Downregulated Differentially Expressed Genes hydrogen sulfide metabolic process amyloid-beta clearance positive regulation of macrophage derived foam cell differentiation sulfide oxidation, using sulfide:quinone oxidoreductase cellular detoxification of cadmium ion synaptic transmission involved in micturition positive regulation of cholesterol storage plasma lipoprotein particle clearance behavioral response to nicotine cellular response to stimulus cholesterol transport circulatory system development fructose transmembrane transport leukotriene biosynthetic process protein homooligomerization regulation of dendrite development positive regulation of transcription of nucleolar large rRNA by RNA polymerase dehydroascorbic acid transport insulin receptor signaling pathway lipoprotein transport telencephalon development glutathione biosynthetic process response to abiotic stimulus detection of stimulus glucose transmembrane transport protein homotrimerization regulation of acetylcholine secretion, neurotransmission nephron tubule development phagocytosis, engulfment regulation of neurotransmitter levels negative regulation of hydrogen peroxide-mediated programmed cell death glucosinolate biosynthetic process hemolysis in another organism neural nucleus development
positive regulation of meiotic cell cycle process involved in oocyte maturation
positive regulation of RNA biosynthetic process
green leaf volatile biosynthetic process
regulation of the force of skeletal muscle contraction regulation of slow-twitch skeletal muscle fiber contraction regulation of female gonad development ornithine biosynthetic process induced systemic resistance response to chemical sensory perception of taste determination of pancreatic left/right asymmetry regulation of myosin-light-chain-phosphatase activity regulation of dendrite morphogenesis male meiosis I neural crest cell development determination of liver left/right asymmetry positive regulation of synaptic transmission peptidyl-lysine oxidation negative regulation of interleukin-1 beta production negative regulation of Rho protein signal transduction methionine catabolic process activation of transmembrane receptor protein tyrosine kinase activity T cell activation muscle filament sliding positive regulation of megakaryocyte differentiation pore formation in membrane of another organism carbohydrate transmembrane transport fatty acid derivative biosynthetic process negative regulation of post–embryonic development intércellular transport abscisic acid-activated signaling pathway abscisic acid transport response to cisplatin response to vanadate(3–) positive regulation of protein–containing complex disassembly positive regulation of glycoprotein biosynthetic process negative regulation of feeding behavior transformation of host cell by virus endothelial tip cell fate specification cerebellar molecular layer formation retrograde neuronal dense core vesicle transport positive regulation of respiratory burst anterograde neuronal dense core vesicle transport response to hypoxia zymogen activation inorganic cation transmembrane transport cellular response to chemical stress Biological Process positive regulation of meiotic cell cycle biosynthetic process negative regulation of interleukin-6 production hormone transport complement activation, classical pathway skeletal muscle satellite cell migration positive regulation of lipase activity positive regulation of protein localization to nucleolus embryonic liver development sexual reproduction response to food negative regulation of tumor necrosis factor production transmembrane receptor protein tyrosine phosphatase signaling pathway type I pneumocyte differentiation notochord cell differentiation positive regulation of romoter in response to stress metal ion transport citrulline biosynthetic process leukocyte migration involved in inflammatory response cellular metabolic process skin epidermis development protein repair methionyl–tRNA aminoacylation transpiration stem vascular tissue pattern formation cytokinin transport proline catabolic process 4–hydroxyproline catabolic process negative regulation of transporter activity Notch signaling pathway involved in arterial endothelial cell fate commitment protein transport along microtubule positive regulation of protein phosphorylation membrane depolarization antigen transcytosis by M cells in mucosal-associated lymphoid tissue protein tetramerization response to organic substance regulation of mast cell activation response to resveratrol cerebellar Purkinje cell layer structural organization trehalose transport positive regulation of glycogen biosynthetic process regulation of hydrogen peroxide metabolic process carbohydrate transport regulation of meiotic nuclear division negative regulation of interleukin–10 production glucose 6-phosphate metabolic process negative regulation of cardiac muscle cell differentiation positive regulation of skeletal muscle tissue growth cerebellar cortex development amino acid transport negative regulation of interferon–alpha production positive regulation of synaptic plasticity positive regulation of synapse maturation membrane depolarization during cardiac muscle cell action potential cotyledon vascular tissue pattern formation pronephros development defense response to bacterium peroxisome fission N-acylphosphatidylethanolamine metabolic process detection of biotic stimulus negative regulation of interferon-beta production transition between fast and slow fiber S-adenosylmethionine biosynthetic process nervous system process male sex determination cellular response to type I interferon negative regulation of innate immune response negative regulation of NLRP3 inflammasome complex assembly regulation of vascular endothelial growth factor signaling pathway negative regulation of cytokine production involved in inflammatory response negative regulation of interleukin–12 production negative regulation of cell division negative regulation of sequestering of triglyceride neuron projection maintenance regulation of dendritic spine development fatty acid biosynthetic process negative regulation of glycogen biosynthetic process cellular response to cGMP proline biosynthetic process cytokinin–activated signaling pathway regulation of protein ubiquitipation regulation of protein ubiquitination transmembrane transport cellular response to aldosterone translational initiation ribosomal large subunit export from nucleus cellular macromolecule catabolic process negative regulation of inflammatory response response to cold protein heterooligomerization wing disc morphogenesis determination of left/right asymmetry in lateral mesoderm regulation of synaptic vesicle exocytosis sulfide:quinone oxidoreductase activity FAD binding glucose binding acetylcholine–gated monoatomic cation–selective channel activity sugar transmembrane transporter activity fructose transmembrane transporter activity identical protein binding gated channel activity cargo receptor activity iron ion binding dehydroascorbic acid transmembrane transporter activity amyloid-beta binding low-density lipoprotein particle binding extracellular ligand–gated monoatomic ion channel activity
acetylcholine receptor activity
8-methylthiopropyl glucosinolate S-oxygenase activity
4-methylthiopropyl glucosinolate S-oxygenase activity
enzyme binding transmembrane transporter activity C–4 methylsterol oxidase activity potássium channel activitý leukotriene–A4 hydrolase activity insulin–like growth factor II binding glutamate–5–semialdehyde dehydrogenase activity carbonate dehydratase activity reduction of molecular oxygen oxidoreductase activity, acting on paired donors, with incorporation monoatomic ion channel activity protein-lysine 6-oxidase activity Molecular Function monooxygenase activity scavenger receptor activity isovaleryl-CoA dehydrogenase activity PDZ domain binding transmembrane signaling receptor activity glucokinase activity fructokinase activity glutamate 5-kinase activity 3-phosphoinositide-dependent protein kinase binding insulin-like growth factor I binding PTB domain binding Hsp70 protein binding hexokinase activity butyryl-CoA dehydrogenase activity peroxidase activity
peptide-methionine (R)-S-oxide reductase activity
proline dehydrogenase activity
methionine adenosyltransferase activity D-glucose transmembrane transporter activity intracellular cAMP-activated cation channel activity methionine-tRNA ligase activity insulin receptor activity oxidoreductase activity gamma-glutamylcyclotransferase activity heme binding phosphatidic acid transfer activity oxidoreductase activity, acting on a sulfur group of donors, disulfide as acceptor trehalose transmembrane transporter activity lipoic acid binding epoxide hydrolase activity regulatory RNA binding insulin–like growth factor receptor binding anaphase-promoting complex binding insulin binding phosphatidylinositol 3-kinase regulatory subunit binding serine-type endopeptidase activity -Log10 (pvalue)