| Cate | Term | Count | Count i | P-value | Gene | Title |
|---|---|---|---|---|---|---|
| GO | extracellular region | 181 | 1730 | 2.324E-09 | ######### | chromosome 17 open reading frame 99 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 10085 | EGF-like repeats and discoidin I-like domains 3 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 10117 | enamelin |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 10216 | proteoglycan 4 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 10417 | spondin 2, extracellular matrix protein |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 10418 | spondin 1, extracellular matrix protein |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 10447 | family with sequence similarity 3, member C |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 10516 | fibulin 5 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 10752 | cell adhesion molecule with homology to L1CAM (close homolog of L1) |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 1114 | chromogranin B (secretogranin 1) |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 1117 | chitinase 3-like 2 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 11202 | kallikrein-related peptidase 8 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 113177 | chromosome 19 open reading frame 36 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 116844 | leucine-rich alpha-2-glycoprotein 1 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 118429 | anthrax toxin receptor 2 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 123 | perilipin 2 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 124220 | zymogen granule protein 16 homolog B (rat) |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 126147 | netrin 5 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 126638 | repetin |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 1295 | collagen, type VIII, alpha 1 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 1363 | carboxypeptidase E |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 1435 | colony stimulating factor 1 (macrophage) |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 1462 | versican |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 1469 | cystatin SN |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 1471 | cystatin C |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 1508 | cathepsin B |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 153218 | serine peptidase inhibitor, Kazal type 13 (putative) |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 157869 | chromosome 8 open reading frame 84 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 168667 | BMP binding endothelial regulator |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 170692 | ADAM metallopeptidase with thrombospondin type 1 motif, 18 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 1755 | deleted in malignant brain tumors 1 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 1803 | dipeptidyl-peptidase 4 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 183 | angiotensinogen (serpin peptidase inhibitor, clade A, member 8) |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 1839 | heparin-binding EGF-like growth factor |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 1906 | endothelin 1 |

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|---|---|---|---|---|---|---|
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 1953 | multiple EGF-like-domains 6 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 200504 | gastrokine 2 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 2153 | coagulation factor V (proaccelerin, labile factor) |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 219348 | placenta-specific 9 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 2200 | fibrillin 1 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 2201 | fibrillin 2 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 221806 | von Willebrand factor D and EGF domains |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 223117 | sema domain, immunoglobulin domain (Ig), short basic domain, secret |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 2239 | glypican 4 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 2262 | glypican 5 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 2263 | fibroblast growth factor receptor 2 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 22795 | nidogen 2 (osteonidogen) |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 22915 | multimerin 1 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 22925 | phospholipase A2 receptor 1, 180kDa |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 23145 | SCO-spondin homolog (Bos taurus) |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 2331 | fibromodulin |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 23418 | crumbs homolog 1 (Drosophila) |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 23529 | cardiotrophin-like cytokine factor 1 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 23780 | apolipoprotein L, 2 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 255738 | proprotein convertase subtilisin/kexin type 9 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 255743 | nephronectin |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 2589 | UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosami |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 25890 | ABI family, member 3 (NESH) binding protein |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 25903 | olfactomedin-like 2B |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 26281 | fibroblast growth factor 20 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 2638 | group-specific component (vitamin D binding protein) |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 26998 | fetuin B |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 27123 | dickkopf homolog 2 (Xenopus laevis) |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 283316 | CD163 molecule-like 1 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 2921 | chemokine (C-X-C motif) ligand 3 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 30008 | EGF-containing fibulin-like extracellular matrix protein 2 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 30010 | neurexophilin 1 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 3373 | hyaluronoglucosaminidase 1 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 340654 | lipase, family member M |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 345275 | hydroxysteroid (17-beta) dehydrogenase 13 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 3479 | insulin-like growth factor 1 (somatomedin C) |

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|---|---|---|---|---|---|---|
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 3484 | insulin-like growth factor binding protein 1 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 3486 | insulin-like growth factor binding protein 3 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 3488 | insulin-like growth factor binding protein 5 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 3491 | cysteine-rich, angiogenic inducer, 61 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 3512 | immunoglobulin J polypeptide, linker protein for immunoglobulin alph |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 3569 | interleukin 6 (interferon, beta 2) |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 3570 | interleukin 6 receptor |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 3601 | interleukin 15 receptor, alpha |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 375790 | agrin |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 3814 | KiSS-1 metastasis-suppressor |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 3827 | kininogen 1 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 390667 | pentraxin 4, long |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 3911 | laminin, alpha 5 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 3913 | laminin, beta 2 (laminin S) |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 3914 | laminin, beta 3 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 3959 | lectin, galactoside-binding, soluble, 3 binding protein |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 4015 | lysyl oxidase |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 404203 | serine peptidase inhibitor, Kazal type 6 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 407738 | family with sequence similarity 19 (chemokine (C-C motif)-like), memb |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 4246 | secretoglobin, family 2A, member 1 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 4254 | KIT ligand |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 4316 | matrix metallopeptidase 7 (matrilysin, uterine) |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 4582 | mucin 1, cell surface associated |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 4586 | mucin 5AC, oligomeric mucus/gel-forming |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 4588 | mucin 6, oligomeric mucus/gel-forming |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 4684 | neural cell adhesion molecule 1 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 4856 | nephroblastoma overexpressed gene |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 5046 | proprotein convertase subtilisin/kexin type 6 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 50604 | interleukin 20 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 5066 | peptidylglycine alpha-amidating monooxygenase |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 50859 | sparc/osteonectin, cwcv and kazal-like domains proteoglycan (testican |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 51279 | complement component 1, r subcomponent-like |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 5284 | polymeric immunoglobulin receptor |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 5304 | prolactin-induced protein |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 5327 | plasminogen activator, tissue |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 5367 | pro-melanin-concentrating hormone |

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|---|---|---|---|---|---|---|
