Help and Manual



Functional Annotation Table

Current Gene List: List_1 **Current Background: Homo sapiens** 32 DAVID IDs

32 record(s) March Download File ATP2B1 Homo sapiens <u>ATPase plasma membrane Ca2+ transporting 1(ATP2B1)</u> **Related Genes** GOTERM_BP_DIRECT negative regulation of cytokine production, regulation of vascular smooth muscle contraction, regulation of blood pressure, positive regulation of bone mineralization, ion transmembrane transport, regulation of cytosolic calcium ion concentration, negative regulation of cytosolic calcium ion concentration, positive regulation of calcium ion transport, transmembrane transport, regulation of cellular response to insulin stimulus, regulation of cardiac conduction, calcium ion export from cell, GOTERM_CC_DIRECT immunological synapse, nucleoplasm, plasma membrane, membrane, basolateral plasma membrane, synaptic vesicle membrane, presynaptic membrane, cell projection, intracellular membrane-bounded organelle, extracellular exosome, photoreceptor ribbon synapse, glutamatergic synapse, calcium-transporting ATPase activity, protein binding, calmodulin binding, ATP binding, calcium ion transmembrane transporter activity, GOTERM_MF_DIRECT ATPase activity, PDZ domain binding, metal ion binding **INTERPRO** P typ ATPase, ATPase P-typ cation-transptr N, ATPase P-typ cation-transptr C, P-type ATPase IIB, ATPase P-typ transduc dom A sf, ATPase P-typ P site, ATP Ca trans C, HAD sf, ATPase P-typ TM dom sf, ATPase P-typ cyto dom N, HAD-like sf, P typ ATPase HD dom, **KEGG_PATHWAY** Calcium signaling pathway, cGMP-PKG signaling pathway, cAMP signaling pathway, Adrenergic signaling in cardiomyocytes, Aldosterone synthesis and secretion, Endocrine and other factor-regulated calcium reabsorption, Salivary secretion, Pancreatic secretion, Mineral OMIM DISEASE Intellectual developmental disorder, autosomal dominant 66, SMART Cation ATPase N, UP_KW_BIOLOGICAL_PROCESS Calcium transport, Ion transport, Transport, UP_KW_CELLULAR_COMPONENT Membrane, Synapse, Cell projection, Cytoplasmic vesicle, Cell membrane UP_KW_DISEASE Disease variant, Intellectual disability UP_KW_DOMAIN <u>Transmembrane</u>, <u>Transmembrane helix</u>, UP_KW_LIGAND ATP-binding, Calcium, Magnesium, Metal-binding, Nucleotide-binding, UP_KW_MOLECULAR_FUNCTION Calmodulin-binding, Translocase, UP_KW_PTM Acetylation, Phosphoprotein, UP_SEQ_FEATURE ACT_SITE:4-aspartylphosphate intermediate, COMPBIAS:Basic and acidic residues, COMPBIAS:Polar residues, DOMAIN:Cation-transporting P-type ATPase C-terminal, DOMAIN: Cation-transporting P-type ATPase N-terminal, DOMAIN: Plasma membrane calcium transporting P-type ATPase C-terminal, REGION:Calmodulin-binding subdomain A, REGION:Disordered, REGION:Required for basolateral membrane targeting, TOPO_DOM:Cytoplasmic, TOPO_DOM:Extracellular, TRANSMEM:Helical, CTR9 homolog, Paf1/RNA polymerase II complex component(CTR9) GOTERM_BP_DIRECT negative regulation of transcription from RNA polymerase II promoter, endodermal cell fate commitment, inner cell mass cell differentiation, trophectodermal cell differentiation, blastocyst growth, blastocyst hatching, regulation of transcription, DNA-templated, transcription elongation from RNA polymerase II promoter, JAK-STAT cascade, Wnt signaling pathway, stem cell population maintenance, negative regulation of myeloid cell differentiation, negative regulation of gene expression, epigenetic, positive regulation of transcription from RNA polymerase II promoter, interleukin-6-mediated signaling pathway, cellular response to lipopolysaccharide, GOTERM_CC_DIRECT euchromatin, nucleoplasm, Cdc73/Paf1 complex, nuclear speck, macromolecular complex, intracellular membrane-bounded organelle, GOTERM_MF_DIRECT RNA polymerase II core binding, protein binding, SH2 domain binding **INTERPRO** TPR-like helical dom sf, TPR repeat, Ctr9, UP_KW_BIOLOGICAL_PROCESS Transcription, Transcription regulation, Wnt signaling pathway, UP_KW_CELLULAR_COMPONENT UP_KW_DOMAIN Coiled coil, Repeat, TPR repeat, UP KW PTM COMPBIAS:Basic and acidic residues, COMPBIAS:Polar residues, REGION:Disordered, REPEAT:TPR, REPEAT:TPR 1, REPEAT:TPR 10, REPEAT:TPR 11, REPEAT:TPR 12, REPEAT:TPR 13, REPEAT:TPR 14, REPEAT:TPR 15, REPEAT:TPR 16, REPEAT:TPR 2, REPEAT:TPR 3, UP SEQ FEATURE REPEAT:TPR 4, REPEAT:TPR 5, REPEAT:TPR 6, REPEAT:TPR 7, REPEAT:TPR 8, REPEAT:TPR 9, DHX9 **Related Genes** GOTERM BP DIRECT alternative mRNA splicing, via spliceosome, osteoblast differentiation, DNA replication, DNA-templated transcription, termination, regulation of transcription from RNA polymerase II promoter, inflammatory response, RNA secondary structure unwinding, DNA duplex unwinding, positive regulation of interferon-alpha production, positive regulation of interferon-beta production, positive regulation of interferon-beta production, positive regulation of interferon-beta production. production, positive regulation of interleukin-6 production, positive regulation of tumor necrosis factor production, gene silencing by miRNA, DNA-templated viral transcription, G-quadruplex DNA unwinding, innate immune response, positive regulation of innate immune response, positive regulation of DNA repair, positive regulation of DNA replication, positive regulation of transcription from RNA polymerase II promoter, positive regulation of RNA export from nucleus, positive regulation of fibroblast proliferation, rhythmic process, positive regulation of viral transcription, regulation of mRNA processing, regulation of defense response to virus by host, positive regulation of inflammatory response, mRNA transport, positive regulation of NF-kappaB transcription factor activity, positive regulation of response to cytokine stimulus, macromolecular complex assembly, pyroptosis, small RNA loading onto RISC, CRD-mediated mRNA stabilization, cellular response to tumor necrosis factor, cellular response to exogenous dsRNA, negative regulation of nuclear-transcribed mRNA catabolic process, deadenylation-dependent decay, protein localization to cytoplasmic stress granule, positive regulation of viral translation, positive regulation of polysome binding, positive regulation of DNA topoisomerase (ATP-hydrolyzing) activity, regulation of cytoplasmic translation, positive regulation of GOTERM CC DIRECT intracellular, nucleus, nucleoplasm, perichromatin fibrils, nucleolus, cytoplasm, centrosome, cytosol, polysome, actin cytoskeleton, membrane, RISC complex, nuclear body, macromolecular complex, cytoplasmic ribonucleoprotein granule, polysomal ribosome, RISC-loading complex, CRD-mediated mRNA stability complex, nuclear stress granule, ribonucleoprotein complex, RNA polymerase II core promoter proximal region sequence-specific DNA binding, RNA polymerase II core binding, regulatory region RNA binding, DNA binding, DNA belicase activity, DNA replication origin binding, double-stranded DNA binding, single-stranded DNA binding, GOTERM_MF_DIRECT transcription cofactor activity, transcription coactivator activity, RNA binding, RNA helicase activity, double-stranded RNA binding, single stranded RNA binding, mRNA binding, helicase activity, protein binding, ATP binding, hydrolase activity, ATPase activity, nucleoside triphosphatase activity, chromatin DNA binding, 3'-5' DNA/RNA helicase activity, 3'-5' RNA helicase activity, siRNA binding, RNA stem-loop binding, ribosome binding, 3'-5' DNA helicase activity, triplex DNA binding, metal ion binding, nucleoside-triphosphate diphosphatase activity, RNA polymerase II sequence-specific DNA binding transcription factor binding, importin-alpha family protein binding, RNA polymerase binding, RISC complex binding, polysome binding, single-stranded DNA-dependent ATP-dependent 3'-5' DNA helicase activity, sequencespecific mRNA binding, promoter-specific chromatin binding Helicase C, DNA/RNA helicase DEAH CS, Helicase-assoc dom, DEAD/DEAH box helicase dom, DEAD-box helicase OB fold, Helicase ATP-bd, dsrBD dom, P-loop NTPase, DHX9 DSRM 1, DHX9 DSRM 2, DHX9 DEXHC, HA2 WH, INTERPRO **SMART** DSRM, DEXDc, HELICc, HA2, UP KW BIOLOGICAL PROCESS Biological rhythms, DNA replication, Immunity, Inflammatory response, Innate immunity, mRNA processing, mRNA splicing, mRNA transport, Transcription, Transcription regulation, Transcription termination, Translation regulation, Transport, RNA-mediated gene silencing, Host-virus interaction, UP_KW_CELLULAR_COMPONENT Cytoskeleton, Nucleus, Cytoplasm, UP_KW_DOMAIN Repeat, UP_KW_LIGAND ATP-binding, Manganese, Metal-binding, Nucleotide-binding, UP_KW_MOLECULAR_FUNCTION Activator, DNA-binding, Helicase, Hydrolase, RNA-binding, UP_KW_PTM Acetylation, Methylation, Phosphoprotein, Ubl conjugation, Isopeptide bond,

