

AmiGO2 Annotation of CD24 Co-Expressed Genes			
Gene Symbol	Gene Name	Biological Process	Cell Component
APIAR	Adaptor-related protein complex 1 associated regulatory protein	Negative Regulation Of Receptor Recycling	Nucleolus
		Regulation Of Arp2/3 Complex-Mediated Actin Nucleation	Cytoplasm
		Cell Protein Localization	Endosome
		Vesicle Targeting, Trans-Golgi To Endosome	Golgi Apparatus
		Negative Regulation Of Substrate Adhesion-Dependent Cell Spreading	Transport Vesicle
		Negative Regulation Of Cell Motility	
BAP1	BRCA1 associated protein-1 (ubiquitin carboxy-terminal hydrolase)	Regulation Of Cell Growth	Intracellular
		Proteolysis	Nucleus
		Ubiquitin-Dependent Protein Catabolic Processes	Cytoplasm
		Negative Regulation Of Cell Proliferation	Polycomb Repressive Deubiquitinase Complex
		Chromatin Modification	
		Protein Deubiquitiation	
		Monoubiquitinated Protein Deubiquitiation	
		Monoubiquitinated Histone H2A Deubiquitiation	
		Regulation Of Cell Cycle	
Protein K48-Linked Deubiquitination			
BCL2L1	BCL2-Like 1	Cytokinesis	Intracellular
		Ovarian Follicle Development	Nucleus
		In Utero Embryonic Development	Cytoplasm
		Release Of Cytochrome C From Mitochondria	Mitochondrion
		Response To Ischemia	Mitochondrial Envelope
		Apoptotic Process	Mitochondrial Outer Membrane
		Mitotic Cell Cycle Checkpoint	Mitochondrial Inner Membrane
		Germ Cell Development	Centrosome
		Spermatogenesis	Cytosol
		Cell Proliferation	Cytoskeleton
		Positive Regulation Of Cell Proliferation	Membrane
		Male Gonad Development	Integral Component Of Membrane
		Intrinsic Apoptotic Signalling Pathway In Response To Dna Damage	Cell Junction
		Response To Radiation	Cytoplasmic Vesicle
		Fertilization	Synapse
		Response To Virus	Bcl-2 Family Protein Complex
		Suppression By Virus Of Host Apoptotic Process	
		Response To Cytoine	
		Growth	
		Regulation Of Apoptotic Process	
Negative Regulation Of Apoptotic Process			
Negative Regulation Of Cysteine-Type Endopeptidase Activity			
Involved In Apoptotic Process			

Gene Symbol	Gene Name	Biological Process	Cell Component
		Negative Regulation Of Neuron Apoptotic Process	
		Response To Cycloheximide	
		Regulation Of Mitochondrial Membrane Permeability	
		Neuron Apoptotic Process	
		Regulation Of Mitochondrial Membrane Potential	
		Cell Process Regulating Host Cell Cycle In Response To Virus	
		Mitochondrion Morphogenesis	
		Cellular Response To Amino Acid Stimulus	
		Cellular Response To Alkaloid	
		Cellular Response To Gamma Radiation	
		Apoptotic Process In Bone Marrow	
		Negative Regulation Of Establishment Of Protein Localization To The Plasma Membrane	
		Negative Regulation Of Release Of Cytochrome C From Mitochondria	
		Extrinsic Apoptotic Signalling Pathway In Absence Of Ligand	
		Hepatocyte Apoptotic Process	
		Negative Regulation Of Execution Phase Of Apoptosis	
		Negative Regulation Of Intrinsic Apoptotic Signalling Pathway In Response To Dna Damage	
		Negative Regulation Of Anoikis	
		Negative Regulation Of Intrinsic Apoptotic Signalling Pathway	
		Negative Regulation Of Intrinsic Apoptotic Signalling Pathway	
BTBD10	BTB (POZ) domain containing 10	Positive Regulation Of Phosphorylation	Nucleus
		Type B Pancreatic Cell Proliferation	Cytoplasm
		Negative Regulation Of Neuron Death	
CAPSL	Calcyphosine-like	Biological Process	Cellular Component
			Cytoplasm
CD24	CD24 molecule	Cell Activation	Intracellular
		Regulation Of Cytokine-Mediated Signaling Pathway	Cell
		Response To Molecule Of Bacterial Origin	Cytosol
		Pre-B Cell Differentiation	Plasma Membrane
		Leukocyte Migration Involved In Inflammatory Response	External Side Of Plasma Membrane
		Positive Regulation Of T Cell Mediated Immune Response To Tumor Cell	Cell Surface
		Positive Regulation Of Inflammatory Response To Antigenic Stimulus	Membrane
		Positive Regulation Of B Cell Apoptotic Process	Anchored Component Of Membrane
		Cell Adhesion	Anchored Component Of External Side Of Plasma Membrane
		Heterophilic Cell-Cell Adhesion Via Plasma Membrane Cell Adhesion Molecules	Microvillus Membrane
		Leukocyte Cell-Cell Adhesion	Membrane Raft
		Cell Surface Receptor Signaling Pathway	Ciliary Membrane
		Positive Regulation Of Cytosolic Calcium Ion Concentration	

