their receptors mediated signal transduction are cri
- REG1B might act as an inhibitor of spontaneous calcium carbonate precipitation. REG1B may be associated with neuronal sprouting in brain and with brain and pancreas regeneration. This gene is a type I
- KIF2A belongs to the kinesin like protein family. MCAK KIF2 subfamily. It contains 1 kinesin motor domain. KIF2A plus end directed microtubule dependent motor required for normal brain development. It
- Members of the RGS regulator of G protein signaling family such as RGS6 modulate G protein function by activating the intrinsic GTPase activity of the alpha guanine nucleotide binding subunits M
- Retinoid X receptors RXRs and retinoic acid receptors RARs are nuclear receptors that mediate the biological effects of retinoids by their involvement in retinoic acid mediated gene activation. T
- SUPT5H and its binding partner regulate transcriptional elongation by RNA polymerase II. SPT4 and SPT5 are involved in both 5 6 dichloro 1 beta D ribofuranosylbenzimidazole DRB mediated transcriptio
- The specific function of PKNOX1 is not yet known
- The exact function of CECR6 remains unknown
- RNF13 contains 1 RING type zinc finger. The exact function of RNF13 is not known. The protein encoded by this gene contains a RING zinc finger a motif known to be involved in protein protein interact
- RCVRN is a member of the recoverin family of neuronal calcium sensors. The protein contains three calcium binding EF hand domains and may prolong the termination of the phototransduction cascade in th
- TRIM21 is a member of the tripartite motif TRIM family. The TRIM motif includes three zinc binding domains a RING a B box type 1 and a B box type 2 and a coiled coil region. TRIM21 is part of the
- COPS2 is an essential component of the COP9 signalosome complex. CSN The CSN complex is an essential regulator of the ubiquitin Ubl conjugation pathway by mediating the deneddylation of the cullin
- ASH2L is a component of the Set1 Ash2 histone methyltransferase HMT complex. A complex that specifically methylates Lys 4 of histone H3 but not if the neighboring Lys 9 residue is already methyl
- RBBP5 contains 6 WD repeats. It binds preferentially to underphosphorylated retinoblastoma protein. The protein encoded by this gene is a ubiquitously expressed nuclear protein and belongs to a highly
- ZMYM4 regulates apoptosis by altering mRNA turnover and CDIR inhibits apoptosis by acting as a competitive inhibitor of AUF1 preventing AUF1 from binding to its targets
- MED6 is a component of the Mediator complex a coactivator involved in the regulated transcription of nearly all RNA polymerase II dependent genes. Mediator functions as a bridge to convey information
- TRIM9 is a member of the tripartite motif TRIM family. The TRIM motif includes three zinc binding domains a RING a B



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box type 1 and a B box type 2 and a coiled coil region The protein localizes

- NFRKB binds to the DNA consensus sequence 5 GGGGAATCTCC 3
- DPF3 is a muscle specific component of the BAF complex a multiprotein complex involved in transcriptional activation and repression of select genes by chromatin remodeling alteration of DNA nucleoso
- The exact function of C16orf80 remains unknown
- This gene is part of a gene cluster on chromosome Xp11.23. PHF16 contains a zinc finger motif often found in transcriptional regulators however its exact function is not known This gene is part of a
- ZBTB40 may be involved in transcriptional regulation
- The exact function of BTBD3 remains unknown
- The CHD family of proteins is characterized by the presence of chromo chromatin organization modifier domains and SNF2 related helicase ATPase domains CHD genes alter gene expression possibly by mo
- The exact function of CRIP2 remains unknown
- CIAO1 belongs to the WD repeat CIA1 family It seems to specifically modulate the transactivation activity of WT1
- ZNF216 ZFAND5 is a potent inhibitory factor for osteoclast differentiation and the mechanism is unlikely due to direct attenuation of the NF kappa B pathway It also has redundant and distinct roles
- LIM domain only 6 is a three LIM domain containing protein The LIM domain is a cysteine rich sequence motif that binds zinc atoms to form a specific protein binding interface for protein protein inte
- BRD3 gene was identified based on its homology to the gene encoding the RING3 protein a serine threonine kinase The gene localizes to 9q34 a region which contains several major histocompatibility c
- TRIM35 is a member of the tripartite motif TRIM family The TRIM motif includes three zinc binding domains a RING a B box type 1 and a B box type 2 and a coiled coil region TRIM35 may play a rol
- YBX2 is a member of the Y box multigene family of proteins it contains the cold shock domain that is highly conserved among all Y box proteins and four basic aromatic islands By Northern blotting an
- The C terminus of BTBD2 binds topoisomerase I The N terminus contains a proline rich region and a BTB POZ domain broad complex Tramtrack and bric a brac Pox virus and Zinc finger both of which ar
- ZFAND3 contains 1 A20 type zinc finger and 1 AN1 type zinc finger The exact function of ZFAND3 remains unknown
- LIN28 acts as a translational enhancer driving specific mRNAs to polysomes and thus increasing the efficiency of protein synthesis The association of LIN28 with the translational machinery and tar
- ZNF575 belongs to the krueppel C2H2 type zinc finger protein family and may be involved in transcriptional regulation
- SCML4 is a putative Polycomb group PcG protein PcG proteins act by forming multiprotein complexes which are required to maintain the transcriptionally repressive state of homeotic genes throughout
- This protein homodimerizes and functions as a transcription factor which activates the expression of some key metabolic genes regulating cellular growth and nuclear genes required for respiration hem
- SETD4 contains 1 SET domain The exact function of SETD4 is not known
- SMARCAD1 belongs to the SNF2 RAD54 helicase family It contains 2 CUE domains 1 helicase ATP binding domain and 1 helicase C terminal domain It is a probable ATP dependent DNA helicase
- PRDM8 may be involved in transcriptional regulation
- C16orf44 KLHL36 probable substrate specific adapter of an E3 ubiquitin protein ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of target proteins
- This protein is a member of the tripartite motif TRIM family The TRIM motif includes three zinc binding domains a RING a B box type 1 and a B box type 2 and a coiled coil region This protein lo
- OTP is probably involved in the differentiation of hypothalamic neuroendocrine cells This gene encodes a member of the homeodomain HD family HD family proteins are helix turn helix transcription fa
- TRIM6 is a member of the tripartite motif TRIM family The TRIM motif includes three zinc binding domains a RING a B box type 1 and a B box type 2 and a coiled coil region The protein localizes
- AMOT belongs to the motin family of angiostatin binding proteins characterized by conserved coiled coil domains and C terminal PDZ binding motifs The protein is expressed predominantly in endothelial
- TSC22D1 belongs to the TSC 22 Dip Bun family It is a transcriptional repressor TSC22D1 acts on the C type

natriuretic peptide_CNP_promoter_TSC22D1_encodes_a transcription factor and belongs to the

- RBPJL is similar in sequence to the mouse RPB L protein and Drosophila suppressor of hairless protein In mouse recombining binding protein L RBP L is a transcription factor that binds to DNA seque
- This gene is an estrogen responsive gene that is an early response gene in the estrogen receptor regulated pathway It is thought to play an important role in hormone responsive tissues and cancer Thi
- The hypoxia inducible factor HIF is a transcriptional complex which is involved in oxygen homeostasis At normal oxygen levels the alpha subunit of HIF is targeted for degradation by prolyl hydroxyla
- PHF17 belongs to the JADE family It contains 2 PHD type zinc fingers PHF17 is a transcriptional coactivator which seems to act by promoting acetylation of nucleosomal histone H4 by HTATIP PHF17 pro
- NF1 binds to the X box motif of MHC class II genes and represses their expression NF1 may play an important role in regulating the duration of an inflammatory response by limiting the period in whi
- The exact function of C1orf2 remains unknown
- SRY is an intronless gene that encodes for a transcription factor which is a member of the high mobility group HMG box family of DNA binding proteins This protein is the testis determining factor
- CNBP is a nucleic acid binding protein with seven zinc finger domains The protein has a preference for binding single stranded DNA and RNA The protein functions in cap independent translation of orn
- WDR45L is a member of the WIPI or SVP1 family of WD40 repeat containing proteins The protein contains seven WD40 repeats that are thought to fold into a beta propeller structure that mediates protein
- TRIM14 is a member of the tripartite motif TRIM family The TRIM motif includes three zinc binding domains a RING a B box type 1 and a B box type 2 and a coiled coil region The protein localizes
- ZNF684 contains 1 KRAB domain The function of the ZNF684 protein remains unknown
- RNF113B contains 1 RING type zinc finger and 1 C3H1 type zinc finger and the function remains unknown
- The TRIM41 gene encodes a protein observed in the cytoplasm and the nucleus Nuclear transport is mediated by an N terminal segment common to both alpha and beta isoforms but independent of a classic
- The L type calcium channel is composed of four subunits alpha 1 alpha 2 beta and gamma The beta subunit of voltage dependent calcium channels contributes to the function of the calcium channel by
- CHRNA4 is a nicotinic acetylcholine receptor which belongs to a superfamily of ligand gated ion channels that play a role in fast signal transmission at synapses These pentameric receptors can bind
- GABA is the major inhibitory neurotransmitter in the mammalian brain where it acts at GABA A receptors which are ligand gated chloride channels Chloride conductance of these channels can be modulate
- Voltage gated sodium channels are essential for the generation and propagation of action potentials in striated muscle and neuronal tissues Biochemically they consist of a large alpha subunit and 1
- SHROOM2 shares significant similarities with the apical protein from Xenopus laevis which is implicated in amloride sensitive sodium channel activity This gene is a strong candidate gene for ocular
- GABA is the major inhibitory neurotransmitter in the mammalian brain where it acts at GABA receptors which are ligand gated chloride channels GABRR1 is a member of the rho subunit family GABA is the
- GABA is the major inhibitory neurotransmitter in the mammalian brain where it acts at GABA receptors which are ligand gated chloride channels GABRR2 is a member of the rho subunit family and is a co
- Voltage gated potassium channels form the largest and most diversified class of ion channels and are present in both excitable and nonexcitable cells Their main functions are associated with the regu
- The Shaker gene family of Drosophila encodes components of voltage gated potassium channels and is comprised of four subfamilies Based on sequence similarity this gene is similar to one of these sub
- VDAC3 belongs to a group of mitochondrial membrane channels involved in translocation of adenine nucleotides through the outer membrane These channels may also function as a mitochondrial binding sit
- PKDREJ is a member of the polycystin protein family The encoded protein contains 11 transmembrane domains a receptor for egg jelly REJ domain a G protein coupled receptor proteolytic site GPS d
- L type calcium channels are composed of five subunits

CACNG4 represents one of these subunits gamma and is one of several gamma subunit proteins It is an integral membrane protein that is thought

