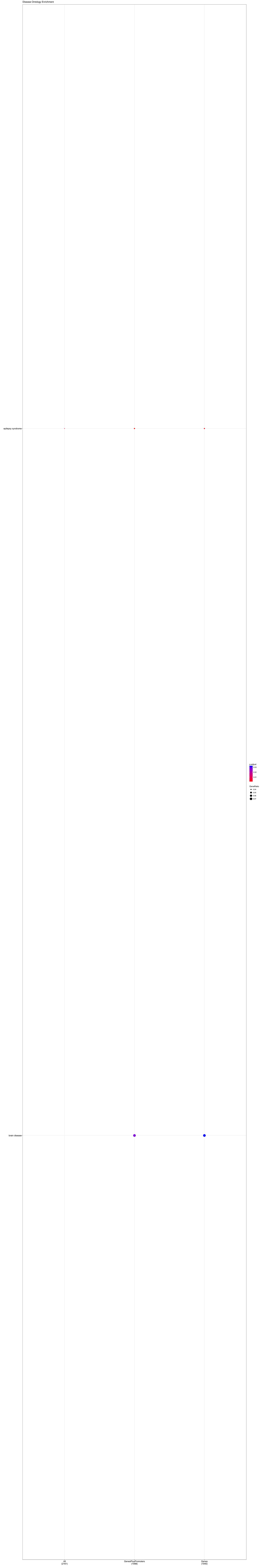
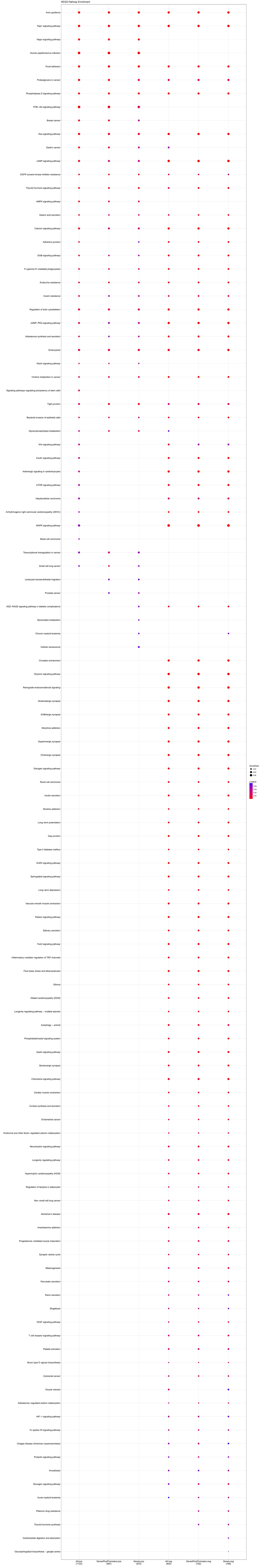
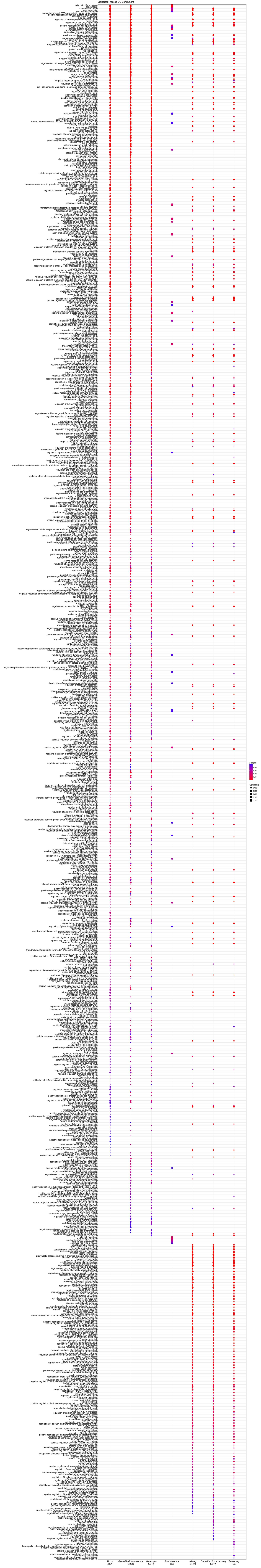


Molecular Function GO Enrichment actin bindingmetal ion transmembrane transporter activitygated channel activity nucleoside-triphosphatase regulator activity-GTPase regulator activityion channel activityvoltage-gated cation channel activitycation channel activity substrate-specific channel activityvoltage-gated ion channel activityvoltage-gated channel activity-GTPase activator activity protein serine/threonine kinase activityguanyl-nucleotide exchange factor activity-Ras guanyl-nucleotide exchange factor activitycell adhesion molecule bindingpotassium ion transmembrane transporter activitychannel activitypassive transmembrane transporter activityactin filament bindingcalcium ion transmembrane transporter activitydivalent inorganic cation transmembrane transporter activitypotassium channel activityphospholipid binding-SH3 domain bindingtubulin bindingion channel bindingmicrotubule bindingextracellularly glutamate-gated ion channel activityphosphatidylinositol bindingcadherin bindingvoltage-gated potassium channel activityvoltage-gated calcium channel activitycalcium channel activity -PDZ domain bindingligand-gated ion channel activityligand-gated channel activitytranscription factor activity, RNA polymerase II core promoter proximal region sequence-specific bindingprotein tyrosine kinase activitycalmodulin bindingionotropic glutamate receptor activityephrin receptor bindingsignaling adaptor activity -Rab GTPase bindingphosphatase bindingnuclear receptor activitytranscription factor activity, direct ligand regulated sequence-specific DNA bindingchannel regulator activitybeta-catenin bindingmagnesium ion bindingtranscriptional repressor activity, RNA polymerase II transcription regulatory region sequence-specific bindingsteroid hormone receptor activity-L-glutamate transmembrane transporter activityacidic amino acid transmembrane transporter activity ligand-gated cation channel activityglutamate receptor binding-Notch bindingphosphatidylinositol phosphate bindingtransmembrane receptor protein kinase activityacetylgalactosaminyltransferase activitytransmembrane receptor protein tyrosine kinase activitysemaphorin receptor activityglutamate receptor activity-Rho GTPase bindingdelayed rectifier potassium channel activitymolecular adaptor activitymonovalent inorganic cation transmembrane transporter activity growth factor bindingcAMP binding Rho guanyl-nucleotide exchange factor activityion channel regulator activitycore promoter proximal region DNA binding-RNA polymerase II core promoter proximal region sequence-specific DNA binding-SNARE binding SH3/SH2 adaptor activity dynein light intermediate chain bindingtranscriptional repressor activity, RNA polymerase II core promoter proximal region sequence-specific bindingpolypeptide N-acetylgalactosaminyltransferase activitydicarboxylic acid transmembrane transporter activitysodium ion transmembrane transporter activity integrin bindingcore promoter proximal region sequence-specific DNA bindingphosphatidylinositol bisphosphate bindingsyntaxin bindingsignal transducer activity, downstream of receptor-GeneRatio phospholipid-translocating ATPase activity-• 0.01 0.02 calcium channel regulator activity-0.04 0.05 calmodulin-dependent protein kinase activityp.adjust 0.04 phosphatidate phosphatase activity-0.03 0.02 0.01 phosphatidylinositol bisphosphate kinase activity-L-amino acid transmembrane transporter activity ligand-gated calcium channel activity cation:amino acid symporter