P_SEQ_FEATURE	' 	
, _ora_i ruionr	CROSSLNK:Glycyl lysine isopeptide (Lys-Gly) (interchain with G-Cter in SUMO2), DOMAIN:DRBM, DOMAIN:DRBM 1, DOMAIN:DRBM 2,	
	DOMAIN:Helicase ATP-binding, DOMAIN:Helicase C-terminal, DOMAIN:Helicase-associated, MOTIF:DEIH box, MOTIF:Nuclear localization	
	signal (NLS1), MOTIF: Nuclear localization signal (NLS2), MUTAGEN: D->A: Does not inhibit binding to origins of DNA replication; when	
	associated with A-512., MUTAGEN:E->A: Does not inhibit binding to origins of DNA replication; when associated with A-511., MUTAGEN:F->A: Reduces siRNA-binding and interaction with AGO2., MUTAGEN:F->A: Reduces NUP98-induced mRNA transcription and alternative splings are splings.	
	activities., MUTAGEN:K->A: Inhibits siRNA-binding and decreases interaction with AGO2; when associated with A-53 and A-54., MUTAGEN	
	>A: Inhibits siRNA-binding and decreases interaction with AGO2; when associated with A-53 and A-55., MUTAGEN:K->A: Inhibits siRNA-	
	binding and interaction with AGO2; when associated with A-234 and A-235., MUTAGEN:K->A: Inhibits siRNA-binding and interaction with	
	AGO2; when associated with A-234 and A-236., MUTAGEN:K->A: Localizes in the cytoplasm and does not interact with the importin	
	complex., MUTAGEN:K->A: Reduces siRNA-binding and interaction with AGO2., MUTAGEN:K->A: Reduces siRNA-binding and interaction v	
	AGO2; when associated with A-6., MUTAGEN:K->R,N: Inhibits interaction with AGO2, DICER1 and TARBP2. Abrogates helicase activity an	
	transcriptional activation. Does not inhibit binding to origins of DNA replication., MUTAGEN:K->R: Reduces NUP98-induced mRNA transcription and alternative splicing activities. MUTAGEN:Missing: Abolishes nuclear localization. MUTAGEN:N->A: Does not reduce siRN	
	transcription and alternative splicing activities., MUTAGEN: Missing: Abolishes nuclear localization., MUTAGEN:N->A: Does not reduce siRN binding and interaction with AGO2, MUTAGEN:N->A: Inhibits siRNA-binding and decreases interaction with AGO2; when associated with	
	54 and A-55., MUTAGEN:N->A: Inhibits siRNA-binding and interaction with AGO2; when associated with A-235 and A-236., MUTAGEN:N-	
	Reduces siRNA-binding and interaction with AGO2; when associated with A-187., MUTAGEN:N->A: Reduces siRNA-binding; when associated with A-187., MUTAGEN:N-A: Reduces siRNA-binding; when associated with A-187.	
	with A-5., MUTAGEN:Q->A: Reduces siRNA-binding and interaction with AGO2; when associated with A-186., MUTAGEN:R->A: Localizes i	
	the nucleus and interacts with the importin complex., MUTAGEN:R->A: Localizes in the nucleus and the cytoplasm and interacts weakly w	
	the importin complex., MUTAGEN:R->L: Abolishes nuclear localization., MUTAGEN:S->L: Does not inhibit binding to origins of DNA	
	replication., MUTAGEN: W->A: Abrogates transcriptional activation and RNA polymerase II binding by the MTAD region. No change in ATP	
	binding and ATPase activities., MUTAGEN: W->A: Abrogates transcriptional activation by the MTAD region. No change in RNA polymerase	
	holoenzyme binding., MUTAGEN:Y->A: Inhibits siRNA-binding and interaction with AGO2., REGION:Core helicase, REGION:Disordered,	
	REGION:HA2, REGION:Interaction with BRCA1, REGION:Interaction with CREBBP, REGION:MTAD, REGION:Necessary for interaction with	
	H2AX, REGION: Necessary for interaction with RNA polymerase II holoenzyme, REGION: OB-fold, REGION: RGG, REGION: siRNA-binding,	
MD5	FERM domain containing 5(FRMD5) Related Genes Homo sapiens	
TERM_BP_DIRECT	regulation of cell migration, actomyosin structure organization, positive regulation of cell adhesion, negative regulation of cell motility,	
TERM_CC_DIRECT	cytoskeleton, adherens junction, membrane,	
TERM_MF_DIRECT	integrin binding, protein binding, cytoskeletal protein binding, protein kinase binding,	
TERPRO	FERM domain, Ez/rad/moesin-like, PH-like dom sf, FERM/acyl-CoA-bd prot sf, FA, FERM N, FERM PH-like C, FERM CS, FERM central,	
	Band 41 domain, Ubiquitin-like domsf, FERM 2,	
IIM_DISEASE	Neurodevelopmental disorder with eye movement abnormalities and ataxia,	
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ART	B41, FA, FERM C,	
KW_CELLULAR_COMPONENT	Membrane, Cell junction,	
_KW_DISEASE	Disease variant, Intellectual disability,	
_KW_DOMAIN	<u>Transmembrane</u> , <u>Transmembrane helix</u> ,	
_KW_PTM	Phosphoprotein,	
P_SEQ_FEATURE	COMPBIAS: Polar residues, DOMAIN: FERM, DOMAIN: FERM C-terminal PH-like, DOMAIN: FERM adjacent, REGION: Disordered,	
	REGION:Interaction with ROCK1, TRANSMEM:Helical,	
YL	FRY like transcription coactivator(FRYL) Related Genes Homo sapiens	
TERM BE DIRECT		
DTERM_BP_DIRECT	<u>cell morphogenesis</u> , <u>neuron projection development</u> ,	
TERM_CC_DIRECT	<u>cell cortex</u> , <u>site of polarized growth</u> ,	
TERPRO	ARM-type fold, Cell Morphogen C, Cell morpho N, MOR2-PAG1 mid, Furry/Tao3/Mor2, Fry C,	
P_KW_BIOLOGICAL_PROCESS	<u>Transcription</u> , <u>Transcription regulation</u> ,	
P_KW_DOMAIN	Coiled coil,	
P_KW_PTM	Acetylation, Phosphoprotein,	
P_SEQ_FEATURE	COMPBIAS: Acidic residues, COMPBIAS: Polar residues, DOMAIN: Cell morphogenesis central region, DOMAIN: Cell morphogenesis protein	
	terminal, DOMAIN:Cell morphogenesis protein N-terminal, DOMAIN:Protein furry C-terminal, REGION:Disordered, SITE:Breakpoint for	
	insertion to form KMT2A/MLL1-AFF4 fusion protein,	
AA10	N-alpha-acetyltransferase 10, NatA catalytic subunit(NAA10) Related Genes Homo sapiens	
OTERM_BP_DIRECT	protein acetylation, N-terminal protein amino acid acetylation, internal protein amino acid acetylation, chromosome organization, negativ	
	regulation of maintenance of mitotic sister chromatid cohesion, centromeric,	
OTERM_CC_DIRECT	nucleus, nucleolus, cytoplasm, cytosol, membrane, NatA complex,	
OTERM_MF_DIRECT	peptide alpha-N-acetyltransferase activity, protein binding, N-acetyltransferase activity, acetyltransferase activity, ribosome binding, pept	
	serine-N-acetyltransferase activity, peptide-glutamate-N-acetyltransferase activity,	
TERPRO	GNAT dom, Acyl CoA acyltransferase, Ard1-like,	
MIM_DISEASE	Ogden syndrome, Microphthalmia, syndromic 1,	
P_KW_CELLULAR_COMPONENT		
	<u>Nucleus, Cytoplasm,</u>	
P_KW_DISEASE	<u>Disease variant, Microphthalmia,</u>	
P_KW_MOLECULAR_FUNCTION	Acyltransferase, Transferase,	
P_KW_PTM	Acetylation, Phosphoprotein,	
P_SEQ_FEATURE	COMPBIAS: Basic and acidic residues, DOMAIN: N-acetyltransferase, MUTAGEN: K->R: Loss of its ability to acetylate HSPA1A and HSPA1B.	
	MUTAGEN:S->A: Abolishes phosphorylation by IKKB and reduces cell growth., REGION:Disordered, REGION:Interaction with NAA15,	
PFIA3	PTPRF interacting protein alpha 3(PPFIA3) Related Genes Homo sapiens	
OTERM_BP_DIRECT	neurotransmitter secretion, synaptic vesicle docking, regulation of short-term neuronal synaptic plasticity, synapse organization,	
DTERM_CC_DIRECT	acrosomal vesicle, cytosol, presynaptic active zone, presynaptic active zone cytoplasmic component, epididymosome, glutamatergic syna	
OTERM_MF_DIRECT		
TERPRO	protein binding,	
LEGEBU	protein binding, SAM SAM/pointed of Linein Linein slobe SAM wat 1 Linein slobe SAM wat 2 Linein slobe SAM wat 2	
. 2.1.110	<u>SAM, SAM/pointed sf, Liprin, Liprin-alpha SAM rpt 1, Liprin-alpha SAM rpt 2, Liprin-alpha SAM rpt 3, </u>	
MART	SAM, SAM/pointed sf, Liprin, Liprin-alpha SAM rpt 1, Liprin-alpha SAM rpt 2, Liprin-alpha SAM rpt 3, SAM,	
MART P_KW_CELLULAR_COMPONENT	SAM, SAM/pointed sf, Liprin, Liprin-alpha SAM rpt 1, Liprin-alpha SAM rpt 2, Liprin-alpha SAM rpt 3, SAM, Cytoplasmic vesicle,	
MART P_KW_CELLULAR_COMPONENT	SAM, SAM/pointed sf, Liprin, Liprin-alpha SAM rpt 1, Liprin-alpha SAM rpt 2, Liprin-alpha SAM rpt 3, SAM,	
MART P_KW_CELLULAR_COMPONENT P_KW_DOMAIN	SAM, SAM/pointed sf, Liprin, Liprin-alpha SAM rpt 1, Liprin-alpha SAM rpt 2, Liprin-alpha SAM rpt 3, SAM, Cytoplasmic vesicle,	
ART LKW_CELLULAR_COMPONENT KW_DOMAIN KW_PTM	SAM, SAM/pointed sf, Liprin, Liprin-alpha SAM rpt 1, Liprin-alpha SAM rpt 2, Liprin-alpha SAM rpt 3, SAM, Cytoplasm, Cytoplasmic vesicle, Coiled coil, Repeat, Phosphoprotein,	
ART LKW_CELLULAR_COMPONENT KW_DOMAIN KW_PTM	SAM, SAM/pointed sf, Liprin, Liprin-alpha SAM rpt 1, Liprin-alpha SAM rpt 2, Liprin-alpha SAM rpt 3, SAM, Cytoplasm, Cytoplasmic vesicle, Coiled coil, Repeat, Phosphoprotein, COMPBIAS:Basic and acidic residues, COMPBIAS:Polar residues, DOMAIN:SAM, DOMAIN:SAM 1, DOMAIN:SAM 2, DOMAIN:SAM 3,	
IART CKW_CELLULAR_COMPONENT CKW_DOMAIN CKW_PTM CSEQ_FEATURE	SAM, SAM/pointed sf, Liprin, Liprin-alpha SAM rpt 1, Liprin-alpha SAM rpt 2, Liprin-alpha SAM rpt 3, SAM, Cytoplasm, Cytoplasmic vesicle, Coiled coil, Repeat, Phosphoprotein, COMPBIAS: Basic and acidic residues, COMPBIAS: Polar residues, DOMAIN: SAM, DOMAIN: SAM 1, DOMAIN: SAM 2, DOMAIN: SAM 3, REGION: Disordered,	
MART P_KW_CELLULAR_COMPONENT P_KW_DOMAIN P_KW_PTM P_SEQ_FEATURE	SAM, SAM/pointed sf, Liprin, Liprin-alpha SAM rpt 1, Liprin-alpha SAM rpt 2, Liprin-alpha SAM rpt 3, SAM, Cytoplasm, Cytoplasmic vesicle, Coiled coil, Repeat, Phosphoprotein, COMPBIAS:Basic and acidic residues, COMPBIAS:Polar residues, DOMAIN:SAM, DOMAIN:SAM 1, DOMAIN:SAM 2, DOMAIN:SAM 3,	
ART CKW_CELLULAR_COMPONENT CKW_DOMAIN CKW_PTM CSEQ_FEATURE	SAM, SAM/pointed sf, Liprin, Liprin-alpha SAM rpt 1, Liprin-alpha SAM rpt 2, Liprin-alpha SAM rpt 3, SAM, Cytoplasm, Cytoplasmic vesicle, Coiled coil, Repeat, Phosphoprotein, COMPBIAS: Basic and acidic residues, COMPBIAS: Polar residues, DOMAIN: SAM, DOMAIN: SAM 1, DOMAIN: SAM 2, DOMAIN: SAM 3, REGION: Disordered,	
ART _KW_CELLULAR_COMPONENT _KW_DOMAIN _KW_PTM _SEQ_FEATURE	SAM, SAM/pointed sf, Liprin, Liprin-alpha SAM rpt 1, Liprin-alpha SAM rpt 2, Liprin-alpha SAM rpt 3, SAM, Cytoplasm, Cytoplasmic vesicle, Coiled coil, Repeat, Phosphoprotein, COMPBIAS: Basic and acidic residues, COMPBIAS: Polar residues, DOMAIN: SAM, DOMAIN: SAM 1, DOMAIN: SAM 2, DOMAIN: SAM 3, REGION: Disordered, RNA polymerase II subunit A(POLR2A) Related Genes Homo sapiens	
ART CKW_CELLULAR_COMPONENT CKW_DOMAIN CKW_PTM CSEQ_FEATURE	SAM, SAM/pointed sf, Liprin, Liprin-alpha SAM rpt 1, Liprin-alpha SAM rpt 2, Liprin-alpha SAM rpt 3, SAM, Cytoplasm, Cytoplasmic vesicle, Coiled coil, Repeat, Phosphoprotein, COMPBIAS: Basic and acidic residues, COMPBIAS: Polar residues, DOMAIN: SAM 1, DOMAIN: SAM 2, DOMAIN: SAM 3, REGION: Disordered, RNA polymerase II subunit A(POLR2A) Related Genes Homo sapiens CARM1 and Regulation of the Estrogen Receptor, Repression of Pain Sensation by the Transcriptional Regulator DREAM, Chromatin	
MART P_KW_CELLULAR_COMPONENT P_KW_DOMAIN P_KW_PTM P_SEQ_FEATURE DLR2A	SAM, SAM/pointed sf, Liprin, Liprin-alpha SAM rpt 1, Liprin-alpha SAM rpt 2, Liprin-alpha SAM rpt 3, SAM, Cytoplasm, Cytoplasmic vesicle, Coiled coil, Repeat, Phosphoprotein, COMPBIAS: Basic and acidic residues, COMPBIAS: Polar residues, DOMAIN: SAM, DOMAIN: SAM 1, DOMAIN: SAM 2, DOMAIN: SAM 3, REGION: Disordered, RNA polymerase II subunit A(POLR2A) Related Genes CARM1 and Regulation of the Estrogen Receptor, Repression of Pain Sensation by the Transcriptional Regulator DREAM, Chromatin Remodeling by hSWI/SNF ATP-dependent Complexes, The information-processing pathway at the IFN-beta enhancer, Nuclear receptors	
MART P_KW_CELLULAR_COMPONENT P_KW_DOMAIN P_KW_PTM P_SEQ_FEATURE DLR2A DCARTA	SAM, SAM/pointed sf, Liprin, Liprin-alpha SAM rpt 1, Liprin-alpha SAM rpt 2, Liprin-alpha SAM rpt 3, SAM, Cytoplasm, Cytoplasmic vesicle, Coiled coil, Repeat, Phosphoprotein, COMPBIAS: Basic and acidic residues, COMPBIAS: Polar residues, DOMAIN: SAM, DOMAIN: SAM 1, DOMAIN: SAM 2, DOMAIN: SAM 3, REGION: Disordered, RNA polymerase II subunit A(POLR2A) Related Genes CARM1 and Regulation of the Estrogen Receptor, Repression of Pain Sensation by the Transcriptional Regulator DREAM, Chromatin Remodeling by hSWI/SNF ATP-dependent Complexes, The information-processing pathway at the IFN-beta enhancer, Nuclear receptors coordinate the activities of chromatin remodeling complexes and coactivators to facilitate initiation of transcription in carcinoma cells, Telomeres, Telomerase, Cellular Aging, and Immortality,	
MART P_KW_CELLULAR_COMPONENT P_KW_DOMAIN P_KW_PTM P_SEQ_FEATURE DLR2A DCARTA	SAM, SAM/pointed sf, Liprin, Liprin-alpha SAM rpt 1, Liprin-alpha SAM rpt 2, Liprin-alpha SAM rpt 3, SAM, Cytoplasm, Cytoplasmic vesicle, Coiled coil, Repeat, Phosphoprotein, COMPBIAS: Basic and acidic residues, COMPBIAS: Polar residues, DOMAIN: SAM, DOMAIN: SAM 1, DOMAIN: SAM 2, DOMAIN: SAM 3, REGION: Disordered, RNA polymerase II subunit A(POLR2A) Related Genes Homo sapiens CARM1 and Regulation of the Estrogen Receptor, Repression of Pain Sensation by the Transcriptional Regulator DREAM, Chromatin Remodeling by hSWI/SNF ATP-dependent Complexes, The information-processing pathway at the IFN-beta enhancer, Nuclear receptors coordinate the activities of chromatin remodeling complexes and coactivators to facilitate initiation of transcription in carcinoma cells, Telomeres, Telomerase, Cellular Aging, and Immortality, transcription, RNA-templated, DNA-templated transcription, termination, regulation of transcription, DNA-templated, transcription from R	
ART _KW_CELLULAR_COMPONENT _KW_DOMAIN _KW_PTM _SEQ_FEATURE DLR2A DCARTA DTERM_BP_DIRECT	SAM, SAM/pointed sf, Liprin, Liprin-alpha SAM rpt 1, Liprin-alpha SAM rpt 2, Liprin-alpha SAM rpt 3, SAM, Cytoplasm, Cytoplasmic vesicle, Coiled coil, Repeat, Phosphoprotein, COMPBIAS: Basic and acidic residues, COMPBIAS: Polar residues, DOMAIN: SAM, DOMAIN: SAM 1, DOMAIN: SAM 2, DOMAIN: SAM 3, REGION: Disordered, RNA polymerase II subunit A(POLR2A) Related Genes Homo sapiens CARM1 and Regulation of the Estrogen Receptor, Repression of Pain Sensation by the Transcriptional Regulator DREAM, Chromatin Remodeling by hSWI/SNF ATP-dependent Complexes, The information-processing pathway at the IFN-beta enhancer, Nuclear receptors coordinate the activities of chromatin remodeling complexes and coactivators to facilitate initiation of transcription in carcinoma cells, Telomeres, Telomerase, Cellular Aging, and Immortality, transcription, RNA-templated, DNA-templated transcription, termination, regulation of transcription, DNA-templated, transcription from R polymerase II promoter, response to organic cyclic compound, positive regulation of RNA splicing, cellular response to oxygen levels,	
ART _KW_CELLULAR_COMPONENT _KW_DOMAIN _KW_PTM _SEQ_FEATURE LR2A DCARTA DTERM_BP_DIRECT	SAM, SAM/pointed sf, Liprin, Liprin-alpha SAM rpt 1, Liprin-alpha SAM rpt 2, Liprin-alpha SAM rpt 3, SAM, Cytoplasm, Cytoplasmic vesicle, Coiled coil, Repeat, Phosphoprotein, COMPBIAS:Basic and acidic residues, COMPBIAS:Polar residues, DOMAIN:SAM, DOMAIN:SAM 1, DOMAIN:SAM 2, DOMAIN:SAM 3, REGION:Disordered, RNA polymerase II subunit A(POLR2A) Related Genes Homo sapiens CARM1 and Regulation of the Estrogen Receptor, Repression of Pain Sensation by the Transcriptional Regulator DREAM, Chromatin Remodeling by hSWI/SNF ATP-dependent Complexes, The information-processing, pathway, at the IFN-beta enhancer, Nuclear receptors coordinate the activities of chromatin remodeling complexes and coactivators to facilitate initiation of transcription in carcinoma cells, Telomeres, Telomerase, Cellular Aging, and Immortality, transcription, RNA-templated, DNA-templated transcription, termination, regulation of RNA splicing, cellular response to oxygen levels, DNA-directed RNA polymerase complex, euchromatin, Prp19 complex, nucleus, nucleoplasm, DNA-directed RNA polymerase II, core	
ART _KW_CELLULAR_COMPONENT _KW_DOMAIN _KW_PTM _SEQ_FEATURE LR2A DCARTA TERM_BP_DIRECT TERM_CC_DIRECT	SAM, SAM/pointed sf, Liprin, Liprin-alpha SAM rpt 1, Liprin-alpha SAM rpt 2, Liprin-alpha SAM rpt 3, SAM, Cytoplasm, Cytoplasmic vesicle, Coiled coil, Repeat, Phosphoprotein, COMPBIAS: Basic and acidic residues, COMPBIAS: Polar residues, DOMAIN: SAM, DOMAIN: SAM 1, DOMAIN: SAM 2, DOMAIN: SAM 3, REGION: Disordered, RNA polymerase II subunit A(POLR2A) Related Genes Homo sapiens CARM1 and Regulation of the Estrogen Receptor, Repression of Pain Sensation by the Transcriptional Regulator DREAM, Chromatin Remodeling by hSWI/SNF ATP-dependent Complexes, The information-processing pathway at the IFN-beta enhancer, Nuclear receptors coordinate the activities of chromatin remodeling complexes and coactivators to facilitate initiation of transcription in carcinoma cells, Telomeres, Telomerase, Cellular Aging, and Immortality, transcription, RNA-templated, DNA-templated transcription, termination, regulation of transcription, DNA-templated, transcription from R polymerase II promoter, response to organic cyclic compound, positive regulation of RNA splicing, cellular response to oxygen levels, DNA-directed RNA polymerase complex, euchromatin, Prp19 complex, nucleus, nucleoplasm, DNA-directed RNA polymerase II, core complex, chromosome, cytoplasm,	
ART _KW_CELLULAR_COMPONENT _KW_DOMAIN _KW_PTM _SEQ_FEATURE LR2A DCARTA DTERM_BP_DIRECT DTERM_CC_DIRECT	SAM, SAM/pointed sf, Liprin, Liprin-alpha SAM rpt 1, Liprin-alpha SAM rpt 2, Liprin-alpha SAM rpt 3, SAM, Cytoplasm, Cytoplasmic vesicle, Coiled coil, Repeat, Phosphoprotein, COMPBIAS: Basic and acidic residues, COMPBIAS: Polar residues, DOMAIN: SAM, DOMAIN: SAM 1, DOMAIN: SAM 2, DOMAIN: SAM 3, REGION: Disordered, RNA polymerase II subunit A(POLR2A) Related Genes Homo sapiens CARM1 and Regulation of the Estrogen Receptor, Repression of Pain Sensation by the Transcriptional Regulator DREAM, Chromatin Remodeling by hSWI/SNF ATP-dependent Complexes, The information-processing pathway at the IFN-beta enhancer, Nuclear receptors coordinate the activities of chromatin remodeling complexes and coactivators to facilitate initiation of transcription in carcinoma cells, Telomerase, Cellular Aging, and Immortality, transcription, RNA-templated, DNA-templated transcription, termination, regulation of transcription, DNA-templated, transcription from R polymerase II promoter, response to organic cyclic compound, positive regulation of RNA splicing, cellular response to oxygen levels, DNA-directed RNA polymerase Complex, euchromatin, Prp19 complex, nucleus, nucleoplasm, DNA-directed RNA polymerase II, core complex, chromosome, cytoplasm, core promoter seguence-specific DNA binding, RNA polymerase II activity, DNA binding, RNA binding, DNA-directed 5'-3' RNA polymerase	
ART _KW_CELLULAR_COMPONENT _KW_DOMAIN _KW_PTM _SEQ_FEATURE LR2A DCARTA DTERM_BP_DIRECT DTERM_CC_DIRECT	SAM, SAM/pointed sf, Liprin, Liprin-alpha SAM rpt 1, Liprin-alpha SAM rpt 2, Liprin-alpha SAM rpt 3, SAM, Cytoplasm, Cytoplasmic vesicle, Coiled coil, Repeat, Phosphoprotein, COMPBIAS: Basic and acidic residues, COMPBIAS: Polar residues, DOMAIN: SAM, DOMAIN: SAM 1, DOMAIN: SAM 2, DOMAIN: SAM 3, REGION: Disordered, RNA polymerase II subunit A(POLR2A) Related Genes Homo sapiens CARM1 and Regulation of the Estrogen Receptor, Repression of Pain Sensation by the Transcriptional Regulator DREAM, Chromatin Remodeling by hSWI/SNF ATP-dependent Complexes, The information-processing pathway at the IFN-beta enhancer, Nuclear receptors coordinate the activities of chromatin remodeling complexes and coactivators to facilitate initiation of transcription in carcinoma cells, Telomerase, Cellular Aging, and Immortality, transcription, RNA-templated, DNA-templated transcription, termination, regulation of transcription, DNA-templated, transcription from R polymerase II promoter, response to organic cyclic compound, positive regulation of RNA splicing, cellular response to oxygen levels, DNA-directed RNA polymerase complex, euchromatin, Prp19 complex, nucleus, nucleoplasm, DNA-directed RNA polymerase II, core complex, chromosome, cytoplasm, core promoter sequence-specific DNA binding, RNA polymerase II activity, DNA binding, RNA binding, DNA-directed 5'-3' RNA polymerase activity, protein binding, kinase binding, ubiquitin protein ligase binding, metal ion binding,	
ART _KW_CELLULAR_COMPONENT _KW_DOMAIN _KW_PTM _SEQ_FEATURE LR2A DCARTA DTERM_BP_DIRECT DTERM_CC_DIRECT	SAM, SAM/pointed sf, Liprin, Liprin-alpha SAM rpt 1, Liprin-alpha SAM rpt 2, Liprin-alpha SAM rpt 3, SAM, Cytoplasm, Cytoplasmic vesicle, Coiled coil, Repeat, Phosphoprotein, COMPBIAS: Basic and acidic residues, COMPBIAS: Polar residues, DOMAIN: SAM, DOMAIN: SAM 1, DOMAIN: SAM 2, DOMAIN: SAM 3, REGION: Disordered, RNA polymerase II subunit A(POLR2A) Related Genes Homo sapiens CARM1 and Regulation of the Estrogen Receptor, Repression of Pain Sensation by the Transcriptional Regulator DREAM, Chromatin Remodeling by hSWI/SNF ATP-dependent Complexes, The information-processing pathway at the IFN-beta enhancer, Nuclear receptors coordinate the activities of chromatin remodeling complexes and coactivators to facilitate initiation of transcription in carcinoma cells, Telomerase, Cellular Aging, and Immortality, transcription, RNA-templated, DNA-templated transcription, termination, regulation of transcription, DNA-templated, transcription from R polymerase II promoter, response to organic cyclic compound, positive regulation of RNA splicing, cellular response to oxygen levels, DNA-directed RNA polymerase Complex, euchromatin, Prp19 complex, nucleus, nucleoplasm, DNA-directed RNA polymerase II, core complex, chromosome, cytoplasm, core promoter seguence-specific DNA binding, RNA polymerase II activity, DNA binding, RNA binding, DNA-directed 5'-3' RNA polymerase	
ART _KW_CELLULAR_COMPONENT _KW_DOMAIN _KW_PTM _SEQ_FEATURE LR2A DCARTA DTERM_BP_DIRECT DTERM_CC_DIRECT DTERM_MF_DIRECT	SAM, SAM/pointed sf, Liprin, Liprin-alpha SAM rpt 1, Liprin-alpha SAM rpt 2, Liprin-alpha SAM rpt 3, SAM, Cytoplasm, Cytoplasmic vesicle, Coiled coil, Repeat, Phosphoprotein, COMPBIAS: Basic and acidic residues, COMPBIAS: Polar residues, DOMAIN: SAM, DOMAIN: SAM 1, DOMAIN: SAM 2, DOMAIN: SAM 3, REGION: Disordered, RNA polymerase II subunit A(POLR2A) Related Genes Homo sapiens CARM1 and Regulation of the Estrogen Receptor, Repression of Pain Sensation by the Transcriptional Regulator DREAM, Chromatin Remodeling by hSWI/SNF ATP-dependent Complexes, The information-processing pathway at the IFN-beta enhancer, Nuclear receptors coordinate the activities of chromatin remodeling complexes and coactivators to facilitate initiation of transcription in carcinoma cells, Telomeres, Telomerase, Cellular Aging, and Immortality, transcription, RNA-templated, DNA-templated transcription, termination, regulation of transcription, DNA-templated, transcription from R polymerase II promoter, response to organic cyclic compound, positive regulation of RNA splicing, cellular response to oxygen levels, DNA-directed RNA polymerase complex, euchromatin, Prp19 complex, nucleus, nucleoplasm, DNA-directed RNA polymerase II, core complex, chromosome, cytoplasm, core promoter sequence-specific DNA binding, RNA polymerase II activity, DNA binding, RNA binding, DNA-directed 5'-3' RNA polymerase activity, protein binding, kinase binding, ubiquitin protein ligase binding, metal ion binding, microfibril binding, promoter-specific chromatin binding,	
ART _KW_CELLULAR_COMPONENT _KW_DOMAIN _KW_PTM _SEQ_FEATURE LR2A DCARTA TERM_BP_DIRECT TERM_CC_DIRECT TERM_MF_DIRECT	SAM, SAM/pointed sf, Liprin, Liprin-alpha SAM rpt 1, Liprin-alpha SAM rpt 2, Liprin-alpha SAM rpt 3, SAM, Cytoplasm, Cytoplasmic vesicle, Coiled coil, Repeat, Phosphoprotein, COMPBIAS: Basic and acidic residues, COMPBIAS: Polar residues, DOMAIN: SAM, DOMAIN: SAM 1, DOMAIN: SAM 2, DOMAIN: SAM 3, REGION: Disordered, RNA polymerase II subunit A(POLR2A) Related Genes Homo sapiens CARM1 and Regulation of the Estrogen Receptor, Repression of Pain Sensation by the Transcriptional Regulator DREAM, Chromatin Remodeling by hSWI/SNF ATP-dependent Complexes, The information-processing pathway at the IFN-beta enhancer, Nuclear receptors coordinate the activities of chromatin remodeling complexes and coactivators to facilitate initiation of transcription in carcinoma cells, Telomerase, Cellular Aging, and Immortality, transcription, RNA-templated, DNA-templated transcription, termination, regulation of transcription, DNA-templated, transcription from R polymerase II promoter, response to organic cyclic compound, positive regulation of RNA splicing, cellular response to oxygen levels, DNA-directed RNA polymerase complex, euchromatin, Prp19 complex, nucleus, nucleoplasm, DNA-directed RNA polymerase II, core complex, chromosome, cytoplasm, core promoter sequence-specific DNA binding, RNA polymerase II activity, DNA binding, RNA binding, DNA-directed 5'-3' RNA polymerase activity, protein binding, kinase binding, ubiquitin protein ligase binding, metal ion binding,	
ART _KW_CELLULAR_COMPONENT _KW_DOMAIN _KW_PTM _SEQ_FEATURE LR2A DCARTA DTERM_BP_DIRECT DTERM_CC_DIRECT DTERM_MF_DIRECT	SAM, SAM/pointed sf, Liprin, Liprin-alpha SAM rpt 1, Liprin-alpha SAM rpt 2, Liprin-alpha SAM rpt 3, SAM, Cytoplasm, Cytoplasmic vesicle, Coiled coil, Repeat, Phosphoprotein, COMPBIAS: Basic and acidic residues, COMPBIAS: Polar residues, DOMAIN: SAM, DOMAIN: SAM 1, DOMAIN: SAM 2, DOMAIN: SAM 3, REGION: Disordered, RNA polymerase II subunit A(POLR2A) CARM1 and Regulation of the Estrogen Receptor, Repression of Pain Sensation by the Transcriptional Regulator DREAM, Chromatin Remodeling by hSWI/SNF ATP-dependent Complexes, The information-processing pathway at the IFN-beta enhancer, Nuclear receptors coordinate the activities of chromatin remodeling complexes and coactivators to facilitate initiation of transcription in carcinoma cells, Telomeres, Cellular Aging, and Immortality, transcription, RNA-templated, DNA-templated transcription, termination, regulation of transcription, DNA-templated, transcription from R polymerase II promoter, response to organic cyclic compound, positive regulation of RNA splicing, cellular response to oxygen levels, DNA-directed RNA polymerase complex, euchromatin, Prp19 complex, nucleus, nucleoplasm, DNA-directed RNA polymerase II, core complex, chromosome, cytoplasm, core promoter sequence-specific DNA binding, RNA polymerase II activity, DNA binding, RNA binding, DNA-directed 5'-3' RNA polymerase activity, protein binding, kinase binding, ubiquitin protein ligase binding, metal ion binding, microfibril binding, promoter-specific chromatin binding, RNA pol II repeat euk, RNA pol asu, RNA pol N, RNA pol Rpb1 3, RNA pol Rpb1 7, RNA pol Rpb1 6, RNA pol Rpb1 1,	
ART _KW_CELLULAR_COMPONENT _KW_DOMAIN _KW_PTM _SEQ_FEATURE LR2A DCARTA TERM_BP_DIRECT TERM_CC_DIRECT TERM_MF_DIRECT TERM_MF_DIRECT	SAM, SAM/pointed sf, Liprin, Liprin-alpha SAM rpt 1, Liprin-alpha SAM rpt 2, Liprin-alpha SAM rpt 3, SAM, Cytoplasm, Cytoplasmic vesicle, Coiled coil, Repeat, Phosphoprotein, COMPBIAS: Basic and acidic residues, COMPBIAS: Polar residues, DOMAIN: SAM, DOMAIN: SAM 1, DOMAIN: SAM 2, DOMAIN: SAM 3, REGION: Disordered, RNA polymerase II subunit A(POLR2A) Related Genes Homo sapiens CARM1 and Regulation of the Estrogen Receptor, Repression of Pain Sensation by the Transcriptional Regulator DREAM, Chromatin Remodeling by hSWI/SNF ATP-dependent Complexes, The information-processing pathway at the IFN-beta enhancer, Nuclear receptors coordinate the activities of chromatin remodeling complexes and coactivators to facilitate initiation of transcription in carcinoma cells, Telomeres, Telomerase, Cellular Aging, and Immortality, transcription, RNA-templated, DNA-templated transcription, termination, regulation of transcription, DNA-templated, transcription from R polymerase II promoter, response to organic cyclic compound, positive regulation of RNA splicing, cellular response to oxygen levels, DNA-directed RNA polymerase complex, euchromatin, Prp19 complex, nucleus, nucleoplasm, DNA-directed RNA polymerase II, core complex, chromosome, cytoplasm, core promoter sequence-specific DNA binding, RNA polymerase II activity, DNA binding, RNA binding, DNA-directed 5'-3' RNA polymerase activity, RNA-directed 5'-3' RNA polymerase activity, protein binding, kinase binding, ubiquitin protein ligase binding, metal ion binding, microfibril binding, promoter-specific chromatin binding, RNA pol Rpb1 5, RNA pol Rpb1 4, Rpb1 funnel sf, RNA pol Rpb1 7, RNA pol Rpb1 3 sf, RNA pol Rpb1 clamp domain, DNA-dir RpoC beta prime,	