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 54361 | wingless-type MMTV integration site family, member 4 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 54757 | family with sequence similarity 20, member A |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 55068 | ecto-NOX disulfide-thiol exchanger 1 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 55600 | intelectin 1 (galactofuranose binding) |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 56477 | chemokine (C-C motif) ligand 28 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 5648 | mannan-binding lectin serine peptidase 1 (C4/C2 activating componen |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 56547 | matrix metallopeptidase 26 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 5655 | kallikrein-related peptidase 10 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 56944 | olfactomedin-like 3 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 57094 | carboxypeptidase A6 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 5737 | prostaglandin F receptor (FP) |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 57493 | HEG homolog 1 (zebrafish) |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 5768 | quiescin Q6 sulfhydryl oxidase 1 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 5950 | retinol binding protein 4, plasma |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 5972 | renin |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 619518 | chromosome 1 open reading frame 191 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 627 | brain-derived neurotrophic factor |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 629 | complement factor B |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 6343 | secretin |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 6372 | chemokine (C-X-C motif) ligand 6 (granulocyte chemotactic protein 2) |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 6374 | chemokine (C-X-C motif) ligand 5 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 64093 | SPARC related modular calcium binding 1 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 64388 | gremlin 2, cysteine knot superfamily, homolog (Xenopus laevis) |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 6484 | ST3 beta-galactoside alpha-2,3-sialyltransferase 4 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 652 | bone morphogenetic protein 4 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 6590 | secretory leukocyte peptidase inhibitor |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 6690 | serine peptidase inhibitor, Kazal type 1 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 6692 | serine peptidase inhibitor, Kunitz type 1 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 6750 | somatostatin |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 692094 | microseminoprotein, prostate associated |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 6947 | transcobalamin I (vitamin B12 binding protein, R binder family) |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 6948 | transcobalamin II; macrocytic anemia |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 7032 | trefoil factor 2 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 7049 | transforming growth factor, beta receptor III |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 7076 | TIMP metallopeptidase inhibitor 1 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 7092 | tolloid-like 1 |

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|---|---|---|---|---|---|---|
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 7133 | tumor necrosis factor receptor superfamily, member 1B |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 715 | complement component 1, r subcomponent |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 717 | complement component 2 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 718 | complement component 3 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 722 | complement component 4 binding protein, alpha |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 725 | complement component 4 binding protein, beta |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 731 | complement component 8, alpha polypeptide |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 7474 | wingless-type MMTV integration site family, member 5A |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 7477 | wingless-type MMTV integration site family, member 7B |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 7869 | sema domain, immunoglobulin domain (Ig), short basic domain, secret |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 7941 | phospholipase A2, group VII (platelet-activating factor acetylhydrolase, |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 79802 | HHIP-like 2 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 79887 | phospholipase B domain containing 1 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 79987 | sushi, von Willebrand factor type A, EGF and pentraxin domain contain |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 8076 | microfibrillar associated protein 5 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 80760 | inter-alpha (globulin) inhibitor H5 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 80763 | chromosome 12 open reading frame 39 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 80830 | apolipoprotein L, 6 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 80833 | apolipoprotein L, 