Gene Symbol	Gene Name	Biological Process	Cell Component
		Neuromuscular Synaptic Transmission	
		Negative Regulation Of Neuroblast Proliferation	
		Apoptotic Mitochondrial Changes	
		Positive Regulation Of Neuron Projection Development	
		Cell Migration	
		Regulation Of Cell-Cell Adhesion	
		Positive Regulation Of Cell-Cell Adhesion	
		Apoptotic Nuclear Changes	
		Negative Regulation Of B Cell Proliferation	
		Neuron Projection Development	
		T Cell Costimulation	
		Chemokine Receptor Transport Out Of Membrane Raft	
		Negative Regulation Of Transforming Growth Factor Beta3 Production	
		Positive Regulation Of Integrin Activation	
		Positive Regulation Of Cell Adhesion Mediated By Integrin	
		Regulation Of Cell-Cell Adhesion Mediated By Integrin	
		Positive Regulation Of Cell-Cell Adhesion Mediated By Integrin	
		Negative Regulation Of Erythrocyte Clearance	
		Homotypic Cell-Cell Adhesion	
		Negative Regulation Of Erythrocyte Aggregation	
		Positive Regulation Of T Cell Homeostatic Proliferation	
		Positive Regulation Of Activated T Cell Proliferation	
		Regulation Of Phosphorylation	
		Cholesterol Homeostasis	
		Positive Regulation Of Map Kinase Activity	
		Regulation Of Mapk Cascade	
		Response To Estrogen	
		Regulation Of B Cell Differentiation	
		Negative Regulation Of Neuron Differentiation	
		Respiratory Burst	
		Negative Regulation Of T Cell Homeostatic Proliferation	
		Positive Regulation Of Alpha-Beta T Cell Proliferation	
		Synaptic Vesicle Endocytosis	
		Positive Regulation Of Peptidyl-Tyrosine Phosphorylation	
		Negative Regulation Of Neurogenesis	
		Positive Regulation Of Calcium-Mediated Signaling	
		Positive Regulation Of Protein Tyrosine Kinase Activity	
		Apoptotic Signaling Pathway	
COQ7	Coenzyme Q7 homolog, ubiquinone (yeast)	Age-Dependent Response To Oxidative Stress	Nucleus
		In Utero Embryonic Development	Mitochondrion
		Neural Tube Formation	Mitochondrial Inner Membrane
		Ubiquinone Biosynthetic Process	Membrane
		Response To Oxidative Stress	

