
Molecular Function
zinc ion binding
translation elongation factor binding
TORC2 complex binding
PTB domain binding
organic cyclic compound binding
nucleic acid binding
low−density lipoprotein particle binding
insulin−like growth factor receptor binding
insulin binding
heterocyclic compound binding
glucose binding
FAD binding
binding
anaphase−promoting complex binding
amyloid−beta binding
3−phosphoinositide−dependent protein kinase binding
scavenger receptor activity
transferase activity
sulfide:quinone oxidoreductase activity
SAM−dependent methyltransferase activity
S−adenosylmethionine−dependent methyltransferase activity
RNA−3'−phosphate cyclase activity
protein adenylyltransferase activity
proline dehydrogenase activity
peptide−methionine (R)−S−oxide reductase activity
oxidoreductase activity, acting on the CH−CH group of donors
oxidoreductase activity, acting on a sulfur group of donors, disulfide as acceptor
oxidoreductase activity
methionine−tRNA ligase activity
methionine adenosyltransferase activity
MAP kinase kinase activity
leukotriene−A4 hydrolase activity
isovaleryl−CoA dehydrogenase activity
insulin receptor activity
hydroxymethylglutaryl−CoA reductase (NADPH) activity
hydrolase activity, hydrolyzing N−glycosyl compounds
hydrolase activity
hexokinase activity
glutamate−5−semialdehyde dehydrogenase activity
glutamate 5−kinase activity
glucokinase activity
gamma−glutamylcyclotransferase activity
fructokinase activity
ethanolaminephosphotransferase activity
epoxide hydrolase activity
diamine N−acetyltransferase activity
catalytic activity, acting on a nucleic acid
catalytic activity
carbonate dehydratase activity
C−4 methylsterol oxidase activity
butyryl−CoA dehydrogenase activity
8−methylthiopropyl glucosinolate S−oxygenase activity
5'−nucleotidase activity
4−methylthiopropyl glucosinolate S−oxygenase activity
3−oxo−5−alpha−steroid 4−dehydrogenase activity
1−acylglycerol−3−phosphate O−acyltransferase activity
metal ion binding
RNA polymerase II intronic transcription regulatory region sequence−specific DNA binding
RNA polymerase II cis−regulatory region sequence−specific DNA binding
single−stranded 3'−5' DNA helicase activity
catalysis of the reaction: 2 L−glutamate + NAD+ = 2−oxoglutarate + L−glutamine + H+ + NADH
glutamate dehydrogenase [NAD(P)+] activity
catalysis of the formation of L−glutamine and 2−oxoglutarate from L−glutamate
catalysis of the reaction: ATP + L−glutamate + NH4+ = ADP + H+ + L−glutamine + phosphate
Hsp90 protein binding
Hsp70 protein binding
type II site−specific deoxyribonuclease activity
phosphatidylinositol trisphosphate phosphatase activity
phosphatidylinositol phosphate 5−phosphatase activity
nuclease activity
inositol trisphosphate phosphatase activity
helicase activity
chitin deacetylase activity
aspartic−type endopeptidase activity
5'−3' exodeoxyribonuclease activity
3−hydroxyisobutyryl−CoA hydrolase activity
D−alanine−D−alanine ligase activity
lipoic acid binding
ubiquitin−protein transferase activator activity
guanylate cyclase activator activity
adenylate cyclase activator activity
acetyltransferase activator activity
acetylcholine receptor activity
DNA binding
insulin−like growth factor II binding
insulin−like growth factor I binding
identical protein binding
D5 dopamine receptor binding
translation elongation factor activity
regulatory RNA binding
receptor−receptor interaction
RNA−directed DNA polymerase activity
nucleotidyltransferase activity
DNA−directed DNA polymerase activity
CoA−transferase activity
3−oxoacid CoA−transferase activity
cargo receptor activity
water transmembrane transporter activity
trehalose transmembrane transporter activity
transmembrane transporter activity
sugar transmembrane transporter activity
sodium channel activity
proton channel activity
phosphatidic acid transfer activity
NAADP−sensitive calcium−release channel activity
intracellular ligand−gated ion channel activity
gated channel activity
fructose transmembrane transporter activity
extracellular ligand−gated ion channel activity
dehydroascorbic acid transmembrane transporter activity
D−glucose transmembrane transporter activity
bicarbonate transmembrane transporter activity
active borate transmembrane transporter activity
acetylcholine−gated cation−selective channel activity
binding
cargo receptor activity
catalytic activity
cation binding
DNA binding
DNA helicase activity
glutamate synthase (NADH) activity
glutamate synthase activity
glutamine synthetase activity
heat shock protein binding
hydrolase activity
ligase activity
lipid binding
molecular function regulator activity
molecular transducer activity
nucleic acid binding
protein binding
RNA binding
signaling receptor binding
transferase activity
transport
transporter activity
DEG.GO.terms
DMG.GO.terms
Method
Number of Genes
100
200
300
400
500
Adjusted p−value
0.04
0.03
0.02
0.01