3 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 834 | caspase 1, apoptosis-related cysteine peptidase (interleukin 1, beta, co |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 83872 | hemicentin 1 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 84171 | lysyl oxidase-like 4 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 8542 | apolipoprotein L, 1 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 8600 | tumor necrosis factor (ligand) superfamily, member 11 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 8635 | ribonuclease T2 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 8646 | chordin |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 8740 | tumor necrosis factor (ligand) superfamily, member 14 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 8839 | WNT1 inducible signaling pathway protein 2 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 885 | cholecystokinin |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 8857 | Fc fragment of IgG binding protein |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 90865 | interleukin 33 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 92304 | secretoglobin, family 3A, member 1 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 92747 | chromosome 20 open reading frame 114 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 929 | CD14 molecule |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 94025 | mucin 16, cell surface associated |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 9510 | ADAM metallopeptidase with thrombospondin type 1 motif, 1 |

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|---|---|---|---|---|---|---|
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 9518 | growth differentiation factor 15 |
| GO | extracellular region | 181 | 1730 | 2.324E-09 | 9966 | tumor necrosis factor (ligand) superfamily, member 15 |
| GO | response to glucocorticoid stimulus | 17 | 71 | 4.225E-06 | 10076 | protein tyrosine phosphatase, receptor type, U |
| GO | response to glucocorticoid stimulus | 17 | 71 | 4.225E-06 | 10081 | programmed cell death 7 |
| GO | response to glucocorticoid stimulus | 17 | 71 | 4.225E-06 | 1373 | carbamoyl-phosphate synthetase 1, mitochondrial |
| GO | response to glucocorticoid stimulus | 17 | 71 | 4.225E-06 | 1843 | dual specificity phosphatase 1 |
| GO | response to glucocorticoid stimulus | 17 | 71 | 4.225E-06 | 2033 | E1A binding protein p300 |
| GO | response to glucocorticoid stimulus | 17 | 71 | 4.225E-06 | 35 | acyl-Coenzyme A dehydrogenase, C-2 to C-3 short chain |
| GO | response to glucocorticoid stimulus | 17 | 71 | 4.225E-06 | 3569 | interleukin 6 (interferon, beta 2) |
| GO | response to glucocorticoid stimulus | 17 | 71 | 4.225E-06 | 3570 | interleukin 6 receptor |
| GO | response to glucocorticoid stimulus | 17 | 71 | 4.225E-06 | 3643 | insulin receptor |
| GO | response to glucocorticoid stimulus | 17 | 71 | 4.225E-06 | 3845 | v-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog |
| GO | response to glucocorticoid stimulus | 17 | 71 | 4.225E-06 | 5122 | proprotein convertase subtilisin/kexin type 1 |
| GO | response to glucocorticoid stimulus | 17 | 71 | 4.225E-06 | 5244 | ATP-binding cassette, sub-family B (MDR/TAP), member 4 |
| GO | response to glucocorticoid stimulus | 17 | 71 | 4.225E-06 | 5327 | plasminogen activator, tissue |
| GO | response to glucocorticoid stimulus | 17 | 71 | 4.225E-06 | 6256 | retinoid X receptor, alpha |
| GO | response to glucocorticoid stimulus | 17 | 71 | 4.225E-06 | 652 | bone morphogenetic protein 4 |
| GO | response to glucocorticoid stimulus | 17 | 71 | 4.225E-06 | 799 | calcitonin receptor |
| GO | response to glucocorticoid stimulus | 17 | 71 | 4.225E-06 | 9021 | suppressor of cytokine signaling 3 |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 10076 | protein tyrosine phosphatase, receptor type, U |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 10268 | receptor (G protein-coupled) activity modifying protein 3 |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 10288 | leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITI |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 10312 | T-cell, immune regulator 1, ATPase, H+ transporting, lysosomal V0 sub |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 1048 | carcinoembryonic antigen-related cell adhesion molecule 5 |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 10568 | solute carrier family 34 (sodium phosphate), member 2 |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 1364 | claudin 4 |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 154 | adrenergic, beta-2-, receptor, surface |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 1604 | CD55 molecule, decay accelerating factor for complement (Cromer blo |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 166929 | sphingomyelin synthase 2 |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 1813 | dopamine receptor D2 |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 1815 | dopamine receptor D4 |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 1839 | heparin-binding EGF-like growth factor |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 1902 | lysophosphatidic acid receptor 1 |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 1948 | ephrin-B2 |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 1969 | EPH receptor A2 |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 2015 | egf-like module containing, mucin-like, hormone receptor-like 1 |