activity transcriptional activator activity, RNA polymerase II core promoter proximal region sequence-specific bindingcytoskeletal adaptor activitycalcium-dependent protein serine/threonine kinase activitylipid phosphatase activityphosphatidylinositol-3,4,5-trisphosphate bindingspectrin bindingkinesin binding-1-phosphatidylinositol-3-kinase activityscaffold protein bindingphosphoprotein bindingprotein binding, bridgingprotein kinase C activitytransmembrane receptor protein tyrosine phosphatase activitytransmembrane receptor protein phosphatase activity-SMAD bindingglycosaminoglycan bindingphosphotyrosine residue bindingreceptor signaling complex scaffold activity-ATPase activity, coupled to transmembrane movement of ions, phosphorylative mechanismproteoglycan bindingamyloid-beta bindingprotein phosphorylated amino acid bindingcalcium-transporting ATPase activitysyntaxin-1 bindingtranscriptional activator activity, RNA polymerase II transcription regulatory region sequence-specific bindingphosphatidylinositol-4,5-bisphosphate 3-kinase activityphosphatidylinositol kinase activityphosphatidylserine bindingsodium channel activity high voltage-gated calcium channel activitycalcium-dependent protein kinase activityactin-dependent ATPase activityguanylate cyclase activity-14-3-3 protein binding hormone receptor bindingnuclear hormone receptor bindingintracellular ligand-gated ion channel activityphosphoric ester hydrolase activityphosphatidylinositol 3-kinase activitytransforming growth factor beta receptor, cytoplasmic mediator activity-G-protein activated inward rectifier potassium channel activitystructural constituent of myelin sheathcyclic nucleotide binding-3',5'-cyclic-AMP phosphodiesterase activity steroid hormone receptor binding-R-SMAD bindingphospholipid transporter activityprotein complex scaffold activity-HMG box domain binding SH2 domain bindingubiquitin protein ligase bindinginward rectifier potassium channel activityprotein tyrosine kinase bindingionotropic glutamate receptor bindingpotassium channel regulator activityprotein kinase A bindingactin monomer bindingubiquitin-like protein ligase bindingextracellular matrix structural constituent core promoter sequence-specific DNA bindingankyrin bindingligase activity, forming carbon-nitrogen bondsacid-amino acid ligase activity-GABA receptor activity -Rac GTPase binding cyclic-nucleotide phosphodiesterase activityextracellular ligand-gated ion channel activity-GDP-dissociation inhibitor activityprotein C-terminus binding phosphatase activitysulfur compound bindingprotein phosphatase regulator activitysodium:amino acid symporter activity tau-protein kinase activitymicrotubule plus-end bindingdynein light chain binding-ATP-dependent microtubule motor activityfibronectin binding ATP-dependent microtubule motor activity, plus-end-directed-UDP-glycosyltransferase activitydynein heavy chain bindingplatelet-derived growth factor receptor binding-ÁII (4171) GenesPlusPromoters (3845) Genes (3723) Promoters (215)

	Cellular Compartment GO Enrichment		
postsynapse - postsynaptic density -			
asymmetric synapse - neuron to neuron synapse -			
postsynaptic specialization -			
axon - dendrite -			
synaptic membrane - presynapse -			
axon part - postsynaptic membrane -			
cell leading edge			
cell body - neuronal cell body -			
cation channel complex -			
neuron spine - ion channel complex -			
main axon-			
transmembrane transporter complex -			
cytoplasmic region -			
actin cytoskeleton - cell projection membrane -			
potassium channel complex -			
presynaptic active zone - presynaptic membrane -			