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		Determination Of Adult Lifespan	
		Neurogenesis	
		Respiratory Electron Transport Chain	
		Cellular Response To Oxidative Stress	
		Mitochondrial Atp Synthesis Coupled Electron Transport	
		Oxidation-Reduction Process	
		Mitochondrion Morphogenesis	
CSRP2	Cysteine and glycine-rich protein 2	Multicellular Organismal Development	Nucleus
		Cell Differentiation	Focal Adhesion
DCK	Deoxycytidine kinase	Nucleobase-Containing Compound Metabolic Process	Nucleus
		Pyrimidine Nucleotide Metabolic Process	Cytosol
		Deoxyribonucleoside Monophosphate Biosynthetic Process	
		Nucleotide Biosynthetic Process	
		Phosphorylation	
		Drug Metabolic Process	
		Deoxycytidine Metabolic Process	
		Respiratory Electron Transport Chain	
		Cellular Response To Oxidative Stress	
		Mitochondrial Atp Synthesis Coupled Electron Transport	
		Oxidation-Reduction Process	
		Mitochondrion Morphogenesis	
DDC	Dopa decarboxylase (aromatic L-amino acid decarboxylase)	Cellular Amino Acid Metabolic Process	Cytoplasm
		Response To Toxic Substance	Synaptic Vesicle
		Synaptic Vesicle Amine Transport	Axon
		Carboxylic Acid Metabolic Process	Neuronal Cell Body
		Dopamine Biosynthetic Process	Extracellular Vesicle Exosome
		Catecholamine Biosynthetic Process	
		Serotonin Biosynthetic Process	
DNAJC21	DnaJ (Hsp40) homolog, subfamily C, member 21	Biological Process	Cellular Component
EGFL6	EGF-like-domain, multiple 6	Cell Adhesion	Extracellular Region
		Multicellular Organismal Development	Proteinaceous Extracellular Matrix
		Positive Regulation Of Cell-Substrate Adhesion	Basement Membrane
		Cell Differentiation	Membrane
		Extracellular Matrix Organization	Extracellular Matrix
EHD2	EH-domain containing	Endocytosis	Endosome
		Cortical Actin Cytoskeleton Organization	Plasma Membrane
		Endocytic Recycling	Caveola

Gene Symbol	Gene Name	Biological Process	Cell Component
		Protein Localization To Plasma Membrane	Membrane
		Positive Regulation Of Myoblast Fusion	Perinuclear Region Of Cytoplasm
		Positive Regulation Of Endocytic Recycling	Recycling Endosome Membrane
			Extracellular Vesicle Exosome
ELOF1	Elongation factor 1 homolog (S. cerevisiae)	Transcription, Dna-Templated	Cell Component
		Regulation Of Transcription, Dna-Templated	Nucleus
		Translation	
		Biological Process	
FCHO1	FCH domain only 1	Endocytosis	Plasma Membrane
		Clathrin Coat Assembly	Coated Pit
		Clathrin-Mediated Endocytosis	Membrane
GFRA1	GDNF family receptor alpha 1	Transmembrane Receptor Protein Tyrosine Kinase Signaling Pathway	Extracellular Space
		Nervous System Development	Plasma Membrane
		Anatomical Structure Morphogenesis	External Side Of Plasma Membrane
		Cell Migration	Membrane
		Neuron Differentiation	Extrinsic Component Of Membrane
		Neuron Projection Development	Axon
			Anchored Component Of Membrane
			Neuronal Cell Body
			Receptor Complex
			Extracellular Vesicular Exosome
GPAM	Glycerol-3-phosphate acyltransferase, mitochondrial	Lipid Metabolic Process	Mitochondrion
		Fatty Acid Metabolic Process	Mitochondrial Outer Membrane
		Acyl-Coa Metabolic Process	Mitochondrial Inner Membrane
		Triglyceride Metabolic Process	Plasma Membrane
		Glycerophospholipid Metabolic Process	Membrane
		Metabolic Process	Integral Component Of Membrane
		Phospholipid Biosynthetic Process	Mitochondrial Membrane
		Response To Glucose	
		Positive Regulation Of Triglyceride Biosynthetic Process	
		Response To Activity	
		Triglyceride Biosynthetic Process	
		Cellular Response To Insulin Stimulus	
		Positive Regulation Of Multicellular Organism Growth	
		Positive Regulation Of Activated T Cell Proliferation	
		Cellular Lipid Metabolic Process	
		Regulation Of Cytokine Secretion	
		Defense Response To Virus	
		Fatty Acid Homeostasis	