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|---|---|---|---|---|---|---|
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 2040 | stomatin |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 2044 | EPH receptor A5 |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 2205 | Fc fragment of IgE, high affinity I, receptor for; alpha polypeptide |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 2239 | glypican 4 |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 2262 | glypican 5 |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 22925 | phospholipase A2 receptor 1, 180kDa |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 23208 | synaptotagmin XI |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 23767 | fibronectin leucine rich transmembrane protein 3 |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 2564 | gamma-aminobutyric acid (GABA) A receptor, epsilon |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 2615 | leucine rich repeat containing 32 |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 27345 | potassium large conductance calcium-activated channel, subfamily M, |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 2861 | G protein-coupled receptor 37 (endothelin receptor type B-like) |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 286133 | scavenger receptor class A, member 5 (putative) |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 2865 | free fatty acid receptor 3 |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 2867 | free fatty acid receptor 2 |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 28982 | feline leukemia virus subgroup C cellular receptor 1 |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 2911 | glutamate receptor, metabotropic 1 |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 3355 | 5-hydroxytryptamine (serotonin) receptor 1F |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 3561 | interleukin 2 receptor, gamma (severe combined immunodeficiency) |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 358 | aquaporin 1 (Colton blood group) |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 3604 | tumor necrosis factor receptor superfamily, member 9 |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 3643 | insulin receptor |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 3732 | CD82 molecule |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 3759 | potassium inwardly-rectifying channel, subfamily J, member 2 |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 3949 | low density lipoprotein receptor |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 4065 | lymphocyte antigen 75 |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 4179 | CD46 molecule, complement regulatory protein |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 4359 | myelin protein zero |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 4486 | macrophage stimulating 1 receptor (c-met-related tyrosine kinase) |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 4582 | mucin 1, cell surface associated |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 4680 | carcinoembryonic antigen-related cell adhesion molecule 6 (non-specif |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 4853 | Notch homolog 2 (Drosophila) |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 4886 | neuropeptide Y receptor Y1 |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 4889 | neuropeptide Y receptor Y5 |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 4915 | neurotrophic tyrosine kinase, receptor, type 2 |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 493 | ATPase, Ca++ transporting, plasma membrane 4 |

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|---|---|---|---|---|---|---|
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 5025 | purinergic receptor P2X, ligand-gated ion channel, 4 |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 5099 | protocadherin 7 |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 51280 | golgi membrane protein 1 |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 5244 | ATP-binding cassette, sub-family B (MDR/TAP), member 4 |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 5284 | polymeric immunoglobulin receptor |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 5349 | FXYD domain containing ion transport regulator 3 |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 55867 | solute carrier family 22 (organic anion/urate transporter), member 11 |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 56172 | ankylosis, progressive homolog (mouse) |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 5724 | platelet-activating factor receptor |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 5732 | prostaglandin E receptor 2 (subtype EP2), 53kDa |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 5737 | prostaglandin F receptor (FP) |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 5787 | protein tyrosine phosphatase, receptor type, B |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 