- CCT8L2 belongs to the TCP 1 chaperonin family It possible molecular chaperone and assists the folding of proteins upon ATP hydrolysis
- KCTD3 belongs to the KCTD3 family It contains 1 BTB POZ domain and 5 WD repeats The exact function of KCTD3 is not known
- TRPC4 is thought to form a receptor activated non selective calcium permeant channel TRPC4 probably is operated by a phosphatidylinositol second messenger system activated by receptor tyrosine
- KCNK9 is one of the members of the superfamily of potassium channel proteins containing two pore forming P domains This open channel is highly expressed in the cerebellum It is inhibited by extracel
- Potassium channels are present in most mammalian cells where they participate in a wide range of physiologic responses KCNJ16 is an integral membrane protein and inward rectifier type potassium chan
- KCNJ12 is an inwardly rectifying K channel which may be blocked by divalent cations This protein is thought to be one of multiple inwardly rectifying channels which contribute to the cardiac inward
- KCNK15 is one of the members of the superfamily of potassium channel proteins containing two pore forming P domains KCNK15 has not been shown to be a functional channel however it may require other
- BTBD10 appears to behave as a suppressor of cell death including neuronal cell death related to amyotrophic lateral sclerosis and an enhancer of cell growth via its positive regulation of Akt phosphor
- HTR3C is one of the several different receptors for 5 hydroxytryptamine serotonin a biogenic hormone that functions as a neurotransmitter a hormone and a mitogen This receptor is a ligand gated
- The nicotinic acetylcholine receptors nAChRs are members of a superfamily of ligand gated ion channels that mediate fast signal transmission at synapses The family member CHRNA7 is located on chrom
- The KCTD gene family including KCTD7 encode predicted proteins that contain N terminal domain that is homologous to the T1 domain in voltage gated potassium channels see KCNA1 MIM 176260 KCTD7 d
- KCNJ1 has a greater tendency to allow potassium to flow into a cell rather than out of a cell Mutations in this gene have been associated with antenatal Bartter syndrome which is characterized by sa
- KCNN2 is an integral membrane protein that forms a voltage independent calcium activated channel with three other calmodulin binding subunits This protein is a member of the KCNN family of potassium
- This gene encodes a member of the potassium channel voltage gated shaker related subfamily This member is one of the beta subunits which are auxiliary proteins associating with functional Kv alpha
- P2RX5 is the receptor for ATP that acts as a ligand gated ion channel The product of this gene belongs to the family of purinoceptors for ATP This receptor functions as a ligand gated ion channel Se
- HTR3E belongs to the ligand gated ion channel receptor superfamily HTR3E is a subunit E of the type 3 receptor for 5 hydroxytryptamine serotonin a biogenic hormone that functions as a neurotransmi
- SMPD1 is a lysosomal acid sphingomyelinase that converts sphingomyelin to ceramide The encoded protein also has phospholipase C activity Defects in this gene are a cause of Niemann Pick disease type
- BTF3L1 is a putative member of the BTF3 family of transcription factors Transcription of this gene has not yet been documented
- KLF6 is a nuclear protein that has three zinc fingers at the end of its C terminal domain a serine threonine rich central region and an acidic domain lying within the N terminal region The zinc fin
- The heat shock response is elicited by exposure of cells to thermal and chemical stress and through the activation of HSFs heat shock factors results in the elevated expression of heat shock induced
- HOXB2 is a member of the Antp homeobox family and encodes a nuclear protein with a homeobox DNA binding domain It is included in a cluster of homeobox B genes located on chromosome 17 HOXB2 function
- The vesicular monoamine transporter acts to accumulate cytosolic monoamines into vesicles using the proton gradient maintained across the vesicular membrane Its proper function is essential to the c
- ZNF45 belongs to the krueppel C2H2 type zinc finger protein family It contains 18 C2H2 type zinc fingers and 1 KRAB domain ZNF45 may be involved in transcriptional regulation



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- ZNF74 contains 1 KRAB domain The exact function of ZNF74 is not known.
- ZNF132 may be involved in transcriptional regulation.
- ZNF133 may be involved in transcriptional regulation as a repressor.
- ZNF136 belongs to the krueppel C2H2 type zinc finger protein family It contains 14 C2H2 type zinc fingers and 1 KRAB domain ZNF136 may be involved in transcriptional regulation as a weak repressor w
- This protein is a member of the Kruppel family of zinc finger proteins Members of this DNA binding protein family act as transcriptional regulators The protein may play a role in spermatogenesis Thi
- FUBP1 is a ssDNA binding protein that activates the far upstream element FUSE of c myc and stimulates expression of c myc in undifferentiated cells Regulation of FUSE by FUBP occurs through single
- MTA2 may be involved in the regulation of gene expression as repressor and activator The repression might be related to covalent modification of histone proteins This gene encodes a protein that has
- SSX4 belongs to the SSX family It contains 1 KRAB related domain SSX4 could act as a modulator of transcription The product of this gene belongs to the family of highly homologous synovial sarcoma X
- ZNF195 may be involved in transcriptional regulation.
- ZNF193 belongs to the krueppel C2H2 type zinc finger protein family It contains 5 C2H2 type zinc fingers and 1 SCAN box domain ZNF193 may be involved in transcriptional regulation.
- ZNF234 may be involved in transcriptional regulation.
- The function of SCML1 remains unknown.
- ZNF197 belongs to the zinc finger protein superfamily members of which are regulatory proteins characterized by nucleic acid binding zinc finger domains The protein contains 20 tandemly arrayed C2H2
- ZNF79 may be involved in transcriptional regulation.
- VEZF1 is a possible transcription factor It specifically binds to the CT GC rich region of the interleukin 3 promoter and mediates tax transactivation of IL 3 Transcriptional regulatory proteins cont
- HIV 1 the causative agent of acquired immunodeficiency syndrome AIDS contains an RNA genome that produces a chromosomally integrated DNA during the replicative cycle Activation of HIV 1 gene expr
- The exact function of NUFIP1 remains unknown.
- ZNF180 belongs to the krueppel C2H2 type zinc finger protein family It contains 12 C2H2 type zinc fingers and 1 KRAB domain ZNF180 may be involved in transcriptional regulation Zinc finger proteins
- ZNF221 may be involved in transcriptional regulation.
- VSX1 contains a paired like homeodomain and binds to the core of the locus control region of the red green visual pigment gene cluster VSX1 may regulate expression of the cone opsin genes early in de
- ZNF507 may be involved in transcriptional regulation.
- ZNF226 belongs to the krueppel C2H2 type zinc finger protein family It contains 19 C2H2 type zinc fingers and 1 KRAB domain ZNF226 may be involved in transcriptional regulation.
- ZNF581 contains 4 C2H2 type zinc fingers ZNF581 may be involved in transcriptional regulation.
- ZNF571 may be involved in transcriptional regulation.
- ZNF280D may function as a transcription factor.
- ZNF434 belongs to the krueppel C2H2 type zinc finger protein family It contains 6 C2H2 type zinc fingers and 1 KRAB domain ZNF434 may be involved in transcriptional regulation.
- ZNF701 belongs to the krueppel C2H2 type zinc finger protein family It contains 7 C2H2 type zinc fingers and KRAB domain ZNF701 may be involved in transcriptional regulation.
- ZNF444 has a domain structure and amino acid sequence similar to several zinc finger transcription factors such as Kruppel like ZNF191 ZNF444 has a domain structure and amino acid sequence similar to
- The PR domain is a protein protein interaction module of about 100 amino acids PR domain containing proteins such as PRDM9 are often involved in transcriptional regulation The PR domain is a protei
- ZNF471 belongs to the krueppel C2H2 type zinc finger protein family It contains 15 C2H2 type zinc fingers and 1 KRAB domain ZNF471 may be involved in transcriptional regulation.
- ZNF530 belongs to the krueppel C2H2 type zinc finger protein family It contains 13 C2H2 type zinc fingers and 1 KRAB domain ZNF530 may be involved in transcriptional regulation.
- ZNF248 belongs to the krueppel C2H2 type zinc finger protein family It contains 8 C2H2 type zinc fingers and 1 KRAB domain ZNF248 may be involved in transcriptional regulation.
- CREBZF belongs to the bZIP family It strongly activates transcription when bound to HCFC1 The protein suppresses the expression of HSV proteins in cells infected with the virus in a HCFC1 dependent
- ZNF77 belongs to the krueppel C2H2 type zinc finger protein family It contains 12 C2H2 type zinc fingers and 1 KRAB domain ZNF77 may be involved in transcriptional regulation.
- NR0B2 is an unusual orphan receptor that contains a putative ligand binding domain but lacks a conventional DNA binding domain It is a member of the nuclear hormone receptor family a group of transcr
- NR112 belongs to the nuclear receptor superfamily members of which are transcription factors characterized by a ligand binding domain and a DNA binding domain NR112 contains a zinc finger domain NR1
- The SCAN domain is a highly conserved leucine rich motif of approximately 60 aa originally found within a subfamily of zinc finger proteins Functional studies have established that the SCAN box is a
- ZNF667 belongs to the krueppel C2H2 type zinc finger protein family It contains 15 C2H2 type zinc fingers and 1 KRAB domain ZNF667 may be involved in transcriptional regulation.
- ZBTB10 contains 1 BTB POZ domain and 2 C2H2 type zinc fingers ZBTB10 may be involved in transcriptional regulation.
- HOXB8 belongs to the Antp homeobox family It is a nuclear protein with a homeobox DNA binding domain This gene is included in a cluster of homeobox B genes located on chromosome 17 The protein func
- ZNF556 is a new candidate transcription factor.
- ZNF696 belongs to the krueppel C2H2 type zinc finger protein family It contains 9 C2H2 type zinc fingers ZNF696 may be involved in transcriptional regulation.
- ZNF333 belongs to the krueppel C2H2 type zinc finger protein family It contains 10 C2H2 type zinc fingers and 2 KRAB domains ZNF333 may be involved in transcriptional regulation.
- DMRTC2 belongs to the DMRT family It may be involved in sexual development.
- ZNF764 belongs to the krueppel C2H2 type zinc finger protein family It contains 7 C2H2 type zinc fingers and 1 KRAB domain ZNF764 may be involved in transcriptional regulation.
- ZNF300 has a transcriptional repressor activity.
- ZIM3 belongs to the krueppel C2H2 type zinc finger protein family It contains 11 C2H2 type zinc fingers and 1 KRAB domain ZIM3 may be involved in transcriptional regulation.
- KLF14 belongs to the Sp1 C2H2 type zinc finger protein family It contains 3 C2H2 type zinc fingers The exact function of KLF14 is not known.
- TGIF2LX is a member of the TALE TGIF homeobox family of transcription factors Testis specific expression suggests that this gene may play a role in spermatogenesis This gene encodes a member of the
- The exact function of PRDM15 remains unknown.
- The exact function of LOC115648 remains unknown.
- LASS5 may be either a bona fide dihydro ceramide synthase or a modulator of its activity When it is overexpressed in cells it is involved in the production of sphingolipids containing mainly only on
- ZNF585B may be involved in transcriptional regulation.
- ZNF572 belongs to the krueppel C2H2 type zinc finger protein family and may be involved in transcriptional regulation.
- ZNF417 belongs to the krueppel C2H2 type zinc finger protein family It contains 13 C2H2 type zinc fingers and 1 KRAB domain ZNF417 may be involved in transcriptional regulation.
- ZNF560 may be involved in transcriptional regulation.
- ZNF583 may be involved in transcriptional regulation.
- ZNF548 belongs to the krueppel C2H2 type zinc finger protein family It contains 11 C2H2 type zinc fingers and 1 KRAB domain ZNF548 may be involved in transcriptional regulation.
- ZFP3 belongs to the krueppel C2H2 type zinc finger protein family It contains 13 C2H2 type zinc fingers ZFP3 may be involved in transcriptional regulation.
- ZNF75A belongs to the krueppel C2H2 type zinc finger protein family It contains 5 C2H2 type zinc fingers and 1 KRAB domain ZNF75A may be involved in transcriptional regulation.
- SSX6 belongs to the family of highly homologous synovial sarcoma X SSX breakpoint proteins These proteins may function as transcriptional repressors They are also capable of eliciting spontaneous
- L3MBTL4 contains 3 MBT repeats and 1 SAM sterile alpha motif domain The exact function of L3MBTL4 remains unknown.
- ZNF100 belongs to the krueppel C2H2 type zinc finger protein family It contains 12 C2H2 type zinc fingers and 1 KRAB domain ZNF100 may be involved in transcriptional regulation.
- ZNF619 belongs to the krueppel C2H2 type zinc finger protein family It contains 10 C2H2 type zinc fingers ZNF619 may be involved in transcriptional regulation.
- Located on chromosome 3 the ZNF660 gene encodes for zinc finger protein 660.
- ZNF778 belongs to the krueppel C2H2 type zinc finger protein family It contains 19 C2H2 type zinc fingers and 1 KRAB domain ZNF778 may be involved in transcriptional regulation.
- The exact function of FLJ33706 remains unknown.
- ZNF454 belongs to the krueppel C2H2 type zinc finger protein family It contains 12 C2H2 type zinc fingers and 1 KRAB domain It may be involved in transcriptional regulation.
- The exact function of ZNF30 is not known.
- ZNF799 belongs to the krueppel C2H2 type zinc finger protein family It contains 18 C2H2 type zinc fingers and 1 KRAB domain ZNF799 may be involved in transcriptional regulation.
- Homeobox genes encode DNA binding proteins many of which are thought to be involved in early embryonic development Homeobox genes encode a DNA binding domain of 60 to 63 amino acids referred to as t
- TBX18 contains 1 T box DNA binding domain It is a probable transcriptional regulator involved in developmental processes.
- ZNF251 may be involved in transcriptional regulation.
- The A kinase anchor proteins AKAPs are a group of structurally diverse proteins which have the common function of binding to the regulatory subunit of protein kinase A PKA and confining the holo
- UPF1 is a protein that is part of a post splicing multiprotein complex involved in both mRNA nuclear export and mRNA surveillance mRNA surveillance detects exported mRNAs with truncated open reading
- SUPV3L1 is an ATPase and DNA RNA helicase able to unwind DNA DNA RNA and RNA RNA duplexes in the 5 3 direction SUPV3L1 may protect cells from apoptosis.
- DEAD box proteins characterized by the conserved motif Asp Glu Ala Asp DEAD are putative RNA helicases They are implicated in a number of cellular processes involving alteration of RNA secondary
- RAD54B belongs to the DEAD like helicase superfamily It shares similarity with Saccharomyces cerevisiae RAD54 and RDH54 both of which are involved in homologous recombination and repair of DNA This
- ZCCHC17 contains 1 CCHC type zinc finger and 1 S1 motif domain The exact function of ZDHHC19 remains unknown.
- Twinkle is a mitochondrial protein with structural similarity to the phage T7 primase helicase GP4 and other hexameric ring helicases The twinkle protein colocalizes with mtDNA in mitochondrial nuc
- DEAD box proteins characterized by the conserved motif Asp Glu Ala Asp DEAD are putative RNA helicases They are implicated in a number of cellular processes involving alteration of RNA secondary s
- The specific function of DDX59 is not yet known.
- This protein binds the cAMP response element CRE consensus 5 GTGACGT AC AG 3 a sequence present in many viral and cellular promoters ATF3 represses transcription from promoters with ATF sit
- TNFSF12 is a cytokine that belongs to the tumor necrosis factor TNF ligand family This protein is a ligand for the FN14 TWEAKR receptor This cytokine has overlapping signaling functions with TNF.
- ARC is required for consolidation of synaptic plasticity as well as formation of long term memory It regulates endocytosis of AMPA receptors in response to synaptic activity The protein is also requ
- Annexin IV ANX4 belongs to the annexin family of calcium dependent phospholipid binding proteins Although their functions are still not clearly defined several members of the annexin family have b
- ANXA8L2 is a member of the annexin family of evolutionarily conserved Ca2 and phospholipid binding proteins The protein may function as an anticoagulant that indirectly inhibits the thromboplastin s
- GJA4 is a member of the connexin family The protein is a component of gap junctions which are composed of arrays of intercellular channels that provide a route for the diffusion of low molecular wei
- IFT140 contains 9 TPR repeats and 5 WD repeats The function of the IFT140 protein remains unknown.
- GJC2 is a gap junction protein Gap junction proteins are members of a large family of homologous connexins and comprise 4 transmembrane 2 extracellular and 3 cytoplasmic domains This gene plays a
- GJD2 is a member of the connexin gene family that is expressed predominantly in mammalian neurons Connexins