Gene Symbol	Gene Name	Biological Process	Cell Component
		Phospholipid Homeostasis	
		Negative Regulation Of Activation-Induced Cell Death Of T Cells	
		Interleukin-2 Secretion	
GPR12	G protein-coupled receptor 12	Cellular Calcium Ion Homeostasis	Cell
		Signal Transduction	Plasma Membrane
		G-Protein Coupled Receptor Signalling Pathway	Membrane
			Integral Component Of Membrane
HDAC5	Histone deacetylase 5	Negative Regulation Of Transcription From Rna Polymerase Ii Promoter	Histone Deacetylase Complex
		Osteoblast Development	Nucleus
		Transcription, Dna-Templated	Cytoplasm
		Regulation Of Transcription, Dna-Templated	Golgi Apparatus
		Transcription From Rna Polymerase Ii Promoter	Cytosol
		Inflammatory Response	Nuclear Body
		Nervous System Development	Protein Complex
		Heart Development	
		Regulation Of Myotube Differentiation	
		Negative Regulation Of Myotube Differentiation	
		Chromatin Modification	
		Histone Deacetylation	
		B Cell Differentiation	
		Multicellular Organismal Response To Stress	
		Regulation Of Gene Expression, Epigenetic	
		B Cell Activation	
		Response To Cocaine	
		Response To Drug	
		Regulation Of Protein Binding	
		Negative Regulation Of Osteoblast Differentiation	
		Negative Regulation Of Striated Muscle Tissue Development	
		Negative Regulation Of Transcription, Dna-Templated	
		Positive Regulation Of Transcription From Rna Polymerase Ii Promoter	
		Regulation Of Skeletal Muscle Fiber Development	
		Positive Regulation Of Sequence-Specific Dna Binding Transcription Factor Activity	
		Regulation Of Striated Muscle Cell Differentiation	
		Renal Tubule Morphogenesis	
		Cellular Response To Fluid Shear Stress	
		Negative Regulation Of Cell Migration Involved In Sprouting	
		Angiogenesis	
		Positive Regulation Of Neural Precursor Cell Proliferation	
		Positive Regulation Of Stem Cell Proliferation	

Gene Symbol	Gene Name	Biological Process	Cell Component
HSPA2	Heat Shock 70kDa Protein2	Positive Regulation Of Protein Phosphorylation	Synaptonemal Complex
		Male Meiosis	Male Germ Cell Nucleus
		Male Meiosis I	Nucleus
		Spermatid Development	Mitochondrion
		Positive Regulation Of Cyclin-Dependent Protein Serine/Threonine Kinase Activity Involved In G2/M Transition Of Mitotic Cell Cycle	Cytosol
		Protein Refolding	Cell Surface
		Synaptonemal Complex Disassembly	Membrane
		Negative Regulation Of Inclusion Body Assembly	Catsper Complex
			Extracellular Vesicular Exosome
			Blood Microparticle
		IRS1	Insulin receptor substrate 1
Signal Transduction	Nucleus		
Insulin Receptor Signaling Pathway	Cytoplasm		
Regulation Of Gene Expression	Cytosol		
Positive Regulation Of Glucose Metabolic Process	Plasma Membrane		
Phosphatidylinositol 3-Kinase Signaling	Insulin Receptor		
Lipid Catabolic Process	Caveola		
Insulin Secretion	Ciliary Basal Body		
Positive Regulation Of Cell Migration	Intracellular Membrane-Bounded Organelle		
Mammary Gland Development			
Response To Caffeine			
Positive Regulation Of Fatty Acid Beta-Oxidation			
Response To Insulin			
Cellular Response To Insulin Stimulus			
Protein Localization To Nucleus			
Positive Regulation Of Phosphorylation			
Response To Peptide Hormone			
Protein Kinase B Signaling			
Positive Regulation Of Phosphatidylinositol 3-Kinase Activity			
Positive Regulation Of Glycogen Biosynthetic Process			
Positive Regulation Of Glucose Import			
Negative Regulation Of Insulin Receptor Signaling Pathway			
Positive Regulation Of Insulin Receptor Signaling Pathway			
Negative Regulation Of Insulin Secretion			
Insulin-Like Growth Factor Receptor Signaling Pathway			
Protein Heterooligomerization			
Positive Regulation Of Glucagon Secretion			
Negative Regulation Of Somatostatin Secretion			
Positive Regulation Of Glucose Import In Response To Insulin Stimulus			
MARCKS	Myristoylated alanine-rich protein kinase C substrate	None	Cytoplasm