5789 | protein tyrosine phosphatase, receptor type, D |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 5794 | protein tyrosine phosphatase, receptor type, H |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 5799 | protein tyrosine phosphatase, receptor type, N polypeptide 2 |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 6006 | Rh blood group, CcEe antigens |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 6402 | selectin L |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 6505 | solute carrier family 1 (neuronal/epithelial high affinity glutamate tran |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 6521 | solute carrier family 4, anion exchanger, member 1 (erythrocyte mem |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 6535 | solute carrier family 6 (neurotransmitter transporter, creatine), memb |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 6542 | solute carrier family 7 (cationic amino acid transporter, y+ system), me |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 6563 | solute carrier family 14 (urea transporter), member 1 (Kidd blood grou |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 6564 | solute carrier family 15 (oligopeptide transporter), member 1 |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 6565 | solute carrier family 15 (H+/peptide transporter), member 2 |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 6653 | sortilin-related receptor, L(DLR class) A repeats-containing |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 6751 | somatostatin receptor 1 |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 684 | bone marrow stromal cell antigen 2 |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 7049 | transforming growth factor, beta receptor III |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 7097 | toll-like receptor 2 |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 7098 | toll-like receptor 3 |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 7099 | toll-like receptor 4 |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 7102 | tetraspanin 7 |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 7106 | tetraspanin 4 |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 783 | calcium channel, voltage-dependent, beta 2 subunit |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 799 | calcitonin receptor |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 8082 | sarcospan (Kras oncogene-associated gene) |

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| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 8600 | tumor necrosis factor (ligand) superfamily, member 11 |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 8645 | potassium channel, subfamily K, member 5 |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 8671 | solute carrier family 4, sodium bicarbonate cotransporter, member 4 |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 8794 | tumor necrosis factor receptor superfamily, member 10c, decoy withou |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 8842 | prominin 1 |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 9019 | myelin protein zero-like 1 |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 91 | activin A receptor, type IB |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 9143 | synaptogyrin 3 |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 9194 | solute carrier family 16, member 7 (monocarboxylic acid transporter 2) |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 94 | activin A receptor type II-like 1 |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 961 | CD47 molecule |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 9619 | ATP-binding cassette, sub-family G (WHITE), member 1 |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 9962 | solute carrier family 23 (nucleobase transporters), member 2 |
| GO | integral to plasma membrane | 103 | 969 | 4.39E-06 | 9966 | tumor necrosis factor (ligand) superfamily, member 15 |
| GO | extracellular space | 75 | 647 | 4.613E-06 | 10439 | olfactomedin 1 |
| GO | extracellular space | 75 | 647 | 4.613E-06 | 1117 | chitinase 3-like 2 |
| GO | extracellular space | 75 | 647 | 4.613E-06 | 11202 | kallikrein-related peptidase 8 |
| GO | extracellular space | 75 | 647 | 4.613E-06 | 1435 | colony stimulating factor 1 (macrophage) |
| GO | extracellular space | 75 | 647 | 4.613E-06 | 1471 | cystatin C |
| GO | extracellular space | 75 | 647 | 4.613E-06 | 1508 | cathepsin B |
| GO | extracellular space | 75 | 647 | 4.613E-06 | 168667 | BMP binding endothelial regulator |
| GO | extracellular space | 75 | 647 | 4.613E-06 | 183 | angiotensinogen (serpin peptidase inhibitor, clade A, member 8) |
| GO | extracellular space | 75 | 647 | 4.613E-06 | 1839 | heparin-binding EGF-like growth factor |
| GO | extracellular space | 75 | 647 | 4.613E-06 | 1906 | endothelin 1 |
| GO | extracellular space | 75 | 647 | 4.613E-06 | 2200 | fibrillin 1 |
| GO | extracellular space | 75 | 647 | 4.613E-06 | 2239 | glypican 4 |
| GO | extracellular space | 75 | 647 | 4.613E-06 | 2262 | glypican 5 |
| GO | extracellular space | 75 | 647 | 4.613E-06 | 22901 | arylsulfatase G |
| GO | extracellular space | 75 | 647 | 4.613E-06 | 22925 | phospholipase A2 receptor 1, 180kDa |