MOLECULAR PRODUCTS

ELISA, antibody , PCR, cell culture,
lentiviral cDNA clones

associate in groups of 6 and are organized radially around a central pore to form connexons

- GJA3 belongs to the connexin family One gap junction consists of a cluster of closely packed pairs of transmembrane channels the connexons through which materials of low MW diffuse from one cell to
- Connexins such as GJA9 are involved in the formation of gap junctions intercellular conduits that directly connect the cytoplasm of contacting cells Each gap junction channel is formed by docking
- MCM3 is one of the highly conserved mini chromosome maintenance proteins MCM that are involved in the initiation of eukaryotic genome replication The hexameric protein complex formed by MCM protein
- This protein is one of the highly conserved mini chromosome maintenance proteins MCM that are essential for the initiation of eukaryotic genome replication The hexameric protein complex formed by t
- KCTD4 contains 1 BTB POZ domain The exact function of KCTD4 remains unknown
- Vax1 is required for axon guidance and major tract formation in the developing forebrain Vax1 may contribute to the differentiation of the neuroretina pigmented epithelium and optic stalk
- CSNK1g1 is involved in regulation of fast synaptic transmission mediated by glutamate the major excitatory neurotransmitter in the brain
- GRIK5 is a protein that belongs to the glutamate gated ionic channel family Glutamate functions as the major excitatory neurotransmitter in the central nervous system through activation of ligand gat
- ONECUT2 is a member of the transcription factors of the ONECUT class whose prototype is hepatocyte nuclear factor HNF 6 The distribution of OC 2 mRNA in humans is tissue restricted the strongest
- ZRANB2 is a splice factor required for alternative splicing of SFRS10 TRA2B transcripts It may interfere with constitutive 5 splice site selection
- ZNF239 belongs to the krueppel C2H2 type zinc finger protein family It contains 9 C2H2 type zinc fingers ZNF239 may be involved in transcriptional regulation MOK2 proteins are DNA and RNA binding p
- ZNF146 OZF overexpression in tumours may alter the balance between hRap1 and other telomeric proteins therefore OZF function may be linked to telomere regulation ZNF146 is strongly overexpressed i
- ZNF324 belongs to the krueppel C2H2 type zinc finger protein family It contains 9 C2H2 type zinc fingers and 1 KRAB domain ZNF324 may be involved in transcriptional regulation
- L3MBTL is the homolog of a protein identified in Drosophila as a suppressor of malignant transformation of neuroblasts and ganglion mother cells in the optic centers of the brain L3MBTL is localized
- The function of Anti ZBTB7A has not yet been determined
- The SCAN domain is a highly conserved leucine rich motif of approximately 60 aa originally found within a subfamily of zinc finger proteins This gene belongs to a family of genes that encode an iso
- RHOXF2 belongs to the paired like homeobox family PEPP subfamily It contains 1 homeobox DNA binding domain The function of RHOXF2 remains unknown
- The function of Anti ZNF688 has not yet been determined
- ZNF511 may be involved in transcriptional regulation
- ZFP62 may play a role in differentiating skeletal muscle
- ZNF598 contains 1 C2H2 type zinc finger and 1 RING type zinc finger The exact function of ZNF598 remains unknown
- TBX18 is a probable transcriptional regulator involved in developmental processes
- TRIM4 is a member of the tripartite motif TRIM family The TRIM motif includes three zinc binding domains a RING a B box type 1 and a B box type 2 and a coiled coil region The protein localizes
- ABHD2 contains an alpha beta hydrolase fold which is a catalytic domain found in a very wide range of enzymes ABHD2 may play a role in smooth muscle cells migration This gene encodes a protein conta
- WT1 is a transcription factor that contains four zinc finger motifs at the C terminus and a proline glutamine rich DNA binding domain at the N terminus It has an essential role in the normal developm
- RFX2 is a member of transcription factors that contain a highly conserved winged helix DNA binding domain RFX2 is structurally related to regulatory factors X1 X3 X4 and X5 It is a transcriptiona
- This protein mediates the physiological effects of progesterone which plays a central role in reproductive events associated with the establishment and maintenance of pregnancy This gene encodes a me
- Many DNA binding transcriptional activator proteins enhance the initiation rate of RNA polymerase II mediated gene transcription by interacting functionally with the general

transcription machinery bo

- AFF2 belongs to the AF4 family Defects in AFF2 are the cause of FRAXE The exact function of AFF2 remains unknown
- GTF2E2 belongs to the TFIIE beta subunit family It recruits TFIIH to the initiation complex and stimulates the RNA polymerase II C terminal domain kinase and DNA dependent ATPase activities of TFIIH
- MAX dimerization protein belongs to a subfamily of MAX interacting proteins MXD1 competes with MYC for binding to MAX to form a sequence specific DNA binding complex acts as a transcriptional repress
- MAZ may function as a transcription factor with dual roles in transcription initiation and termination It binds to two sites ME1a1 and ME1a2 within the c myc promoter having greater affinity for the
- The myeloid cell nuclear differentiation antigen MND4 is detected only in nuclei of cells of the granulocyte monocyte lineage MND4 may act as a transcriptional activator repressor in the myeloid lin
- Nkx2.2 contains 1 homeobox DNA binding domain which is essential for interaction with OLIG2 Nkx2.2 may be involved in specifying diencephalic neuromeric boundaries and in controlling the expression
- PLAG1 is a zinc finger protein with 2 putative nuclear localization signals PLAG1 which is developmentally regulated has been shown to be consistently rearranged in pleomorphic adenomas of the saliv
- RFX1 is a member of the regulatory factor X protein family which are transcription factors that contain a highly conserved winged helix DNA binding domain RFX1 is structurally related to regulatory
- SOX4 is a member of the SOX SRY related HMG box family of transcription factors involved in the regulation of embryonic development and in the determination of the cell fate It may act as a transcr
- SP4 belongs to the Sp1 C2H2 type zinc finger protein family It contains 3 C2H2 type zinc fingers SP4 binds to GT and GC boxes promoters elements It is a probable transcriptional activator
- SP11 is known to collaborate with multiple transcription factors and to regulate expression of immunoglobulin genes Lack of SP11 expression is associated with defective immunoglobulin transcription i
- STAT3 is a member of the STAT protein family In response to cytokines and growth factors STAT family members are phosphorylated by the receptor associated kinases and then form homo or heterodimer
- The nuclear orphan receptors NR2C1 represses transcription and binds DNA as a homodimer NR2C1 binds the IR7 element in the promoter of its own gene in an autoregulatory negative feedback mechanism N
- Members of the nuclear hormone receptor family such as NR2C2 act as ligand activated transcription factors The proteins have an N terminal transactivation domain a central DNA binding domain with
- TULP2 is a member of a family of tubby like genes TULPs that encode proteins of unknown function Members of this family have been identified in plants vertebrates and invertebrates The TULP prot
- TULP3 is a member of the tubby like protein TULP family Members of this family have been identified in plants vertebrates and invertebrates and they share a conserved C terminal region of approx
- ZFY is a zinc finger containing protein that may function as a transcription factor ZFY was once a candidate gene for the testis determining factor TDF and was erroneously referred to as TDF This g
- The exact function of ZNF124 remains unknown
- Zinc finger encoding genes would be good candidates for being involved in the multiple developmental defects associated with chromosomal aneuploidy because of their role as transcriptional regulators
- ZNF157 belongs to the krueppel C2H2 type zinc finger protein family It contains 12 C2H2 type zinc fingers and 1 KRAB domain ZNF157 may be involved in transcriptional regulation This gene product is
- ZNF205 may be involved in transcriptional regulation
- KLF11 TIEG2 is a pancreas enriched transcription factor that has elicited significant attention because of its role as negative regulator of exocrine cell growth in vitro and in vivo It plays a rol
- TEAD2 contains 1 TEA DNA binding domain TEAD2 is a putative transcription factor that binds to the SPH and GTIIC enhansons 5 GTGGAAATGT 3 It may be involved in the gene regulation of neural deve
- The exact function of BUD31 remains unknown
- ZNF213 may be involved in transcriptional regulation C2H2 zinc finger proteins such as ZNF213 have bipartite structures in which one domain binds DNA or RNA and the other modulates target gene expe
- RCAN1 interacts with calcineurin A and inhibits calcineurin

dependent signaling pathways possibly affecting central nervous system development This gene is located in the minimal candidate region fo