Gene Symbol	Gene Name	Biological Process	Cell Component
		Molecular Function:	Centrosome
		Actin Binding	Cytoskeleton
		Protein Kinase C Binding	Cell Cortex
		Protein Binding	Membrane
		Calmodulin Binding	Germinal Vesicle
MCF2L	MCF.2 cell line derived transforming sequence-like	Rho Protein Signal Transduction	Extracellular Space
		Positive Regulation Of Rho Gtpase Activity	Intracellular
		Intracellular Signal Transduction	Cytoplasm
		Positive Regulation Of Transcription From Rna Polymerase Ii Promoter	Plasma Membrane
			Membrane
			Lamellipodium
MYEF2	Myosin, light chain 4, alkali; atrial, embryonic	Regulation Of The Force Of Heart Contraction	Myosin Complex
		Positive Regulation Of Atpase Activity	A Band
		Cardiac Muscle Contraction	
P2RX3	Purinergic receptor P2X, ligand-gated ion channel, 3	Response To Hypoxia	Integral Component Of Nuclear Inner Membrane
		Transport	Rough Endoplasmic Reticulum
		Ion Transport	Golgi Apparatus
		Cation Transport	Integral Component Of Plasma Membrane
		Synaptic Transmission	Membrane
		Neuromuscular Synaptic Transmission	Integral Component Of Membrane
		Response To Temperature Stimulus	Axon
		Response To Heat	Neuron Projection
		Response To Cold	Neuronal Cell Body
		Response To Mechanical Stimulus	Terminal Bouton
		Response To Carbohydrate	Dendritic Spine
		Response To Organic Substance	Receptor Complex
		Urinary Bladder Smooth Muscle Contraction	Membrane Raft
		Neuronal Action Potential	
		Peristalsis	
		Response To Atp	
		Purinergic Nucleotide Receptor Signaling Pathway	
		Regulation Of Synaptic Plasticity	
		Behavioral Response To Pain	
		Sensory Perception Of Taste	
		Protein Homooligomerization	
		Cation Transmembrane Transport	
PLA2G12A	Phospholipase A2, group XIIA	Lipid Metabolic Process	Extracellular Region

Gene Symbol	Gene Name	Biological Process	Cell Component
		Phospholipid Metabolic Process	Intracellular
		Lipid Catabolic Process	Cytoplasm
			Endoplasmic Reticulum
			Golgi Apparatus
PRELID1	PRELI domain containing 1	Transport	Nucleus
		Lipid Transport	Mitochondrion
		Apoptotic Process	Mitochondrion Intermembrane Space
		Negative Regulation Of Mitochondrial Membrane Potential	Protein Complex
		Positive Regulation Of Endopeptidase Activity	
		Phospholipid Transport	
		Negative Regulation Of Apoptotic Process	
		Regulation Of T Cell Differentiation	
PREP	Prolyl endopeptidase	Proteolysis	Nucleus
		Protein Metabolic Process	Cytoplasm
			Cytosol
			Membrane
PTGR1	Prostaglandin Reductase 1	Oxidative-Reduction Process	Cytoplasm
			Extracellular Vesicular Exosome
RABL5	RAB, member RAS oncogene family-like 5	No Ontology: Human Given	Centrosome
		Small Gtpase Mediated Signal Transduction	Cilium
			Intraciliary Transport Particle B
SMARCA4	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 4	Negative Regulation Of Transcription From Rna Polymerase Ii Promoter	Nuclear Chromatin
		Cell Morphogenesis	Heterochromatin
		Blood Vessel Development	Extracellular Space
		Vasculogenesis	Nucleus
		In Utero Embryonic Development	Nuclear Euchromatin
		Blastocyst Growth	Perichromatin Fibrils
		Blastocyst Hatching	Nucleolus
		Liver Development	Membrane
		Outflow Tract Morphogenesis	Swi/Snf Complex
		Atp Catabolic Process	Protein Complex
		Nucleosome Assembly	Npbf Complex
		Nucleosome Disassembly	Nbaf Complex
		Chromatin Remodeling	
		Methylation-Dependent Chromatin Silencing	
		Transcription, Dna-Templated	
		Regulation Of Transcription, Dna-Templated	