ART _KW_CELLULAR_COMPONENT _KW_DOMAIN _KW_PTM _SEQ_FEATURE LR2A CCARTA CTERM_BP_DIRECT CTERM_CC_DIRECT CTERM_MF_DIRECT CTERPRO GG_PATHWAY	SAM, SAM/pointed sf, Liprin, Liprin-alpha SAM rpt 1, Liprin-alpha SAM rpt 2, Liprin-alpha SAM rpt 3, SAM, Cytoplasm, Cytoplasmic vesicle, Coiled coil, Repeat, Phosphoprotein, COMPBIAS: Basic and acidic residues, COMPBIAS: Polar residues, DOMAIN: SAM, DOMAIN: SAM 1, DOMAIN: SAM 2, DOMAIN: SAM 3, REGION: Disordered, RNA polymerase II subunit A(POLR2A) Related Genes Homo sapiens CARM1 and Regulation of the Estrogen Receptor, Repression of Pain Sensation by the Transcriptional Regulator DREAM, Chromatin Remodeling by hSWI/SNF ATP-dependent Complexes, The information-processing pathway at the IFN-beta enhancer, Nuclear receptors coordinate the activities of chromatin remodeling complexes and coactivators to facilitate initiation of transcription in carcinoma cells, Telomeres, Telomerase, Cellular Aging, and Immortality, transcription, RNA-templated, DNA-templated transcription, termination, regulation of transcription, DNA-templated, transcription from R polymerase II promoter, response to organic cyclic compound, positive regulation of RNA splicing, cellular response to oxygen levels, DNA-directed RNA polymerase complex, euchromatin, Prp19 complex, nucleus, nucleoplasm, DNA-directed RNA polymerase II, core complex, chromosome, cytoplasm, core promoter sequence-specific DNA binding, RNA polymerase II activity, DNA binding, RNA binding, DNA-directed 5'-3' RNA polymerase activity, RNA-directed 5'-3' RNA polymerase activity, protein binding, kinase binding, ubiquitin protein ligase binding, metal ion binding, RNA pol II repeat euk, RNA pol Rpb1 4, Rpb1 funnel sf, RNA pol Rpb1 7 sf, RNA pol Rpb1 7 sf, RNA pol Rpb1 1, RNA pol Rpb1 1, RNA pol Rpb1 4, Rpb1 funnel sf, RNA pol Rpb1 7 sf, RNA pol Rpb1 3 sf, RNA pol Rpb1 clamp domain, DNA-dir RpoC beta prime,	
ART _KW_CELLULAR_COMPONENT _KW_DOMAIN _KW_PTM _SEQ_FEATURE DECARTA DETERM_BP_DIRECT DETERM_CC_DIRECT DETERM_MF_DIRECT DETERM_MF_DIRECT DETERM_MF_DIRECT	SAM, SAM/pointed sf, Liprin, Liprin-alpha SAM rpt 1, Liprin-alpha SAM rpt 2, Liprin-alpha SAM rpt 3, SAM, Cytoplasm, Cytoplasmic vesicle, Coiled coil, Repeat, Phosphoprotein, COMPBIAS: Basic and acidic residues, COMPBIAS: Polar residues, DOMAIN: SAM, DOMAIN: SAM 1, DOMAIN: SAM 2, DOMAIN: SAM 3, REGION: Disordered, RNA polymerase II subunit A(POLR2A) Related Genes Homo sapiens CARM1 and Regulation of the Estrogen Receptor, Repression of Pain Sensation by the Transcriptional Regulator DREAM, Chromatin Remodeling by hSWI/SNF ATP-dependent Complexes, The information-processing pathway at the IFN-beta enhancer, Nuclear receptors coordinate the activities of chromatin remodeling complexes and coactivators to facilitate initiation of transcription in carcinoma cells, Telomeres, Telomerase, Cellular Aging, and Immortality, transcription, RNA-templated, DNA-templated transcription, termination, regulation of transcription, DNA-templated, transcription from R polymerase II promoter, response to organic cyclic compound, positive regulation of RNA splicing, cellular response to oxygen levels, DNA-directed RNA polymerase complex, euchromatin, Prp19 complex, nucleus, nucleoplasm, DNA-directed RNA polymerase II, core complex, chromosome, cytoplasm, core promoter sequence-specific DNA binding, RNA polymerase II activity, DNA binding, RNA binding, DNA-directed 5'-3' RNA polymerase activity, RNA-directed 5'-3' RNA polymerase activity, protein binding, kinase binding, ubiquitin protein ligase binding, metal ion binding, microfibril binding, promoter-specific chromatin binding, RNA pol Rpb1 5, RNA pol Rpb1 4, Rpb1 funnel sf, RNA pol Rpb1 7, RNA pol Rpb1 3 sf, RNA pol Rpb1 clamp domain, DNA-dir RpoC beta prime,	
ART P_KW_CELLULAR_COMPONENT P_KW_DOMAIN P_KW_PTM P_SEQ_FEATURE DIERA DIERA DIERM_BP_DIRECT DIERM_CC_DIRECT DIERM_MF_DIRECT DIERA DI	SAM, SAM/pointed sf, Liprin, Liprin-alpha SAM rpt 1, Liprin-alpha SAM rpt 2, Liprin-alpha SAM rpt 3, SAM, Cytoplasm, Cytoplasmic vesicle, Coiled coil, Repeat, Phosphoprotein, COMPBIAS: Basic and acidic residues, COMPBIAS: Polar residues, DOMAIN: SAM, DOMAIN: SAM 1, DOMAIN: SAM 2, DOMAIN: SAM 3, REGION: Disordered, RNA polymerase II subunit A(POLR2A) Related Genes Homo sapiens CARM1 and Regulation of the Estrogen Receptor, Repression of Pain Sensation by the Transcriptional Regulator DREAM, Chromatin Remodeling by hSWI/SNF ATP-dependent Complexes, The information-processing pathway at the IFN-beta enhancer, Nuclear receptors coordinate the activities of chromatin remodeling complexes and coactivators to facilitate initiation of transcription in carcinoma cells, Telomeres, Telomerase, Cellular Aging, and Immortality, transcription, RNA-templated, DNA-templated transcription, termination, regulation of transcription, DNA-templated, transcription from R polymerase II promoter, response to organic cyclic compound, positive regulation of RNA splicing, cellular response to oxygen levels, DNA-directed RNA polymerase complex, euchromatin, Prp19 complex, nucleus, nucleoplasm, DNA-directed RNA polymerase II, core complex, chromosome, cytoplasm, core promoter sequence-specific DNA binding, RNA polymerase II activity, DNA binding, RNA binding, DNA-directed 5'-3' RNA polymerase activity, RNA-directed 5'-3' RNA polymerase activity, protein binding, kinase binding, ubiquitin protein ligase binding, metal ion binding, RNA pol II repeat euk, RNA pol Rpb1 4, Rpb1 funnel sf, RNA pol Rpb1 7 sf, RNA pol Rpb1 7 sf, RNA pol Rpb1 1, RNA pol Rpb1 1, RNA pol Rpb1 4, Rpb1 funnel sf, RNA pol Rpb1 7 sf, RNA pol Rpb1 3 sf, RNA pol Rpb1 clamp domain, DNA-dir RpoC beta prime,	
MART P_KW_CELLULAR_COMPONENT P_KW_DOMAIN P_KW_PTM P_SEQ_FEATURE DLE2A OCARTA DTERM_BP_DIRECT DTERM_CC_DIRECT DTERM_MF_DIRECT TERPRO EGG_PATHWAY MIM_DISEASE MART	SAM, SAM/pointed_sf, Liprin, Liprin-alpha_SAM_rpt_1, Liprin-alpha_SAM_rpt_2, Liprin-alpha_SAM_rpt_3, SAM, Cytoplasm, Cytoplasmic vesicle, Coiled coil, Repeat, Phosphoprotein. COMPBIAS:Basic and acidic residues, COMPBIAS:Polar residues, DOMAIN:SAM, DOMAIN:SAM 1, DOMAIN:SAM 2, DOMAIN:SAM 3, REGION:Disordered, RNA polymerase II subunit A(POLR2A) Rolated Genes Homo sapiens CARM1 and Regulation of the Estrogen Receptor, Repression of Pain Sensation by the Transcriptional Regulator DREAM, Chromatin Remodeling by hSWI/SNF ATP-dependent Complexes, The information-processing, pathway at the IFN-beta enhancer, Nuclear receptors coordinate the activities of chromatin remodeling, complexes and coactivators to facilitate initiation of transcription in carcinoma cells, Telomeres, Telomerase, Cellular Aging, and Immortality, transcription, RNA-templated, DNA-templated transcription, termination, regulation of transcription, DNA-templated, transcription from R polymerase II promoter, response to organic cyclic compound, positive regulation of RNA splicing, cellular response to oxygen levels, DNA-directed RNA polymerase complex, euchromatin, Prp19 complex, nucleus, nucleoplasm, DNA-directed RNA polymerase II, core complex, chromosome, cytoplasm, core promoter sequence-specific DNA binding, RNA polymerase II activity, DNA binding, RNA binding, DNA-directed S'-3' RNA polymerase activity, protein binding, kinase binding, ubiquitin protein ligase binding, metal ion binding, microfibril binding, promoter-specific chromatin binding, microfibril binding, promoter-specific chromatin binding, RNA pol II repeat euk, RNA pol asu, RNA pol N, RNA pol Rpb1 3, RNA pol Rpb1 7, RNA pol Rpb1 6, RNA pol Rpb1 1, RNA pol Rpb1 5, RNA pol Rpb1 4, Rpb1 funnel sf, RNA pol Rpb1 7 sf, RNA pol Rpb1 3 sf, RNA pol Rpb1 clamp domain, DNA-directed Pole aprime, RNA polymerase, Nucleotide excision repair, Huntington disease, Neurodevelopmental disorder with hypotonia and variable intellectual and behavioral abnormalities, RPOLA N,	
MART P_KW_CELLULAR_COMPONENT P_KW_DOMAIN P_KW_PTM P_SEQ_FEATURE DLR2A OCARTA DTERM_BP_DIRECT DTERM_CC_DIRECT DTERM_MF_DIRECT TERPRO EGG_PATHWAY MIM_DISEASE MART P_KW_BIOLOGICAL_PROCESS	SAM, SAM/pointed sf, Liprin, Liprin-alpha SAM rpt 1, Liprin-alpha SAM rpt 2, Liprin-alpha SAM rpt 3, SAM, Cytoplasm, Cytoplasmic vesicle, Coiled coil, Repeat, Phosphoprotein, COMPBIAS: Basic and acidic residues, COMPBIAS: Polar residues, DOMAIN: SAM, DOMAIN: SAM 1, DOMAIN: SAM 2, DOMAIN: SAM 3, REGION: Disordered, RNA polymerase II subunit A(POLR2A) Related Genes Homo sapiens CARM1 and Regulation of the Estrogen Receptor, Repression of Pain Sensation by the Transcriptional Regulator DREAM, Chromatin Remodeling by hSWI/SNF ATP-dependent Complexes, The information-processing pathway at the IFN-beta enhancer, Nuclear receptors coordinate the activities of chromatin remodeling complexes and coactivators to facilitate initiation of transcription in carcinoma cells, Telomeres, Telomerase, Cellular Aging, and Immortality, transcription, RNA-templated, DNA-templated transcription, termination, regulation of transcription, DNA-templated, transcription from R polymerase II promoter, response to organic cyclic compound, positive regulation of RNA splicing, cellular response to oxygen levels, DNA-directed RNA polymerase complex, euchromatin, Prp19 complex, nucleus, nucleoplasm, DNA-directed RNA polymerase II, core complex, chromosome, cytoplasm, organic promoter sequence-specific DNA binding, RNA polymerase II activity, DNA binding, RNA binding, DNA-directed 5'-3' RNA polymerase activity, protein binding, kinase binding, ubiquitin protein ligase binding, metal ion binding, microfibril binding, promoter-specific chromatin binding, RNA pol II repeat euk, RNA pol asu, RNA pol N, RNA pol Rpb1 3, RNA pol Rpb1 7, RNA pol Rpb1 6, RNA pol Rpb1 1, RNA pol Rpb1 4, Rpb1 funnel sf, RNA pol Rpb1 7, sf, RNA pol Rpb1 1, RNA pol Rpb1 1, RNA pol Rpb1 4, Rpb1 funnel sf, RNA pol Rpb1 7, sf, RNA pol Rpb1 3 sf, RNA pol Rpb1 1 clamp domain, DNA-dir RpoC beta prime, RNA polymerase, Nucleotide excision repair, Huntington disease, Neurodevelopmental disorder with hypotonia and variable intellectual and behavioral abnormalities,	
MART P_KW_CELLULAR_COMPONENT P_KW_DOMAIN P_KW_PTM P_SEQ_FEATURE DLR2A OCARTA DTERM_BP_DIRECT DTERM_CC_DIRECT DTERM_MF_DIRECT TERPRO EGG_PATHWAY MIM_DISEASE MART P_KW_BIOLOGICAL_PROCESS P_KW_CELLULAR_COMPONENT	SAM, SAM/pointed_sf, Liprin, Liprin-alpha_SAM_rpt_1, Liprin-alpha_SAM_rpt_2, Liprin-alpha_SAM_rpt_3, SAM, Cytoplasm, Cytoplasmic vesicle, Coiled coil, Repeat, Phosphoprotein. COMPBIAS:Basic and acidic residues, COMPBIAS:Polar residues, DOMAIN:SAM, DOMAIN:SAM 1, DOMAIN:SAM 2, DOMAIN:SAM 3, REGION:Disordered, RNA polymerase II subunit A(POLR2A) Rolated Genes Homo sapiens CARM1 and Regulation of the Estrogen Receptor, Repression of Pain Sensation by the Transcriptional Regulator DREAM, Chromatin Remodeling by hSWI/SNF ATP-dependent Complexes, The information-processing, pathway at the IFN-beta enhancer, Nuclear receptors coordinate the activities of chromatin remodeling, complexes and coactivators to facilitate initiation of transcription in carcinoma cells, Telomeres, Telomerase, Cellular Aging, and Immortality, transcription, RNA-templated, DNA-templated transcription, termination, regulation of transcription, DNA-templated, transcription from R polymerase II promoter, response to organic cyclic compound, positive regulation of RNA splicing, cellular response to oxygen levels, DNA-directed RNA polymerase complex, euchromatin, Prp19 complex, nucleus, nucleoplasm, DNA-directed RNA polymerase II, core complex, chromosome, cytoplasm, core promoter sequence-specific DNA binding, RNA polymerase II activity, DNA binding, RNA binding, DNA-directed S'-3' RNA polymerase activity, protein binding, kinase binding, ubiquitin protein ligase binding, metal ion binding, microfibril binding, promoter-specific chromatin binding, microfibril binding, promoter-specific chromatin binding, RNA pol II repeat euk, RNA pol asu, RNA pol N, RNA pol Rpb1 3, RNA pol Rpb1 7, RNA pol Rpb1 6, RNA pol Rpb1 1, RNA pol Rpb1 5, RNA pol Rpb1 4, Rpb1 funnel sf, RNA pol Rpb1 7 sf, RNA pol Rpb1 3 sf, RNA pol Rpb1 clamp domain, DNA-directed Pole aprime, RNA polymerase, Nucleotide excision repair, Huntington disease, Neurodevelopmental disorder with hypotonia and variable intellectual and behavioral abnormalities, RPOLA N,	
MART P_KW_CELLULAR_COMPONENT P_KW_DOMAIN P_KW_PTM P_SEQ_FEATURE DLR2A OCARTA DTERM_BP_DIRECT DTERM_CC_DIRECT DTERM_MF_DIRECT TERPRO EGG_PATHWAY MIM_DISEASE MART P_KW_BIOLOGICAL_PROCESS P_KW_CELLULAR_COMPONENT	SAM, SAM/pointed sf, Liprin, Liprin-alpha SAM rpt 1, Liprin-alpha SAM rpt 2, Liprin-alpha SAM rpt 3, SAM, Cytoplasm. Cytoplasmic vesicle. Coiled coil, Repeat, Phosphoprotein. COMPBIAS: Basic and acidic residues, COMPBIAS: Polar residues, DOMAIN:SAM, DOMAIN:SAM 1, DOMAIN:SAM 2, DOMAIN:SAM 3, REGION: Disordered, RNA polymerase II subunit A(POLR2A) Related Genos Homo sapiens CARN1 and Regulation of the Estrogen Receptor, Repression of Pain Sensation by the Transcriptional Regulator DREAM, Chromatin Remodeling by hSMI/SNF ATP-dependent Complexes, The information-processing pathway at the IFN-beta enhancer, Nuclear receptors coordinate the activities of chromatin remodeling complexes and coactivators to facilitate initiation of transcription in carcinoma cells, Telomeras, Telomerase, Cellular Aging, and Immortality. transcription, RNA-templated, DNA-templated transcription, termination, regulation of transcription, DNA-templated, transcription from R polymerase II promoter, response to organic cyclic compound, positive regulation of RNA splicing, cellular response to oxygen levels. DNA-directed RNA polymerase complex, euchromatin, Prp19 complex, nucleus, nucleoplasm, DNA-directed RNA polymerase II, core complex, chromosome, cytoplasm, core promoter sequence-specific DNA binding, RNA polymerase II activity, DNA binding, RNA binding, DNA-directed 5'-3' RNA polymerase activity, protein binding, kinase binding, ubiquitin protein ligase binding, metal ion binding, microfibril binding, promoter-specific chromatin binding, RNA pol II repeat euk, RNA pol asu, RNA pol N, RNA pol Rpb1 7, RNA pol Rpb1 6, RNA pol Rpb1 1, RNA pol Rpb1 5, RNA pol Rpb1 4, Rpb1 funnel sf, RNA pol Rpb1 7, sf, RNA pol Rpb1 3, RNA pol Rpb1 1, RNA pol Rpb1 4, Rpb1 funnel sf, RNA pol Rpb1 7, sf, RNA pol Rpb1 3, RNA pol Rpb1 1 clamp domain, DNA-dir RpoC beta prime, RNA polymerase, Nucleotide excision repair, Huntington disease, Neurodevelopmental disorder with hypotonia and variable intellectual and behavioral abnormalities, RPOLA N,	
MART P_KW_CELLULAR_COMPONENT P_KW_DOMAIN P_KW_PTM P_SEQ_FEATURE DLR2A OCARTA DTERM_BP_DIRECT DTERM_CC_DIRECT DTERM_MF_DIRECT TERPRO EGG_PATHWAY MIM_DISEASE MART P_KW_BIOLOGICAL_PROCESS P_KW_CELLULAR_COMPONENT P_KW_DISEASE	SAM, SAM/pointed sf, Liprin, Liprin-alpha SAM rpt 1, Liprin-alpha SAM rpt 2, Liprin-alpha SAM rpt 3, SAM, Cytoplasmic vesicle. Coiled coil, Repeat, Phosphoprotein, COMPBIAS: Basic and acidic residues, COMPBIAS: Polar residues, DOMAIN: SAM, DOMAIN: SAM 1, DOMAIN: SAM 2, DOMAIN: SAM 3, REGION: Disordered, RNA polymerase II subunit A(POLR2A) Related Genes Homo saplens CARM1 and Regulation of the Estrogen Receptor, Repression of Pain Sensation by the Transcriptional Regulator DREAM, Chromatin Remodeling by hSWI/SNF ATP-dependent Complexes. The information-processing pathway at the IFN-beta enhancer, Nuclear receptors coordinate the activities of chromatin remodeling complexes and coactivators to facilitate initiation of transcription in carcinoma cells, Telomerase, Cellular Asing, and Immortality, transcription, RNA-templated, DNA-templated transcription, termination, regulation of transcription, DNA-templated, transcription from R polymerase II promoter, response to organic cyclic compound, positive regulation of RNA splicing, cellular response to oxygen levels, DNA-directed RNA polymerase accomplex, euchromatin, Prp19 complex, nucleus, nucleoplasm, DNA-directed RNA polymerase II, core complex, chromosome, cytoplasm, core promoter sequence-specific DNA binding, RNA polymerase activity, RNA-directed 5'-3' RNA polymerase activity, Broad-directed Side RNA polymerase RNA polymerase RNA polymerase RNA pol Rpb1 1, RNA pol Rpb1 2, RNA pol Rpb1 4, Rpb1 funnel sf, RNA pol Rpb1 7, RNA pol Rpb1 3, RNA pol Rpb1 1, Camp domain, DNA-dire	
MART P_KW_CELLULAR_COMPONENT P_KW_DOMAIN P_KW_PTM P_SEQ_FEATURE DLR2A OCARTA DTERM_BP_DIRECT DTERM_CC_DIRECT DTERM_MF_DIRECT TERPRO EGG_PATHWAY MIM_DISEASE MART P_KW_BIOLOGICAL_PROCESS P_KW_CELLULAR_COMPONENT	SAM, SAM/pointed sf, Liprin, Liprin-alpha SAM rpt 1, Liprin-alpha SAM rpt 2, Liprin-alpha SAM rpt 3, SAM, Cytoplasm. Cytoplasmic vesicle. Coiled coil, Repeat, Phosphoprotein. COMPBIAS: Basic and acidic residues, COMPBIAS: Polar residues, DOMAIN:SAM, DOMAIN:SAM 1, DOMAIN:SAM 2, DOMAIN:SAM 3, REGION: Disordered, RNA polymerase II subunit A(POLR2A) Related Genos Homo sapiens CARN1 and Regulation of the Estrogen Receptor, Repression of Pain Sensation by the Transcriptional Regulator DREAM, Chromatin Remodeling by hSMI/SNF ATP-dependent Complexes, The information-processing pathway at the IFN-beta enhancer, Nuclear receptors coordinate the activities of chromatin remodeling complexes and coactivators to facilitate initiation of transcription in carcinoma cells, Telomeras, Telomerase, Cellular Aging, and Immortality. transcription, RNA-templated, DNA-templated transcription, termination, regulation of transcription, DNA-templated, transcription from R polymerase II promoter, response to organic cyclic compound, positive regulation of RNA splicing, cellular response to oxygen levels. DNA-directed RNA polymerase complex, euchromatin, Prp19 complex, nucleus, nucleoplasm, DNA-directed RNA polymerase II, core complex, chromosome, cytoplasm, core promoter sequence-specific DNA binding, RNA polymerase II activity, DNA binding, RNA binding, DNA-directed 5'-3' RNA polymerase activity, protein binding, kinase binding, ubiquitin protein ligase binding, metal ion binding, microfibril binding, promoter-specific chromatin binding, RNA pol II repeat euk, RNA pol asu, RNA pol N, RNA pol Rpb1 7, RNA pol Rpb1 6, RNA pol Rpb1 1, RNA pol Rpb1 5, RNA pol Rpb1 4, Rpb1 funnel sf, RNA pol Rpb1 7, sf, RNA pol Rpb1 3, RNA pol Rpb1 1, RNA pol Rpb1 4, Rpb1 funnel sf, RNA pol Rpb1 7, sf, RNA pol Rpb1 3, RNA pol Rpb1 1 clamp domain, DNA-dir RpoC beta prime, RNA polymerase, Nucleotide excision repair, Huntington disease, Neurodevelopmental disorder with hypotonia and variable intellectual and behavioral abnormalities, RPOLA N,	
ART CKW_CELLULAR_COMPONENT CKW_DOMAIN CKW_PTM CSEQ_FEATURE CLR2A CCARTA CTERM_BP_DIRECT CTERM_CC_DIRECT CTERM_MF_DIRECT CTERPRO CGG_PATHWAY MIM_DISEASE MART CKW_BIOLOGICAL_PROCESS CKW_CELLULAR_COMPONENT CKW_DISEASE CKW_DISEASE CKW_DOMAIN	SAM, SAM/pointed sf, Liprin, Liprin-alpha SAM rpt 1, Liprin-alpha SAM rpt 2, Liprin-alpha SAM rpt 3, SAM, Cytoplasm. Cytoplasmic vesicle, Coiled coil, Repeat, Phosphoprotein, COMPBIAS: Basic and acidic residues, COMPBIAS: Polar residues, DOMAIN:SAM, DOMAIN:SAM 1, DOMAIN:SAM 2, DOMAIN:SAM 3, REGION: Disordered, RNA polymerase II subunit A(POLR2A) CARM1 and Regulation of the Estrogen Receptor, Repression of Pain Sensation by the Transcriptional Regulator DREAM, Chromatin Remodeling by hSWI/SNF ATP-dependent Complexes, The information-processing nathway at the IFN-beta enhancer, Nuclear receptors coordinate the activities of chromatin remodeling complexes and coactivators to facilitate initiation of transcription in carcinoma cells, Telomerase, Cellular Aging, and Immortality, transcription, RNA-templated, DNA-templated transcription, termination, regulation of transcription, DNA-templated, transcription from R polymerase II promoter, response to organic cyclic compound, positive regulation of RNA splicing, cellular response to oxygen levels, DNA-directed RNA polymerase complex, euchromatin, Prp19 complex, nucleus, nucleoplasm, DNA-directed RNA polymerase II, core complex, chromosome, cytoplasm. core promoter sequence-specific DNA binding, RNA polymerase II activity, DNA binding, RNA binding, DNA-directed 5'-3' RNA polymerase activity, RNA-directed 5'-3' RNA polymerase activity, Protein binding, kinase binding, ubiquitin protein ligase binding, metal ion binding, microfibril binding, promoter-specific chromatin binding, RNA pol Rpb1 5, RNA pol Rpb1 6, RNA pol Rpb1 1, RNA pol Rpb1 5, RNA pol Rpb1 1, RNA pol Rpb1 5, RNA pol Rpb1 4, Rpb1 funnel sf, RNA pol Rpb1 7, sf, RNA pol Rpb1 3, sf, RNA pol Rpb1 1 clamp domain, DNA-directed Polymerase, Nucleus, Protein ligase, Nucleus, Cytoplasm, DNA-directed RNA polymerase, Nucleus Cytoplasm, DNA-directed RNA polymerase, Nucle	
ARAT CKW_CELLULAR_COMPONENT CKW_DOMAIN CKW_PTM CSEQ_FEATURE CCARTA COCARTA CTERM_BP_DIRECT CTERM_CC_DIRECT CTERM_MF_DIRECT CTERPRO CGG_PATHWAY MIM_DISEASE CARTA CKW_BIOLOGICAL_PROCESS CKW_CELLULAR_COMPONENT CKW_DISEASE CKW_DOMAIN CKW_LIGAND	SAM, SAM/pointed sf, Liprin, Liprin-alpha SAM rpt 1, Liprin-alpha SAM rpt 2, Liprin-alpha SAM rpt 3, SAM, Cytoplasmic vesicle. Coiled coil, Repeat, Phosohoprotein. COMPBIAS: Basic and acidic residues, COMPBIAS: Polar residues, DOMAIN:SAM, DOMAIN:SAM 1, DOMAIN:SAM 2, DOMAIN:SAM 3, REGION: Disordered, ENA polymerase II subunit A(POLR2A) CARM1 and Regulation of the Estrogen Receptor, Repression of Pain Sensation by the Transcriptional Regulator DREAM, Chromatin Remodeling by hSWI/SNF ATP-dependent Complexes, The information-processing pathway at the IFN-beta enhancer, Nuclear receptors coordinate the activities of chromatin remodeling complexes and coactivators to facilitate initiation of transcription in carcinoma cells, Telomerase, Cellular Aging, and Immortality, transcription, RNA-templated, DNA-templated transcription, termination, regulation of transcription, DNA-templated, transcription from Rolymerase II promoter, response to organic cyclic compound, positive regulation of RNA splicing, cellular response to oxygen levels, DNA-directed RNA polymerase complex, euchromatin, Pro19 complex, nucleus, nucleoplasm, DNA-directed RNA polymerase II, core complex, chromosome, cytoplasm. Core promoter sequence-specific DNA binding, RNA polymerase II activity, DNA binding, RNA binding, DNA-directed 5'-3' RNA polymerase activity, protein binding, kinase binding, ubiquitin protein liques binding, metal ion binding, microfibril binding, promoter-specific DNA polymerase activity, protein binding, kinase binding, ubiquitin protein liques binding, metal ion binding, microfibril binding, promoter-specific Chromatin binding, RNA pol II repeat euk, RNA pol asy, RNA pol N, RNA pol Rpb1 3, RNA pol Rpb1 3, RNA pol Rpb1 6, RNA pol Rpb1 1, RNA pol Rpb1 5, RNA pol Rpb1 4, Rpb1 funnel sf, RNA pol Rpb1 7 sf, RNA pol Rpb1 3 sf, RNA pol Rpb1 clamp domain, DNA-dir RpoC beta prime, RNA pol II repeat euk, RNA pol Rpb1 4, Rpb1 funnel sf, RNA pol Rpb1 7 sf, RNA pol Rpb1 3 sf, RNA pol Rpb1 clamp domain, DNA-dir RpoC beta prime, RNA	
ARAT CKW_CELLULAR_COMPONENT CKW_DOMAIN CKW_PTM CSEQ_FEATURE CCARTA COTERM_BP_DIRECT CTERM_CC_DIRECT CTERM_MF_DIRECT CTERPRO CGG_PATHWAY MIM_DISEASE LART CKW_BIOLOGICAL_PROCESS CKW_CELLULAR_COMPONENT CKW_DISEASE CKW_DOMAIN CKW_LIGAND CKW_MOLECULAR_FUNCTION	SAM, SAM/pointed sf, Liprin, Liprin-alpha SAM rpt 1, Liprin-alpha SAM rpt 2, Liprin-alpha SAM rpt 3, SAM. Cytoplasm, Cytoplasmic vesicle, Coiled coil, Repeat, Phosphoprotein. COMPBIAS: Basic and acidic residues, COMPBIAS: Polar residues, DOMAIN:SAM, DOMAIN:SAM 1, DOMAIN:SAM 2, DOMAIN:SAM 3, REGION: Disordered, RNA polymerase II subunit A(POLRZA) Related Genes Homo sapiens CARM1 and Regulation of the Estrogen Receptor, Repression of Pain Sensation by the Transcriptional Regulator DREAM, Chromatin Remodeling by hSWI/SNF ATP-dependent Complexes, The Information-processing pathway at the IFN-beta enhancer, Nuclear receptors coordinate the activities of chromatin remodeling complexes and coactivators to facilitate inition of transcription in carcinoma cells, Telomerase, Cellular Aging, and Immortality. Transcription, RNA-templated, DNA-templated transcription, termination, regulation of transcription, DNA-templated, transcription from R polymerase II promoter, response to organic cyclic compound, positive regulation of RNA splicing, cellular response to oxygen levels. NNA-directed RNA polymerase complex, euchromatin, Prp19 complex, nucleus, nucleoplasm, DNA-directed RNA polymerase II, core complex, chromosome, cytoplasm, core promoter sequence-specific DNA binding, RNA polymerase II activity, DNA-directed RNA polymerase II, core complex, chromosome, cytoplasm, core promoter sequence-specific DNA binding, RNA polymerase II activity, DNA-directed S'-3' RNA polymerase activity, protein binding, kinase binding, ubiquitin protein ligase binding, metal ion binding, microfibri binding, protein specific chromatin binding, RNA pol II repeat euk, RNA pol asu, RNA pol N, RNA pol Rpb1 3, RNA pol Rpb1 3, RNA pol Rpb1 6, RNA pol Rpb1 1, RNA pol Rpb1 5, RNA pol Rpb1 4, Rpb1 funnel sf, RNA pol Rpb1 7, Sf, RNA pol Rpb1 3, Sf, RNA pol Rpb1 1, RNA pol Rpb1 5, RNA pol Rpb1 6, RNA pol Rpb1 1, RNA pol Rpb1 5, RNA pol Rpb1 6, RNA pol Rpb1 6, RNA pol Rpb1 6, RNA pol Rpb1 6, RNA pol Rpb1 1, RNA pol Rpb1 6, RNA pol Rpb1 6, RNA pol R	
ARAT P_KW_CELLULAR_COMPONENT P_KW_DOMAIN P_KW_PTM P_SEQ_FEATURE OCARTA OCARTA OTERM_BP_DIRECT OTERM_CC_DIRECT OTERM_MF_DIRECT OTERM_MF_DIRECT OTERM_MF_DIRECT OTERM_MF_DIRECT OTERM_MF_DIRECT OTERM_CC_DIRECT OTERM_MF_DIRECT OTERM_MF_DIRECT OTERM_MF_DIRECT OTERM_CC_DIRECT OTERM_MF_DIRECT OTERM_MF_DIRECT OTERM_CC_DIRECT OTERM_MF_DIRECT OTERM_CC_DIRECT OTERM_MF_DIRECT OTERM_CC_DIRECT OTERM	SAM, SAM/pointed sf, Liprin, Liprin-alpha SAM rpt 1, Liprin-alpha SAM rpt 2, Liprin-alpha SAM rpt 3, SAM, Cytoplasmic vesicle. Coiled coil, Repeat, Phosohoprotein. COMPBIAS: Basic and acidic residues, COMPBIAS: Polar residues, DOMAIN:SAM, DOMAIN:SAM 1, DOMAIN:SAM 2, DOMAIN:SAM 3, REGION: Disordered, ENA polymerase II subunit A(POLR2A) CARM1 and Regulation of the Estrogen Receptor, Repression of Pain Sensation by the Transcriptional Regulator DREAM, Chromatin Remodeling by hSWI/SNF ATP-dependent Complexes, The information-processing pathway at the IFN-beta enhancer, Nuclear receptors coordinate the activities of chromatin remodeling complexes and coactivators to facilitate initiation of transcription in carcinoma cells, Telomerase, Cellular Aging, and Immortality, transcription, RNA-templated, DNA-templated transcription, termination, regulation of transcription, DNA-templated, transcription from Rolymerase II promoter, response to organic cyclic compound, positive regulation of RNA splicing, cellular response to oxygen levels, DNA-directed RNA polymerase complex, euchromatin, Pro19 complex, nucleus, nucleoplasm, DNA-directed RNA polymerase II, core complex, chromosome, cytoplasm. Core promoter sequence-specific DNA binding, RNA polymerase II activity, DNA binding, RNA binding, DNA-directed 5'-3' RNA polymerase activity, protein binding, kinase binding, ubiquitin protein liques binding, metal ion binding, microfibril binding, promoter-specific DNA polymerase activity, protein binding, kinase binding, ubiquitin protein liques binding, metal ion binding, microfibril binding, promoter-specific Chromatin binding, RNA pol II repeat euk, RNA pol asy, RNA pol N, RNA pol Rpb1 3, RNA pol Rpb1 3, RNA pol Rpb1 6, RNA pol Rpb1 1, RNA pol Rpb1 5, RNA pol Rpb1 4, Rpb1 funnel sf, RNA pol Rpb1 7 sf, RNA pol Rpb1 3 sf, RNA pol Rpb1 clamp domain, DNA-dir RpoC beta prime, RNA pol II repeat euk, RNA pol Rpb1 4, Rpb1 funnel sf, RNA pol Rpb1 7 sf, RNA pol Rpb1 3 sf, RNA pol Rpb1 clamp domain, DNA-dir RpoC beta prime, RNA	