- ONECUT1 belongs to the CUT homeobox family It contains 1 CUT DNA binding domain and 1 homeobox DNA binding domain It is a transcriptional activator ONECUT1 binds the consensus sequence 5 DHWATTGAY
- MLLT3 is a regulator of early erythroid and megakaryocytic cell fate in the human system Expression of MLLT3 in human CD34 cells induces acute myeloid lymphoid or mixed lineage leukemia in immunod
- SF1 contains 1 CCHC type zinc finger and 1 KH domain SF1 is Necessary for the ATP dependent first step of spliceosome assembly It binds to the intron branch point sequence BPS 5 UACUAAC 3 of the
- ZFP36L1 is a member of the TIS11 family of early response genes Family members are induced by various agonists such as the phorbol ester TPA and the polypeptide mitogen EGF The gene is well conserve
- PLA2G4B gene transcribes naturally occurring mRNAs that are co transcribed products of the neighboring JMJD7 and PLA2G4B genes Incompletely processed read through transcripts from these two loci are
- ARID3A is a member of the ARID AT rich interaction domain family of proteins which bind DNA Other ARID family members have roles in embryonic patterning cell lineage gene regulation cell cycle co
- TAL2 is a helix loop helix protein Translocations between this gene on chromosome 9 and the T cell receptor beta chain locus on chromosome 7 have been associated with activation of the T cell acute l
- Interaction of NR1H3 with RXR shifts RXR from its role as a silent DNA binding partner to an active ligand binding subunit in mediating retinoid responses through target genes defined by LXRES NR1H3
- RBM5 is a component of the spliceosome A complex It regulates alternative splicing of a number of mRNAs RBM5 may modulate splice site pairing after recruitment of the U1 and U2 snRNPs to the 5 and 3
- NAB2 is a member of the family of NGFI A binding NAB proteins which function in the nucleus to repress transcription induced by some members of the EGR early growth response family of transactiva
- TRIM22 is a member of the tripartite motif TRIM family The TRIM motif includes three zinc binding domains a RING a B box type 1 and a B box type 2 and a coiled coil region It localizes to the c
- CITED2 belongs to the CITED family It interferes with the binding of transcription factors HIF 1a and STAT2 to p300 CBP
- DPF2 is a member of the d4 domain family characterized by a zinc finger like structural motif This protein functions as a transcription factor which is necessary for the apoptotic response following
- ZNF192 belongs to the krueppel C2H2 type zinc finger protein family and contains the conserved SCAN box domain ZNF192 may be involved in transcriptional regulation
- PDLIM5 is a LIM domain protein LIM domains are cysteine rich double zinc fingers composed of 50 to 60 amino acids that are involved in protein protein interactions LIM domain containing proteins are
- ZBTB6 Contains 1 BTB POZ domain and 4 C2H2 type zinc fingers It may be involved in transcriptional regulation
- In vertebrates the genes encoding the class of transcription factors called homeobox genes are found in clusters named A B C and D on four separate chromosomes Expression of these proteins is spa
- RORB is a member of the NR1 subfamily of nuclear hormone receptors It is a DNA binding protein that can bind as a monomer or as a homodimer to hormone response elements upstream of several genes to e
- The exact function of RNF113A remains unknown
- ZNF185 contains 1 LIM zinc binding domain The function of ZNF185 remains unknown ZNF185 encodes a LIM domain zinc finger protein These proteins are thought to be involved in protein protein interact
- ZXDA contains 10 C2H2 type zinc fingers It belongs to the ZXD family ZXDA cooperates with CIITA to promote transcription of MHC class I and MHC class II genes
- Transcription of protein coding genes can be reconstituted on naked DNA with only the general transcription factors and RNA polymerase II However this minimal system cannot transcribe DNA packaged i
- Activator protein 2 alpha AP 2 alpha is a developmentally regulated transcription factor and important regulator of gene expression during vertebrate development and carcinogenesis KLF12 is a membe
- RERE is a member of the atrophin family of arginine glutamic acid RE dipeptide repeat containing proteins RERE co localizes with a transcription factor in the nucleus and its overexpression trigge



MOLECULAR PRODUCTS

ELISA, antibody , PCR, cell culture,
lentiviral cDNA clones

- [FOXJ1 belongs to the forkhead family of transcription factors which is characterized by a distinct forkhead domain FOXJ1 may play an important role in the development of the cochlea and vestibulum.](#)
- [HBP1 is a transcriptional repressor that binds to the promoter region of target genes This protein plays a role in the regulation of the cell cycle and of the Wnt pathway It binds preferentially to](#)
- [LDOC1 contains a leucine zipper like motif and a proline rich region that shares marked similarity with an SH3 binding domain The protein localizes to the nucleus and is down regulated in some cancer](#)
- [The protein is a member of the STAT family of transcription factors In response to cytokines and growth factors STAT family members are phosphorylated by the receptor associated kinases and then fo](#)
- [ZNF281 belongs to the krueppel C2H2 type zinc finger protein family It contains 4 C2H2 type zinc fingers ZNF281 may be involved in transcriptional regulation It represses the transcription of a num](#)
- [ZNF228 contains 1 KRAB domain The function of ZNF228 remains unknown.](#)
- [ZBTB43 belongs to the krueppel C2H2 type zinc finger protein family It contains 1 BTB POZ domain and 3 C2H2 type zinc fingers ZBTB43 may be involved in transcriptional regulation.](#)
- [PATZ1 contains an A T hook DNA binding motif which usually binds to other DNA binding structures to play an important role in chromatin modeling and transcription regulation Its Poz domain is thought](#)
- [ZBTB11 contains 1 BTB POZ domain and 12 C2H2 type zinc fingers It may be involved in transcriptional regulation.](#)
- [OTX1 probably plays a role in the development of the brain and the sense organs OTX1 can bind to the BCD target sequence BTS 5 TCTAATCCC 3 This gene encodes a member of the bicoid sub family of](#)
- [ZNF510 may be involved in transcriptional regulation.](#)
- [JMJD6 is a nuclear protein with a JmjC domain JmjC domain containing proteins are predicted to function as protein hydroxylases or histone demethylases This protein was first identified as a putativ](#)
- [This protein interacts with methyl CpG binding protein 2 MBD2 MIM 603547 a component of the MeCP1 histone deacetylase HDAC complex and plays a role in DNA methylation and transcription repressi](#)
- [TRIM33 is thought to be a transcriptional corepressor However molecules that interact with this protein have not yet been identified The protein is a member of the tripartite motif family This mot](#)
- [The TGFBI1 gene encodes a protein that is a key element in the transduction of signals from the cell surface to the nucleus under oxidative stress review Higher gene expression may result in unfavor](#)
- [The kelch repeat protein family is a recently found new kind of actin binding protein It is characterized by tandemly arranged motifs of about 50 amino acids Most members of the kelch repeat family](#)
- [PHF11 contains two PHD zinc fingers and probably regulates transcription Distinctive splice variants were expressed in immune tissues and cells.](#)
- [ERGIC2 belongs to the ERGIC family It possible play a role in transport between endoplasmic reticulum and Golgi](#)
- [This gene is a member of the vertebrate gene family which encode proteins homologous to the Drosophila sine oculis homeobox protein SIX2 is a transcription factor which like other members of this](#)
- [KLHL3 protein contains a poxvirus and zinc finger domain at the N terminus and six tandem repeats kelch repeats at the C terminus At the amino acid level KLHL3 shares 77 similarity with Drosophil](#)
- [The specific function of SIX4 is not yet known.](#)
- [The exact function of the protein encoded by this gene is not known However POGK contains a KRAB domain which is involved in protein protein interactions at the N terminus and a transposase domai](#)
- [NKRF is a transcription factor that interacts with specific negative regulatory elements NREs to mediate transcriptional repression of certain NK kappa B responsive genes NKRF localizes predominant](#)
- [NOTCH1 is a member of the Notch family Notch family members play a role in a variety of developmental processes by controlling cell fate decisions The Notch signaling network is an evolutionarily co](#)
- [ZNF280C contains 5 C2H2 type zinc fingers It may function as a transcription factor](#)
- [HIF1AN is a co repressor that interacts with hypoxia inducible factor 1 HIF 1 alpha and the von Hippel Lindau tumor suppressor protein to mediate repression of HIF 1 transcriptional activity.](#)
- [BCL11A is a C2H2 type zinc finger protein by its similarity to the mouse Bcl11a Evi9 protein The corresponding mouse gene is a common site of retroviral integration in myeloid](#)

leukemia and may funct

- [The protein encoded by TRIM68 contains a RING finger domain a motif present in a variety of functionally distinct proteins and known to be involved in protein protein and protein DNA interactions TR](#)
- [PBRM1 is involved in transcriptional activation and repression of select genes by chromatin remodeling alteration of DNA nucleosome topology.](#)
- [HMG20A plays a role in neuronal differentiation as chromatin associated protein It overcomes the repressive effects of the neuronal silencer REST and induces the activation of neuronal specific genes](#)
- [TRIM62 contains 1 RING type zinc finger which is probably involved in mediating protein protein interactions RING type zinc finger was identified in a group of proteins with a wide range of function](#)
- [ZNF415 is involved in transcriptional regulation The transcriptional activity differed among the various isoforms All isoforms except isoform 3 seem to suppress the transcriptional activities of AP.](#)
- [MDS032 belongs to the USE1 family and is a component of a SNARE complex which may be involved in targeting and fusion of Golgi derived retrograde transport vesicles with the ER.](#)
- [MESP1 is a transcription factor MESP1 plays a role in the epithelialization of somitic mesoderm and in the development of cardiac mesoderm MESP1 defines the rostrocaudal patterning of the somites by](#)
- [This gene belongs to the homeobox family of genes The homeobox genes encode a highly conserved family of transcription factors that play an important role in morphogenesis in all multicellular organi](#)
- [KLHL4 is a member of the kelch family of proteins which are characterized by kelch repeat motifs and a POZ BTB protein binding domain It is thought that kelch repeats are actin binding domains Howe](#)
- [KCMF1 belongs to the KCMF1 family It contains 1 C2H2 type zinc finger and 1 ZZ type zinc finger It has intrinsic E3 ubiquitin ligase activity and promotes ubiquitination.](#)
- [ARNTL2 CLOCK heterodimers activate E box element 3 CACGTG 5 transcription Also in umbilical vein endothelial cells ARNTL2 activates SERPINE1 through E box sites This transcription activity is inhibit](#)
- [The Myc Max Mad network comprises a group of transcription factors that co interact to regulate gene specific transcriptional activation or repression MNT is a protein member of the Myc Max Mad netwo](#)
- [ZMIZ1 increases ligand dependent transcriptional activity of AR and promotes AR sumoylation The stimulation of AR activity is dependent upon sumoylation.](#)
- [ZNF287 is a member of the krueppel family of zinc finger proteins suggesting a role as a transcription factor Its specific function has not been determined This gene encodes a member of the krueppe](#)
- [ZNF490 belongs to the krueppel C2H2 type zinc finger protein family It contains 13 C2H2 type zinc fingers and 1 KRAB domain ZNF490 may be involved in transcriptional regulation.](#)
- [Dioxin is a teratogen that exerts its effects through the arylhydrocarbon receptor in conjunction with the receptor s binding partner arylhydrocarbon receptor nuclear translocator AHRR represses sig](#)
- [The specific function of KLHL8 is not yet known.](#)
- [KLHL1 contains 6 Kelch repeats and 1 BTB POZ domain It is highly expressed in brain KLHL1 may play a role in organizing the actin cytoskeleton of the brain cells.](#)
- [ZBTB26 contains 4 C2H2 type zinc fingers It may be involved in transcriptional regulation.](#)
- [ZNF317 belongs to the krueppel C2H2 type zinc finger protein family It contains 13 C2H2 type zinc fingers and 1 KRAB domain ZNF317 may function as a transcription factor It may play an important ro](#)
- [The function of the Anti ZNF529 gene has not yet been determined](#)
- [DEAF1 down regulates transcription of those genes by binding to sequence with multiple copies of TTC CG G present in their own promoter and that of the HNRPA2B1 gene DEAF1 binds to the retinoic acid](#)
- [SSX5 belongs to the family of highly homologous synovial sarcoma X SSX breakpoint proteins These proteins may function as transcriptional repressors They are also capable of eliciting spontaneous](#)
- [UTX is a histone demethylase that specifically demethylates Lys 27 of histone H3 thereby playing a central role in histone code It demethylates trimethylated and dimethylated but not monomethylate](#)
- [DMTF1 binds specifically to the nonamer DNA consensus sequences CCGG G T ATGT to activate transcription.](#)
- [ZNF71 belongs to the krueppel C2H2 type zinc finger protein family and may be involved in transcriptional regulation.](#)
- [OVOL2 contains 4 C2H2 type zinc fingers It belongs to the](#)

krueppel C2H2 type zinc finger protein family It is a DNA binding protein that binds to the 5 G GCT GGGGG 3 core sequence Probably acts a

