

A

oppOntology

Function

GO

KEGG

COG

HPO

MSigDB

Load Annotation File for GO (obo File)

Annotation

Enrich

Slim

Slim Enrich

File Path

D:\Data\Database\GO\gene_ontology_edit.obo

Select

The obo file contain full GO annotation

Load GO Cross-Reference File (Gene to GOID)

File Path

D:\Data\Database\GO\xRef_GO.txt

Select

Load GO-Gene Relation File

Load Parents for GO (Excel File)

File Path

D:\Data\Database\GO\Parent.xlsx

Select

Load Self-defined GO Parents

Get GO Slim

B

x

Subcellular Location

Field	SlimID	SlimName
C	GO:0005886	Plasma Membrane
C	GO:0016020	Membrane
C	GO:0005576	Extracellular Region
C	GO:0005634	Nucleus
C	GO:0005730	Nucleolus
C	GO:0005737	Cytoplasm
C	GO:0005739	Mitochondrion
C	GO:0005783	ER
C	GO:0005794	Golgi Apparatus
C	GO:0005764	Lysosome
C	GO:0005768	Endosome
C	GO:0005777	Peroxisome
C	GO:0005840	Ribosome
C	GO:0005811	Lipid Particle

x

Biological Process

Field	SlimID	SlimName
P	GO:0000003	Reproduction
P	GO:0000902	Cell Morphogenesis
P	GO:0002376	Immune System Process
P	GO:0005975	Carbohydrate Metabolism
P	GO:0006259	Dna Metabolism
P	GO:0006397	mRNA Processing
P	GO:0006399	tRNA Metabolism
P	GO:0006412	Translation
P	GO:0006457	Protein Folding
P	GO:0006461	Protein Complex Assembly
P	GO:0006464	Cellular Protein Modification Process
P	GO:0006520	Cellular Amino Acid Metabolism
P	GO:0006605	Protein Targeting
P	GO:0006629	Lipid Metabolism

x

Molecular Function

Field	SlimID	SlimName
F	GO:0000988	Protein Binding Transcription Factor Activity
F	GO:0001071	Nucleic Acid Binding Transcription Factor Activity
F	GO:0003677	DNA Binding
F	GO:0003723	RNA Binding
F	GO:0003729	mRNA Binding
F	GO:0003735	Structural Constituent of Ribosome
F	GO:0003924	GTPase Activity
F	GO:0004386	Helicase Activity
F	GO:0004518	Nuclease Activity
F	GO:0004871	Signal Transducer Activity
F	GO:0005198	Structural Molecule Activity
F	GO:0008092	Cytoskeletal Protein Binding
F	GO:0008134	Transcription Factor Binding
F	GO:0008135	Translation Factor Activity, Nucleic Acid Binding

SlimTable.xlsx

GO Slim ID

Subcellular Location

ID	GO:0005886	GO:0016020	GO:0005576	GO:0005634	GO:0005730
ACKR4_HUMAN	1	1			
ACKR4_HUMAN				1	
ACKR4_HUMAN		1			1
ACKR4_HUMAN					1
ACKR4_HUMAN				1	
ACKR4_HUMAN	1				
3HIDH_HUMAN					1
3HIDH_HUMAN		1			1
1433G_HUMAN		1	1		
1433G_HUMAN	1	1	1		
1433G_HUMAN				1	

Biological Process

ID	GO:0000003	GO:0000902	GO:0002376	GO:0005975	GO:0006259
ACKR4_HUMAN			1		
ACKR4_HUMAN					1
ACKR4_HUMAN	1		1		
ACKR4_HUMAN		1			1
ACKR4_HUMAN		1		1	
ACKR4_HUMAN					
3HIDH_HUMAN	1			1	
3HIDH_HUMAN		1	1		1
1433G_HUMAN	1				
1433G_HUMAN			1	1	
1433G_HUMAN	1	1		1	1

Molecular Function

ID	GO:0000988	GO:0001071	GO:0003677	GO:0003723	GO:0003729
ACKR4_HUMAN	1			1	
ACKR4_HUMAN		1			1
ACKR4_HUMAN			1		
ACKR4_HUMAN				1	
ACKR4_HUMAN	1		1		1
3HIDH_HUMAN	1		1		
3HIDH_HUMAN			1		
3HIDH_HUMAN		1			1
3HIDH_HUMAN		1			
1433G_HUMAN	1			1	
1433G_HUMAN	1		1		1

Subcellular Location

Biological Process

Molecular Function

Protein ID