| GO | extracellular space | 75 | 647 | 4.613E-06 | 23145 | SCO-spondin homolog (Bos taurus) |
| GO | extracellular space | 75 | 647 | 4.613E-06 | 23529 | cardiotrophin-like cytokine factor 1 |
| GO | extracellular space | 75 | 647 | 4.613E-06 | 255738 | proprotein convertase subtilisin/kexin type 9 |
| GO | extracellular space | 75 | 647 | 4.613E-06 | 2638 | group-specific component (vitamin D binding protein) |
| GO | extracellular space | 75 | 647 | 4.613E-06 | 27123 | dickkopf homolog 2 (Xenopus laevis) |
| GO | extracellular space | 75 | 647 | 4.613E-06 | 2921 | chemokine (C-X-C motif) ligand 3 |
| GO | extracellular space | 75 | 647 | 4.613E-06 | 3373 | hyaluronoglucosaminidase 1 |

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|---|---|---|---|---|---|---|
| GO | extracellular space | 75 | 647 | 4.613E-06 | 3479 | insulin-like growth factor 1 (somatomedin C) |
| GO | extracellular space | 75 | 647 | 4.613E-06 | 3484 | insulin-like growth factor binding protein 1 |
| GO | extracellular space | 75 | 647 | 4.613E-06 | 3486 | insulin-like growth factor binding protein 3 |
| GO | extracellular space | 75 | 647 | 4.613E-06 | 3569 | interleukin 6 (interferon, beta 2) |
| GO | extracellular space | 75 | 647 | 4.613E-06 | 3570 | interleukin 6 receptor |
| GO | extracellular space | 75 | 647 | 4.613E-06 | 3601 | interleukin 15 receptor, alpha |
| GO | extracellular space | 75 | 647 | 4.613E-06 | 375790 | agrin |
| GO | extracellular space | 75 | 647 | 4.613E-06 | 3815 | v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog |
| GO | extracellular space | 75 | 647 | 4.613E-06 | 3827 | kininogen 1 |
| GO | extracellular space | 75 | 647 | 4.613E-06 | 3911 | laminin, alpha 5 |
| GO | extracellular space | 75 | 647 | 4.613E-06 | 3959 | lectin, galactoside-binding, soluble, 3 binding protein |
| GO | extracellular space | 75 | 647 | 4.613E-06 | 4015 | lysyl oxidase |
| GO | extracellular space | 75 | 647 | 4.613E-06 | 4254 | KIT ligand |
| GO | extracellular space | 75 | 647 | 4.613E-06 | 4316 | matrix metallopeptidase 7 (matrilysin, uterine) |
| GO | extracellular space | 75 | 647 | 4.613E-06 | 5046 | proprotein convertase subtilisin/kexin type 6 |
| GO | extracellular space | 75 | 647 | 4.613E-06 | 50604 | interleukin 20 |
| GO | extracellular space | 75 | 647 | 4.613E-06 | 5122 | proprotein convertase subtilisin/kexin type 1 |
| GO | extracellular space | 75 | 647 | 4.613E-06 | 51279 | complement component 1, r subcomponent-like |
| GO | extracellular space | 75 | 647 | 4.613E-06 | 5327 | plasminogen activator, tissue |
| GO | extracellular space | 75 | 647 | 4.613E-06 | 5367 | pro-melanin-concentrating hormone |
| GO | extracellular space | 75 | 647 | 4.613E-06 | 55068 | ecto-NOX disulfide-thiol exchanger 1 |
| GO | extracellular space | 75 | 647 | 4.613E-06 | 56477 | chemokine (C-C motif) ligand 28 |
| GO | extracellular space | 75 | 647 | 4.613E-06 | 5648 | mannan-binding lectin serine peptidase 1 (C4/C2 activating componen |
| GO | extracellular space | 75 | 647 | 4.613E-06 | 5768 | quiescin Q6 sulfhydryl oxidase 1 |
| GO | extracellular space | 75 | 647 | 4.613E-06 | 5950 | retinol binding protein 4, plasma |
| GO | extracellular space | 75 | 647 | 4.613E-06 | 5972 | renin |
| GO | extracellular space | 75 | 647 | 4.613E-06 | 6372 | chemokine (C-X-C motif) ligand 6 (granulocyte chemotactic protein 2) |
| GO | extracellular space | 75 | 647 | 4.613E-06 | 6374 | chemokine (C-X-C motif) ligand 5 |
| GO | extracellular space | 75 | 647 | 4.613E-06 | 64388 | gremlin 2, cysteine knot superfamily, homolog (Xenopus laevis) |
| GO | extracellular space | 75 | 647 | 4.613E-06 | 652 | bone morphogenetic protein 4 |
| GO | extracellular space | 75 | 647 | 4.613E-06 | 6750 | somatostatin |
| GO | extracellular space | 75 | 647 | 4.613E-06 | 6948 | transcobalamin II; macrocytic anemia |
| GO | extracellular space | 75 | 647 | 4.613E-06 | 7049 | transforming growth factor, beta receptor III |
| GO | extracellular space | 75 | 647 | 4.613E-06 | 717 | complement component 2 |
| GO | extracellular space | 75 | 647 | 4.613E-06 | 718 | complement component 3 |
| GO | extracellular space | 75 | 647 | 4.613E-06 | 731 | complement component 8, alpha polypeptide |

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| GO | extracellular space | 75 | 647 | 4.613E-06 | 7474 | wingless-type MMTV integration site family, member 5A |
| GO | extracellular space | 75 | 647 | 4.613E-06 | 760 | carbonic anhydrase II |
| GO | extracellular space | 75 | 647 | 4.613E-06 | 7941 | phospholipase A2, group VII (platelet-activating factor acetylhydrolase, |
| GO | extracellular space | 75 | 647 | 4.613E-06 | 84171 | lysyl oxidase-like 4 |
| GO | extracellular space | 75 | 647 | 4.613E-06 | 8542 | apolipoprotein L, 1 |
| GO | extracellular space | 75 | 647 | 4.613E-06 | 8600 | tumor necrosis factor (ligand) superfamily, member 11 |
| GO | extracellular space | 75 | 647 | 4.613E-06 | 8646 | chordin |
| GO | extracellular space | 75 | 647 | 4.613E-06 | 8740 | tumor necrosis factor (ligand) superfamily, member 14 |
| GO | extracellular space | 75 | 647 | 4.613E-06 | 8744 | tumor necrosis factor (ligand) superfamily, member 9 |
| GO | extracellular space | 75 | 647 | 4.613E-06 | 885 | cholecystokinin |
| GO | extracellular space | 75 | 647 | 4.613E-06 | 90865 | interleukin 33 |