- [PRDM13 may be involved in transcriptional regulation.](#)
- [BACH2 belongs to the bZIP family It is a transcriptional regulator that acts as repressor or activator The protein binds to Maf recognition elements MARE and play important roles in coordinating t](#)
- [ZNF335 enhances transcriptional activation by ligand bound nuclear hormone receptors However it does this not by direct interaction with the receptor but by direct interaction with the nuclear horm](#)
- [The SOX17 gene encodes a member of the SOX SRY related HMG box family of transcription factors involved in the regulation of embryonic development and in the determination of the cell fate The enco](#)
- [HOXB8 is a member of the Antp homeobox family and is a nuclear protein with a homeobox DNA binding domain It is included in a cluster of homeobox B genes located on chromosome 17 HOXB8 functions as](#)
- [ZNF419A contains 1 KRAB domain and 11 C2H2 type zinc fingers and belongs to the krueppel C2H2 type zinc finger protein family NF419A may be involved in transcriptional regulation.](#)
- [ZBTB3 contains 2 C2H2 type zinc fingers and 1 BTB POZ domain It may be involved in transcriptional regulation.](#)
- [ZNF669 belongs to the krueppel C2H2 type zinc finger protein family It contains 9 C2H2 type zinc fingers and 1 KRAB domain ZNF669 may be involved in transcriptional regulation.](#)
- [GRHL2 is a transcription factor that can act as a homodimer or as a heterodimer with either GRHL1 or GRHL3 Defects in this gene are a cause of non syndromic sensorineural deafness autosomal dominant](#)
- [ZNF703 belongs to the Elbow Noc family It contains 1 C2H2 type zinc finger ZNF703 may function as a transcriptional repressor.](#)
- [TRIM8 is a member of the tripartite motif TRIM family The TRIM motif includes three zinc binding domains a RING a B box type 1 and a B box type 2 and a coiled coil region This protein localizes](#)
- [TRIM56 belongs to the TRIM RBCC family It contains 2 B box type zinc fingers and 1 RING type zinc finger The function of the TRIM56 protein remains unknown.](#)
- [SOX7 is a member of the SOX SRY related HMG box family of transcription factors involved in the regulation of embryonic development and in the determination of the cell fate SOX7 may act as a trans](#)
- [ZIC4 is a member of the ZIC family of C2H2 type zinc finger proteins Members of this family are important during development and have been associated with X linked visceral heterotaxy and holoprosen](#)
- [ZNF644 may be involved in transcriptional regulation.](#)
- [ZNF414 may be involved in transcriptional regulation.](#)
- [SSBP4 contains 1 LisH domain The exact function of SSBP4 remains unknown.](#)
- [ZNF587 may be involved in transcriptional regulation.](#)
- [HSFY1 is a member of the heat shock factor HSF family of transcriptional activators for heat shock proteins This gene is a candidate gene for azoospermia since it localizes to a region of chromoso](#)
- [MSL3L1 is a nuclear protein which is thought to play a similar function in chromatin remodeling and transcriptional regulation This gene has been found to undergo X inactivation This gene encodes a](#)
- [ZNF280B contains 4 C2H2 type zinc fingers It may function as a transcription factor This gene was identified by homology to other species Its encoded protein is approximately 78.88 identical to a p](#)
- [ZNF431 may be involved in transcriptional regulation.](#)
- [SLC26A10 is a chloride bicarbonate exchanger.](#)
- [ZNF655 is a zinc finger protein The zinc finger proteins are involved in DNA binding and protein protein interactions This gene encodes a zinc finger protein The zinc finger proteins are involved i](#)
- [ZNF513 may be involved in transcriptional regulation.](#)
- [ZNF570 is a new candidate transcription factor](#)
- [MAX is a member of the basic helix loop helix leucine zipper bHLHZ family of transcription factors It is able to form homodimers and heterodimers with other family members which include Mad Mxi1](#)
- [ZNF625 may be involved in transcriptional regulation.](#)
- [ISL2 is the transcriptional factor that defines subclasses of motoneurons that segregate into columns in the spinal cord and select distinct axon pathways.](#)
- [ZNF641 belongs to the krueppel C2H2 type zinc finger protein family It contains 5 C2H2 type zinc fingers and 1 KRAB domain ZNF641 activates transcriptional activities of SRE and AP 1](#)
- [This protein Controls the development of red pulp macrophages required for red blood cells recycling and iron homeostasis Transcription factor that binds to the PU box a](#)



MOLECULAR PRODUCTS

ELISA, antibody , PCR, cell culture,
lentiviral cDNA clones

[purine rich DNA sequence 5](#)

- [The function of ZNF491 has not yet been determined](#)
- [ZNF579 belongs to the krueppel C2H2 type zinc finger protein family It contains 8 C2H2 type zinc fingers ZNF579 may be involved in transcriptional regulation](#)
- [ZNF567 may be involved in transcriptional regulation](#)
- [ZNF540 belongs to the krueppel C2H2 type zinc finger protein family It contains 17 C2H2 type zinc fingers and 1 KRAB domain ZNF540 may be involved in transcriptional regulation](#)
- [ZNF366 may be involved in transcriptional regulation](#)
- [ZNF555 contains 15 C2H2 type zinc fingers and 1 KRAB domain It belongs to the krueppel C2H2 type zinc finger protein family and may be involved in transcriptional regulation Western blots using two](#)
- [ZNF524 may be involved in transcriptional regulation](#)
- [KLF17 binds G C rich sites via its zinc fingers and activates transcription from CACCC box elements It may be a germ cell specific transcription factor that plays important roles in spermatid differe](#)
- [JAZF1 is a nuclear protein with three C2H2 type zinc fingers and functions as a transcriptional repressor Chromosomal aberrations involving this gene are associated with endometrial stromal tumors T](#)
- [FOXK2 contains a fork head DNA binding domain This protein can bind to the purine rich motifs of the HIV long terminal repeat LTR and to the similar purine rich motif in the interleukin 2 IL2 pr](#)
- [BCL6B acts as a sequence specific transcriptional repressor in association with BCL6 BCL6B may function in a narrow stage or be related to some events in the early B cell development](#)
- [ZSCAN1 may be involved in transcriptional regulation](#)
- [ZNF677 belongs to the krueppel C2H2 type zinc finger protein family It contains 10 C2H2 type zinc fingers and 1 KRAB domain ZNF677 may be involved in transcriptional regulation](#)
- [ZNF326 is a candidate transcription factor](#)
- [ZNF773 belongs to the krueppel C2H2 type zinc finger protein family It contains 9 C2H2 type zinc fingers and 1 KRAB domain It may be involved in transcriptional regulation](#)
- [JMJD3 is a histone demethylase that specifically demethylates Lys 27 of histone H3 thereby playing a central role in histone code It plays a central role in regulation of posterior development by](#)
- [EVX2 belongs to the even skipped homeobox family It contains 1 homeobox DNA binding domain 117 kb microdeletion removing HOXD9 HOXD13 and EVX2 causes synpolydactyly](#)
- [SIRT5 is included in class III of the sirtuin family which is characterized by a sirtuin core domain Human sirtuins may function as intracellular regulatory proteins with mono ADP ribosyltransferase a](#)
- [SIDT2 belongs to the SID1 family It is a multi pass membrane protein The exact function of SIDT2 remains unknown](#)
- [Oxysterols regulate cholesterol homeostasis through the liver X receptor LXR and sterol regulatory element binding protein SREBP mediated signaling pathways This gene is an insulin induced gene](#)
- [INSIG2 is highly similar to the protein product encoded by gene INSIG1 Both INSIG1 protein and this protein are endoplasmic reticulum proteins that block the processing of sterol regulatory element b](#)
- [DNA methylation is the major modification of eukaryotic genomes and plays an essential role in mammalian development Human proteins MECP2 MBD1 MBD2 MBD3 and MBD4 comprise a family of nuclear prot](#)
- [TUBB2A belongs to the tubulin family Tubulin is the major constituent of microtubules It binds two moles of GTP one at an exchangeable site on the beta chain and one at a non exchangeable site on t](#)
- [Microtubules of the eukaryotic cytoskeleton perform essential and diverse functions and are composed of a heterodimer of alpha and beta tubulin The genes encoding these microtubule constituents are p](#)
- [Type I protein arginine N methyltransferases PRMTs such as PRMT3 catalyze the formation of asymmetric N G N G dimethylarginine ADMA residues in proteins Type I protein arginine N methyltrans](#)
- [ATP5G2 is a subunit of mitochondrial ATP synthase ATP synthase is composed of two linked multi subunit complexes the soluble catalytic core F1 and the membrane spanning component F0 comprising t](#)
- [RBPMS is a member of the RRM family of RNA binding proteins The RRM domain is between 80 100 amino acids in length and family members contain one to four copies of the domain The RRM domain consists](#)
- [Part of the core SMN complex which plays an essential role in spliceosomal snRNP assembly in the cytoplasm and is required for pre mRNA splicing in the nucleus](#)

- [CARS is a class 1 aminoacyl tRNA synthetase cysteinyl tRNA synthetase Each of the twenty aminoacyl tRNA synthetases catalyzes the aminoacylation of a specific tRNA or tRNA isoaccepting family with t](#)
- [The function of TNRC6B remains unknown](#)
- [Members of the CELF BRUNOL protein family contain two N terminal RNA recognition motif RRM domains one C terminal RRM domain and a divergent segment of 160 230 aa between the second and third RRM](#)
- [KIAA0020 contains 6 pumilio repeats and 1PUM HD domain The function remains unknown](#)
- [CDC5L shares a significant similarity with Schizosaccharomyces pombe cdc5 gene product which is a cell cycle regulator important for G2 M transition CDC5L has been demonstrated to act as a positive](#)
- [CSTF3 is one of three including CSTF1 and CSTF2 cleavage stimulation factors that combine to form the cleavage stimulation factor complex CSTF This complex is involved in the polyadenylation and](#)
- [Translation initiation is mediated by specific recognition of the cap structure by eukaryotic translation initiation factor 4F eIF4F which is a cap binding protein complex that consists of three su](#)
- [NOVA1 is a neuron specific RNA binding protein a member of the Nova family of paraneoplastic disease antigens that is recognized and inhibited by paraneoplastic antibodies These antibodies are four](#)
- [The poly A binding protein PABP which is found complexed to the 3 prime poly A tail of eukaryotic mRNA is required for poly A shortening and translation initiation In humans the PABPs comp](#)
- [This gene through alternative splicing encodes three different isoforms Two of the protein isoforms encoded by this gene are specific inhibitors of type 1 serine threonine protein phosphatases and](#)
- [PTBP1 belongs to the subfamily of ubiquitously expressed heterogeneous nuclear ribonucleoproteins hnRNPs The hnRNPs are RNA binding proteins and they complex with heterogeneous nuclear RNA hnRNA](#)
- [RNASEH1 belongs to the RNase H family It contains 1 RNase H domain RNASEH1 is an endonuclease that specifically degrades the RNA of RNA DNA hybrids](#)
- [This protein is a type I integral membrane protein found only in the rough endoplasmic reticulum The encoded protein is part of an N oligosaccharyl transferase complex that links high mannose oligosa](#)
- [SFRS3 belongs to the splicing factor SR family It contains 1 RRM RNA recognition motif domain It may be involved in RNA processing in relation with cellular proliferation and or maturation](#)
- [SNRPA1 contains 3 LRR leucine rich repeats and belongs to the U2 small nuclear ribonucleoprotein A family It is associated with sn RNP U2 and helps the A protein to bind stem loop IV of U2 snRNA](#)
- [SNRPB is one of several nuclear proteins that are found in common among U1 U2 U4 U6 and U5 small ribonucleoprotein particles snRNPs These snRNPs are involved in pre mRNA splicing and the encode](#)
- [SRP54 belongs to the GTP binding SRP family It binds to the signal sequence of presecretory protein when they emerge from the ribosomes and transfers them to TRAM translocating chain associating mem](#)
- [SRPR belongs to the GTP binding SRP family It is in conjunction with SRP the correct targeting of the nascent secretory proteins to the endoplasmic reticulum membrane system](#)
- [KHSRP binds to the dendritic targeting element and may play a role in mRNA trafficking It is part of a ternary complex that binds to the downstream control sequence DCS of the pre mRNA KHSRP media](#)
- [RNA 3 prime terminal phosphate cyclase catalyzes the ATP dependent conversion of a 3 prime phosphate to a 2 prime 3 prime cyclic phosphodiester at the end of RNA RNA 3 prime terminal phosphate cyclase](#)
- [OASL does not have 2 5 OAS activity but binds double stranded RNA and DNA](#)
- [EIF3G belongs to the eIF 3 subunit G family It is a component of the eukaryotic translation initiation factor 3 eIF 3 complex which is required for several steps in the initiation of protein synth](#)
- [EIF4G3 is probable component of the protein complex eIF4F which is involved in the recognition of the mRNA cap ATP dependent unwinding of 5 terminal secondary structure and recruitment of mRNA to t](#)
- [RNMT belongs to the mRNA cap methyltransferase family RNMT is a mRNA capping methyltransferase that methylates the N7 position of the added guanosine to the 5 cap structure of mRNAs It binds RNA co](#)
- [Synaptotagmin 1 is a phosphoinositide phosphatase that regulates levels of membrane phosphatidylinositol 4 5 bisphosphate As such expression of this enzyme may affect synaptic transmission and membra](#)