expression; when associated with R-1838; R-1859; R-1866; R-1873; R-1887; R-1908 and R-1922., MUTAGEN:K->R: Loss of acetylation and loss of regulation of growth-factor-induced gene expression; when associated with R-1838; R-1859; R-1866; R-1873; R-1887; R-1908 and R-1936., MUTAGEN:K->R: Loss of acetylation and loss of regulation of growth-factor-induced gene expression; when associated with R-1838; R-1859; R-1866; R-1873; R-1908; R-1922 and R-1936., MUTAGEN:K->R: Loss of acetylation and loss of regulation of growth-factor-induced gene expression; when associated with R-1838; R-1859; R-1866; R-1887; R-1908; R-1922 and R-1936., MUTAGEN:K->R: Loss of acetylation and loss of regulation of growth-factor-induced gene expression; when associated with R-1838; R-1866; R-1873; R-1887; R-1908; R-1922 and R-1936., MUTAGEN:K->R: Loss of acetylation and loss of regulation of growth-factor-induced gene expression; when associated with R-1859; R-1859; R-1873; R-1887; R-1908; R-1922 and R-1936., MUTAGEN:K->R: Loss of acetylation and loss of regulation of growth-factor-induced gene expression; when associated with R-1859; R-1866; R-1873; R-1887; R-1908; R-1922 and R-1936. MUTAGEN:K->R: Loss of acetylation and loss of regulation of growth-factor-induced gene expression; when associated with R.1838; R-1859; R-1866; R-1873; R-1887; R-1922 and R-1936., MUTAGEN:Missing: Decreases cell viability., MUTAGEN:R->A: Misexpression of a variety of small nuclear RNAs and small nucleolar RNAs. Loss of interaction with TDRD3 and SMN1/SMN2., REGION:Bridging helix, REGION:C-terminal domain (CTD); 52 X 7 AA approximate tandem repeats of Y-[ST]-P-[STQ]-[ST]-P-[SRTEVKGN], REGION:Disordered, REPEAT:1, REPEAT:11, REPEAT:12, REPEAT:13, REPEAT:14, REPEAT:15, REPEAT:16, REPEAT:17, REPEAT:18, REPEAT:19, REPEAT:20, REPEAT:21, REPEAT:22, REPEAT:23, REPEAT:24, REPEAT:25, REPEAT:26, REPEAT:27, REPEAT:28, REPEAT:29, REPEAT:2; approximate, REPEAT:3, REPEAT:30, REPEAT:31, REPEAT:32, REPEAT:33, REPEAT:34, REPEAT:35, REPEAT:36, REPEAT:37, REPEAT:38, REPEAT:39, REPEAT:4, REPEAT:40, REPEAT:41, REPEAT:42, REPEAT:43, REPEAT:44, REPEAT:45, REPEAT:46, REPEAT:47, REPEAT:48, REPEAT:49, REPEAT:5, REPEAT:50, REPEAT:51; approximate, REPEAT:52; approximate, REPEAT:50, REPEAT:7, REPEAT:8, REPEAT:9,