Gene Symbol	Gene Name	Biological Process	Cell Component
		Transcription From Rna Polymerase Ii Promoter	
		Nervous System Development	
		Glial Cell Fate Determination	
		Heart Development	
		Positive Regulation Of Cell Proliferation	
		Dna Methylation On Cytosine Within A Cg Sequence	
		Chromatin Modification	
		Stem Cell Maintenance	
		Neurogenesis	
		Extracellular Matrix Organization	
		Keratinocyte Differentiation	
		Negative Regulation Of Cell Growth	
		Regulation Of Cell Migration	
		Forebrain Development	
		Hindbrain Development	
		Embryonic Hindlimb Morphogenesis	
		Aortic Smooth Muscle Cell Differentiation	
		Atp-Dependent Chromatin Remodeling	
		Negative Regulation Of Apoptotic Process	
		Positive Regulation Of Dna Binding	
		Positive Regulation By Host Of Viral Transcription	
		Histone H3 Acetylation	
		Positive Regulation Of Cell Differentiation	
		Negative Regulation Of Transcription, Dna-Templated	
		Positive Regulation Of Transcription, Dna-Templated	
		Positive Regulation Of Transcription From Rna Polymerase Ii Promoter	
		Embryonic Organ Morphogenesis	
		Epidermis Morphogenesis	
		Positive Regulation Of Sequence-Specific Dna Binding Transcription	
		Factor Activity	
		Definitive Erythrocyte Differentiation	
		Heart Trabecula Formation	
		Negative Regulation Of Androgen Receptor Signaling Pathway	
		Pharyngeal Arch Artery Morphogenesis	
		Lens Fiber Cell Development	
SPEF2	Sperm flagellar 2	Immune System Development	Manchette
		Spermatogenesis	Cytoplasm
		Fertilization	Golgi Apparatus
		Multicellular Organismal Aging	Sperm Midpiece
		Axoneme Assembly	
		Embryonic Neurocranium Morphogenesis	
		Skeletal System Morphogenesis	
		Brain Morphogenesis	

Gene Symbol	Gene Name	Biological Process	Cell Component
		Cilium Morphogenesis	
		Respiratory System Development	
THBD	Thrombomodulin	Female Pregnancy	Extracellular Space
		Blood Coagulation	Plasma Membrane
		Homeostasis	Cell Surface
		Embryo Development	Membrane
		Negative Regulation Of Coagulation	Integral Component Of Membrane
TIFA	TRAF-interacting protein with a forkhead-associated domain	I-Kappab Kinase/Nf-Kappab Signalling	Intracellular
TRIM2	Tripartite motif-containing 2	Protein Ubiquitination	Intracellular
		Regulation Of Neuron Apoptotic Process	Cytoplasm
UCHL1	Ubiquitin carboxyl-terminal esterase L1 (ubiquitin thiolesterase)	Response To Ischemia	Intracellular
		Proteolysis	Cell
		Ubiquitin-Dependent Protein Catabolic Process	Nucleus
		Axonogenesis	Cytoplasm
		Axon Target Recognition	Endoplasmic Reticulum
		Adult Walking Behaviour	Cytosol
		Cell Proliferation	Plasma Membrane
		Protein Deubiquitination	Membrane
		Sensory Perception Of Pain	Axon
		Axon Transport Of Mitochondrion	Neuronal Cell Body
		Eating Behaviour	Extracellular Vesicular Exosome
		Negative Regulation Of Map Kinase Activity	
		Muscle Fiber Development	
		Neuromuscular Process	
ZFP382	Zinc finger protein 382	Negative Regulation Of Transcription, Dna-Templated	Nucleus
			Intracellular