- [IREB2 binds to iron responsive elements IRES which are stem loop structures found in the 5 UTR of ferritin and delta aminolevulinic acid synthase mRNAs and in the 3 UTR of transferrin receptor](#)
- [HRB is related to nucleoporins a class of proteins that mediate nucleocytoplasmic transport HRB binds the activation domain of the human immunodeficiency virus Rev protein when Rev is assembled onto](#)
- [SFRS8 is a human homolog of Drosophila splicing regulatory protein This gene encodes a human homolog of Drosophila splicing regulatory protein This gene autoregulates its expression by control of spl](#)
- [SNRPD2 belongs to the small nuclear ribonucleoprotein core protein family It is required for pre mRNA splicing and small nuclear ribonucleoprotein biogenesis Multiple transcript variants encoding di](#)
- [SNRPD2 belongs to the small nuclear ribonucleoprotein core protein family It is required for pre mRNA splicing and small nuclear ribonucleoprotein biogenesis The protein encoded by this gene belongs](#)
- [RBM39 is an RNA binding protein and possible splicing factor It is found in the nucleus where it colocalizes with core spliceosomal proteins Studies of a mouse protein with high sequence similarity](#)
- [HNRPDL belongs to the subfamily of ubiquitously expressed heterogeneous nuclear ribonucleoproteins hnRNPs The hnRNPs are RNA binding proteins and they complex with heterogeneous nuclear RNA hnRNA](#)
- [PIGK is a member of the cysteine protease family C13 that is involved in glycosylphosphatidylinositol GPI anchor biosynthesis The GPI anchor is a glycolipid found on many blood cells and serves to](#)
- [The nuclear import of the spliceosomal snRNPs U1 U2 U4 and U5 is dependent on the presence of a complex nuclear localization signal The latter is composed of the 5 2 2 7 terminal trimethylguanosine](#)
- [HNRNPR belongs to the subfamily of ubiquitously expressed heterogeneous nuclear ribonucleoproteins hnRNPs The hnRNPs are RNA binding proteins and they complex with heterogeneous nuclear RNA hnRNA](#)
- [This gene is a paralog of SMN1 gene which encodes the survival motor neuron protein mutations in which are cause of autosomal recessive proximal spinal muscular atrophy SMNDC1 is a nuclear protein](#)
- [BCAS2 belongs to the SPF27 family It is involved in mRNA splicing The protein might play an important role in breast cancer development by increasing the estrogen receptor s function](#)
- [CTAGE5 belongs to the cTAGE family It functions as tumor associated antigen This autoantigen found in several cancer types including benign meningioma and cutaneous T cell lymphoma CTCL](#)
- [CHERP is involved in calcium homeostasis growth and proliferation](#)
- [LGTN is a protein receptor that localizes phosphoglycoproteins within endosomes and at the cell periphery This trafficking receptor for phosphoglycoproteins may play a role in neuroplasticity by modu](#)
- [KRR1 belongs to the KRR1 family It contains 1 KH domain KRR1 is required for 40S ribosome biogenesis It is involved in nucleolar processing of pre 18S ribosomal RNA and ribosome assembly](#)
- [Sm like proteins were identified in a variety of organisms based on sequence homology with the Sm protein family see SNRPD2 MIM 601061 Sm like proteins contain the Sm sequence motif which consist](#)
- [SF3B3 is subunit 3 of the splicing factor 3b protein complex Splicing factor 3b together with splicing factor 3a and a 12S RNA unit forms the U2 small nuclear ribonucleoproteins complex U2 snRNP](#)
- [RCAN3 inhibits calcineurin dependent transcriptional responses by binding to the catalytic domain of calcineurin A It could play a role during central nervous system development](#)
- [The signal recognition particle SRP is a ribonucleoprotein complex that transports secreted and membrane proteins to the endoplasmic reticulum for processing The complex includes a 7S RNA and six p](#)
- [EXOSC2 belongs to the exosome a RNA processing complex which is at least involved in the 3 processing of the 7S pre rRNA to the mature 5 8S rRNA It exhibits a 3 5 exonuclease activity](#)
- [The hnRNPs are RNA binding proteins and they complex with heterogeneous nuclear RNA hnRNA These proteins are associated with pre mRNAs in the nucleus and appear to influence pre mRNA processing and](#)
- [TMEM63A is a multi pass membrane protein Potential It belongs to the SPO75 TMEM63 family The exact function of TMEM63A remains unknown](#)
- [The function of KIAA0427 remains unknown](#)
- [RBM34 belongs to the RRM RBM34 family It contains 2 RRM RNA recognition motif domains The function of the](#)



MOLECULAR PRODUCTS

ELISA, antibody, PCR, cell culture,
lentiviral cDNA clones

RBM34 protein remains unknown.

- CNOT6 is a subunit of the CCR4 NOT core transcriptional regulation complex CNOT6 has a 3.5 RNase activity and prefers polyadenylated substrates. The protein encoded by this gene is a subunit of the C
- RBM7 contains 1 RRM RNA recognition motif domain. It is possible involved in germ cell RNA processing and meiosis.
- Electron transport pathways are generally associated with mitochondrial membranes but non mitochondrial pathways are also biologically significant. Plasma membrane electron transport pathways are inv
- TMEM63B belongs to the SPO75 TMEM63 family. It is a multi-pass membrane protein. The function of TMEM63B remains unknown.
- ADARB2 is a member of the double-stranded RNA adenine deaminase family of RNA editing enzymes and may play a regulatory role in RNA editing. This gene encodes a member of the double-stranded RNA ade
- TNRC6A is a member of the trinucleotide repeat containing 6 protein family. The protein functions in post-transcriptional gene silencing through the RNA interference RNAi and microRNA pathways. The
- NXF3 is one member of a family of nuclear RNA export factors. Common domain features of this family are a noncanonical RNP type RNA binding domain RBD 4 leucine rich repeats LRRs a nuclear trans
- TIA1 is a member of a RNA binding protein family and possesses nucleolytic activity against cytotoxic lymphocyte CTL target cells. It has been suggested that this protein may be involved in the indu
- DGC8R contains 2 DRBM double-stranded RNA binding domains and 1 WW domain. It may play a part in the etiology of the velocardiofacial DiGeorge syndrome VCFS DGS a developmental disorder character
- PAPOLG is a member of the poly A polymerase family which catalyzes template-independent extension of the 3' end of a DNA RNA strand. This enzyme shares 60% identity to the well-characterized poly A
- NOL6 is a nucleolar RNA-associated protein that is highly conserved between species. RNase treatment of permeabilized cells indicates that the nucleolar localization is RNA dependent. Further studies
- RBM35B contains 3 RRM RNA recognition motif domains. ESRP1 and ESRP2 RBM35B are epithelial cell type-specific regulators of FGFR2 splicing.
- The exact function of CPEB4 remains unknown.
- The SR serine arginine-rich family contains a number of phosphoproteins that function as essential and alternative splicing factors. The SR family of proteins is characterized by the presence of a r
- POLDIP3 is a protein that interacts with the DNA polymerase delta p50 subunit. This protein is a specific target of S6 kinase 1 and regulates cell growth. This gene encodes a protein that interacts w
- BRUNOL6 is a RNA binding protein implicated in the regulation of pre-mRNA alternative splicing. It mediates exon inclusion and/or exclusion in pre-mRNAs that are subject to tissue-specific and develop
- UPF3B is part of a post-splicing multiprotein complex involved in both mRNA nuclear export and mRNA surveillance. The protein is one of two functional homologs to yeast Upf3p. This protein binds to th
- TTC14 belongs to the TTC14 family and contains 1 S1 motif domain and 4 TPR repeats. The functions of TTC14 remain unknown.
- Mammalian apolipoprotein B mRNA undergoes site-specific C to U deamination which is mediated by a multi-component enzyme complex containing a minimal core composed of APOBEC 1 and a complementation f
- MSI2 contains two conserved tandem RNA recognition motifs. Similar proteins in other species function as RNA binding proteins and play central roles in post-transcriptional gene regulation. This gene e
- This protein mediates protein binding.
- TPM3 is a member of the tropomyosin family of actin binding proteins involved in the contractile system of striated and smooth muscles and the cytoskeleton of non-muscle cells. Tropomyosins are dimers
- SF4 is a member of the SURP family of splicing factors. SF4 is a member of the SURP family of splicing factors.
- The specific function of C14orf21 is not yet known.
- RBPMS2 contains 1 RRM RNA recognition motif domain. The exact function of RBPMS2 remains unknown.
- NBEAL1 belongs to the WD repeat neurobeachin family. It contains 1 BEACH domain and 2 WD repeats. NBEAL1 is highly expressed in brain kidney prostate and testis and weakly expressed in ovary small
- NANOS1 contains 1 nanos type zinc finger and belongs to the nanos family. It may regulate translation of specific mRNAs by forming a complex with PUM2 that associates with the 3' untranslated regions
- The specific function of C6orf201 is not yet known.

- The specific function of SR140 is not yet known.
- WNT9B is a ligand for members of the frizzled family of seven transmembrane receptors. WNT9B is a probable developmental protein. WNT9B may be a signaling molecule which affects the development of ds
- FZD9 contains 1 FZ frizzled domain and belongs to the G protein-coupled receptor Fz Smo family. It is a receptor for Wnt proteins. Most of frizzled receptors are coupled to the beta-catenin canonical
- FZD10 is a member of the frizzled family. Members of this family are 7 transmembrane domain proteins that are receptors for the Wingless type MMTV integration site family of signaling proteins. Most f
- FZD4 is a member of the frizzled family. Members of this family are seven transmembrane domain proteins that are receptors for the Wingless type MMTV integration site family of signaling proteins. Mos
- WNT proteins are secreted signaling proteins. These proteins have been implicated in oncogenesis and in several developmental processes including regulation of cell fate and patterning during embryog
- RHOU is a member of the Rho family of GTPases. It can activate PAK1 and JNK1 and can induce filopodium formation and stress fiber dissolution. It may also mediate the effects of WNT1 signaling in the
- This protein is a member of the wingless type MMTV integration site WNT family of highly conserved secreted signaling factors. WNT family members function in a variety of developmental processes in
- MFRP is a member of the frizzled-related proteins. It may play a role in eye development as mutations in this gene have been associated with nanophthalmos posterior microphthalmia retinitis pigment
- WDR1 is a protein containing 9 WD repeats. WD repeats are approximately 30 to 40 amino acid domains containing several conserved residues, mostly including a trp asp at the C-terminal end. WD domains
- WDR4 is a member of the WD repeat protein family. WD repeats are minimally conserved regions of approximately 40 amino acids typically bracketed by gly his and trp asp. GH WD which may facilitate fo
- EFEMP1 gene spans approximately 18 kb of genomic DNA and consists of 12 exons. Alternative splice patterns in the 5' UTR result in three transcript variants encoding the same extracellular matrix prot
- ELAC1 belongs to the RNase Z family. It is a zinc phosphodiesterase which displays some tRNA 3' processing endonuclease activity. The protein is probably involved in tRNA maturation by removing a 3
- MSH5 is a member of the mutS family of proteins that are involved in DNA mismatch repair or meiotic recombination processes. This protein is similar to a Saccharomyces cerevisiae protein that participate
- Fructose 1,6-bisphosphate aldolase EC 4.1.2.13 is a tetrameric glycolytic enzyme that catalyzes the reversible conversion of fructose 1,6-bisphosphate to glyceraldehyde 3-phosphate and dihydroxyacet
- HSD11B2 catalyzes the conversion of cortisol to the inactive metabolite cortisone. It modulates intracellular glucocorticoid levels thus protecting the nonselective mineralocorticoid receptor from oc
- This histidine-rich glycoprotein HRG contains two cysteine-like domains and is located in plasma and platelets. The physiological function has not been determined but it is known that the protein bi
- CYP11A1 is a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol
- C4BPA is a member of a superfamily of proteins composed predominantly of tandemly arrayed short consensus repeats of approximately 60 amino acids. Along with a single unique beta chain seven identic
- HAQ2 is one of three related proteins that have 2 hydroxyacid oxidase activity yet differ in amino acid sequence tissue expression and substrate preference. Subcellular location of the protein is the
- KCM is a cytoplasmic enzyme involved in energy homeostasis and is an important serum marker for myocardial infarction. The encoded protein reversibly catalyzes the transfer of phosphate between ATP an
- MFAP4 is a protein with similarity to a bovine microfibril-associated protein. The protein has binding specificities for both collagen and carbohydrate. It is thought to be an extracellular matrix pro
- PDZK1 is a scaffold protein that connects plasma membrane proteins and regulatory components regulating their surface expression in epithelial cells. Apical domains it may be involved in the coordina
- CDH16 is a member of the cadherin superfamily which are calcium-dependent membrane-associated glycoproteins. CDH16 consists of an extracellular domain containing 6