RNA polymerase III subunit A(POLR3A) POLR3A GOTERM_BP_DIRECT transcription, DNA-templated, transcription from RNA polymerase III promoter, positive regulation of interferon-beta production, tRNA transcription from RNA polymerase III promoter, innate immune response, defense response to virus, GOTERM_CC_DIRECT DNA-directed RNA polymerase complex, nucleus, nucleoplasm, DNA-directed RNA polymerase III complex, cytoplasm, cytosol, membrane, nuclear lumen, **GOTERM MF DIRECT** magnesium ion binding, RNA polymerase III activity, DNA binding, chromatin binding, DNA-directed 5'-3' RNA polymerase activity, protein binding, zinc ion binding, metal ion binding, DNA/RNA hybrid binding

RNA pol asu, RNA pol N, RNA pol Rpb1 3, RNA pol Rpb1 1, RNA pol Rpb1 5, RNA pol Rpb1 4, RNAP III RPC1 N, RNAP III Rpc1 C, Rpb1 funnel sf, RNA pol Rpb1 3 sf, RNA pol Rpb1 clamp domain, DNA-dir RpoC beta prime, **INTERPRO**

KEGG_PATHWAY RNA polymerase, Cytosolic DNA-sensing pathway,

OMIM_DISEASE Wiedemann-Rautenstrauch syndrome, Leukodystrophy, hypomyelinating, 7, with or without oligodontia and/or hypogonadotropic hypogonadism,

UP_KW_BIOLOGICAL_PROCESS Antiviral defense, Immunity, Innate immunity, Transcription, UP_KW_CELLULAR_COMPONENT

UP_KW_LIGAND

DNA-directed RNA polymerase, Nucleus, Cytoplasm, DNA-directed RNA polymerase,

UP_KW_DISEASE Disease variant, Leukodystrophy, UP_KW_LIGAND Magnesium, Metal-binding, Zinc, UP_KW_MOLECULAR_FUNCTION Nucleotidyltransferase, Transferase, UP_KW_PTM

Lectin,

UP_SEQ_FEATURE DOMAIN: RNA polymerase N-terminal, DOMAIN: RNA polymerase Rpb1, REGION: Bridging helix,

ADGRL1 adhesion G protein-coupled receptor L1(ADGRL1) **Related Genes Homo sapiens** GOTERM_BP_DIRECT heterophilic cell-cell adhesion via plasma membrane cell adhesion molecules, cell surface receptor signaling pathway, G-protein coupled receptor signaling pathway, adenylate cyclase-activating G-protein coupled receptor signaling pathway, calcium-mediated signaling using intracellular calcium source, positive regulation of synapse maturation GOTERM_CC_DIRECT plasma membrane, membrane, axon, growth cone, presynaptic membrane, neuron projection, synapse,

GOTERM_MF_DIRECT G-protein coupled receptor activity, protein binding, latrotoxin receptor activity, carbohydrate binding, cell adhesion molecule binding, **INTERPRO** GPS, GPCR 2 secretin-like, Lectin gal-bd dom, GPCR 2 extracellular dom, Olfac-like dom, GPCR 2 latrophilin rcpt C,

GPCR 2 latrophilin, GPCR 2-like 7TM, GPCR 2 secretin-like CS, Latrophilin-1 TM, GAIN dom N, GPCR 2 extracell dom sf, Lectin galbd sf, GAIN dom sf, OMIM DISEASE

Developmental delay, behavioral abnormalities, and neuropsychiatric disorders, HormR, OLF, GPS,

UP_KW_CELLULAR_COMPONENT Membrane, Synapse, Synaptosome, Cell projection, Cell membrane, UP_KW_DISEASE Disease variant, Intellectual disability, Autism spectrum disorder, UP_KW_DOMAIN Signal, Transmembrane, Transmembrane helix,

UP_KW_MOLECULAR_FUNCTION G-protein coupled receptor, Receptor, Transducer,

UP_KW_PTM <u>Autocatalytic cleavage</u>, <u>Glycoprotein</u>, <u>Methylation</u>, <u>Phosphoprotein</u>, <u>Disulfide bond</u>,

CARBOHYD:N-linked (GlcNAc...) asparagine, COMPBIAS:Polar residues, COMPBIAS:Pro residues, DOMAIN:GAIN, DOMAIN:GPCR family 2 UP_SEQ_FEATURE latrophilin C-terminal, DOMAIN:GPS, DOMAIN:Olfactomedin-like, DOMAIN:SUEL-type lectin, REGION:Disordered, SITE:Cleavage; by autolysis, TOPO_DOM:Cytoplasmic, TOPO_DOM:Extracellular, TRANSMEM:Helical; Name=1, TRANSMEM:Helical; Name=2, TRANSMEM:Helical; Name=3, TRANSMEM:Helical; Name=4, TRANSMEM:Helical; Name=5, TRANSMEM:Helical; Name=6, TRANSMEM: Helical; Name=7

CDH2 **Related Genes** GOTERM_BP_DIRECT cell morphogenesis, type B pancreatic cell development, cell-cell junction assembly, cell adhesion, homophilic cell adhesion via plasma membrane adhesion molecules, heterophilic cell-cell adhesion via plasma membrane cell adhesion molecules, multicellular organism

development, synapse assembly, brain development, glial cell differentiation, neural crest cell development, calcium-dependent cell-cell adhesion via plasma membrane cell adhesion molecules, cerebral cortex development, adherens junction organization, detection of muscle stretch, positive regulation of MAPK cascade, cell-cell adhesion mediated by cadherin, blood vessel morphogenesis, brain morphogenesis, homeostasis of number of cells, regulation of axonogenesis, striated muscle cell differentiation, regulation of synaptic transmission, glutamatergic, radial glial cell differentiation, neuroepithelial cell differentiation, regulation of oligodendrocyte progenitor proliferation protein localization to plasma membrane, negative regulation of canonical Wnt signaling pathway, mesenchymal cell migration, synaptic vesicle clustering, neuroligin clustering involved in postsynaptic membrane assembly, neuronal stem cell population maintenance, cell-cell adhesion, regulation of postsynaptic density protein 95 clustering, positive regulation of synaptic vesicle clustering,

GOTERM_CC_DIRECT cytoplasm, endoplasmic reticulum lumen, plasma membrane, cell-cell junction, adherens junction, fascia adherens, focal adhesion, cell surface, postsynaptic density, intercalated disc, membrane, basolateral plasma membrane, apical plasma membrane, apicolateral plasma membrane, catenin complex, lamellipodium, cell junction, desmosome, cortical actin cytoskeleton, sarcolemma, neuron projection, plasma

membrane raft, apical part of cell, presynapse, **GOTERM MF DIRECT** RNA binding, calcium ion binding, protein binding, beta-catenin binding, protein kinase binding, protein phosphatase binding, identical protein binding, alpha-catenin binding, gamma-catenin binding, cadherin binding, Cadherin Y-type LIR, PH domain, Cadherin-like dom, Cadherin pro dom, Cadherin-like sf, Cadherin CS, Catenin-bd sf, Cadherin, **INTERPRO**

KEGG PATHWAY <u>Cell adhesion molecules</u>, <u>Arrhythmogenic right ventricular cardiomyopathy</u>,

OMIM_DISEASE Arrhythmogenic right ventricular dysplasia 14, Agenesis of corpus callosum, cardiac, ocular, and genital syndrome, Attention deficithyperactivity disorder 8,

SMART CA, Cadherin pro, UP_KW_BIOLOGICAL_PROCESS

UP_KW_CELLULAR_COMPONENT Membrane, Cell junction, Cell membrane, UP_KW_DISEASE Cardiomyopathy, Disease variant, Intellectual disability, UP_KW_DOMAIN Repeat, Signal, Transmembrane, Transmembrane helix,

Cell adhesion

UP_KW_LIGAND Calcium, Metal-binding UP_KW_PTM Cleavage on pair of basic residues, Glycoprotein, Phosphoprotein,

CARBOHYD:N-linked (GlcNAc...) asparagine, COMPBIAS:Polar residues, DOMAIN:Cadherin, DOMAIN:Cadherin 1, DOMAIN:Cadherin 2, UP SEQ FEATURE DOMAIN:Cadherin 3, DOMAIN:Cadherin 4, DOMAIN:Cadherin 5, DOMAIN:PH, REGION:Disordered, TOPO_DOM:Cytoplasmic,

TOPO_DOM:Extracellular, TRANSMEM:Helical, CAMK2D calcium/calmodulin dependent protein kinase II delta(CAMK2D) Related Genes **BIOCARTA**

extracellular signals, Regulation of PGC-1a, Stathmin and breast cancer resistance to antimicrotubule agents GOTERM BP DIRECT regulation of cell growth, regulation of the force of heart contraction, regulation of membrane depolarization, regulation of transcription from RNA polymerase II promoter, protein phosphorylation, regulation of heart contraction, positive regulation of cardiac muscle hypertrophy, regulation of cell communication by electrical coupling, positive regulation of cardiac muscle cell apoptotic process, regulation of release of sequestered calcium ion into cytosol by sarcoplasmic reticulum, regulation of cardiac muscle contraction by regulation of the release of sequestered calcium ion, phosphorylation, peptidyl-serine phosphorylation, peptidyl-threonine phosphorylation, endoplasmic reticulum calcium ion homeostasis, protein autophosphorylation, relaxation of cardiac muscle, regulation of ryanodine-sensitive calcium-release channel activity, regulation of cellular localization, cellular response to calcium ion, cardiac muscle cell contraction, regulation of heart rate by

cardiac conduction, regulation of cardiac muscle cell action potential, regulation of cardiac muscle cell action potential involved in regulation of contraction, regulation of cell communication by electrical coupling involved in cardiac conduction, regulation of relaxation of cardiac muscle, negative regulation of sodium ion transmembrane transport, regulation of calcium ion transmembrane transport via high voltagegated calcium channel, negative regulation of sodium ion transmembrane transporter activity,

Bioactive Peptide Induced Signaling Pathway, Ca++/ Calmodulin-dependent Protein Kinase Activation, Transcription factor CREB and its

GOTERM_CC_DIRECT nucleus, nucleoplasm, cytoplasm, cytosol, calcium- and calmodulin-dependent protein kinase complex, membrane, endocytic vesicle membrane, sarcoplasmic reticulum membrane, sarcolemma, neuron projection, organelle

AM DAVID: Database for Annotation, Visualization, and Integrated Discovery (Laboratory of Human Retrovirology and Immunoinformatics (LHRI); National Institute of Allergies and Infectious Diseases...

ATP2B1	ATPase plasma membrane Ca2+ transporting 1(ATP2B1) Related Genes Homo sapiens
SMART	<u>FGF</u> ,
UP_KW_BIOLOGICAL_PROCESS	Neurogenesis,
UP_KW_CELLULAR_COMPONENT	Membrane, Microtubule, Nucleus, Cytoplasm, Cell projection, Cell membrane,
UP_KW_DISEASE	Disease variant, Epilepsy, Intellectual disability,
UP_KW_PTM	Phosphoprotein,
JP_SEQ_FEATURE	COMPBIAS:Basic and acidic residues, MUTAGEN:P->Q: Loss of interaction with SCN1A., REGION:Disordered, REGION:Mediates interaction
	with sodium channels, REGION:Mediates targeting to the nucleus,
MACF1	microtubule actin crosslinking factor 1(MACF1) Related Genes Homo sapiens
GOTERM_BP_DIRECT	regulation of epithelial cell migration, Wnt signaling pathway, positive regulation of Wnt signaling pathway, regulation of cell migration,
	regulation of microtubule-based process, wound healing, Golgi to plasma membrane protein transport, intermediate filament cytoskeletor
	organization, positive regulation of axon extension, regulation of focal adhesion assembly,
GOTERM_CC_DIRECT	cytoplasm, Golgi apparatus, cytoskeleton, microtubule, intermediate filament, plasma membrane, actin cytoskeleton, membrane, cell junction, ruffle membrane, cell projection,
COTERM ME DIRECT	
GOTERM_MF_DIRECT	RNA binding, actin binding, structural molecule activity, calcium ion binding, protein binding, microtubule binding, cadherin binding, microtubule minus-end binding, actin filament binding,
NTERPRO	Plectin repeat, SH3 domain, Actinin actin-bd CS, CH dom, Spectrin repeat, EF hand dom, GAR dom, EF-hand-dom pair, Spectrin/alp
	actinin, EF Hand 1 Ca BS, Plakin repeat sf, GAR dom sf, CH dom sf, MCAF1-like, Desmoplakin Spectrin-like, Desmoplakin SH3, Plakin repeat sf, GAR dom sf, MCAF1-like, Desmoplakin Spectrin-like, Desmoplakin SH3, Plakin repeat sf, GAR dom sf, MCAF1-like, Desmoplakin Spectrin-like, Desmoplakin SH3, Plakin repeat sf, GAR dom sf, MCAF1-like, Desmoplakin Spectrin-like, Desmoplakin SH3, Plakin repeat sf, GAR dom sf, MCAF1-like, Desmoplakin Spectrin-like, Desmoplakin SH3, Plakin repeat sf, GAR dom sf, MCAF1-like, Desmoplakin Spectrin-like, Desmoplakin SH3, Plakin repeat sf, GAR dom sf, MCAF1-like, Desmoplakin Sh3, Plakin repeat sf, GAR dom sf, MCAF1-like, Desmoplakin Sh3, MCAF1-like,
DMIM_DISEASE	Lissencephaly 9 with complex brainstem malformation,
SMART	CH, EFh, SPEC, GAS2, PLEC, DELLA,
UP_KW_BIOLOGICAL_PROCESS	Wnt signaling pathway,
UP_KW_CELLULAR_COMPONENT	Cytoskeleton, Golgi apparatus, Membrane, Microtubule, Cytoplasm, Cell projection, Cell membrane,
UP_KW_DISEASE	Disease variant, Lissencephaly,
UP_KW_DOMAIN	Coiled coil, Leucine-rich repeat, Repeat, SH3 domain, Transmembrane, Transmembrane helix,
UP_KW_LIGAND	Calcium, Metal-binding,
JP_KW_MOLECULAR_FUNCTION	Actin-binding,
JP_KW_PTM	Acetylation, Phosphoprotein,
UP_SEQ_FEATURE	COMPBIAS:Basic and acidic residues, COMPBIAS:Polar residues, COMPBIAS:Pro residues, DOMAIN:Calponin-homology (CH), DOMAIN:Calponin-homology (CH) 1, DOMAIN:Calponin-homology (CH) 2, DOMAIN:EF-hand, DOMAIN:EF-hand 1, DOMAIN:EF-hand 2, DOMAIN:GAR, DOMAIN:SH3, REGION:13 X 13 AA approximate tandem repeat of P-T-S-P-A-A-V-P-T-P-E-E, REGION:4 X 4 AA tandem repeats of [GS]-S-R-[AR], REGION:C-terminal tail, REGION:Disordered, REPEAT:1, REPEAT:10, REPEAT:11, REPEAT:11, REPEAT:12, REPEAT:2, REPEAT:3, REPEAT:4, REPEAT:5, REPEAT:6, REPEAT:7, REPEAT:8, REPEAT:9, REPEAT:LRR 1, REPEAT:LRR 10, REPEAT:LRR 11, REPEAT:LRR 12, REPEAT:LRR 13, REPEAT:LRR 14, REPEAT:LRR 15, REPEAT:LRR 16, REPEAT:LRR 17, REPEAT:LRR 18, REPEAT:LRR 19, REPEAT:LRR 2, REPEAT:LRR 20, REPEAT:LRR 21, REPEAT:LRR 22, REPEAT:LRR 24, REPEAT:LRR 24, REPEAT:LRR 24, REPEAT:LRR 24, REPEAT:LRR 17, REPEAT:Plectin 11, REPEAT:Plectin 11, REPEAT:Plectin 10, REPEAT:Plectin 11, REPEAT:Plectin 2, REPEAT:Plectin 3, REPEAT:Plectin 4, REPEAT:Plectin 5, REPEAT:Plectin 6, REPEAT:Plectin 17, REPEAT:Plectin 11, REPEAT:Spectrin 12, REPEAT:Spectrin 13, REPEAT:Spectrin 14, REPEAT:Spectrin 15, REPEAT:Spectrin 3, REPEAT:Spectrin 16, REPEAT:Spectrin 2, REPEAT:Spectrin 3, REPEAT:Spectrin 4, REPEAT:Spectrin 4, REPEAT:Spectrin 6, REPEAT:Spectrin 6, REPEAT:Spectrin 7, REPEAT:Spectrin
	4, REPEAT:Spectrin 5, REPEAT:Spectrin 6, REPEAT:Spectrin 7, REPEAT:Spectrin 8, REPEAT:Spectrin 9, TRANSMEM:Helical,
MSX2	msh homeobox 2(MSX2) Related Genes Homo sapiens
GOTERM_BP_DIRECT	negative regulation of transcription from RNA polymerase II promoter, osteoblast differentiation, chondrocyte development, osteoblast
	development, outflow tract septum morphogenesis, cardiac conduction system development, epithelial to mesenchymal transition involve endocardial cushion formation, endochondral bone growth, regulation of transcription from RNA polymerase II promoter, negative regulation of cell proliferation, anterior/posterior pattern specification, signal transduction involved in regulation of gene expression, BMP signaling pathway, positive regulation of BMP signaling pathway, embryonic forelimb morphogenesis, embryonic hindlimb morphogenesis, wound healing, spreading of epidermal cells, embryonic nail plate morphogenesis, negative regulation of apoptotic process, negative regulation fat cell differentiation, negative regulation of keratinocyte differentiation, positive regulation of osteoblast differentiation, negative regulation of transcription, DNA-templated, embryonic morphogenesis, stem cell differentiation, positive regulation of timing of catagen, bone trabe formation, cranial suture morphogenesis, frontal suture morphogenesis, branching involved in mammary gland duct morphogenesis, cell surface receptor signaling pathway involved in heart development, enamel mineralization, cellular response to estradiol stimulus, activati
	of meiosis, mesenchymal cell apoptotic process, positive regulation of mesenchymal cell apoptotic process,
GOTERM_CC_DIRECT	chromatin, nucleus, transcription factor complex, cytosol, nuclear speck,
GOTERM_MF_DIRECT	transcription regulatory region sequence-specific DNA binding, RNA polymerase II regulatory region sequence-specific DNA binding, RNA polymerase II core promoter proximal region sequence-specific DNA binding, RNA polymerase II transcription factor activity, sequence-specific DNA binding, transcriptional repressor activity, RNA polymerase II transcription regulatory region sequence-specific binding, proteinding, sequence-specific DNA binding, sequence-specific double-stranded DNA binding,
INTERPRO	Homeobox dom, Homeobox-like sf, Homeobox CS, Homeobox metazoa,
KEGG_PATHWAY	Human T-cell leukemia virus 1 infection,
OMIM_DISEASE	Parietal foramina 1, Parietal foramina with cleidocranial dysplasia, Craniosynostosis 2,
SMART	HOX,
JP_KW_BIOLOGICAL_PROCESS	Transcription, Transcription regulation, Osteogenesis,
JP_KW_CELLULAR_COMPONENT	Nucleus,
JP_KW_DISEASE	Disease variant, Craniosynostosis,
JP_KW_DOMAIN	
	Homeobox,
JP_KW_MOLECULAR_FUNCTION	Developmental protein, DNA-binding, Repressor, Developmental protein,
JP_SEQ_FEATURE	DNA_BIND:Homeobox, MUTAGEN:T->A: Does not bind DNA but still suppresses OCFRE activation., REGION:Disordered,
PABPC1	poly(A) binding protein cytoplasmic 1(PABPC1) Related Genes Homo sapiens
BIOCARTA	Regulation of eIF4e and p70 S6 Kinase,
GOTERM_BP_DIRECT	nuclear-transcribed mRNA catabolic process, nonsense-mediated decay, mRNA splicing, via spliceosome, mRNA polyadenylation, gene
	silencing by RNA, positive regulation of viral genome replication, mRNA stabilization, positive regulation of nuclear-transcribed mRNA poltail shortening, CRD-mediated mRNA stabilization, negative regulation of nuclear-transcribed mRNA catabolic process, deadenylation-dependent decay, positive regulation of nuclear-transcribed mRNA catabolic process, deadenylation-dependent decay, negative regulation nuclear-transcribed mRNA catabolic process, nonsense-mediated decay, positive regulation of cytoplasmic translation,
GOTERM_CC_DIRECT	nucleus, cytoplasm, cytosol, focal adhesion, cytoplasmic stress granule, membrane, lamellipodium, cell leading edge, cytoplasmic ribonucleoprotein granule, extracellular exosome, catalytic step 2 spliceosome, ribonucleoprotein complex,
GOTERM_MF_DIRECT	RNA binding, mRNA binding, mRNA 3'-UTR binding, protein binding, poly(A) binding, poly(U) RNA binding, translation activator activity,
NTERPRO	RRM dom, PABP HYD, RRM dom euk, PABP 1234, Nucleotide-bd a/b plait sf, PABP RRM1, RBD domain sf, PABP-dom, RRM2 I PABP
(EGG_PATHWAY	mRNA surveillance pathway, RNA degradation,
SMART	
	RRM, RRM 1, PolyA,
JP_KW_BIOLOGICAL_PROCESS	mRNA processing, mRNA splicing, Nonsense-mediated mRNA decay, Host-virus interaction,
IP_KW_CELLULAR_COMPONENT	Nucleus, Spliceosome, Cytoplasm, Cell projection,
IP_KW_DOMAIN	<u>Repeat,</u>
JP_KW_MOLECULAR_FUNCTION	RNA-binding,
JP_KW_PTM	Acetylation, Methylation, Phosphoprotein,
JP_SEQ_FEATURE	COMPBIAS:Polar residues, DOMAIN:PABC, DOMAIN:RRM, DOMAIN:RRM 1, DOMAIN:RRM 2, DOMAIN:RRM 3, DOMAIN:RRM 4, MUTAGEN: >A: Greatly reduces methylation by CARM1 (in vitro); when associated with A-455., MUTAGEN:R->A: Greatly reduces methylation by CA (in vitro); when associated with A-460., REGION:(Microbial infection) Binding to HRSV M2-1 protein, REGION:CSDE1-binding, REGION:Disordered,
PJA1	praja ring finger ubiquitin ligase 1(PJA1) Related Genes Homo sapiens
GOTERM_BP_DIRECT	protein catabolic process,
GOTERM_CC_DIRECT	<u>cytoplasm</u> ,
	protein binding, ligase activity, metal ion binding, ubiquitin protein ligase activity,
GOTERM_MF_DIRECT	Znf RING, Znf RING/FYVE/PHD,
NTERPRO	
NTERPRO SMART	RING,
NTERPRO SMART UP_KW_BIOLOGICAL_PROCESS	RING, Ubl conjugation pathway,
NTERPRO SMART JP_KW_BIOLOGICAL_PROCESS JP_KW_DOMAIN	RING, Ubl conjugation pathway, Zinc-finger,
NTERPRO SMART JP_KW_BIOLOGICAL_PROCESS JP_KW_DOMAIN JP_KW_LIGAND	RING, Ubl conjugation pathway, Zinc-finger, Metal-binding, Zinc,
NTERPRO SMART JP_KW_BIOLOGICAL_PROCESS JP_KW_DOMAIN JP_KW_LIGAND JP_KW_MOLECULAR_FUNCTION	RING, Ubl conjugation pathway, Zinc-finger, Metal-binding, Zinc, Ligase, Transferase,
NTERPRO SMART JP_KW_BIOLOGICAL_PROCESS JP_KW_DOMAIN JP_KW_LIGAND JP_KW_MOLECULAR_FUNCTION JP_KW_PTM	RING, Ubl conjugation pathway, Zinc-finger, Metal-binding, Zinc, Ligase, Transferase, Phosphoprotein, Ubl conjugation,
NTERPRO SMART JP_KW_BIOLOGICAL_PROCESS JP_KW_DOMAIN JP_KW_LIGAND JP_KW_MOLECULAR_FUNCTION JP_KW_PTM	RING, Ubl conjugation pathway, Zinc-finger, Metal-binding, Zinc, Ligase, Transferase,
NTERPRO SMART JP_KW_BIOLOGICAL_PROCESS JP_KW_DOMAIN JP_KW_LIGAND JP_KW_MOLECULAR_FUNCTION JP_KW_PTM JP_SEQ_FEATURE	RING, Ubl conjugation pathway, Zinc-finger, Metal-binding, Zinc, Ligase, Transferase, Phosphoprotein, Ubl conjugation,
NTERPRO SMART JP_KW_BIOLOGICAL_PROCESS JP_KW_DOMAIN JP_KW_LIGAND JP_KW_MOLECULAR_FUNCTION JP_KW_PTM JP_SEQ_FEATURE PRPF8	RING, Ubl conjugation pathway, Zinc-finger, Metal-binding, Zinc, Ligase, Transferase, Phosphoprotein, Ubl conjugation, COMPBIAS: Basic and acidic residues, COMPBIAS: Polar residues, DOMAIN: RING-type, REGION: Disordered, ZN_FING: RING-type, pre-mRNA processing factor 8(PRPF8) Related Genes spliceosomal tri-snRNP complex assembly, RNA splicing, via transesterification reactions, mRNA splicing, via spliceosome, mRNA processi
GOTERM_MF_DIRECT INTERPRO SMART UP_KW_BIOLOGICAL_PROCESS UP_KW_DOMAIN UP_KW_LIGAND UP_KW_MOLECULAR_FUNCTION UP_KW_PTM UP_SEQ_FEATURE PRPF8 GOTERM_BP_DIRECT GOTERM_CC_DIRECT	RING, Ubl conjugation pathway, Zinc-finger, Metal-binding, Zinc, Ligase, Transferase, Phosphoprotein, Ubl conjugation, COMPBIAS:Basic and acidic residues, COMPBIAS:Polar residues, DOMAIN:RING-type, REGION:Disordered, ZN_FING:RING-type, pre-mRNA processing factor 8(PRPF8) Related Genes Homo sapiens

DAVID: Database for Annotation, Visualization, and Integrated Discovery (Laboratory of Human Retrovirology and Immunoinformatics (LHRI); National Institute of Allergies and Infectious Diseases...