receptor complex - voltage-gated potassium channel complex -			
cell cortex -			
cell-substrate adherens junction - neuron projection terminus -			
cell-substrate junction -			
site of polarized growth -			
sarcolemma - neuron projection membrane -			
ruffle - ionotropic glutamate receptor complex -			
synaptic vesicle			
perikaryon - exocytic vesicle -			
neurotransmitter receptor complex - proteinaceous extracellular matrix -			
axon terminus - sarcoplasm -			
membrane region - plasma membrane receptor complex -			
early endosome -			
actin-based cell projection -			
cell-cell junction -			
excitatory synapse - membrane microdomain -			
microtubule -			
membrane raft - neuromuscular junction -			
ruffle membrane - T–tubule -			
myelin sheath - voltage-gated calcium channel complex-			
dendritic shaft - filopodium -			
terminal bouton -			
cortical cytoskeleton - cytoplasmic side of plasma membrane -			
transport vesicle - synaptic vesicle membrane -			
exocytic vesicle membrane - sarcoplasmic reticulum -			
cell cortex part - Z disc -			GeneRatio  • 0.01
juxtaparanode region of axon-			<ul><li>0.02</li><li>0.03</li><li>0.04</li><li>0.05</li></ul>
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cytoplasmic side of membrane - dendrite membrane -			
			p.adjust 0.04 0.03 0.02
dendrite membrane - stress fiber -			p.adjust 0.04 0.03 0.02
dendrite membrane - stress fiber - contractile actin filament bundle - trans-Golgi network -			p.adjust 0.04 0.03 0.02
dendrite membrane - stress fiber - contractile actin filament bundle - trans-Golgi network - recycling endosome - microtubule end - I band -			p.adjust 0.04 0.03 0.02
dendrite membrane - stress fiber - contractile actin filament bundle - trans-Golgi network - recycling endosome - microtubule end - I band - AMPA glutamate receptor complex - calcium channel complex -			p.adjust 0.04 0.03 0.02
dendrite membrane- stress fiber- contractile actin filament bundle- trans-Golgi network- recycling endosome- microtubule end- I band- AMPA glutamate receptor complex- calcium channel complex-			p.adjust 0.04 0.03 0.02
dendrite membrane - stress fiber - contractile actin filament bundle - trans—Golgi network - recycling endosome - microtubule end - I band - AMPA glutamate receptor complex - calcium channel complex - myofibril -			p.adjust 0.04 0.03 0.02
dendrite membrane stress fiber contractile actin filament bundle trans–Golgi network recycling endosome microtubule end liband.  AMPA glutamate receptor complex calcium channel complex myofibril extracellular matrix component basolateral plasma membrane actin filament bundle stress fiber st			p.adjust 0.04 0.03 0.02
dendrite membrane - stress fiber- contractile actin filament bundle - trans-Golgi network - recycling endosome - microtubule end - l band - AMPA glutamate receptor complex - calcium channel complex - myofibril - extracellular matrix component - basolateral plasma membrane - actin filament bundle - extrinsic component of cytoplasmic side of plasma membrane - extrinsic component of plasma membrane - contractile fiber part - axolemma -			p.adjust 0.04 0.03 0.02
dendrite membrane - stress fiber- contractile actin filament bundle - trans-Golgi network - recycling endosome - microtubule end - I band- AMPA glutamate receptor complex - calcium channel complex - myofibril - extracellular matrix component - basolateral plasma membrane - actin filament bundle - extrinsic component of cytoplasmic side of plasma membrane - extrinsic component of plasma membrane - contractile fiber part - axolemma - cell projection cytoplasmic - contractile fiber-			p.adjust 0.04 0.03 0.02