cadherin domains a transmembrane

- SLC22A8 is involved in the sodium-independent transport and excretion of organic anions, some of which are potentially toxic. SLC22A8 is an integral membrane protein and appears to be localized to the
- POSTN binds to heparin. It induces cell attachment and spreading and plays a role in cell adhesion. POSTN may play a role in extracellular matrix mineralization.
- The exact function of C11orf54 remains unknown.
- LAMP3 might change the lysosome function after the transfer of peptide MHC class II molecules to the surface of dendritic cells. LAMP3 overexpression is associated with an enhanced metastatic potentia
- C1orf116 belongs to the SARG family. It is a putative androgen-specific receptor. It is highly expressed in prostate.
- Arylsulfatase E is a member of the sulfatase family. It is glycosylated posttranslationally and localized to the golgi apparatus. Sulfatases are essential for the correct composition of bone and cartil
- Component C2 is part of the classical pathway of complement system. Activated C1 cleaves C2 into C2a and C2b. C2a leads to activation of C3. Deficiency of C2 has been reported to be associated with certa
- FAH is the last enzyme in the tyrosine catabolism pathway. FAH deficiency is associated with Type 1 hereditary tyrosinemia. This gene encodes the last enzyme in the tyrosine catabolism pathway. FAH de
- STS catalyzes the conversion of sulfated steroid precursors to estrogens during pregnancy. The protein is found in the endoplasmic reticulum where it acts as a homodimer. Mutations in its gene are kn
- TGM1 is a membrane protein that catalyzes the addition of an alkyl group from an alkylamine to a glutamine residue of a protein forming an N-alkylglutamine in the protein. This protein alkylation leads
- KRT10 is a member of the type I acidic cyokeratin family which belongs to the superfamily of intermediate filament IF proteins. Keratins are heteropolymeric structural proteins which form the in
- Albumin is a soluble monomeric protein which comprises about one-half of the blood serum protein. Albumin functions primarily as a carrier protein for steroids fatty acids and thyroid hormones and
- EPX belongs to the peroxidase family XPO subfamily. Defects in EPX are the cause of eosinophil peroxidase deficiency. EPD.
- F10 is the vitamin K-dependent coagulation factor X of the blood coagulation cascade. This factor undergoes multiple processing steps before its preproprotein is converted to a mature two-chain form b
- Coagulation factor II is proteolytically cleaved to form thrombin in the first step of the coagulation cascade which ultimately results in the stemming of blood loss. F2 also plays a role in maintaini
- FGA is the alpha component of fibrinogen, a blood-borne glycoprotein comprised of three pairs of non-identical polypeptide chains. Following vascular injury, fibrinogen is cleaved by thrombin to form f
- ADH1A is class I alcohol dehydrogenase alpha subunit which is a member of the alcohol dehydrogenase family. Members of this enzyme family metabolize a wide variety of substrates including ethanol.
- ADH1B is a member of the alcohol dehydrogenase family. Members of this enzyme family metabolize a wide variety of substrates including ethanol retinol other aliphatic alcohols hydroxysteroids and
- CYP4B1 is a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol
- 3 beta HSD is a bifunctional enzyme that catalyzes the oxidative conversion of Delta 5-ene 3 beta hydroxy steroid and the oxidative conversion of ketosteroids. The 3 beta HSD enzymatic system play
- LSS catalyzes the conversion of S 2,3-oxidosqualene to lanosterol. It is a member of the terpene cyclase mutase family and catalyzes the first step in the biosynthesis of cholesterol steroid hormon
- This gene is a member of the MAGEA gene family. The members of this family encode proteins with 50 to 80% sequence identity to each other. The promoters and first exons of the MAGEA genes show conside
- The SLC6A2 gene encodes a norepinephrine/noradrenaline transporter which is responsible for reuptake of norepinephrine into presynaptic nerve terminals and is a regulator of norepinephrine homeosta
- The UGTs are of major importance in the conjugation and subsequent elimination of potentially toxic xenobiotics and endogenous compounds. UGT2B8 demonstrates reactivity with estril. The UGTs are of m
- CD40 is the receptor for TNFSF5. CD40LG. Defects in CD40 are the cause of hyper IgM immunodeficiency type 3



MOLECULAR PRODUCTS

ELISA, antibody , PCR, cell culture,
lentiviral cDNA clones

HIGM3 The protein encoded by this gene is a member of the TNF receptor superfamily. This re

- CRMP1 is a member of a family of cytosolic phosphoproteins expressed exclusively in the nervous system. The protein is thought to be a part of the semaphorin signal transduction pathway implicated in
- CSHL1 is a member of the somatotropin prolactin family of hormones which play an important role in growth control. This particular family member is expressed in placental villi although it was origin
- DHODH catalyzes the fourth enzymatic step the ubiquinone mediated oxidation of dihydroorotate to orotate in de novo pyrimidine biosynthesis. It is a mitochondrial protein located on the outer surface
- IFIT2 belongs to the IFIT family. It contains 6 TPR repeats. IFIT2 inhibits migration activity and increases survival of oral squamous cell carcinoma
- F13B contains 10 Sushi/CCP/SCR domains. The B chain of factor XIII is not catalytically active but is thought to stabilize the A subunits and regulate the rate of transglutaminase formation by thro
- GNAZ3 is a member of a G protein subfamily that mediates signal transduction in pertussis toxin insensitive systems. This protein may play a role in maintaining the ionic balance of perilymphatic and en
- LAIR2 is a member of the immunoglobulin superfamily. It was identified by its similarity to LAIR1, an inhibitory receptor present on mononuclear leukocytes. This gene maps to a region of 19q13.4 term
- STC1 is a secreted homodimeric glycoprotein that is expressed in a wide variety of tissues and may have autocrine or paracrine functions. It contains 11 conserved cysteine residues and is phosphoryla
- TNNT1 is a protein that is a subunit of troponin which is a regulatory complex located on the thin filament of the sarcomere. This complex regulates striated muscle contraction in response to fluctua
- UPP1 catalyzes the reversible phosphorylytic cleavage of uridine and deoxyuridine to uracil and ribose or deoxyribose 1 phosphate. The produced molecules are then utilized as carbon and energy source
- RDH16 is an oxidoreductase with a preference for NAD. It oxidizes all trans retinol and 13 cis retinol to the corresponding aldehydes. RDH16 has higher activity towards CRBP bound retinol than with fr
- R1OK3 was identified by the similarity to the Aspergillus nidulans SUD1 protein, an extragenic suppressor of the heat sensitive bimD6 mutation that fails to attach properly to the spindle microtubules
- CA8 was initially named CA related protein because of sequence similarity to other known carbonic anhydrase genes. However CA8 lacks carbonic anhydrase activity i.e. the reversible hydration of car
- The function of MYBPC2 remains unknown
- Angiotensin II is a potent vasopressor hormone and a primary regulator of aldosterone secretion. It is an important effector controlling blood pressure and volume in the cardiovascular system. It acts
- GPD1 belongs to the NAD dependent glycerol 3 phosphate dehydrogenase family. The gene encoding Gpd1 protein is a weight loss responsive gene in skeletal muscle. Its observed transcriptional modulation
- GPD1L belongs to the NAD dependent glycerol 3 phosphate dehydrogenase family. Defects in GPD1L are the cause of Brugada syndrome type 2, BRS2, and sudden infant death syndrome, SIDS
- GPR6 belongs to the G protein coupled receptor 1 family. It is a receptor for the lysosphingolipid sphingosine 1 phosphate, S1P. S1P is a bioactive lysophospholipid that elicits diverse physiological
- KRT16 is a member of the keratin gene family. The keratins are intermediate filament proteins responsible for the structural integrity of epithelial cells and are subdivided into cytokeratins and hair
- Hep27, a cell cycle regulated protein, belongs to the SDR family short chain dehydrogenase reductase family. Hep27 is a NADPH dependent dicarbonyl reductase enzyme active on xenobiotics
- CALCR1 is the receptor for calcitonin gene related peptide CGRP together with RAMP1 and receptor for adrenomedullin together with RAMP2 or RAMP3. The activity of this receptor is mediated by G prote
- An antibody that reacts with ovarian cancers and mesotheliomas was used to isolate a cell surface antigen named mesothelin. Although the function of mesothelin is unknown it may play a role in cellu
- MAK is a serine/threonine protein kinase related to kinases involved in cell cycle regulation. It is expressed almost exclusively in the testis, primarily in germ cells. Studies of the mouse and rat h
- MYH10 is the cellular myosin that appears to play a role in cytokinesis, cell shape, and specialized functions such as

secretion and capping.

- KRT1 is a member of the keratin gene family. The type II cytokeratins consist of basic or neutral proteins which are arranged in pairs of heterotypic keratin chains coexpressed during differentiation
- Acyl CoA thioesterases such as ACOT2 are a group of enzymes that hydrolyze CoA esters such as acyl CoAs bile CoAs and CoA esters of prostaglandins to the corresponding free acid and CoA Acyl CoA
- SCGN is a secreted calcium binding protein which is found in the cytoplasm. It is related to calbindin D 28K and calretinin. This protein is thought to be involved in KCl stimulated calcium flux and c
- VPRED1 belongs to the immunoglobulin superfamily and is expressed selectively at the early stages of B cell development, namely in proB and early preB cells. This gene encodes the Iota polypeptide ch
- Upon ligand binding G protein coupled receptors such as GPR161 activate cytoplasmic G proteins. See GNAS MIM 139320 allowing the receptors to transduce extracellular signals across the plasma me
- 3 Hydroxyanthranilate 3,4 dioxygenase is a monomeric cytosolic protein belonging to the family of intramolecular dioxygenases containing nonheme ferrous iron. It is widely distributed in peripheral or
- The multisubunit vacuolar type proton pump H ATPase or V ATPase is essential for acidification of diverse cellular components including endosomes, lysosomes, clathrin coated vesicles, secretory
- Tachykinins are active peptides which excite neurons. Evoke behavioral responses, are potent vasodilators and secretagogues, and contract directly or indirectly many smooth muscles
- FADS1 is a member of the fatty acid desaturase FADS family. Desaturase enzymes regulate unsaturation of fatty acids through the introduction of double bonds between defined carbons of the fatty acyl
- CLEC4M is a transmembrane receptor and is often referred to as L SIGN because of its expression in the endothelial cells of the lymph nodes and liver. It is involved in the innate immune system and re
- EIF2AK1 acts at the level of translation initiation to downregulate protein synthesis in response to stress. The protein is a kinase that can be inactivated by hemin. Two transcript variants encoding
- Ras homolog or Rho proteins interact with protein kinases and may serve as targets for activated GTPase. They play a critical role in muscle differentiation. RHOD binds GTP and is a member of the sm
- TMCC2 is a multi pass membrane protein. It belongs to the TEX28 family. The function of TMCC2 remains unknown
- ABHD5 belongs to a large family of proteins defined by an alpha beta hydrolase fold and contains three sequence motifs that correspond to a catalytic triad found in the esterase lipase thioesterase s
- TPPP3 belongs to the TPPP family. This protein differentially expressed in the dorsolateral prefrontal cortex from patients with schizophrenia. The function of TPPP3 remains unknown
- GTSE1 is only expressed in the S and G2 phases of the cell cycle where it colocalizes with cytoplasmic tubulin and microtubules. In response to DNA damage the encoded protein accumulates in the nucl
- FERMT1 is involved in cell adhesion possibly via its interaction with integrins. It may mediate TGF beta 1 signaling in tumor progression. Defects in FERMT1 are the cause of Kindler syndrome
- TMEM16A belongs to the anoctamin family. TMEM16A acts as a calcium activated chloride channel. It is required for normal tracheal development
- The function of the QRS1.1 protein remains unknown
- DOK5 is a member of the DOK family of membrane proteins which are adapter proteins involved in signal transduction. It interacts with phosphorylated receptor tyrosine kinases to mediate neurite outgr
- GSDML belongs to the gasdermin family. GSDML may play a role as secretory or metabolic product involved in secretory pathway. It may also play a role in achieving and maintaining the final differentiat
- ERMAP is a cell surface transmembrane protein that may act as an erythroid cell receptor possibly as a mediator of cell adhesion. Polymorphisms in the gene encoding ERMAP protein are responsible for
- TBC1D16 may act as a GTPase activating protein for Rab family proteins
- GTP binding proteins or G proteins constitute a superfamily capable of binding GTP or GDP. G proteins are activated by binding GTP and are inactivated by hydrolyzing GTP to GDP. This general mechan
- The Rh blood group system is the second most clinically significant of the blood groups, second only to ABO. It is also the most polymorphic of the blood groups with variations due