OTERM ME DIRECT	ATPase plasma membrane Ca2+ transporting 1(ATP2B1)	Related Genes Homo sapiens 1.11 cpPNA binding 112 cpPNA binding 115 cpPNA binding 113 cpPNA binding 115 cpPNA binding 1
GOTERM_MF_DIRECT	RNA binding, protein binding, metallopeptidase activity, U6 snRNA binding linked polyubiquitin binding, pre-mRNA intronic binding,	y, <u>ut snkiva binding, uz snkiva binding, US snkiva binding, K63</u>
NTERPRO	JAMM/MPN+ dom, RNaseH-like sf, PRO8NT, PROCN, PROCT, Prp8 U6-snl	
	PRP8 domainIV, PRP8, MPN, Prp8 U5-snRNA-bd sf, Prp8 domainIV palm	n, <u>Prp8_domainIV_fingers</u> ,
(EGG_PATHWAY	Spliceosome,	
DMIM_DISEASE	Retinitis pigmentosa 13,	
SMART	JAB MPN,	
IP_KW_BIOLOGICAL_PROCESS	mRNA processing, mRNA splicing,	
JP_KW_CELLULAR_COMPONENT	Nucleus, Spliceosome,	
IP_KW_DISEASE	Disease variant, Retinitis pigmentosa,	
IP_KW_MOLECULAR_FUNCTION	Ribonucleoprotein, RNA-binding,	
JP_KW_PTM	Acetylation, Methylation, Phosphoprotein,	OCH DOMAIN PROCT DOMAIN BNA
JP_SEQ_FEATURE	COMPBIAS:Polar residues, DOMAIN:MPN, DOMAIN:PRO8NT, DOMAIN:PRO PrP8, MUTAGEN:T->P: Strongly reduced interaction with RNA., MUTAGEN:	
	REGION:Important for branch point selection, REGION:Involved in interaction	ction with pre-mRNA 5' splice site, REGION:Linker, REGION:RNa
	H homology domain, REGION:Required for interaction with EFTUD2 and S REGION:Reverse transcriptase homology domain,	NRNP200, REGION:Restriction endonuclease homology domain
PP3CA	protein phosphatase 3 catalytic subunit alpha(PPP3CA)	Related Genes Homo sapiens
BIOCARTA	BCR Signaling Pathway, Effects of calcineurin in Keratinocyte Differentiation	
	Epsilon Receptor I Signaling in Mast Cells, fMLP induced chemokine gene	expression in HMC-1 cells, Signaling Pathway from G-Protein
	Families, Control of skeletal myogenesis by HDAC & calcium/calmodulin-d Endocytotic role of NDK, Phosphins and Dynamin, NFAT and Hypertrophy	
	Signaling Pathway, Regulation of PGC-1a, T Cell Receptor Signaling Pathw	
	<u>T cells</u> ,	
GOTERM_BP_DIRECT	G1/S transition of mitotic cell cycle, response to amphetamine, protein de epidermis development, positive regulation of gene expression, negative	
	fiber, cardiac muscle hypertrophy in response to stress, dephosphorylation	n, negative regulation of signaling, keratinocyte differentiation,
	positive regulation of cell migration, calcineurin-NFAT signaling cascade, r	
	regulation of activated T cell proliferation, T cell activation, skeletal muscl differentiation, positive regulation of osteoclast differentiation, positive re	
	regulation of transcription from RNA polymerase II promoter, negative rec	gulation of insulin secretion, positive regulation of saliva secretion
	skeletal muscle fiber development, dendrite morphogenesis, negative reg transmission, response to calcium ion, excitatory postsynaptic potential, r	
	peptidyl-serine dephosphorylation, positive regulation of calcineurin-NFAT	signaling cascade, cellular response to glucose stimulus, positi
	regulation of glomerulus development, renal filtration, calcineurin-mediate	ed signaling, positive regulation of cardiac muscle hypertrophy i
	response to stress, positive regulation of connective tissue replacement, pregative regulation of calcium ion import across plasma membrane,	<u>positive regulation of calcium ion import across plasma membra</u>
GOTERM_CC_DIRECT	nucleus, nucleoplasm, cytoplasm, mitochondrion, cytosol, plasma membra	ane, calcineurin complex, protein serine/threonine phosphatase
	complex, cytoplasmic side of plasma membrane, extrinsic component of p	olasma membrane, Z disc, slit diaphragm, sarcolemma, dendriti
	spine, Schaffer collateral - CA1 synapse, postsynapse, glutamatergic syna	
GOTERM_MF_DIRECT	protein serine/threonine phosphatase activity, calcium ion binding, protein phosphatase activity, enzyme binding, calmodulin-dependent protein phosphatase activity, enzyme binding, calmodulin-dependent protein phosphatase	
	dimerization activity, enzyme binding, calmodulin-dependent protein phose dimerization activity, ATPase binding,	sphatase activity, macromolecular complex binding, protein
NTERPRO	Calcineurin-like PHP ApaH, Ser/Thr-sp_prot-phosphatase, Metallo-depen	t PP-like, MPP PP2B, PP2B.
(EGG_PATHWAY	MAPK signaling pathway, Calcium signaling pathway, cGMP-PKG signaling	
	pathway, Axon guidance, VEGF signaling pathway, Osteoclast differentiation	on, C-type lectin receptor signaling pathway, Natural killer cell
	mediated cytotoxicity, Th1 and Th2 cell differentiation, Th17 cell differentiation, Long-term potentiation, Glutamatergic synapse, Dopaminergic synapse, D	
	Renin secretion, Alzheimer disease, Amyotrophic lateral sclerosis, Prion di	<u>sease, Pathways of neurodegeneration - multiple diseases,</u>
	Amphetamine addiction, Tuberculosis, Human cytomegalovirus infection,	
	herpesvirus infection, Human immunodeficiency virus 1 infection, PD-L1 e atherosclerosis,	expression and PD-1 checkpoint pathway in cancer, Lipid and
DMIM_DISEASE	Developmental and epileptic encephalopathy 91, Arthrogryposis, cleft pala	ate, craniosynostosis, and impaired intellectual development
SMART	PP2Ac,	ace, cramos, noscoso, and impaned inconsecual development,
IP_KW_CELLULAR_COMPONENT	Membrane, Synapse, Cytoplasm, Cell projection, Cell membrane,	
IP_KW_DISEASE	Disease variant, Dwarfism, Epilepsy, Craniosynostosis, Intellectual disabili	libro.
IP KW LIGAND		LLY,
	Iron, Metal-binding, Zinc,	
IP_KW_MOLECULAR_FUNCTION	Calmodulin-binding, Hydrolase, Protein phosphatase,	
JP_KW_PTM	Acetylation, Phosphoprotein, Nitration,	
JP_SEQ_FEATURE	ACT_SITE:Proton donor, COMPBIAS:Polar residues, DOMAIN:Serine/threo MUTAGEN:Missing: Loss of Ca(2+)-mediated transcription factor NFAT act	
	of Ca(2+)-mediated transcription factor NFAT activation; when associated	with F-341., MUTAGEN:Y->F: Resistant to cyclosporin A-media
	inhibition. Loss of Ca(2+)-mediated transcription factor NFAT activation; vloss in Ca(2+)-mediated transcription factor NFAT activation; when associ	
	transcription factor NFAT activation; when associated with F-341., REGIOI	
	REGION:Calcineurin B binding, REGION:Calmodulin-binding, REGION:Cat	alytic, REGION:Disordered, REGION:Interaction with PxIxIF mo
	substrate, SITE:Interaction with PxVP motif in substrate,	In a control of the c
RIMS2	regulating synaptic membrane exocytosis 2(RIMS2)	Related Genes Homo sapiens
GOTERM_BP_DIRECT	intracellular protein transport, exocytosis, adenylate cyclase-modulating (
	exocytosis, regulation of exocytosis, insulin secretion, cell differentiation, calcium ion-regulated exocytosis of neurotransmitter, positive regulation of	
	positive regulation of inhibitory postsynaptic potential, positive regulation	
	positive regulation of excitatory postsynaptic potential,	
GOTERM_CC_DIRECT	membrane, presynaptic membrane, cell projection, synapse, presynaptic	active zone, cytoskeleton of presynaptic active zone, extracellul
	<u>membrane</u> , <u>presynaptic membrane</u> , <u>cell projection</u> , <u>synapse</u> , <u>presynaptic exosome</u> ,	
GOTERM_MF_DIRECT	membrane, <u>presynaptic membrane</u> , <u>cell projection</u> , <u>synapse</u> , <u>presynaptic exosome</u> , protein binding, <u>small GTPase binding</u> , <u>ion channel binding</u> , <u>metal ion binding</u>	ding,
GOTERM_MF_DIRECT NTERPRO	membrane, presynaptic membrane, cell projection, synapse, presynaptic exosome, protein binding, small GTPase binding, ion channel binding, metal ion binding, 22 dom, PDZ, Rab BD, Znf FYVE PHD, Znf RING/FYVE/PHD, Znf FYVE-	ding,
GOTERM_MF_DIRECT NTERPRO KEGG_PATHWAY	membrane, presynaptic membrane, cell projection, synapse, presynaptic exosome, protein binding, small GTPase binding, ion channel binding, metal ion binding, 22 dom, PDZ, Rab BD, Znf FYVE PHD, Znf RING/FYVE/PHD, Znf FYVE-Insulin secretion,	ding,
GOTERM_MF_DIRECT NTERPRO KEGG_PATHWAY DMIM_DISEASE	membrane, presynaptic membrane, cell projection, synapse, presynaptic exosome, protein binding, small GTPase binding, ion channel binding, metal ion binding. C2 dom, PDZ, Rab BD, Znf FYVE PHD, Znf RING/FYVE/PHD, Znf FYVE-Insulin secretion, Cone-rod synaptic disorder syndrome, congenital nonprogressive,	ding,
GOTERM_MF_DIRECT NTERPRO (EGG_PATHWAY DMIM_DISEASE SMART	membrane, presynaptic membrane, cell projection, synapse, presynaptic exosome, protein binding, small GTPase binding, ion channel binding, metal ion binding. C2 dom, PDZ, Rab BD, Znf FYVE PHD, Znf RING/FYVE/PHD, Znf FYVE-Insulin secretion, Cone-rod synaptic disorder syndrome, congenital nonprogressive, PDZ, C2,	ding,
GOTERM_MF_DIRECT NTERPRO KEGG_PATHWAY DMIM_DISEASE SMART JP_KW_BIOLOGICAL_PROCESS	membrane, presynaptic membrane, cell projection, synapse, presynaptic exosome, protein binding, small GTPase binding, ion channel binding, metal ion bind C2 dom, PDZ, Rab BD, Znf FYVE PHD, Znf RING/FYVE/PHD, Znf FYVE-Insulin secretion, Cone-rod synaptic disorder syndrome, congenital nonprogressive, PDZ, C2, Differentiation,	ding,
GOTERM_MF_DIRECT NTERPRO (EGG_PATHWAY DMIM_DISEASE BMART JP_KW_BIOLOGICAL_PROCESS JP_KW_CELLULAR_COMPONENT	membrane, presynaptic membrane, cell projection, synapse, presynaptic exosome, protein binding, small GTPase binding, ion channel binding, metal ion binding. C2 dom, PDZ, Rab BD, Znf FYVE PHD, Znf RING/FYVE/PHD, Znf FYVE-Insulin secretion, Cone-rod synaptic disorder syndrome, congenital nonprogressive, PDZ, C2,	ding,
GOTERM_MF_DIRECT NTERPRO KEGG_PATHWAY DMIM_DISEASE BMART JP_KW_BIOLOGICAL_PROCESS JP_KW_CELLULAR_COMPONENT JP_KW_DISEASE	membrane, presynaptic membrane, cell projection, synapse, presynaptic exosome, protein binding, small GTPase binding, ion channel binding, metal ion bind C2 dom, PDZ, Rab BD, Znf FYVE PHD, Znf RING/FYVE/PHD, Znf FYVE-Insulin secretion, Cone-rod synaptic disorder syndrome, congenital nonprogressive, PDZ, C2, Differentiation,	ding,
GOTERM_MF_DIRECT NTERPRO (EGG_PATHWAY DMIM_DISEASE BMART JP_KW_BIOLOGICAL_PROCESS JP_KW_CELLULAR_COMPONENT	membrane, presynaptic membrane, cell projection, synapse, presynaptic exosome, protein binding, small GTPase binding, ion channel binding, metal ion bind C2 dom, PDZ, Rab BD, Znf FYVE PHD, Znf RING/FYVE/PHD, Znf FYVE-Insulin secretion, Cone-rod synaptic disorder syndrome, congenital nonprogressive, PDZ, C2, Differentiation, Membrane, Synapse, Cell projection, Cell membrane,	ding,
GOTERM_MF_DIRECT NTERPRO KEGG_PATHWAY DMIM_DISEASE BMART JP_KW_BIOLOGICAL_PROCESS JP_KW_CELLULAR_COMPONENT JP_KW_DISEASE	membrane, presynaptic membrane, cell projection, synapse, presynaptic exosome, protein binding, small GTPase binding, ion channel binding, metal ion binding. C2 dom, PDZ, Rab BD, Znf FYVE PHD, Znf RING/FYVE/PHD, Znf FYVE-Insulin secretion, Cone-rod synaptic disorder syndrome, congenital nonprogressive, PDZ, C2, Differentiation, Membrane, Synapse, Cell projection, Cell membrane, Disease variant,	ding,
GOTERM_MF_DIRECT NTERPRO KEGG_PATHWAY DMIM_DISEASE BMART IP_KW_BIOLOGICAL_PROCESS IP_KW_CELLULAR_COMPONENT IP_KW_DISEASE IP_KW_DOMAIN	membrane, presynaptic membrane, cell projection, synapse, presynaptic exosome, protein binding, small GTPase binding, ion channel binding, metal ion binding. C2 dom, PDZ, Rab BD, Znf FYVE PHD, Znf RING/FYVE/PHD, Znf FYVE-Insulin secretion, Cone-rod synaptic disorder syndrome, congenital nonprogressive, PDZ, C2, Differentiation, Membrane, Synapse, Cell projection, Cell membrane, Disease variant, Coiled coil, Repeat, Zinc-finger,	ding,
COTERM_MF_DIRECT NTERPRO KEGG_PATHWAY DMIM_DISEASE MART IP_KW_BIOLOGICAL_PROCESS IP_KW_CELLULAR_COMPONENT IP_KW_DISEASE IP_KW_DOMAIN IP_KW_LIGAND	membrane, presynaptic membrane, cell projection, synapse, presynaptic exosome, protein binding, small GTPase binding, ion channel binding, metal ion bind C2 dom, PDZ, Rab BD, Znf FYVE PHD, Znf RING/FYVE/PHD, Znf FYVE-Insulin secretion, Cone-rod synaptic disorder syndrome, congenital nonprogressive, PDZ, C2, Differentiation, Membrane, Synapse, Cell projection, Cell membrane, Disease variant, Coiled coil, Repeat, Zinc-finger, Metal-binding, Zinc, Phosphoprotein, COMPBIAS:Basic and acidic residues, COMPBIAS:Polar residues, DOMAIN	ding, rel, C2 domain sf, PDZ sf, Rim-like, FYVE 2, PDZ 6, :C2, DOMAIN:C2 1, DOMAIN:C2 2, DOMAIN:FYVE-type,
GOTERM_MF_DIRECT NTERPRO (EGG_PATHWAY DMIM_DISEASE BMART JP_KW_BIOLOGICAL_PROCESS JP_KW_CELLULAR_COMPONENT JP_KW_DISEASE JP_KW_DOMAIN JP_KW_LIGAND JP_KW_PTM JP_SEQ_FEATURE	membrane, presynaptic membrane, cell projection, synapse, presynaptic exosome, protein binding, small GTPase binding, ion channel binding, metal ion bind C2 dom, PDZ, Rab BD, Znf FYVE PHD, Znf RING/FYVE/PHD, Znf FYVE-Insulin secretion, Cone-rod synaptic disorder syndrome, congenital nonprogressive, PDZ, C2, Differentiation, Membrane, Synapse, Cell projection, Cell membrane, Disease variant, Coiled coil, Repeat, Zinc-finger, Metal-binding, Zinc, Phosphoprotein,	ding, rel, C2 domain sf, PDZ sf, Rim-like, FYVE 2, PDZ 6, C2, DOMAIN:C2 1, DOMAIN:C2 2, DOMAIN:FYVE-type,
GOTERM_MF_DIRECT NTERPRO KEGG_PATHWAY DMIM_DISEASE BMART JP_KW_BIOLOGICAL_PROCESS JP_KW_CELLULAR_COMPONENT JP_KW_DISEASE JP_KW_DOMAIN JP_KW_LIGAND JP_KW_PTM	membrane, presynaptic membrane, cell projection, synapse, presynaptic exosome, protein binding, small GTPase binding, ion channel binding, metal ion bind C2 dom, PDZ, Rab BD, Znf FYVE PHD, Znf RING/FYVE/PHD, Znf FYVE-Insulin secretion, Cone-rod synaptic disorder syndrome, congenital nonprogressive, PDZ, C2, Differentiation, Membrane, Synapse, Cell projection, Cell membrane, Disease variant, Coiled coil, Repeat, Zinc-finger, Metal-binding, Zinc, Phosphoprotein, COMPBIAS:Basic and acidic residues, COMPBIAS:Polar residues, DOMAIN	ding, rel, C2 domain sf, PDZ sf, Rim-like, FYVE 2, PDZ 6, :C2, DOMAIN:C2 1, DOMAIN:C2 2, DOMAIN:FYVE-type,
GOTERM_MF_DIRECT NTERPRO (EGG_PATHWAY DMIM_DISEASE BMART JP_KW_BIOLOGICAL_PROCESS JP_KW_CELLULAR_COMPONENT JP_KW_DISEASE JP_KW_DOMAIN JP_KW_LIGAND JP_KW_PTM JP_SEQ_FEATURE	membrane, presynaptic membrane, cell projection, synapse, presynaptic exosome, protein binding, small GTPase binding, ion channel binding, metal ion bind C2 dom, PDZ, Rab BD, Znf FYVE PHD, Znf RING/FYVE/PHD, Znf FYVE-Insulin secretion, Cone-rod synaptic disorder syndrome, congenital nonprogressive, PDZ, C2, Differentiation, Membrane, Synapse, Cell projection, Cell membrane, Disease variant, Coiled coil, Repeat, Zinc-finger, Metal-binding, Zinc, Phosphoprotein, COMPBIAS:Basic and acidic residues, COMPBIAS:Polar residues, DOMAIN DOMAIN:PDZ, DOMAIN:RabBD, REGION:Disordered, ZN_FING:FYVE-type regulatory factor X4(RFX4) regulation of transcription from RNA polymerase II promoter, telencephalor	ding, rel, C2 domain sf, PDZ sf, Rim-like, FYVE 2, PDZ 6, C2, DOMAIN:C2 1, DOMAIN:C2 2, DOMAIN:FYVE-type, Related Genes on development, negative regulation of smoothened signaling
GOTERM_MF_DIRECT NTERPRO KEGG_PATHWAY DMIM_DISEASE SMART JP_KW_BIOLOGICAL_PROCESS JP_KW_CELLULAR_COMPONENT JP_KW_DISEASE JP_KW_DOMAIN JP_KW_LIGAND JP_KW_PTM JP_SEQ_FEATURE	membrane, presynaptic membrane, cell projection, synapse, presynaptic exosome, protein binding, small GTPase binding, ion channel binding, metal ion bind C2 dom, PDZ, Rab BD, Znf FYVE PHD, Znf RING/FYVE/PHD, Znf FYVE-Insulin secretion, Cone-rod synaptic disorder syndrome, congenital nonprogressive, PDZ, C2, Differentiation, Membrane, Synapse, Cell projection, Cell membrane, Disease variant, Coiled coil, Repeat, Zinc-finger, Metal-binding, Zinc, Phosphoprotein, COMPBIAS:Basic and acidic residues, COMPBIAS:Polar residues, DOMAIN DOMAIN:PDZ, DOMAIN:RabBD, REGION:Disordered, ZN_FING:FYVE-type regulatory factor X4(RFX4) regulation of transcription from RNA polymerase II promoter, telencephale pathway involved in ventral spinal cord patterning, positive regulation of transcription from RNA polymerase II.	ding, rel, C2 domain sf, PDZ sf, Rim-like, FYVE 2, PDZ 6, C2, DOMAIN:C2 1, DOMAIN:C2 2, DOMAIN:FYVE-type, Related Genes on development, negative regulation of smoothened signaling
GOTERM_MF_DIRECT NTERPRO GEGG_PATHWAY DMIM_DISEASE GMART JP_KW_BIOLOGICAL_PROCESS JP_KW_CELLULAR_COMPONENT JP_KW_DISEASE JP_KW_DOMAIN JP_KW_LIGAND JP_KW_PTM JP_SEQ_FEATURE RFX4 GOTERM_BP_DIRECT	membrane, presynaptic membrane, cell projection, synapse, presynaptic exosome, protein binding, small GTPase binding, ion channel binding, metal ion bind C2 dom, PDZ, Rab BD, Znf FYVE PHD, Znf RING/FYVE/PHD, Znf FYVE-Insulin secretion, Cone-rod synaptic disorder syndrome, congenital nonprogressive, PDZ, C2, Differentiation, Membrane, Synapse, Cell projection, Cell membrane, Disease variant, Coiled coil, Repeat, Zinc-finger, Metal-binding, Zinc, Phosphoprotein, COMPBIAS:Basic and acidic residues, COMPBIAS:Polar residues, DOMAIN DOMAIN:PDZ, DOMAIN:RabBD, REGION:Disordered, ZN_FING:FYVE-type regulatory factor X4(RFX4). regulation of transcription from RNA polymerase II promoter, telencephalo pathway involved in ventral spinal cord patterning, positive regulation of tregulation of protein processing,	ding, rel, C2 domain sf, PDZ sf, Rim-like, FYVE 2, PDZ 6, C2, DOMAIN:C2 1, DOMAIN:C2 2, DOMAIN:FYVE-type, Related Genes on development, negative regulation of smoothened signaling
GOTERM_MF_DIRECT NTERPRO KEGG_PATHWAY DMIM_DISEASE SMART IP_KW_BIOLOGICAL_PROCESS IP_KW_CELLULAR_COMPONENT IP_KW_DISEASE IP_KW_DOMAIN IP_KW_LIGAND IP_KW_LIGAND IP_KW_PTM IP_SEQ_FEATURE RFX4 GOTERM_BP_DIRECT	membrane, presynaptic membrane, cell projection, synapse, presynaptic exosome, protein binding, small GTPase binding, ion channel binding, metal ion bind C2 dom, PDZ, Rab BD, Znf FYVE PHD, Znf RING/FYVE/PHD, Znf FYVE-Insulin secretion, Cone-rod synaptic disorder syndrome, congenital nonprogressive, PDZ, C2, Differentiation, Membrane, Synapse, Cell projection, Cell membrane, Disease variant, Coiled coil, Repeat, Zinc-finger, Metal-binding, Zinc, Phosphoprotein, COMPBIAS:Basic and acidic residues, COMPBIAS:Polar residues, DOMAIN DOMAIN:PDZ, DOMAIN:RabBD, REGION:Disordered, ZN_FING:FYVE-type regulatory factor X4(RFX4). regulation of transcription from RNA polymerase II promoter, telencephalopathway, involved in ventral spinal cord patterning, positive regulation of tregulation of protein processing, chromatin, nucleus,	ting, rel, C2 domain sf, PDZ sf, Rim-like, FYVE 2, PDZ 6, c2, DOMAIN:C2 1, DOMAIN:C2 2, DOMAIN:FYVE-type, Related Genes In development, negative regulation of smoothened signaling transcription from RNA polymerase II promoter, cilium assembly
GOTERM_MF_DIRECT NTERPRO GEGG_PATHWAY DMIM_DISEASE GMART JP_KW_BIOLOGICAL_PROCESS JP_KW_CELLULAR_COMPONENT JP_KW_DISEASE JP_KW_DOMAIN JP_KW_LIGAND JP_KW_PTM JP_SEQ_FEATURE RFX4 GOTERM_BP_DIRECT	membrane, presynaptic membrane, cell projection, synapse, presynaptic exosome, protein binding, small GTPase binding, ion channel binding, metal ion bind C2 dom, PDZ, Rab BD, Znf FYVE PHD, Znf RING/FYVE/PHD, Znf FYVE-Insulin secretion, Cone-rod synaptic disorder syndrome, congenital nonprogressive, PDZ, C2, Differentiation, Membrane, Synapse, Cell projection, Cell membrane, Disease variant, Coiled coil, Repeat, Zinc-finger, Metal-binding, Zinc, Phosphoprotein, COMPBIAS:Basic and acidic residues, COMPBIAS:Polar residues, DOMAIN DOMAIN:PDZ, DOMAIN:RabBD, REGION:Disordered, ZN_FING:FYVE-type regulatory factor X4(RFX4). regulation of transcription from RNA polymerase II promoter, telencephalo pathway involved in ventral spinal cord patterning, positive regulation of tregulation of protein processing,	cc2, DOMAIN:C2 1, DOMAIN:C2 2, DOMAIN:FYVE-type, Related Genes In development, negative regulation of smoothened signaling transcription from RNA polymerase II promoter, cilium assembly binding, RNA polymerase II transcription factor activity, sequences.
GOTERM_MF_DIRECT NTERPRO KEGG_PATHWAY DMIM_DISEASE SMART IP_KW_BIOLOGICAL_PROCESS IP_KW_CELLULAR_COMPONENT IP_KW_DISEASE IP_KW_DOMAIN IP_KW_LIGAND IP_KW_LIGAND IP_KW_PTM IP_SEQ_FEATURE RFX4 GOTERM_BP_DIRECT	membrane, presynaptic membrane, cell projection, synapse, presynaptic exosome, protein binding, small GTPase binding, ion channel binding, metal ion bind C2 dom, PDZ, Rab BD, Znf FYVE PHD, Znf RING/FYVE/PHD, Znf FYVE-Insulin secretion, Cone-rod synaptic disorder syndrome, congenital nonprogressive, PDZ, C2, Differentiation, Membrane, Synapse, Cell projection, Cell membrane, Disease variant, Coiled coil, Repeat, Zinc-finger, Metal-binding, Zinc, Phosphoprotein, COMPBIAS:Basic and acidic residues, COMPBIAS:Polar residues, DOMAIN DOMAIN:PDZ, DOMAIN:RabBD, REGION:Disordered, ZN_FING:FYVE-type regulatory factor X4(RFX4) regulation of transcription from RNA polymerase II promoter, telencephale pathway involved in ventral spinal cord patterning, positive regulation of tregulation of protein processing, chromatin, nucleus, RNA polymerase II core promoter proximal region sequence-specific DNA	cc2, DOMAIN:C2 1, DOMAIN:C2 2, DOMAIN:FYVE-type, Related Genes In development, negative regulation of smoothened signaling transcription from RNA polymerase II promoter, cilium assembly binding, RNA polymerase II transcription factor activity, sequent transcription regulatory region sequence-specific binding, DNA
GOTERM_MF_DIRECT NTERPRO KEGG_PATHWAY DMIM_DISEASE SMART IP_KW_BIOLOGICAL_PROCESS IP_KW_CELLULAR_COMPONENT IP_KW_DISEASE IP_KW_DOMAIN IP_KW_LIGAND IP_KW_LIGAND IP_KW_PTM IP_SEQ_FEATURE RFX4 GOTERM_BP_DIRECT	membrane, presynaptic membrane, cell projection, synapse, presynaptic exosome, protein binding, small GTPase binding, ion channel binding, metal ion bind C2 dom, PDZ, Rab BD, Znf FYVE PHD, Znf RING/FYVE/PHD, Znf FYVE-Insulin secretion, Cone-rod synaptic disorder syndrome, congenital nonprogressive, PDZ, C2, Differentiation, Membrane, Synapse, Cell projection, Cell membrane, Disease variant, Coiled coil, Repeat, Zinc-finger, Metal-binding, Zinc, Phosphoprotein, COMPBIAS:Basic and acidic residues, COMPBIAS:Polar residues, DOMAIN DOMAIN:PDZ, DOMAIN:RabBD, REGION:Disordered, ZN_FING:FYVE-type regulatory factor X4(RFX4). regulation of transcription from RNA polymerase II promoter, telencephalic pathway involved in ventral spinal cord patterning, positive regulation of tregulation of protein processing, chromatin, nucleus, RNA polymerase II core promoter proximal region sequence-specific DNA specific DNA binding, transcriptional activator activity, RNA polymerase II	cc2, DOMAIN:C2 1, DOMAIN:C2 2, DOMAIN:FYVE-type, Related Genes In development, negative regulation of smoothened signaling transcription from RNA polymerase II promoter, cilium assembly binding, RNA polymerase II transcription factor activity, sequent transcription regulatory region sequence-specific binding, DNA
GOTERM_MF_DIRECT NTERPRO GEGG_PATHWAY DMIM_DISEASE SMART JP_KW_BIOLOGICAL_PROCESS JP_KW_CELLULAR_COMPONENT JP_KW_DISEASE JP_KW_DOMAIN JP_KW_LIGAND JP_KW_LIGAND JP_KW_PTM JP_SEQ_FEATURE GOTERM_BP_DIRECT GOTERM_CC_DIRECT GOTERM_MF_DIRECT	membrane, presynaptic membrane, cell projection, synapse, presynaptic exosome, protein binding, small GTPase binding, ion channel binding, metal ion bind C2 dom, PDZ, Rab BD, Znf FYVE PHD, Znf RING/FYVE/PHD, Znf FYVE-Insulin secretion, Cone-rod synaptic disorder syndrome, congenital nonprogressive, PDZ, C2, Differentiation, Membrane, Synapse, Cell projection, Cell membrane, Disease variant, Coiled coil, Repeat, Zinc-finger, Metal-binding, Zinc, Phosphoprotein, COMPBIAS:Basic and acidic residues, COMPBIAS:Polar residues, DOMAIN DOMAIN:PDZ, DOMAIN:RabBD, REGION:Disordered, ZN_FING:FYVE-type regulatory factor X4(RFX4) regulation of transcription from RNA polymerase II promoter, telencephale pathway involved in ventral spinal cord patterning, positive regulation of tregulation of protein processing, chromatin, nucleus, RNA polymerase II core promoter proximal region sequence-specific DNA specific DNA binding, transcription factor activity, sequence-specific DNA binding, protein	cc2, DOMAIN:C2 1, DOMAIN:C2 2, DOMAIN:FYVE-type, Related Genes In development, negative regulation of smoothened signaling transcription from RNA polymerase II promoter, cilium assembly binding, RNA polymerase II transcription factor activity, sequent transcription regulatory region sequence-specific binding, DNA
GOTERM_MF_DIRECT NTERPRO KEGG_PATHWAY DMIM_DISEASE SMART IP_KW_BIOLOGICAL_PROCESS IP_KW_CELLULAR_COMPONENT IP_KW_DISEASE IP_KW_DOMAIN IP_KW_LIGAND IP_KW_LIGAND IP_KW_PTM IP_SEQ_FEATURE RFX4 GOTERM_BP_DIRECT GOTERM_MF_DIRECT	membrane, presynaptic membrane, cell projection, synapse, presynaptic exosome, protein binding, small GTPase binding, ion channel binding, metal ion bind C2 dom, PDZ, Rab BD, Znf FYVE PHD, Znf RING/FYVE/PHD, Znf FYVE-Insulin secretion, Cone-rod synaptic disorder syndrome, congenital nonprogressive, PDZ, C2, Differentiation, Membrane, Synapse, Cell projection, Cell membrane, Disease variant, Coiled coil, Repeat, Zinc-finger, Metal-binding, Zinc, Phosphoprotein, COMPBIAS:Basic and acidic residues, COMPBIAS:Polar residues, DOMAIN DOMAIN:PDZ, DOMAIN:RabBD, REGION:Disordered, ZN_FING:FYVE-type regulatory factor X4(RFX4) regulation of transcription from RNA polymerase II promoter, telencephalopathway involved in ventral spinal cord patterning, positive regulation of tregulation of protein processing, chromatin, nucleus, RNA polymerase II core promoter proximal region sequence-specific DNA specific DNA binding, transcriptional activator activity, RNA polymerase II binding, transcription factor activity, sequence-specific DNA binding, protein DNA-bd RFX, WH-like DNA-bd sf, WH DNA-bd sf, RFX-like,	cc2, DOMAIN:C2 1, DOMAIN:C2 2, DOMAIN:FYVE-type, Related Genes In development, negative regulation of smoothened signaling transcription from RNA polymerase II promoter, cilium assembly binding, RNA polymerase II transcription factor activity, sequent transcription regulatory region sequence-specific binding, DNA
GOTERM_MF_DIRECT NTERPRO KEGG_PATHWAY DMIM_DISEASE SMART IP_KW_BIOLOGICAL_PROCESS IP_KW_CELLULAR_COMPONENT IP_KW_DISEASE IP_KW_DOMAIN IP_KW_LIGAND IP_KW_LIGAND IP_KW_PTM IP_SEQ_FEATURE RFX4 GOTERM_BP_DIRECT GOTERM_MF_DIRECT NTERPRO IP_KW_BIOLOGICAL_PROCESS	membrane, presynaptic membrane, cell projection, synapse, presynaptic exosome, protein binding, small GTPase binding, ion channel binding, metal ion bind C2 dom, PDZ, Rab BD, Znf FYVE PHD, Znf RING/FYVE/PHD, Znf FYVE-Insulin secretion, Cone-rod synaptic disorder syndrome, congenital nonprogressive, PDZ, C2, Differentiation, Membrane, Synapse, Cell projection, Cell membrane, Disease variant, Coiled coil, Repeat, Zinc-finger, Metal-binding, Zinc, Phosphoprotein, COMPBIAS:Basic and acidic residues, COMPBIAS:Polar residues, DOMAIN:DOMAIN:PDZ, DOMAIN:RabBD, REGION:Disordered, ZN_FING:FYVE-type regulation of transcription from RNA polymerase II promoter, telencephalopathway involved in ventral spinal cord patterning, positive regulation of tregulation of protein processing, chromatin, nucleus, RNA polymerase II core promoter proximal region sequence-specific DNA specific DNA binding, transcriptional activator activity, RNA polymerase II binding, transcription factor activity, sequence-specific DNA binding, protein DNA-bd RFX, WH-like DNA-bd sf, WH DNA-bd sf, RFX-like, Transcription, Transcription regulation,	cc2, DOMAIN:C2 1, DOMAIN:C2 2, DOMAIN:FYVE-type, Related Genes In development, negative regulation of smoothened signaling transcription from RNA polymerase II promoter, cilium assembly binding, RNA polymerase II transcription factor activity, sequent transcription regulatory region sequence-specific binding, DNA
GOTERM_MF_DIRECT NTERPRO KEGG_PATHWAY DMIM_DISEASE SMART SP_KW_BIOLOGICAL_PROCESS SP_KW_CELLULAR_COMPONENT SP_KW_DISEASE SP_KW_DOMAIN SP_KW_LIGAND SP_KW_LIGAND SP_KW_PTM SP_SEQ_FEATURE RFX4 GOTERM_BP_DIRECT SOTERM_MF_DIRECT NTERPRO SP_KW_BIOLOGICAL_PROCESS SP_KW_CELLULAR_COMPONENT	membrane, presynaptic membrane, cell projection, synapse, presynaptic exosome, protein binding, small GTPase binding, ion channel binding, metal ion bind C2 dom, PDZ, Rab BD, Znf FYVE PHD, Znf RING/FYVE/PHD, Znf FYVE-Insulin secretion, Cone-rod synaptic disorder syndrome, congenital nonprogressive, PDZ, C2, Differentiation, Membrane, Synapse, Cell projection, Cell membrane, Disease variant, Coiled coil, Repeat, Zinc-finger, Metal-binding, Zinc, Phosphoprotein, COMPBIAS:Basic and acidic residues, COMPBIAS:Polar residues, DOMAIN DOMAIN:PDZ, DOMAIN:RabBD, REGION:Disordered, ZN_FING:FYVE-type regulatory factor X4(RFX4). regulation of transcription from RNA polymerase II promoter, telencephalo pathway involved in ventral spinal cord patterning, positive regulation of tregulation of protein processing, chromatin, nucleus, RNA polymerase II core promoter proximal region sequence-specific DNA specific DNA binding, transcriptional activator activity, RNA polymerase II binding, transcription factor activity, sequence-specific DNA binding, protein DNA-bd RFX, WH-like DNA-bd sf, WH DNA-bd sf, RFX-like, Transcription, Transcription regulation, Nucleus,	cc2, DOMAIN:C2 1, DOMAIN:C2 2, DOMAIN:FYVE-type, Related Genes Transcription from RNA polymerase II transcription factor activity, sequentranscription regulatory region sequence-specific binding, DNA binding, sequence-specific double-stranded DNA binding,
GOTERM_MF_DIRECT NTERPRO KEGG_PATHWAY DMIM_DISEASE SMART IP_KW_BIOLOGICAL_PROCESS IP_KW_CELLULAR_COMPONENT IP_KW_DISEASE IP_KW_DOMAIN IP_KW_LIGAND IP_KW_LIGAND IP_KW_PTM IP_SEQ_FEATURE RFX4 GOTERM_BP_DIRECT GOTERM_MF_DIRECT INTERPRO IP_KW_BIOLOGICAL_PROCESS IP_KW_CELLULAR_COMPONENT IP_KW_MOLECULAR_FUNCTION	membrane, presynaptic membrane, cell projection, synapse, presynaptic exosome, protein binding, small GTPase binding, ion channel binding, metal ion bind C2 dom, PDZ, Rab BD, Znf FYVE PHD, Znf RING/FYVE/PHD, Znf FYVE-Insulin secretion, Cone-rod synaptic disorder syndrome, congenital nonprogressive, PDZ, C2, Differentiation, Membrane, Synapse, Cell projection, Cell membrane, Disease variant, Coiled coil, Repeat, Zinc-finger, Metal-binding, Zinc, Phosphoprotein, COMPBIAS:Basic and acidic residues, COMPBIAS:Polar residues, DOMAIN:PDZ, DOMAIN:RabBD, REGION:Disordered, ZN_FING:FYVE-type regulatory factor X4(RFX4) regulation of transcription from RNA polymerase II promoter, telencephalogathway involved in ventral spinal cord patterning, positive regulation of tregulation of protein processing, chromatin, nucleus, RNA polymerase II core promoter proximal region sequence-specific DNA specific DNA binding, transcriptional activator activity, RNA polymerase II binding, transcription factor activity, sequence-specific DNA binding, protein processing, Iranscription factor activity, Sequence-specific DNA binding, Iran	cc2, DOMAIN:C2 1, DOMAIN:C2 2, DOMAIN:FYVE-type, Related Genes Transcription from RNA polymerase II transcription factor activity, sequentranscription regulatory region sequence-specific binding, DNA binding, sequence-specific double-stranded DNA binding,
GOTERM_MF_DIRECT NTERPRO KEGG_PATHWAY DMIM_DISEASE SMART IP_KW_BIOLOGICAL_PROCESS IP_KW_CELLULAR_COMPONENT IP_KW_DISEASE IP_KW_DOMAIN IP_KW_LIGAND IP_KW_LIGAND IP_KW_PTM IP_SEQ_FEATURE RFX4 GOTERM_BP_DIRECT GOTERM_MF_DIRECT INTERPRO IP_KW_BIOLOGICAL_PROCESS IP_KW_CELLULAR_COMPONENT IP_KW_MOLECULAR_FUNCTION	membrane, presynaptic membrane, cell projection, synapse, presynaptic exosome, protein binding, small GTPase binding, ion channel binding, metal ion bind C2 dom, PDZ, Rab BD, Znf FYVE PHD, Znf RING/FYVE/PHD, Znf FYVE-Insulin secretion, Cone-rod synaptic disorder syndrome, congenital nonprogressive, PDZ, C2, Differentiation, Membrane, Synapse, Cell projection, Cell membrane, Disease variant, Coiled coil, Repeat, Zinc-finger, Metal-binding, Zinc, Phosphoprotein, COMPBIAS:Basic and acidic residues, COMPBIAS:Polar residues, DOMAIN DOMAIN:PDZ, DOMAIN:RabBD, REGION:Disordered, ZN_FING:FYVE-type regulatory factor X4(RFX4) regulation of transcription from RNA polymerase II promoter, telencephale pathway involved in ventral spinal cord patterning, positive regulation of tregulation of protein processing, chromatin, nucleus, RNA polymerase II core promoter proximal region sequence-specific DNA specific DNA binding, transcriptional activator activity, RNA polymerase II binding, transcription factor activity, sequence-specific DNA binding, protein DNA-bd RFX, WH-like DNA-bd sf, WH DNA-bd sf, RFX-like, Transcription, Transcription regulation, Nucleus, Activator, DNA-binding, COMPBIAS:Basic and acidic residues, DNA_BIND:RFX-type winged-helix,	cc2, DOMAIN:C2 1, DOMAIN:C2 2, DOMAIN:FYVE-type, Related Genes Transcription from RNA polymerase II transcription factor activity, sequentranscription regulatory region sequence-specific binding, DNA binding, sequence-specific double-stranded DNA binding,
GOTERM_MF_DIRECT NTERPRO GEGG_PATHWAY DMIM_DISEASE SMART SIP_KW_BIOLOGICAL_PROCESS SIP_KW_CELLULAR_COMPONENT SIP_KW_DOMAIN SIP_KW_DOMAIN SIP_KW_LIGAND SIP_KW_PTM SIP_SEQ_FEATURE SOTERM_BP_DIRECT SOTERM_MF_DIRECT SOTERM_MF_DIRECT SOTERM_MF_DIRECT SIP_KW_BIOLOGICAL_PROCESS SIP_KW_CELLULAR_COMPONENT SIP_KW_MOLECULAR_FUNCTION SIP_SEQ_FEATURE	membrane, presynaptic membrane, cell projection, synapse, presynaptic exosome, protein binding, small GTPase binding, ion channel binding, metal ion bind C2 dom, PDZ, Rab BD, Znf FYVE PHD, Znf RING/FYVE/PHD, Znf FYVE-Insulin secretion, Cone-rod synaptic disorder syndrome, congenital nonprogressive, PDZ, C2, Differentiation, Membrane, Synapse, Cell projection, Cell membrane, Disease variant, Coiled coil, Repeat, Zinc-finger, Metal-binding, Zinc, Phosphoprotein, COMPBIAS:Basic and acidic residues, COMPBIAS:Polar residues, DOMAIN DOMAIN:PDZ, DOMAIN:RabBD, REGION:Disordered, ZN_FING:FYVE-type regulatory factor X4(RFX4) regulation of transcription from RNA polymerase II promoter, telencephale pathway involved in ventral spinal cord patterning, positive regulation of tregulation of protein processing, chromatin, nucleus, RNA polymerase II core promoter proximal region sequence-specific DNA specific DNA binding, transcriptional activator activity, RNA polymerase II binding, transcription factor activity, sequence-specific DNA binding, protein processing, CNPBIAS:Basic and acidic residues, DNA_BIND:RFX-type winged-helix, REGION:Necessary for dimerization,	cz, DOMAIN:C2 1, DOMAIN:C2 2, DOMAIN:FYVE-type, Related Genes Homo sapiens ranscription from RNA polymerase II transcription factor activity, sequentranscription regulatory region sequence-specific binding, DNA binding, sequence-specific double-stranded DNA binding, DOMAIN:RFX-type winged-helix, REGION:Disordered, Related Genes Homo sapiens
GOTERM_MF_DIRECT NTERPRO GEGG_PATHWAY DMIM_DISEASE SMART SIP_KW_BIOLOGICAL_PROCESS SIP_KW_CELLULAR_COMPONENT SIP_KW_DISEASE SIP_KW_DOMAIN SIP_KW_LIGAND SIP_KW_LIGAND SIP_KW_PTM SIP_SEQ_FEATURE SOTERM_BP_DIRECT SOTERM_CC_DIRECT SOTERM_MF_DIRECT SOTERM_MF_DIRECT SIP_KW_BIOLOGICAL_PROCESS SIP_KW_CELLULAR_COMPONENT SIP_KW_MOLECULAR_FUNCTION SIP_SEQ_FEATURE SIP_KW_MOLECULAR_FUNCTION SIP_SEQ_FEATURE	membrane, presynaptic membrane, cell projection, synapse, presynaptic exosome, protein binding, small GTPase binding, ion channel binding, metal ion bind C2 dom, PDZ, Rab BD, Znf FYVE PHD, Znf RING/FYVE/PHD, Znf FYVE-Insulin secretion, Cone-rod synaptic disorder syndrome, congenital nonprogressive, PDZ, C2, Differentiation, Membrane, Synapse, Cell projection, Cell membrane, Disease variant, Coiled coil, Repeat, Zinc-finger, Metal-binding, Zinc, Phosphoprotein, COMPBIAS:Basic and acidic residues, COMPBIAS:Polar residues, DOMAIN DOMAIN:PDZ, DOMAIN:RabBD, REGION:Disordered, ZN_FING:FYVE-type regulatory factor X4(RFX4) regulation of transcription from RNA polymerase II promoter, telencephale pathway involved in ventral spinal cord patterning, positive regulation of pregulation of protein processing, chromatin, nucleus, RNA polymerase II core promoter proximal region sequence-specific DNA specific DNA binding, transcriptional activator activity, RNA polymerase II binding, transcription factor activity, sequence-specific DNA binding, protein DNA-bd RFX, WH-like DNA-bd sf, WH DNA-bd sf, RFX-like, Transcription, Transcription regulation, Nucleus, Activator, DNA-binding, COMPBIAS:Basic and acidic residues, DNA_BIND:RFX-type winged-helix, REGION:Necessary for dimerization, regulatory factor X7(RFX7).	cz, DOMAIN:C2 1, DOMAIN:C2 2, DOMAIN:FYVE-type, Related Genes Homo sapiens ranscription from RNA polymerase II transcription factor activity, sequentranscription regulatory region sequence-specific binding, DNA binding, sequence-specific double-stranded DNA binding, DOMAIN:RFX-type winged-helix, REGION:Disordered, Related Genes Homo sapiens
GOTERM_MF_DIRECT NTERPRO GEGG_PATHWAY DMIM_DISEASE SMART SP_KW_BIOLOGICAL_PROCESS SP_KW_CELLULAR_COMPONENT SP_KW_DISEASE SP_KW_DOMAIN SP_KW_LIGAND SP_KW_LIGAND SP_KW_PTM SP_SEQ_FEATURE GOTERM_BP_DIRECT SOTERM_MF_DIRECT SOTERM_MF_DIRECT SP_KW_BIOLOGICAL_PROCESS SP_KW_CELLULAR_COMPONENT SP_KW_MOLECULAR_FUNCTION SP_SEQ_FEATURE SEFX7 GOTERM_BP_DIRECT	membrane, presynaptic membrane, cell projection, synapse, presynaptic exosome, protein binding, small GTPase binding, ion channel binding, metal ion bind C2 dom, PDZ, Rab BD, Znf FYVE PHD, Znf RING/FYVE/PHD, Znf FYVE-Insulin secretion, Cone-rod synaptic disorder syndrome, congenital nonprogressive, PDZ, C2, Differentiation, Membrane, Synapse, Cell projection, Cell membrane, Disease variant, Coiled coil, Repeat, Zinc-finger, Metal-binding, Zinc, Phosphoprotein, COMPBIAS:Basic and acidic residues, COMPBIAS:Polar residues, DOMAIN DOMAIN:PDZ, DOMAIN:RabBD, REGION:Disordered, ZN_FING:FYVE-type regulatory factor X4(RFX4) regulation of transcription from RNA polymerase II promoter, telencephale pathway involved in ventral spinal cord patterning, positive regulation of tregulation of protein processing, chromatin, nucleus, RNA polymerase II core promoter proximal region sequence-specific DNA specific DNA binding, transcriptional activator activity, RNA polymerase II binding, transcription factor activity, sequence-specific DNA binding, protein processing, CNA-bd RFX, WH-like DNA-bd sf, WH DNA-bd sf, RFX-like, Transcription, Transcription regulation, Nucleus, Activator, DNA-binding, COMPBIAS:Basic and acidic residues, DNA_BIND:RFX-type winged-helix, REGION:Necessary for dimerization, regulatory factor X7(RFX7) regulation of transcription from RNA polymerase II promoter, positive regulation of transcription from RNA polymerase II promoter, positive regulation of transcription from RNA polymerase II promoter, positive regulation of transcription from RNA polymerase II promoter, positive regulation of transcription from RNA polymerase II promoter, positive regulation of transcription from RNA polymerase II promoter, positive regulation of transcription from RNA polymerase II promoter, positive regulation of transcription from RNA polymerase II promoter, positive regulation of transcription from RNA polymerase II promoter, positive regulation of transcription from RNA polymerase II promoter, positive regulation of transcrip	cc2, DOMAIN:C2 1, DOMAIN:C2 2, DOMAIN:FYVE-type, Related Genes In development, negative regulation of smoothened signaling transcription from RNA polymerase II promoter, cilium assembly binding, RNA polymerase II transcription factor activity, sequent transcription regulatory region sequence-specific binding, DNA binding, sequence-specific double-stranded DNA binding, DOMAIN:RFX-type winged-helix, REGION:Disordered, Related Genes Homo sapiens ulation of transcription from RNA polymerase II promoter,