dendrite membrane - stress fiber- contractile actin filament bundle- trans-Golgi network- recycling endosome- microtubule end- I band- AMPA glutamate receptor complex- calcium channel complex- myofibril- extracellular matrix component- basolateral plasma membrane- actin filament bundle- extrinsic component of cytoplasmic side of plasma membrane- extrinsic component of plasma membrane- contractile fiber part- axolemma- cell projection cytoplasmic-			p.adjust 0.04 0.03 0.02
dendrite membrane- stress fiber- contractile actin filament bundle- trans-Golgi network- recycling endosome- microtubule end- I band- AMPA glutamate receptor complex- calcium channel complex- myofibril- extracellular matrix component- basolateral plasma membrane- actin filament bundle- extrinsic component of cytoplasmic side of plasma membrane- extrinsic component of plasma membrane- contractile fiber part- axolemma- cell projection cytoplasmi- contractile fiber- neuronal cell body membrane-			p.adjust 0.04 0.03 0.02
dendrite membrane:  stress fiber:  contractile actin filament bundle:  trans—Golgi network-  recycling endosome:  microtubule end-  I band:  AMPA glutamate receptor complex:  calcium channel complex:  myofibril:  extracellular matrix component-  basolateral plasma membrane:  actin filament bundle:  extrinsic component of plasma membrane:  extrinsic component of plasma membrane:  contractile fiber part-  axolemma:  cell projection cytoplasm:  contractile fiber-  neuronal cell body membrane:  axonal growth cone-  cell body membrane:			p.adjust 0.04 0.03 0.02
dendrite membrane:  stress fiber- contractile actin filament bundle- trans-Golgi network- recycling endosome: microtubule end- l band- AMPA glutamate receptor complex- calcium channel complex- myofibril: extracellular matrix component- basolateral plasma membrane- actin filament bundle- extrinsic component of cytoplasmic side of plasma membrane- extrinsic component of plasma membrane- contractile fiber part- axolemma- cell projection cytoplasmic contractile fiber- neuronal cell body membrane- axonal growth cone- cell body membrane- paranode region of axon- apical junction complex-			p.adjust 0.04 0.03 0.02
dendrite membrane:  stress fiber:  contractile actin filament bundle:  trans-Golgi network:  recycling endosome:  microtubule end-  I band:  AMPA glutamate receptor complex-  calcium channel complex-  myofibril-  extracellular matrix component:  basolateral plasma membrane-  actin filament bundle  extrinsic component of cytoplasmic side of plasma membrane-  extrinsic component of plasma membrane-  contractile fiber part:  axolemma:  cell projection cytoplasm:  contractile fiber-  neuronal cell body membrane-  axonal growth cone-  cell body membrane-  paranode region of axon-  apical junction complex-  costamere-  dendrite cytoplasm:			p.adjust 0.04 0.03 0.02
dendrite membrane: stress fiber: contractile actin filament bundle: trans-Golgi network: recycling endosome: microtubule and: I band: AMPA glutamate receptor complex: calcium channel complex: myofibril: extracellular matrix component: basolateral plasma membrane: actin filament bundle. extrinsic component of cytoplasmic side of plasma membrane: extrinsic component of plasma membrane: contractile fiber part: axolernna: cell projection cytoplasm: contractile fiber. neuronal cell body membrane: axonal growth cone: cell body membrane: paranode region of axon- apical junction complex: costamere: dendrite cytoplasm: apical part of cell-			p.adjust 0.04 0.03 0.02