to deletions gene

- PLEKHA4 contains 1 PH domain. It binds specifically to phosphatidylinositol 3 phosphate, PtdIns3P, but not to other phosphoinositides
- ART4 is a protein that contains a mono ADP ribosylation ART motif. It is a member of the ADP ribosyltransferase gene family but enzymatic activity has not been demonstrated experimentally. Antigen
- DNASE2B shares considerable sequence similarity to and is structurally related to DNase II. The latter is a well characterized endonuclease that catalyzes DNA hydrolysis in the absence of divalent ca
- CHIA belongs to the glycosyl hydrolase 18 family. Chitinase class II subfamily. It contains 1 chitin binding type 2 domain. The protein degrades chitin and chitotriose. And it may participate in the d
- RAB38 may be involved in melanosomal transport and docking. Involved in the proper sorting of TYRP1
- CHAC1 belongs to the chaC family. The exact function of CHAC1 remains unknown
- ZDHHC14 belongs to the DHHC palmitoyltransferase family. ERF2 ZDHHC9 subfamily. It contains 1 DHHC type zinc finger. It is a multi pass membrane protein. The function of ZDHHC14 remains unknown
- ELMO3 is similar to a C elegans protein that functions in phagocytosis of apoptotic cells and in cell migration. Other members of this small family of engulfment and cell motility ELMO proteins hav
- The exact function of C6orf134 remains unknown
- WDR23 contains 7 WD repeats. The function of WDR23 remains unknown. This gene encodes a WD repeat containing protein. Multiple alternatively spliced transcript variants have been found for this gene b
- ASCC2 belongs to the ASCC2 family. It contains 1 CUE domain. ASCC2 enhances NF kappa B SRF and AP1 transactivation
- SYDE1 contains 1 Rho GAP domain. It is a GTPase activator for the Rho type GTPases by converting them to an inactive GDP bound state
- Autophagy is the process by which endogenous proteins and damaged organelles are destroyed intracellularly. Autophagy is postulated to be essential for cell homeostasis and cell remodeling during dif
- Mutations in GNAS gene result in pseudohypoparathyroidism type 1a pseudohypoparathyroidism type 1b Albright hereditary osteodystrophy pseudopseudohypoparathyroidism McCune Albright syndrome progr
- YIPF6 is a multi pass membrane protein. Potential. It belongs to the YIP1 family. The exact function of YIPF6 remains unknown
- PPP4R2 is the regulatory subunit of serine/threonine protein phosphatase 4, PP4. It may regulate the activity of PPP4C at centrosomal microtubule organizing centers. Its interaction with the SMN comp
- SYMPK is a nuclear protein that functions in the regulation of polyadenylation and promotes gene expression. The protein forms a high molecular weight complex with components of the polyadenylation ma
- LIN7C plays a role in establishing and maintaining the asymmetric distribution of channels and receptors at the plasma membrane of polarized cells. It forms membrane associated multiprotein complexes
- Members of the peripheral membrane associated guanylate kinase MAGUK family function in tumor suppression and receptor clustering by forming multiprotein complexes containing distinct sets of transm
- This gene is a member of the PAR6 family and encodes a protein with a PSD95 Discs large ZO1 PDZ domain, an OPR domain, and a semi Cdc42 Rac interactive binding CRIB domain. This cytoplasmic protein
- Small G proteins such as GTPBP10 act as molecular switches that play crucial roles in the regulation of fundamental cellular processes such as protein synthesis, nuclear transport, membrane traffic
- TJAP1 interacts with DLG1. The exact function of TJAP1 remains unknown
- AMOTL1 is a peripheral membrane protein that is a component of tight junctions, or TJs. TJs form an apical junctional structure and act to control paracellular permeability and maintain cell polarity
- INADL is a protein with multiple PDZ domains. PDZ domains mediate protein-protein interactions and proteins with multiple PDZ domains often organize multimeric complexes at the plasma membrane. This
- Tight junction proteins, TJPs, belong to a family of membrane associated guanylate kinase MAGUK homologs that are involved in the organization of epithelial and endothelial intercellular junctions
- The specific function of TRIM67 is not yet known
- MARCH2 is an E3 ubiquitin protein ligase that may mediate ubiquitination of TFRC and CD86 and promote their



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[subsequent endocytosis and sorting to lysosomes via multivesicular bodies E3 ubiquitin lig](#)

- [The function of TSPAN17 remains unknown.](#)
- [TRIM72 belongs to the TRIM RBCC family It contains 1 B box type zinc finger and 1 B30 2 SPRY domain and 1 RING type zinc finger The function of TRIM72 remains unknown.](#)
- [RFPL4B contains 1 B30 2 SPRY domain and 1 RING type zinc finger The function of RFPL4B remains unknown.](#)
- [PEX10 is a protein involved in import of peroxisomal matrix proteins This protein localizes to the peroxisomal membrane Mutations in PEX10 gene result in phenotypes within the Zellweger spectrum of](#)
- [The modification of proteins with ubiquitin is an important cellular mechanism for targeting abnormal or short lived proteins for degradation Ubiquitination involves at least three classes of enzymes](#)
- [RNF6 contains a RING H2 finger motif Deletions and mutations in this gene were detected in esophageal squamous cell carcinoma ESCC suggesting that this protein may be a potential tumor suppressor.](#)
- [WWP2 is a member of the NEDD4 like protein family The family of proteins is known to possess ubiquitin protein ligase activity WWP2 contains 4 tandem WW domains The WW domain is a protein motif con](#)
- [RNF139 is a multi membrane spanning protein containing a RING H2 finger This protein is located in the endoplasmic reticulum and has been shown to possess ubiquitin ligase activity This gene was fo](#)
- [FBX12 is a member of the F box protein family which is characterized by an approximately 40 amino acid motif the F box The F box proteins constitute one of the four subunits of ubiquitin protein lig](#)
- [F box proteins are an expanding family of eukaryotic proteins characterized by an approximately 40 amino acid motif the F box Some F box proteins have been shown to be critical for the ubiquitin med](#)
- [FBXO24 is a member of the F box protein family which is characterized by an approximately 40 amino acid motif the F box The F box proteins constitute one of the four subunits of the ubiquitin protei](#)
- [FBXO25 is a member of the F box protein family which is characterized by an approximately 40 amino acid motif the F box The F box proteins constitute one of the four subunits of ubiquitin protein li](#)
- [FBXO4 is a member of the F box protein family which is characterized by an approximately 40 amino acid motif the F box The F box proteins constitute one of the four subunits of the ubiquitin protein](#)
- [FBXO7 is a member of the F box protein family which is characterized by an approximately 40 amino acid motif the F box The F box proteins constitute one of the four subunits of the ubiquitin protein](#)
- [FBXW11 is a member of the F box protein family which is characterized by an approximately 40 amino acid motif the F box The F box proteins constitute one of the four subunits of ubiquitin protein li](#)
- [Members of the makorin family including MKRN2 have a characteristic zinc finger composition that suggests that they are ribonucleoproteins Members of the makorin family including MKRN2 have a char](#)
- [ZNF364 contains 1 RING type zinc finger The exact function of ZNF364 remains unknown.](#)
- [UBE2S is a member of the ubiquitin conjugating enzyme family It is able to form a thiol ester linkage with ubiquitin in a ubiquitin activating enzyme dependent manner a characteristic property of ub](#)
- [FBXO21 contains 1 F box domain It is a substrate recognition component of the SCF SKP1 CUL1 F box protein type E3 ubiquitin ligase complex This gene encodes a member of the F box protein family whi](#)
- [Mahogunin MGRN1 is a C3HC4 RING containing protein with E3 ubiquitin ligase activity in vitro Mahogunin MGRN1 is a C3HC4 RING containing protein with E3 ubiquitin ligase activity in vitro.](#)
- [RNF19A contains two RING finger motifs and an IBR in between RING fingers motif This protein is an E3 ubiquitin ligase that is localized in Lewy bodies LBs a characteristic neuronal inclusion.i](#)
- [HERC5 is a member of the HERC family of ubiquitin ligases It contains a HECT domain and five RCC1 repeats Pro inflammatory cytokines upregulates expression of HERC5 protein in endothelial cells The](#)
- [RNF43 is a HAP95 AKAP8L binding ubiquitin ligase that promotes cell growth and is upregulated in colon cancer.](#)
- [MARCH5 is an ubiquitin ligase of the mitochondrial outer membrane that plays a role in the control of mitochondrial morphology by regulating mitofusin 2 MFN2 and DRP1 DNMI1L MARCH5 is a ubiquitin.l](#)
- [The specific function of RNF126 is not yet known The protein encoded by this gene contains a RING finger domain a motif present in a variety of functionally distinct proteins and known to be involved](#)

- [MARCH1 is an E3 ubiquitin protein ligase that may mediate ubiquitination of TFRC CD86 and FAS and promote their subsequent endocytosis and sorting to lysosomes via multivesicular bodies E3 ubiquit](#)
- [PWP2 contains a RING finger a motif present in a variety of functionally distinct proteins and known to be involved in protein DNA and protein protein interactions The protein encoded by this gene co](#)
- [MSL2L1 is the component of histone acetyltransferase complex responsible for the majority of histone H4 acetylation at lysine 16 which is implicated in the formation of higher order chromatin structur](#)
- [CHFR is an E3 ubiquitin protein ligase required to transiently arrest cells in early prophase when they are exposed to microtubule poisons It acts in early prophase before chromosome condensation wh](#)
- [The specific function of RNF186 is not yet known.](#)
- [RNF20 shares similarity with BRE1 of S cerevisiae Yeast BRE1 is an ubiquitin ligase required for the ubiquitination of histone H2B and the methylation of histone H3 The protein encoded by this gene](#)
- [TRIM49 contains a RING zinc finger a motif known to be involved in protein protein interactions This protein has been found to be preferentially expressed in testis The protein encoded by this gene](#)
- [HACE1 contains 6 ANK repeats and 1 HECT E6AP type E3 ubiquitin protein ligase domain HACE1 is an E3 ubiquitin protein ligase that may function in cellular proteins degradation](#)
- [MARCH4 is an E3 ubiquitin protein ligase that may mediate ubiquitination of MHC I and CD4 and promote their subsequent endocytosis and sorting to lysosomes via multivesicular bodies E3 ubiquitin lig](#)
- [MARCH7 is an E3 ubiquitin protein ligase which may specifically enhance the E2 activity of HIP2 E3 ubiquitin ligases accept ubiquitin from an E2 ubiquitin conjugating enzyme in the form of a thioester](#)
- [The function of C1orf166 remains unknown.](#)
- [The function of C13orf7 remains unknown.](#)
- [LONRF3 contains a RING finger domain a motif present in a variety of functionally distinct proteins and known to be involved in protein protein and protein DNA interactions Multiple alternatively sp](#)
- [TRIM45 is a member of the tripartite motif family It may function as a transcriptional repressor of the mitogen activated protein kinase pathway Alternatively spliced transcript variants have been d](#)
- [RNF170 is a multi pass membrane protein Potential It contains 1 RING type zinc finger The exact function of RNF170 remains unknown.](#)
- [TRIM55 contains a RING zinc finger a motif known to be involved in protein protein interactions This protein associates transiently with microtubules myosin and titin during muscle sarcomere assem](#)
- [RSPRY1 contains 1 B30 2 SPRY domain and 1 RING type zinc finger The exact function of RSPRY1 remains unknown.](#)
- [TRIM43 belongs to the TRIM RBCC family It contains 1 B box type zinc finger 1 B30 2 SPRY domain and 1 RING type zinc finger The exact function of TRIM43 remains unknown](#)
- [RNF133 contains a RING finger domain a motif present in a variety of functionally distinct proteins and known to be involved in protein protein and protein DNA interactions The protein encoded by thi](#)
- [RNF185 is a multi pass membrane protein It contains 1 RING type zinc finger The exact function of RNF185 remains unknown.](#)



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