DAVID: Database for Annotation, Visualization, and Integrated Discovery (Laboratory of Human Retrovirology and Immunoinformatics (LHRI); National Institute of Allergies and Infectious Diseases...

ATP2B1	
INTERPRO	ATPase plasma membrane Ca2+ transporting 1(ATP2B1) DNA-bd RFX, WH-like DNA-bd sf, WH DNA-bd sf, RFX-like, RFX5 N, RFX5 N sf,
OMIM_DISEASE	Intellectual developmental disorder, autosomal dominant 71, with behavioral abnormalities,
UP_KW_BIOLOGICAL_PROCESS	Transcription, Transcription regulation,
UP KW CELLULAR COMPONENT	Nucleus,
UP_KW_DISEASE	Disease variant, Intellectual disability, Autism spectrum disorder,
UP_KW_MOLECULAR_FUNCTION	DNA-binding,
UP_KW_PTM	Acetylation, Phosphoprotein,
UP_SEQ_FEATURE	COMPBIAS:Basic and acidic residues, COMPBIAS:Polar residues, COMPBIAS:Pro residues, DNA_BIND:RFX-type winged-helix, DOMAIN:RFX
	type winged-helix, MOTIF:PxLPxI/L motif; mediates interaction with ANKRA2 and RFXANK, REGION:Disordered,
SRSF1	Serine and arginine rich splicing factor 1(SRSF1) Related Genes Homo sapiens
GOTERM_BP_DIRECT	alternative mRNA splicing, via spliceosome, mRNA 5'-splice site recognition, mRNA splicing, via spliceosome, mRNA splice site selection, mRNA processing, positive regulation of RNA splicing, regulation of RNA splicing, oligodendrocyte differentiation, mRNA transport, liver regeneration,
GOTERM_CC_DIRECT	nucleus, nucleoplasm, cytoplasm, nuclear speck, exon-exon junction complex, catalytic step 2 spliceosome,
GOTERM_MF_DIRECT	RNA binding, mRNA binding, protein binding, protein kinase B binding, DNA topoisomerase binding,
INTERPRO	RRM_dom, Nucleotide-bd_a/b_plait_sf, SRSF1_RRM2, SRSF1_RRM1, RBD_domain_sf,
KEGG_PATHWAY	Spliceosome, IL-17 signaling pathway, Herpes simplex virus 1 infection,
OMIM_DISEASE	Neurodevelopmental disorder with dysmorphic facies and behavioral abnormalities,
SMART	RRM,
UP_KW_BIOLOGICAL_PROCESS	mRNA processing, mRNA splicing, mRNA transport, Transport,
UP_KW_CELLULAR_COMPONENT	<u>Nucleus, Spliceosome</u> , <u>Cytoplasm</u> ,
UP_KW_DOMAIN	Repeat,
UP_KW_MOLECULAR_FUNCTION	RNA-binding,
UP_KW_PTM	Acetylation, Methylation, Phosphoprotein, Ubl conjugation, Isopeptide bond,
UP_SEQ_FEATURE	COMPBIAS:Basic residues, CROSSLNK:Glycyl lysine isopeptide (Lys-Gly) (interchain with G-Cter in SUMO2), CROSSLNK:Glycyl lysine isopeptide (Lys-Gly) (interchain with G-Cter in SUMO2); alternate, DOMAIN:RRM, DOMAIN:RRM 1, DOMAIN:RRM 2, MUTAGEN:F->A: In AV loss of ability to activate splicing. Great reduction in splice site switching activity and no effect on RNA-binding., MUTAGEN:F->D: Reduced nucleocytoplasmic shuttling; when associated with D-162., MUTAGEN:F->D: Reduced nucleocytoplasmic shuttling; when associated with D-190., MUTAGEN:FV->SR: In FV1; loss of ability to activate splicing. Slight reduction in splice site switching activity and no effect on RNA-binding., MUTAGEN:FV->SR: In FV2; loss of ability to activate splicing. Great reduction in splice site switching activity and RNA-binding., MUTAGEN:Missing: In MR-B; strongly inhibits splicing., MUTAGEN:Missing: MR-D; loss of ability to activate splicing., MUTAGEN:Missing: In MR-B; strongly inhibits splicing., MUTAGEN:Missing: MR-D; loss of ability to activate splicing., MUTAGEN:Missing: In MR-B; loss of ability to activate splicing., MUTAGEN:Missing: In MR-B; loss of ability to activate splicing but retains splice site switching., MUTAGEN:Missing: In RS-A; loss of ability to activate splicing but retains splice site switching., MUTAGEN:Missing: In RS-C; loss of ability to activate splicing but retains splice site switching., MUTAGEN:R->A: Predominantly localizes to cytoplasm and fails to modulate splicing of endogenous pre-mRNAs; when associated with Ala-93 and Ala-109., MUTAGEN:R->A: Predominantly localizes to cytoplasm and fails to modulate splicing of endogenous pre-mRNAs; when associated with Ala-93 and Ala-97., MUTAGEN:R->A: Predominantly localizes to cytoplasm and fails to modulate splicing of endogenous pre-mRNAs; when associated with Ala-93 and Ala-97., MUTAGEN:R->A: Predominantly localizes to cytoplasm and fails to modulate splicing of endogenous pre-mRNAs; when
	associated with Ala-97 and Ala-109., REGION:Disordered, REGION:Interaction with SAFB1,
TCEAL1	transcription elongation factor A like 1(TCEAL1) Related Genes Homo sapiens
GOTERM_CC_DIRECT	<u>nucleus</u> , <u>nucleoplasm</u> ,
GOTERM_MF_DIRECT	<u>protein binding</u> ,
INTERPRO	TF_A-like/BEX,
OMIM_DISEASE	<u>Hijazi-Reis syndrome,</u>
UP_KW_BIOLOGICAL_PROCESS	<u>Transcription</u> , <u>Transcription regulation</u> ,
UP_KW_CELLULAR_COMPONENT	Nucleus,
UP_KW_DISEASE	Disease variant, Intellectual disability,
UP_KW_PTM	Phosphoprotein,
UP_SEQ_FEATURE	COMPBIAS: Acidic residues, COMPBIAS: Basic and acidic residues, MUTAGEN:SS->AA: Loss of transcriptional repression., MUTAGEN:SS->AA No effect on transcriptional repression., REGION: Disordered,
TRIM8	tripartite motif containing 8(TRIM8) Related Genes Homo sapiens
GOTERM_BP_DIRECT	I-kappaB kinase/NF-kappaB signaling, positive regulation of autophagy, stem cell population maintenance, negative regulation of viral transcription, positive regulation of I-kappaB kinase/NF-kappaB signaling, negative regulation by host of viral release from host cell, innate immune response, positive regulation of transcription, DNA-templated, negative regulation of viral entry into host cell, positive regulation of sequence-specific DNA binding transcription factor activity, positive regulation of NF-kappaB transcription factor activity, protein K63-linked ubiquitination, positive regulation of protein localization to nucleus,
GOTERM_CC_DIRECT	nucleus, cytoplasm, cytosol, PML body,
GOTERM_MF_DIRECT	transcription coactivator activity, protein binding, zinc ion binding, mitogen-activated protein kinase kinase kinase binding, identical protein
	binding, protein homodimerization activity, metal ion binding, ubiquitin protein ligase activity,
INTERPRO	Znf RING, Znf RING/FYVE/PHD, Znf RING CS, Znf-RING euk,
OMIM_DISEASE	Focal segmental glomerulosclerosis and neurodevelopmental syndrome,
SMART	RING,
	Immunity, Innate immunity, Ubl conjugation pathway,
	<u>Immunity, Innate immunity, Ubl conjugation pathway,</u> <u>Nucleus, Cytoplasm,</u>
UP_KW_CELLULAR_COMPONENT	
UP_KW_CELLULAR_COMPONENT UP_KW_DISEASE	Nucleus, Cytoplasm,
UP_KW_CELLULAR_COMPONENT UP_KW_DISEASE UP_KW_DOMAIN	Nucleus, Cytoplasm, Disease variant,
UP_KW_CELLULAR_COMPONENT UP_KW_DISEASE UP_KW_DOMAIN UP_KW_LIGAND	Nucleus, Cytoplasm, Disease variant, Coiled coil, Repeat, Zinc-finger,
UP_KW_CELLULAR_COMPONENT UP_KW_DISEASE UP_KW_DOMAIN UP_KW_LIGAND UP_KW_MOLECULAR_FUNCTION	Nucleus, Cytoplasm, Disease variant, Coiled coil, Repeat, Zinc-finger, Metal-binding, Zinc, Transferase, DOMAIN:RING-type, MUTAGEN:C->A: Complete loss of ubiquitination activity on MAP3K7/TAK1., MUTAGEN:C->S: Complete loss of ubiquitination activity on TICAM1., REGION:Disordered, ZN_FING:B box-type 1, ZN_FING:B box-type 2, ZN_FING:RING-type,
UP_KW_CELLULAR_COMPONENT UP_KW_DISEASE UP_KW_DOMAIN UP_KW_LIGAND UP_KW_MOLECULAR_FUNCTION UP_SEQ_FEATURE	Nucleus, Cytoplasm, Disease variant, Coiled coil, Repeat, Zinc-finger, Metal-binding, Zinc, Transferase, DOMAIN:RING-type, MUTAGEN:C->A: Complete loss of ubiquitination activity on MAP3K7/TAK1., MUTAGEN:C->S: Complete loss of ubiquitination activity on TICAM1., REGION:Disordered, ZN_FING:B box-type 1, ZN_FING:B box-type 2, ZN_FING:RING-type, tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein Related Genes Homo saniens
UP_KW_CELLULAR_COMPONENT UP_KW_DISEASE UP_KW_DOMAIN UP_KW_LIGAND UP_KW_MOLECULAR_FUNCTION UP_SEQ_FEATURE	Nucleus, Cytoplasm, Disease variant, Coiled coil, Repeat, Zinc-finger, Metal-binding, Zinc, Transferase, DOMAIN:RING-type, MUTAGEN:C->A: Complete loss of ubiquitination activity on MAP3K7/TAK1., MUTAGEN:C->S: Complete loss of ubiquitination activity on TICAM1., REGION:Disordered, ZN_FING:B box-type 1, ZN_FING:B box-type 2, ZN_FING:RING-type, tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein gamma(YWHAG). Related Genes
UP_KW_CELLULAR_COMPONENT UP_KW_DISEASE UP_KW_DOMAIN UP_KW_LIGAND UP_KW_MOLECULAR_FUNCTION UP_SEQ_FEATURE YWHAG	Nucleus, Cytoplasm, Disease variant, Coiled coil, Repeat, Zinc-finger, Metal-binding, Zinc, Transferase, DOMAIN:RING-type, MUTAGEN:C->A: Complete loss of ubiquitination activity on MAP3K7/TAK1., MUTAGEN:C->S: Complete loss of ubiquitination activity on TICAM1., REGION:Disordered, ZN_FING:B box-type 1, ZN_FING:B box-type 2, ZN_FING:RING-type, tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein Related Genes Homo sapiens
UP_KW_CELLULAR_COMPONENT UP_KW_DISEASE UP_KW_DOMAIN UP_KW_LIGAND UP_KW_MOLECULAR_FUNCTION UP_SEQ_FEATURE YWHAG GOTERM_BP_DIRECT	Nucleus, Cytoplasm, Disease variant, Coiled coil, Repeat, Zinc-finger, Metal-binding, Zinc, Transferase, DOMAIN:RING-type, MUTAGEN:C->A: Complete loss of ubiquitination activity on MAP3K7/TAK1., MUTAGEN:C->S: Complete loss of ubiquitination activity on TICAM1., REGION:Disordered, ZN_FING:B box-type 1, ZN_FING:B box-type 2, ZN_FING:RING-type, tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation_protein gamma(YWHAG) negative regulation of protein kinase activity, protein targeting, signal transduction, regulation of signal transduction, cellular response to insulin stimulus, cellular response to glucose starvation, regulation of neuron differentiation, regulation of synaptic plasticity, negative
UP_KW_CELLULAR_COMPONENT UP_KW_DISEASE UP_KW_DOMAIN UP_KW_LIGAND UP_KW_MOLECULAR_FUNCTION UP_SEQ_FEATURE YWHAG GOTERM_BP_DIRECT	Nucleus, Cytoplasm, Disease variant, Coiled coil, Repeat, Zinc-finger, Metal-binding, Zinc, Transferase, DOMAIN:RING-type, MUTAGEN:C->A: Complete loss of ubiquitination activity on MAP3K7/TAK1., MUTAGEN:C->S: Complete loss of ubiquitination activity on TICAM1., REGION:Disordered, ZN_FING:B box-type 1, ZN_FING:B box-type 2, ZN_FING:RING-type, tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein gamma(YWHAG) negative regulation of protein kinase activity, protein targeting, signal transduction, regulation of signal transduction, cellular response to insulin stimulus, cellular response to glucose starvation, regulation of neuron differentiation, regulation of synaptic plasticity, negative regulation of TORC1 signaling, cytoplasm, cytosol, focal adhesion, membrane, extracellular exosome, presynapse,
UP_KW_CELLULAR_COMPONENT UP_KW_DISEASE UP_KW_DOMAIN UP_KW_LIGAND UP_KW_MOLECULAR_FUNCTION UP_SEQ_FEATURE YWHAG GOTERM_BP_DIRECT GOTERM_MF_DIRECT	Nucleus, Cytoplasm, Disease variant, Coiled coil, Repeat, Zinc-finger, Metal-binding, Zinc, Transferase, DOMAIN:RING-type, MUTAGEN:C->A: Complete loss of ubiquitination activity on MAP3K7/TAK1., MUTAGEN:C->S: Complete loss of ubiquitination activity on TICAM1., REGION:Disordered, ZN_FING:B box-type 1, ZN_FING:B box-type 2, ZN_FING:RING-type, tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein gamma(YWHAG) negative regulation of protein kinase activity, protein targeting, signal transduction, regulation of signal transduction, cellular response to insulin stimulus, cellular response to glucose starvation, regulation of neuron differentiation, regulation of synaptic plasticity, negative regulation of TORC1 signaling, cytoplasm, cytosol, focal adhesion, membrane, extracellular exosome, presynapse, RNA binding, protein kinase C binding, insulin-like growth factor receptor binding, protein binding, protein kinase C inhibitor activity, protein domain specific binding, receptor tyrosine kinase binding, identical protein binding, phosphoserine binding,
UP_KW_CELLULAR_COMPONENT UP_KW_DISEASE UP_KW_DOMAIN UP_KW_LIGAND UP_KW_MOLECULAR_FUNCTION UP_SEQ_FEATURE YWHAG GOTERM_BP_DIRECT GOTERM_MF_DIRECT INTERPRO	Nucleus, Cytoplasm, Disease variant, Coiled coil, Repeat, Zinc-finger, Metal-binding, Zinc, Transferase, DOMAIN:RING-type, MUTAGEN:C->A: Complete loss of ubiquitination activity on MAP3K7/TAK1., MUTAGEN:C->S: Complete loss of ubiquitination activity on TICAM1., REGION:Disordered, ZN_FING:B box-type 1, ZN_FING:B box-type 2, ZN_FING:RING-type, tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein gamma(YWHAG). negative regulation of protein kinase activity, protein targeting, signal transduction, regulation of signal transduction, cellular response to insulin stimulus, cellular response to glucose starvation, regulation of neuron differentiation, regulation of synaptic plasticity, negative regulation of TORC1 signaling, cytoplasm, cytosol, focal adhesion, membrane, extracellular exosome, presynapse, RNA binding, protein kinase C binding, insulin-like growth factor receptor binding, protein binding, protein kinase C inhibitor activity, protein domain specific binding, receptor tyrosine kinase binding, identical protein binding, phosphoserine binding, 14-3-3, 14-3-3 CS, 14-3-3 domain, 14-3-3 dom sf,
UP_KW_CELLULAR_COMPONENT UP_KW_DISEASE UP_KW_DOMAIN UP_KW_LIGAND UP_KW_MOLECULAR_FUNCTION UP_SEQ_FEATURE YWHAG GOTERM_BP_DIRECT GOTERM_CC_DIRECT GOTERM_MF_DIRECT INTERPRO KEGG_PATHWAY	Nucleus, Cytoplasm, Disease variant, Coiled coil, Repeat, Zinc-finger, Metal-binding, Zinc, Transferase, DOMAIN:RING-type, MUTAGEN:C->A: Complete loss of ubiquitination activity on MAP3K7/TAK1., MUTAGEN:C->S: Complete loss of ubiquitination activity on TICAM1., REGION:Disordered, ZN_FING:B box-type 1, ZN_FING:B box-type 2, ZN_FING:RING-type, tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein gamma(YWHAG). Related Genes Homo sapiens Homo sapiens regulation of protein kinase activity, protein targeting, signal transduction, regulation of signal transduction, cellular response to insulin stimulus, cellular response to glucose starvation, regulation of neuron differentiation, regulation of synaptic plasticity, negative regulation of TORC1 signaling, cytoplasm, cytosol, focal adhesion, membrane, extracellular exosome, presynapse, RNA binding, protein kinase C binding, insulin-like growth factor receptor binding, protein binding, protein kinase C inhibitor activity, prote domain specific binding, receptor tyrosine kinase binding, identical protein binding, phosphoserine binding, Cell cycle, Oocyte meiosis, P13K-Akt signaling pathway, Hippo signaling pathway, Hepatitis C, Viral carcinogenesis,
UP_KW_CELLULAR_COMPONENT UP_KW_DISEASE UP_KW_DOMAIN UP_KW_LIGAND UP_KW_MOLECULAR_FUNCTION UP_SEQ_FEATURE YWHAG GOTERM_BP_DIRECT GOTERM_MF_DIRECT INTERPRO KEGG_PATHWAY OMIM_DISEASE	Nucleus, Cytoplasm, Disease variant, Coiled coil, Repeat, Zinc-finger, Metal-binding, Zinc, Transferase, DOMAIN:RING-type, MUTAGEN:C->A: Complete loss of ubiquitination activity on MAP3K7/TAK1., MUTAGEN:C->S: Complete loss of ubiquitination activity on TICAM1., REGION:Disordered, ZN_FING:B box-type 1, ZN_FING:B box-type 2, ZN_FING:RING-type, tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein gamma(YWHAG) negative regulation of protein kinase activity, protein targeting, signal transduction, regulation of signal transduction, cellular response to insulin stimulus, cellular response to glucose starvation, regulation of neuron differentiation, regulation of synaptic plasticity, negative regulation of TORC1 signaling, Cytoplasm, cytosol, focal adhesion, membrane, extracellular exosome, presynapse, RNA binding, protein kinase C binding, insulin-like growth factor receptor binding, protein binding, protein kinase C inhibitor activity, protein domain specific binding, receptor tyrosine kinase binding, identical protein binding, phosphoserine binding, 14-3-3, 14-3-3 CS, 14-3-3 domain, 14-3-3 dom sf, Cell cycle, Oocyte meiosis, PI3K-Akt signaling pathway, Hippo signaling pathway, Hepatitis C, Viral carcinogenesis, Developmental and epileptic encephalopathy 56,
UP_KW_CELLULAR_COMPONENT UP_KW_DISEASE UP_KW_DOMAIN UP_KW_LIGAND UP_KW_MOLECULAR_FUNCTION UP_SEQ_FEATURE YWHAG GOTERM_BP_DIRECT GOTERM_MF_DIRECT INTERPRO KEGG_PATHWAY OMIM_DISEASE PIR_SUPERFAMILY	Nucleus, Cytoplasm, Disease variant, Coiled coil, Repeat, Zinc-finger, Metal-binding, Zinc, Transferase, DOMAIN:RING-type, MUTAGEN:C->A: Complete loss of ubiquitination activity on MAP3K7/TAK1., MUTAGEN:C->S: Complete loss of ubiquitination activity on TICAM1., REGION:Disordered, ZN_FING:B box-type 1, ZN_FING:B box-type 2, ZN_FING:RING-type, tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein gamma(YWHAG) negative regulation of protein kinase activity, protein targeting, signal transduction, regulation of signal transduction, cellular response to insulin stimulus, cellular response to glucose starvation, regulation of neuron differentiation, regulation of synaptic plasticity, negative regulation of TORC1 signaling, cytoplasm, cytosol, focal adhesion, membrane, extracellular exosome, presynapse, RNA binding, protein kinase C binding, insulin-like growth factor receptor binding, protein binding, protein kinase C inhibitor activity, protein domain specific binding, receptor tyrosine kinase binding, identical protein binding, phosphoserine binding, 14-3-3 CS, 14-3-3 domain, 14-3-3 dom sf, Cell cycle, Oocyte meiosis, PI3K-Akt signaling pathway, Hippo signaling pathway, Hepatitis C, Viral carcinogenesis, Developmental and epileptic encephalopathy 56, 14-3-3,
UP_KW_CELLULAR_COMPONENT UP_KW_DISEASE UP_KW_DOMAIN UP_KW_LIGAND UP_KW_MOLECULAR_FUNCTION UP_SEQ_FEATURE YWHAG GOTERM_BP_DIRECT GOTERM_MF_DIRECT INTERPRO KEGG_PATHWAY OMIM_DISEASE PIR_SUPERFAMILY SMART	Nucleus, Cytoplasm, Disease variant, Coiled coil, Repeat, Zinc-finger, Metal-binding, Zinc, Transferase, DOMAIN:RING-type, MUTAGEN:C->A: Complete loss of ubiquitination activity on MAP3K7/TAK1., MUTAGEN:C->S: Complete loss of ubiquitination activity on TICAM1., REGION:Disordered, ZN_FING:B box-type 1, ZN_FING:B box-type 2, ZN_FING:RING-type, tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein gamma(YWHAG). Related Genes Homo sapiens regulation of protein kinase activity, protein targeting, signal transduction, regulation of signal transduction, cellular response to insulin stimulus, cellular response to glucose starvation, regulation of neuron differentiation, regulation of synaptic plasticity, negative regulation of TORC1 signalling, cytoplasm, cytosol, focal adhesion, membrane, extracellular exosome, presynapse, RNA binding, protein kinase C binding, insulin-like growth factor receptor binding, protein binding, protein kinase C inhibitor activity, proteinomain specific binding, receptor tyrosine kinase binding, identical protein binding, phosphoserine binding, 14-3-3, 14-3-3 CS, 14-3-3 domain, 14-3-3 dom sf, Cell cycle, Oocyte meiosis, PI3K-Akt signaling pathway, Hippo signaling pathway, Hepatitis C, Viral carcinogenesis, Developmental and epileptic encephalopathy 56, 14-3-3, 14-3-3,
UP_KW_CELLULAR_COMPONENT UP_KW_DISEASE UP_KW_DOMAIN UP_KW_LIGAND UP_KW_MOLECULAR_FUNCTION UP_SEQ_FEATURE YWHAG GOTERM_BP_DIRECT GOTERM_MF_DIRECT INTERPRO KEGG_PATHWAY OMIM_DISEASE PIR_SUPERFAMILY SMART UP_KW_CELLULAR_COMPONENT	Nucleus, Cytoplasm, Disease variant, Coiled coil, Repeat, Zinc-finger, Metal-binding, Zinc, Transferase, DOMAIN:RING-type, MUTAGEN:C->A: Complete loss of ubiquitination activity on MAP3K7/TAK1., MUTAGEN:C->S: Complete loss of ubiquitination activity on TICAM1., REGION:Disordered, ZN_FING:B box-type 1, ZN_FING:B box-type 2, ZN_FING:RING-type, tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein gamma(YWHAG) negative regulation of protein kinase activity, protein targeting, signal transduction, regulation of signal transduction, cellular response to insulin stimulus, cellular response to glucose starvation, regulation of neuron differentiation, regulation of synaptic plasticity, negative regulation of TORC1 signaling, cytoplasm, cytosol, focal adhesion, membrane, extracellular exosome, presynapse, RNA binding, protein kinase C binding, insulin-like growth factor receptor binding, protein binding, protein kinase C inhibitor activity, proteinomain specific binding, receptor tyrosine kinase binding, identical protein binding, phosphoserine binding, 14-3-3, 14-3-3 CS, 14-3-3 domain, 14-3-3 dom sf, Cell cycle, Oocyte meiosis, PI3K-Akt signaling pathway, Hippo signaling pathway, Hepatitis C, Viral carcinogenesis, Developmental and epileptic encephalopathy 56, 14-3-3, 14 3 3, Cytoplasm,
UP_KW_CELLULAR_COMPONENT UP_KW_DISEASE UP_KW_DOMAIN UP_KW_LIGAND UP_KW_MOLECULAR_FUNCTION UP_SEQ_FEATURE YWHAG GOTERM_BP_DIRECT GOTERM_MF_DIRECT INTERPRO KEGG_PATHWAY OMIM_DISEASE PIR_SUPERFAMILY SMART UP_KW_CELLULAR_COMPONENT UP_KW_DISEASE	Nucleus. Cytoplasm, Disease variant, Coiled coil, Repeat, Zinc-finger, Metal-binding, Zinc, Transferase, DOMAIN:RING-type, MUTAGEN:C->A: Complete loss of ubiquitination activity on MAP3K7/TAK1., MUTAGEN:C->S: Complete loss of ubiquitination activity on TICAM1., REGION:Disordered, ZN_FING:B box-type 1, ZN_FING:B box-type 2, ZN_FING:RING-type, tyrosine 3-menooxygenase/tryptophan 5-menooxygenase activation protein gamma(YWHAG). negative regulation of protein kinase activity, protein targeting, signal transduction, regulation of signal transduction, cellular response to insulin stimulus, cellular response to glucose starvation, regulation of neuron differentiation, regulation of synaptic plasticity, negative regulation of TORC1 signaling, cytoplasm, cytosol, focal adhesion, membrane, extracellular exosome, presynapse, RNA binding, protein kinase C binding, insulin-like growth factor receptor binding, protein binding, protein kinase C inhibitor activity, protein domain specific binding, receptor tyrosine kinase binding, identical protein binding, phosphoserine binding, 14-3-3, 14-3-3 domain, 14-3-3 dom sf, Cell cycle, Oocyte meiosis, PI3K-Akt signaling pathway, Hippo signaling pathway, Hepatitis C, Viral carcinogenesis, Developmental and epileptic encephalopathy 56, 14-3-3, 14-3-3, 14-3-3, Epilepsy,
UP_KW_CELLULAR_COMPONENT UP_KW_DISEASE UP_KW_DOMAIN UP_KW_LIGAND UP_KW_MOLECULAR_FUNCTION UP_SEQ_FEATURE YWHAG GOTERM_BP_DIRECT GOTERM_MF_DIRECT INTERPRO KEGG_PATHWAY OMIM_DISEASE PIR_SUPERFAMILY SMART UP_KW_CELLULAR_COMPONENT UP_KW_DISEASE UP_KW_PTM	Nucleus, Cytoplasm, Disease variant, Coiled coil, Repeat, Zinc-finger, Metal-binding, Zinc, Transferase, DOMAIN:RING-type, MUTAGEN:C->A: Complete loss of ubiquitination activity on MAP3K7/TAK1., MUTAGEN:C->S: Complete loss of ubiquitination activity on TICAM1., REGION:Disordered, ZN_FING:B box-type 1, ZN_FING:B box-type 2, ZN_FING:RING-type, tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein gamma(YWHAG) negative regulation of protein kinase activity, protein targeting, signal transduction, regulation of signal transduction, cellular response to insulin stimulus, cellular response to glucose starvation, regulation of neuron differentiation, regulation of synaptic plasticity, negative regulation of TORC1 signaling, Cytoplasm, cytosol, focal adhesion, membrane, extracellular exosome, presynapse, RNA binding, protein kinase C binding, insulin-like growth factor receptor binding, protein binding, protein kinase C inhibitor activity, protein domain specific binding, receptor tyrosine kinase binding, identical protein binding, phosphoserine binding, 14-3-3, 14-3-3 CS, 14-3-3 domain, 14-3-3 dom sf, Cell cycle, Oocyte meiosis, P13K-Akt signaling pathway, Hippo signaling pathway, Hepatitis C, Viral carcinogenesis, Developmental and epileptic encephalopathy 56, 14-3-3, 14-3-3, 2, Cytoplasm, Disease variant, Epilepsy, Acetylation, Phosphoprotein,
UP_KW_CELLULAR_COMPONENT UP_KW_DISEASE UP_KW_DOMAIN UP_KW_LIGAND UP_KW_MOLECULAR_FUNCTION UP_SEQ_FEATURE YWHAG GOTERM_BP_DIRECT GOTERM_MF_DIRECT INTERPRO KEGG_PATHWAY OMIM_DISEASE PIR_SUPERFAMILY SMART UP_KW_CELLULAR_COMPONENT UP_KW_DISEASE UP_KW_PTM UP_SEQ_FEATURE	Nucleus, Cytoplasm, Disease variant, Colled coil, Repeat, Zinc-finger, Metal-binding, Zinc, Transferase, DOMAIN:RING-type, MUTAGEN:C->A: Complete loss of ubiquitination activity on MAP3K7/TAK1., MUTAGEN:C->S: Complete loss of ubiquitination activity on TICAM1., REGION:Disordered, ZN_FING:B box-type 1, ZN_FING:B box-type 2, ZN_FING:RING-type, tyrosine 3-monooxygenase/fryptophan 5-monooxygenase activation protein gamma(YWHAG) Related Genes Homo sapiens Related Genes Homo sapiens regulation of protein kinase activity, protein targeting, signal transduction, regulation of signal transduction, cellular response to insulin stimulus, cellular response to elucose starvation, regulation of neuron differentiation, regulation of synaptic plasticity, negative regulation of TORC1 signaling, Cytoplasm, cytosol, focal adhesion, membrane, extracellular exosome, presynapse, RNA binding, protein kinase C binding, insulin-like growth factor receptor binding, protein binding, protein kinase C inhibitor activity, protein domain specific binding, receptor tyrosine kinase binding, identical protein binding, phosphoserine binding, 14-3-3, 14-3-3 CS, 14-3-3 domain, 14-3-3 dom sf, Cell cycle, Oocyte meiosis, PI3K-Akt signaling pathway, Hippo signaling pathway, Hepatitis C, Viral carcinogenesis, Developmental and epileptic encephalopathy 56, 14-3-3, 14-3-3, 14-3-3, STE:Interaction with phosphoserine on interacting protein, DOMAIN:14-3-3, SITE:Interaction with phosphoserine on interacting protein,
UP_KW_CELLULAR_COMPONENT UP_KW_DISEASE UP_KW_DOMAIN UP_KW_LIGAND UP_KW_MOLECULAR_FUNCTION UP_SEQ_FEATURE YWHAG GOTERM_BP_DIRECT GOTERM_MF_DIRECT INTERPRO KEGG_PATHWAY OMIM_DISEASE PIR_SUPERFAMILY SMART UP_KW_CELLULAR_COMPONENT UP_KW_DISEASE UP_KW_PTM UP_SEQ_FEATURE ZFHX3	Nucleus, Cytoplasm, Disease variant, Coiled coil. Repeat, Zinc-finger, Metal-binding, Zinc, Transferase, DOMAIN:RING-type, MUTAGEN:C->A: Complete loss of ubiquitination activity on MAP3K7/TAK1., MUTAGEN:C->S: Complete loss of ubiquitination activity on TICAM1., REGION:Disordered, ZN_FING:B box-type 1, ZN_FING:B box-type 2, ZN_FING:RING-type, tyrosine 3-menooxygenase/tryptophan 5-menooxygenase activation protein gamma(YWHAG) negative regulation of protein kinase activity, protein targeting, signal transduction, regulation of signal transduction, cellular response to insulin stimulus, cellular response to qlucose starvation, regulation of neuron differentiation, regulation of synaptic plasticity, negative regulation of TORC1 signaling, cytoplasm, cytosol, focal adhesion, membrane, extracellular exosome, presynapse, RNA binding, protein kinase C binding, insulin-like growth factor receptor binding, protein binding, protein kinase C inhibitor activity, protein domain specific binding, receptor tyrosine kinase binding, identical protein binding, phosphoserine binding, 14-3-3, 14-3-3 CS, 14-3-3 domain, 14-3-3 dom sf, Cell cycle, Qocyte meiosis, PI3K-Akt signaling pathway, Hippo signaling pathway, Hepatitis C, Viral carcinogenesis, Developmental and epileptic encephalopathy 56, 14-3-3, 14-3-3, SITE:Interaction with phosphoserine on interacting protein, Disease variant, Epilepsy, Acetylation, Phosphoprotein, DOMAIN:14-3-3, SITE:Interaction with phosphoserine on interacting protein, Zinc finger homeobox 3(ZFHX3) Related Genes Homo sapiens Related Genes Related
UP_KW_CELLULAR_COMPONENT UP_KW_DISEASE UP_KW_DOMAIN UP_KW_LIGAND UP_KW_MOLECULAR_FUNCTION UP_SEQ_FEATURE YWHAG GOTERM_BP_DIRECT GOTERM_CC_DIRECT GOTERM_MF_DIRECT INTERPRO KEGG_PATHWAY OMIM_DISEASE PIR_SUPERFAMILY SMART UP_KW_CELLULAR_COMPONENT UP_KW_DISEASE UP_KW_PTM UP_SEQ_FEATURE ZFHX3 GOTERM_BP_DIRECT	Nucleus, Cytoplasm, Disease variant, Coiled coil, Reneat, Zinc-finger, Metal-binding, Zinc, Transferase, DOMAIN:RING-type, MUTAGEN:C->A: Complete loss of ubiquitination activity on MAP3K7/TAK1., MUTAGEN:C->S: Complete loss of ubiquitination activity on TICAM1., REGION:Disordered, ZN_FING:B box-type 1, ZN_FING:B box-type 2, ZN_FING:RING-type, Yyosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein gamma(YWHAG) negative regulation of protein kinase activity, protein targeting, signal transduction, regulation of signal transduction, cellular response to insulin stimulus, cellular response to glucose starvation, regulation of neuron differentiation, regulation of synaptic plasticity, negative regulation of TORC1 signaling, Cytoplasm, Cytosol, focal adhesion, membrane, extracellular exosome, presynapse, RNA binding, protein kinase C binding, insulin-like growth factor receptor binding, protein binding, protein kinase C inhibitor activity, prote domain specific binding, receptor tyrosine kinase binding, identical protein binding, phosphoserine binding, 14-3-3, 14-3-3 CS, 14-3-3 domain, 14-3-3 dom sf, Cell cycle, Oocyte meiosis, PI3K-Akt signaling pathway, Hippo signaling pathway, Hepatitis C, Viral carcinogenesis, Developmental and epileptic encephalopathy 56, 14-3-3, 14 3 3, Cytoplasm, Disease variant, Epilepsy, Acetylation, Phosphoprotein, DOMAIN:14-3-3, SITE:Interaction with phosphoserine on interacting protein, Zinc finger homeobox 3(ZFHX3) Related Genes Homo sapions Homo s
UP_KW_CELLULAR_COMPONENT UP_KW_DISEASE UP_KW_DOMAIN UP_KW_LIGAND UP_KW_MOLECULAR_FUNCTION UP_SEQ_FEATURE YWHAG GOTERM_BP_DIRECT GOTERM_MF_DIRECT INTERPRO KEGG_PATHWAY OMIM_DISEASE PIR_SUPERFAMILY SMART UP_KW_CELLULAR_COMPONENT UP_KW_DISEASE UP_KW_PTM UP_SEQ_FEATURE ZFHX3 GOTERM_BP_DIRECT	Nucleus, Cytoplasm, Disease variant, Coiled coil, Reneat, Zinc-finger, Metal-binding, Zinc, Transferase, DOMAIN:RING-type, MUTAGEN:C->A: Complete loss of ubiquitination activity on MAP3K7/TAK1., MUTAGEN:C->S: Complete loss of ubiquitination activity on TICAM1., REGION:Disordered, ZN_FING:B box-type 1, ZN_FING:B box-type 2, ZN_FING:RING-type, Yyrosine 3_monooxygenase/tryptophan 5-monooxygenase activation protein gamma(YWHAG) Related Genes Homo sapiens Related Genes Homo sapiens gamma(YWHAG) Repative regulation of protein kinase activity, protein targeting, signal transduction, regulation of signal transduction, cellular response to insulin stimulus, cellular response to glucose starvation, regulation of neuron differentiation, regulation of synaptic plasticity, negative regulation of TORC1 signaling, Cytoplasm, Cytosol, focal adhesion, membrane, extracellular exosome, presynapse, RNA binding, protein kinase C binding, insulin-like growth factor receptor binding, protein binding, protein kinase C inhibitor activity, protein domain specific binding, receptor tyrosine kinase binding, identical protein binding, phosphoserine binding, 14-3-3, 14-3-3 CS, 14-3-3 domain, 14-3-3 dom sf, Cell cycle, Oocyte meiosis, P13K-Akt signaling pathway, Hippo signaling pathway, Hepatitis C, Viral carcinogenesis, Developmental and epileptic encephalopathy 56, 14-3-3, 3, 14-3-3, SITE:Interaction with phosphoserine on interacting protein, DoMAIN:14-3-3, SITE:Interaction with phosphoserine on interacting protein, zinc finger homeobox 3(ZFHX3) Related Genes Homo sapiens negative regulation of transcription from RNA polymerase II promoter, regulation of transcription, positive regulation of ormyoblast differentiation, positive regulation of ormyoblast differentiation, positive regulation of formyoblast differentiation, positive regulation of transcription from RNA polymerase II promoter, response to transforming growth factor beta, regulation of locoror drythm, chromatin, pucleus, pucleoplasm, transcription factor complex, cytop
UP_KW_CELLULAR_COMPONENT UP_KW_DISEASE UP_KW_DOMAIN UP_KW_LIGAND UP_KW_MOLECULAR_FUNCTION UP_SEQ_FEATURE YWHAG GOTERM_BP_DIRECT GOTERM_MF_DIRECT INTERPRO KEGG_PATHWAY OMIM_DISEASE PIR_SUPERFAMILY SMART UP_KW_CELLULAR_COMPONENT UP_KW_DISEASE UP_KW_PTM UP_SEQ_FEATURE ZFHX3 GOTERM_BP_DIRECT	Nucleus, Cytoplasm, Disease variant, Coiled coil, Repeat, Zinc-finger, Metal-binding, Zinc, Transferase, DOMAIN:RING-type, MUTAGEN:C->A: Complete loss of ubiquitination activity on MAP3K/T/TAK1., MUTAGEN:C->S: Complete loss of ubiquitination activity on TicAM1., REGION:Disordered, ZN_FING:B box-type 1, ZN_FING:B box-type 2, ZN_FING:RING-type, totiquitination activity on TicAM1., REGION:Disordered, ZN_FING:B box-type 1, ZN_FING:B box-type 2, ZN_FING:RING-type, totiquitination activity on TicAM1., REGION:Disordered, ZN_FING:B box-type 1, ZN_FING:B box-type 2, ZN_FING:RING-type, totiquitination activity on TicAM1., REGION:Disordered, ZN_FING:B box-type 1, ZN_FING:B box-type 2, ZN_FING:RING-type, totiquitination activity on TicAM1., REGION:Disordered, ZN_FING:B box-type 1, ZN_FING:B box-type 2, ZN_FING:RING-type, totiquitination activity. totiquitination activity. totiquitination activity. totiquitination protein kinase activity. protein targeting, signal transduction, regulation of signal transduction, cellular response to insulin stimulus, cellular response to totiquitination of ToRC1 signaling. tytoplasm, cytosol, focal adhesion, membrane, extracellular exosome, presynapse, RNA binding, protein kinase C binding, insulin-like growth factor receptor binding, protein binding, protein kinase C inhibitor activity, protein an secific binding, receptor tyrosine kinase binding, identical protein binding, phosphoserine binding, 14-3-3, 14-3-3 CS, 14-3-3 domain, 14-3-3 dom sf, Cell cycle, Occyte meiosis, P13K-Akt signaling, pathway. Hippo signaling, pathway. Hepatitis C, Viral carcinogenesis, Developmental and epileptic encephalopathy 56, 14-3-3, 14-3-3, SITE:Interaction with phosphoserine on interacting protein, Time finger nomeobox 3(ZEHX3) negative regulation of transcription from RNA polymerase II promoter, regulation of transcription from RNA polymerase II promoter, response to transforming, growth factor beta, regulation of incoma differentiation, regulation of transcription from RNA polymerase II p
UP_KW_CELLULAR_COMPONENT UP_KW_DISEASE UP_KW_DOMAIN UP_KW_LIGAND UP_KW_MOLECULAR_FUNCTION UP_SEQ_FEATURE YWHAG GOTERM_BP_DIRECT GOTERM_MF_DIRECT INTERPRO KEGG_PATHWAY OMIM_DISEASE PIR_SUPERFAMILY SMART UP_KW_CELLULAR_COMPONENT UP_KW_DISEASE UP_KW_PTM UP_SEQ_FEATURE ZFHX3 GOTERM_BP_DIRECT	Nucleus, Cytoplasm, Disease variant, Coiled coil, Repeat, Zinc-finger, Metal-binding, Zinc, Transferase, DOMAIN:RING-type, MUTAGEN:C->A: Complete loss of ubiquitination activity on MAP3K7/TAK1, MUTAGEN:C->S: Complete loss of ubiquitination activity on TicAM1., REGION:Disordered, ZN_FING:B box-type 1, ZN_FING:B box-type 2, ZN_FING:RING-type, tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein gammal(WiHAG) Related Genes Homo saplens Related Genes Homo saplens regulation of protein kinase activity, protein targeting, signal transduction, regulation of signal transduction. cellular response to insulin stimulus. cellular response to glucose starvation, regulation of neuron differentiation, regulation of synaptic plasticity, negative regulation of TORC1 signaling, cytoplasm, cytosol, focal adhesion, membrane, extracellular exosome, presynapse, RNA binding, protein kinase C binding, insulin-like growth factor receptor binding, protein binding, protein kinase C inhibitor activity, protein domain specific binding, receptor tyrosine kinase binding, identical protein binding, phosphoserine binding, 14-3-3, 14-3-3, CS, 14-3-3 domain, 14-3-3 dom sf, Cell cycle, Oocyte meiosis, PI3K-Akt signaling pathway, Hippo signaling pathway, Hepatitis C, Viral carcinogenesis, Developmental and epileptic encephalopathy 56, 14-3-3, 14-3-3, STTE:Interaction with phosphoserine on interacting protein, Inc. finger homeobox 3(ZFHX3) Related Genes Homo saplens Related Genes Homo saplens Homo saplens Related Genes Homo saplens Homo saplens Homo saplens Related Genes Homo saplens H
UP_KW_CELLULAR_COMPONENT UP_KW_DISEASE UP_KW_DOMAIN UP_KW_LIGAND UP_KW_MOLECULAR_FUNCTION UP_SEQ_FEATURE YWHAG GOTERM_BP_DIRECT GOTERM_MF_DIRECT INTERPRO KEGG_PATHWAY OMIM_DISEASE PIR_SUPERFAMILY SMART UP_KW_CELLULAR_COMPONENT UP_KW_DISEASE UP_KW_PTM UP_SEQ_FEATURE ZFHX3 GOTERM_BP_DIRECT GOTERM_BP_DIRECT GOTERM_BP_DIRECT	Nucleus, Cytoplasm. Disease variant, Colled Coil, Repeat, Zinc-finger, Metal-binding, Zinc, Transferase, DOMAIN:RING-type, MUTAGEN:C->A: Complete loss of ubiquitination activity on MAP3K7/TAK1., MUTAGEN:C->S: Complete loss of ubiquitination activity on TicAM1., REGION:Disordered, ZN_FING:B box-type 1, ZN_FING:B box-type 2, ZN_FING:RING-type, tyrosinc 3-monooxygenase/tryptophan 5-monooxygenase activation protein gammalt/WHAG) Related Genes Homo saplens gammalt/WHAGG) Related Genes Homo saplens regulation of protein kinase activity, protein targeting, signal transduction, regulation of signal transduction, cellular response to insulin stimulus, cellular response to olucose starvation, regulation of neuron differentiation, regulation of synaptic plasticity, negative regulation of TORC1 signaling, regulation of TORC1 signaling, cytoplasm, cytosol, focal adhesion, membrane, extracellular exosome, presynapse, RNA binding, protein kinase C binding, insulin-like growth factor receptor binding, protein binding, protein kinase C inhibitor activity, protein domain specific binding, receptor tyrosine kinase binding, identical protein binding, protein binding, 14-3-3, 14-3-3, 14-3-3 (S, 14-3-3 domain, 14-3-3 dom sf, 14-3-3, 14
UP_KW_CELLULAR_COMPONENT UP_KW_DISEASE UP_KW_DOMAIN UP_KW_LIGAND UP_KW_MOLECULAR_FUNCTION UP_SEQ_FEATURE YWHAG GOTERM_CC_DIRECT GOTERM_MF_DIRECT INTERPRO KEGG_PATHWAY OMIM_DISEASE PIR_SUPERFAMILY SMART UP_KW_CELLULAR_COMPONENT UP_KW_DISEASE UP_KW_PTM UP_SEQ_FEATURE ZFHX3 GOTERM_BP_DIRECT GOTERM_BP_DIRECT GOTERM_BP_DIRECT GOTERM_BP_DIRECT	Nucleus, Cytoplasm, Disease variant, Coiled coil, Repeat, Zinc-finger, Metal-binding, Zinc, Transferase, DOMAIN:RING-type, MUTAGEN:C->A: Complete loss of ubiquitination activity on MAP3K7/TAK1., MUTAGEN:C->S: Complete loss of ubiquitination activity on TiCAM1., REGION:Disordered, ZN_FING:B box-type 1, ZN_FING:B box-type 2, ZN_FING:RING-type, syrosina 3-moneoxygenase(tryptophan 5-moneoxygenase activation protein gamma(YWHAG) yerosina 3-moneoxygenase(tryptophan 5-moneoxygenase) yerosina 3-moneoxygenase(tryptophan 5-moneoxygenase(tryptophan 5-moneoxygenase(trypt
UP_KW_CELLULAR_COMPONENT UP_KW_DISEASE UP_KW_DOMAIN UP_KW_LIGAND UP_KW_MOLECULAR_FUNCTION UP_SEQ_FEATURE YWHAG GOTERM_CC_DIRECT GOTERM_MF_DIRECT INTERPRO KEGG_PATHWAY OMIM_DISEASE PIR_SUPERFAMILY SMART UP_KW_CELLULAR_COMPONENT UP_KW_DISEASE UP_KW_PTM UP_SEQ_FEATURE ZFHX3 GOTERM_BP_DIRECT GOTERM_BP_DIRECT GOTERM_BP_DIRECT GOTERM_BP_DIRECT INTERPRO KEGG_PATHWAY	Nucleus, Cytoplasm, Disease variant, Coiled coil, Repeat, Zinc-finger, Metal-binding, Zinc, Transferase, DOMAIN:RING-type, MUTAGEN:C->A: Complete loss of ubiquitination activity on MAP3X/TAK1., MUTAGEN:C->S: Complete loss of ubiquitination activity on TICAM1., REGION: Disordered, ZN_FING:B box-type 1, ZN_FING:B box-type 2, ZN_FING:RING-type, Syrosine 3-monocygenase/tryptophan 5-monocygenase activation protein gamma(YWHAG) negative regulation of protein kinase activity, protein targeting, signal transduction, regulation of signal transduction, cellular response to insulin stimulus, cellular response to elucose starvation, regulation of neuron differentiation, regulation of synaptic plasticity, negative requiation of TORC1 signaling. Cytoplasm, Cytosol, focal adhesion, membrane, extracellular exosome, presynapse. RNA binding, protein kinase C binding, insulin-like growth factor receptor binding, oprotein binding, protein kinase C inhibitor activity, protein domain specific binding, receptor tyrosine kinase binding, identical protein binding, phosphosestine binding, 14-3-3, 14-3-3 (CS, 14-3-3 domain, 14-3-3) dom sf. Cell cycle, Ocycle meiosis, PistA-ekt signaling, pathway, Hippo signaling, pathway, Hepatitis C, Viral carcinogenesis, Developmental and epileptic encephalopathy 56. 14-3-3, Cytoplasm, Disease variant, Epilensy, Acetylation, Phosphoprotein, DOMAIN:14-3-3, SITE:Interaction with phosphoserine on interacting protein, zinc finger homeobox 3(zFHXS) Related Genes Homosaplana Related Genes Homosaplan
UP_KW_BIOLOGICAL_PROCESS UP_KW_CELLULAR_COMPONENT UP_KW_DISEASE UP_KW_DOMAIN UP_KW_LIGAND UP_KW_MOLECULAR_FUNCTION UP_SEQ_FEATURE YWHAG GOTERM_BP_DIRECT GOTERM_MF_DIRECT INTERPRO KEGG_PATHWAY OMIM_DISEASE PIR_SUPERFAMILY SMART UP_KW_CELLULAR_COMPONENT UP_KW_DISEASE UP_KW_PTM UP_SEQ_FEATURE ZFHX3 GOTERM_BP_DIRECT GOTERM_BP_DIRECT INTERPRO KEGG_PATHWAY UP_SEQ_FEATURE ZFHX3 GOTERM_BP_DIRECT INTERPRO KEGG_PATHWAY OMIM_DISEASE SMART	Nucleus, Cytoplasm, Disease variant, Coiled coil, Repeat, Zinc-finger, Metal-binding, Zinc, Transferase, DOMAIN:RING-type, MUTAGEN:C->A: Complete loss of ubiquitination activity on MAP3K7/TAK1., MUTAGEN:C->S: Complete loss of ubiquitination activity on TICAM1., REGION:Disordered, ZN_FING:B box-type 1, ZN_FING:B box-type 2, ZN_FING:RING-type, syrosina 3-moneoxygenase(tryptophan 5-moneoxygenase activation protein gamma(YWHAG) **Yosina 3-moneoxygenase(tryptophan 5-moneoxygenase(tryptophan gamma(YWHAG) **Yosina 3-moneoxygenase(tryptophan