dendrite membrane: stress fiber: contractile actin filament bundle: trans—Golgi network: recycling endosome: microtubule end: l band: AMPA glutamate receptor complex: calcium channel complex: myofibril: extracellular matrix component: basolateral plasma membrane: actin filament bundle: extrinsic component of cytoplasmic side of plasma membrane: extrinsic component of plasma membrane: contractile fiber part: axolemma: cell projection cytoplasm: contractile fiber: neuronal cell body membrane: axonal growth cone: cell body membrane: paranode region of axon- apical junction complex: costamere: dendrite cytoplasm: apical part of cell- slereocilium: extrinsic component of membrane:			p.adjust 0.04 0.03 0.02
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dendrite membrane: stress fiber- contractile actin filament bundle: trans-Golgi network: recycling endosome: microtubule end- filament bundle: AMPA glutamate receptor complex- calcium channel complex- calcium channel complex- calcium channel complex- myofibril: extracellular matrix component: bassolateral plasma membrane: actin filament bundle: extrinsic component of plasma membrane: extrinsic component of plasma membrane: cell projection cytoplasm: contractile fiber- nouronal cell body membrane: axonal growth cone: axonal growth cone: cell body membrane: dendrite cytoplasm: apical junction complex: costamere: dendrite cytoplasm: apical junction complex: costamere: dendrite cytoplasm: apical part of cell- stereccilium: extrinsic component of membrane: cluster of actin-based cell projections: flysosomal tumen- centrosome:			p.adjust 0.04 0.03 0.02
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dendrite membrane:  stress filter- contractile actin filament bundle:  Irane- Golgi network- recycling endosome:  nictrolubula and- I band- AMPA glutamate receptor complor- calcium channol complor- myolibril- extracellular matrix component:  basolateral plasma membrane- extrineic component of nytoplasmic side of plasma membrane- extrineic component of nytoplasmic side of plasma membrane- extrineic component of plasma membrane- extrineic component of plasma membrane- extrineic component of plasma membrane- contractile fiber pari- contractile fiber pari- axolommar  cull projection cytoplasmic  apical junction complex- dendrite cytoplasmic  apical part of cell- storacellum- sarcomere- cluster of actin-based cell projections:  dentrosome- cull-cell contact zone  contractile fiber pari- cull parama membrane- cell-cell contact zone  contractile fiber pari- cull projection cytoplasmic  storacellum paramamembrane- cell-cell contact zone  contractile fiber pari- cull projection cytoplasmic storacellum paramamembrane- cell projection cytopl			p.adjust 0.04 0.03 0.02
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dendrite membrane- stress fiber- contractife actin filament bunde- trans- Golg network- recycling endosome- microtubule end- fiband- AMPA glutamate receptor complex- calcium channel complex- recycling endosome- microtubule end- fiband- AMPA glutamate receptor complex- calcium channel complex- recycling endosome- myolibrit- extracellular matrix component- basolateral plasma membrane- cotin filament bunde- extrinsic component of pytoplasmic side of plasma membrane- cotinsic component of pytoplasmic side of plasma membrane- cotinsic component of plasma membrane- cotil body membrane			p.adjust 0.04 0.03 0.02
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actin binding		Function GO Enric	chment						
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beta-catenin binding description of the description									
cell adhesion molecule binding of the control of th									