ATP2B1	ATPase plasma membrane Ca2+ transporting 1(ATP2B1) Related Genes Homo sapiens		
UP_KW_CELLULAR_COMPONENT	<u>Nucleus</u> , <u>Cytoplasm</u> ,		
UP_KW_DOMAIN	<u>Coiled coil</u> , <u>Homeobox</u> , <u>Repeat</u> , <u>Zinc-finger</u> ,		
UP_KW_LIGAND	Metal-binding, Zinc,		
UP_KW_MOLECULAR_FUNCTION	Activator, DNA-binding, Repressor,		
UP_KW_PTM	Phosphoprotein, Ubl conjugation, Isopeptide bond,		
UP_SEQ_FEATURE	COMPBIAS:Acidic residues, COMPBIAS:Basic and acidic residues, COMPBIAS:Polar residues, COMPBIAS:Pro residues, CROSSLNK:Glycyl lysine isopeptide (Lys-Gly) (interchain with G-Cter in SUMO1), CROSSLNK:Glycyl lysine isopeptide (Lys-Gly) (interchain with G-Cter in SUMO1); alternate, CROSSLNK:Glycyl lysine isopeptide (Lys-Gly) (interchain with G-Cter in SUMO2); alternate, DNA_BIND:Homeobox 1, DNA_BIND:Homeobox 2, DNA_BIND:Homeobox 3, DNA_BIND:Homeobox 4, DOMAIN:C2H2-type, MOTIF:Nuclear localization signal, MUTAGEN:K->A: Loss of sumoylation., MUTAGEN:KR->AAA: Loss of nuclear localization., REGION:Disordered, ZN_FING:C2H2-type 10; atypical, ZN_FING:C2H2-type 11; atypical, ZN_FING:C2H2-type 12, ZN_FING:C2H2-type 13, ZN_FING:C2H2-type 14, ZN_FING:C2H2-type 15, ZN_FING:C2H2-type 16, ZN_FING:C2H2-type 17, ZN_FING:C2H2-type 18, ZN_FING:C2H2-type 19; atypical, ZN_FING:C2H2-type 1; degenerate, ZN_FING:C2H2-type 2, ZN_FING:C2H2-type 20, ZN_FING:C2H2-type 21, ZN_FING:C2H2-type 22, ZN_FING:C2H2-type 23, ZN_FING:C2H2-type 3, ZN_FING:C2H2-type 4, ZN_FING:C2H2-type 5, ZN_FING:C2H2-type 6; atypical, ZN_FING:C2H2-type 7; degenerate, ZN_FING:C2H2-type 8; atypical, ZN_FING:C2H2-type 9; atypical,		
ZFX	zinc finger protein X-linked(ZFX) Related Genes Homo sapiens		
GOTERM_BP_DIRECT	ovarian follicle development, regulation of transcription, DNA-templated, regulation of transcription from RNA polymerase II promoter, spermatogenesis, fertilization, post-embryonic development, multicellular organism growth, positive regulation of transcription from RNA polymerase II promoter, oocyte development, homeostasis of number of cells, parental behavior,		
GOTERM_CC_DIRECT	chromatin, nucleus, nucleoplasm, chromosome, nucleolus,		
GOTERM_MF_DIRECT	RNA polymerase II core promoter proximal region sequence-specific DNA binding, transcriptional activator activity, RNA polymerase II transcription regulatory region sequence-specific binding, DNA binding, chromatin insulator sequence binding, metal ion binding,		
INTERPRO	Transcrp activ Zfx/Zfy-dom, Znf C2H2 type, Znf C2H2 sf,		
SMART	ZnF C2H2,		
UP_KW_BIOLOGICAL_PROCESS	<u>Transcription</u> , <u>Transcription regulation</u> ,		
UP_KW_CELLULAR_COMPONENT	<u>Nucleus,</u>		
UP_KW_DOMAIN	Repeat, Zinc-finger,		
UP_KW_LIGAND	Metal-binding, Zinc,		
UP_KW_MOLECULAR_FUNCTION	Activator, DNA-binding,		
UP_KW_PTM	Phosphoprotein,		
UP_SEQ_FEATURE	DOMAIN:C2H2-type, DOMAIN:Transcriptional activator Zfx / Zfy, REGION:Disordered, ZN_FING:C2H2-type 1, ZN_FING:C2H2-type 10, ZN_FING:C2H2-type 11, ZN_FING:C2H2-type 12, ZN_FING:C2H2-type 13, ZN_FING:C2H2-type 2, ZN_FING:C2H2-type 3, ZN_FING:C2H2-type 4, ZN_FING:C2H2-type 5, ZN_FING:C2H2-type 6, ZN_FING:C2H2-type 7, ZN_FING:C2H2-type 8, ZN_FING:C2H2-type 9,		

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