nucleoside-triphosphatase regulator activity of the second									
protein tyrosine kinase activity transcription factor activity, RNA polymerase II core promoter proximal region sequence-specific binding.									
actin filament binding									
integrin binding camp binding									
phosphatidylinositol bisphosphate kinase activity e									
nuclear receptor activity of transcription factor activity, direct ligand regulated sequence–specific DNA binding									
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transmembrane receptor protein kinase activity of transmembrane receptor protein tyrosine kinase activity of transmembrane receptor protein tyrosine kinase activity of the transmembrane receptor protein kinase activity of									
Notch binding steroid hormone receptor activity									
transcriptional activator activity, RNA polymerase II transcription regulatory region sequence–specific binding transcriptional repressor activity, RNA polymerase II transcription regulatory region sequence–specific binding transcriptional repressor activity, RNA polymerase II transcription regulatory region sequence–specific binding transcriptional repressor activity.									
sulfur compound binding transcriptional activator activity, RNA polymerase II core promoter proximal region sequence–specific binding									
transforming growth factor beta receptor, cytoplasmic mediator activity structural constituent of myelin sheaths									
SH3 domain binding metal ion transmembrane transporter activity									
RNA polymerase II core promoter proximal region sequence–specific DNA binding protein serine/threonine kinase activity									
cadherin binding.  Rho guanyl-nucleotide exchange factor activity.  1-phosphatidylinositol-3-kinase activity.									
L-glutamate transmembrane transporter activity acidic amino acid transmembrane transporter activity									
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cyclic nucleotide binding 3',5'-cyclic-AMP phosphodiesterase activity									
PDZ domain binding heparin binding									
Rho GTPase binding proteoglycan binding									
calcium ion transmembrane transporter activity of the phosphatidylinositol kinase activity of the phosphatidyl									
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signal transducer activity, downstream of receptor of the second of the									
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protein binding, bridging metalloendopeptidase inhibitor activity									
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gated channel activity									
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ionotropic glutamate receptor activity.  SNARE binding:  Rab GTPase binding:  receptor signaling complex scaffold activity.  ligand–gated cation channel activity.  dynein light intermediate chain binding:  14–3–3 protein binding:  lipid phosphatase activity.  glutamate receptor binding:  GABA receptor activity.									
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ionotropic glutamate receptor activity  SNARE binding:  Rab GTPase binding:  receptor signaling complex scaffold activity.  ligand-gated cation channel activity.  dynein light intermediate chain binding:  14–3–3 protein binding:  lipid phosphatase activity.  glutamate receptor binding:  GABA receptor activity.  sodium ion transmembrane transporter activity.  kinesin binding:  glutamate receptor activity.  protein C-terminus binding:  amyloid-beta binding:  delayed rectifier potassium channel activity.									
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