| GO | extracellular space | 75 | 647 | 4.613E-06 | 92304 | secretoglobin, family 3A, member 1 |
| GO | extracellular space | 75 | 647 | 4.613E-06 | 92747 | chromosome 20 open reading frame 114 |
| GO | extracellular space | 75 | 647 | 4.613E-06 | 929 | CD14 molecule |
| GO | extracellular space | 75 | 647 | 4.613E-06 | 94025 | mucin 16, cell surface associated |
| GO | extracellular space | 75 | 647 | 4.613E-06 | 9518 | growth differentiation factor 15 |
| GO | extracellular space | 75 | 647 | 4.613E-06 | 9966 | tumor necrosis factor (ligand) superfamily, member 15 |
| GO | complement activation, classical path | 10 | 27 | 6.184E-06 | 1380 | complement component (3d/Epstein Barr virus) receptor 2 |
| GO | complement activation, classical path | 10 | 27 | 6.184E-06 | 1604 | CD55 molecule, decay accelerating factor for complement (Cromer blo |
| GO | complement activation, classical path | 10 | 27 | 6.184E-06 | 4179 | CD46 molecule, complement regulatory protein |
| GO | complement activation, classical path | 10 | 27 | 6.184E-06 | 51279 | complement component 1, r subcomponent-like |
| GO | complement activation, classical path | 10 | 27 | 6.184E-06 | 715 | complement component 1, r subcomponent |
| GO | complement activation, classical path | 10 | 27 | 6.184E-06 | 717 | complement component 2 |
| GO | complement activation, classical path | 10 | 27 | 6.184E-06 | 718 | complement component 3 |
| GO | complement activation, classical path | 10 | 27 | 6.184E-06 | 722 | complement component 4 binding protein, alpha |
| GO | complement activation, classical path | 10 | 27 | 6.184E-06 | 725 | complement component 4 binding protein, beta |
| GO | complement activation, classical path | 10 | 27 | 6.184E-06 | 731 | complement component 8, alpha polypeptide |
| GO | cell surface | 33 | 214 | 9.221E-06 | 1803 | dipeptidyl-peptidase 4 |
| GO | cell surface | 33 | 214 | 9.221E-06 | 1839 | heparin-binding EGF-like growth factor |
| GO | cell surface | 33 | 214 | 9.221E-06 | 1902 | lysophosphatidic acid receptor 1 |
| GO | cell surface | 33 | 214 | 9.221E-06 | 222545 | G protein-coupled receptor, family C, group 6, member A |
| GO | cell surface | 33 | 214 | 9.221E-06 | 2263 | fibroblast growth factor receptor 2 |
| GO | cell surface | 33 | 214 | 9.221E-06 | 2526 | fucosyltransferase 4 (alpha (1,3) fucosyltransferase, myeloid-specific) |
| GO | cell surface | 33 | 214 | 9.221E-06 | 25825 | beta-site APP-cleaving enzyme 2 |
| GO | cell surface | 33 | 214 | 9.221E-06 | 286133 | scavenger receptor class A, member 5 (putative) |
| GO | cell surface | 33 | 214 | 9.221E-06 | 3192 | heterogeneous nuclear ribonucleoprotein U (scaffold attachment facto |

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|---|---|---|---|---|---|---|
| GO | cell surface | 33 | 214 | 9.221E-06 | 3306 | heat shock 70kDa protein 2 |
| GO | cell surface | 33 | 214 | 9.221E-06 | 3570 | interleukin 6 receptor |
| GO | cell surface | 33 | 214 | 9.221E-06 | 375790 | agrin |
| GO | cell surface | 33 | 214 | 9.221E-06 | 4853 | Notch homolog 2 (Drosophila) |
| GO | cell surface | 33 | 214 | 9.221E-06 | 5046 | proprotein convertase subtilisin/kexin type 6 |
| GO | cell surface | 33 | 214 | 9.221E-06 | 50937 | Cdon homolog (mouse) |
| GO | cell surface | 33 | 214 | 9.221E-06 | 51754 | transmembrane protein 8B |
| GO | cell surface | 33 | 214 | 9.221E-06 | 5243 | ATP-binding cassette, sub-family B (MDR/TAP), member 1 |
| GO | cell surface | 33 | 214 | 9.221E-06 | 5327 | plasminogen activator, tissue |
| GO | cell surface | 33 | 214 | 9.221E-06 | 57453 | Down syndrome cell adhesion molecule like 1 |
| GO | cell surface | 33 | 214 | 9.221E-06 | 5801 | protein tyrosine phosphatase, receptor type, R |
| GO | cell surface | 33 | 214 | 9.221E-06 | 64127 | nucleotide-binding oligomerization domain containing 2 |
| GO | cell surface | 33 | 214 | 9.221E-06 | 6710 | spectrin, beta, erythrocytic |
| GO | cell surface | 33 | 214 | 9.221E-06 | 7049 | transforming growth factor, beta receptor III |
| GO | cell surface | 33 | 214 | 9.221E-06 | 7097 | toll-like receptor 2 |
| GO | cell surface | 33 | 214 | 9.221E-06 | 7098 | toll-like receptor 3 |
| GO | cell surface | 33 | 214 | 9.221E-06 | 7852 | chemokine (C-X-C motif) receptor 4 |
| GO | cell surface | 33 | 214 | 9.221E-06 | 84059 | G protein-coupled receptor 98 |
| GO | cell surface | 33 | 214 | 9.221E-06 | 8406 | sushi-repeat-containing protein, X-linked |
| GO | cell surface | 33 | 214 | 9.221E-06 | 8839 | WNT1 inducible signaling pathway protein 2 |
| GO | cell surface | 33 | 214 | 9.221E-06 | 8842 | prominin 1 |
| GO | cell surface | 33 | 214 | 9.221E-06 | 91 | activin A receptor, type IB |
| GO | cell surface | 33 | 214 | 9.221E-06 | 94 | activin A receptor type II-like 1 |
| GO | cell surface | 33 | 214 | 9.221E-06 | 952 | CD38 molecule |
| GO | negative regulation of cell proliferati | 39 | 287 | 3.088E-05 | 10076 | protein tyrosine phosphatase, receptor type, U |
| GO | negative regulation of cell proliferati | 39 | 287 | 3.088E-05 | 10140 | transducer of ERBB2, 1 |
| GO | negative regulation of cell proliferati | 39 | 287 | 3.088E-05 | 10252 | sprouty homolog 1, antagonist of FGF signaling (Drosophila) |
| GO | negative regulation of cell proliferati | 39 | 287 | 3.088E-05 | 10253 | sprouty homolog 2 (Drosophila) |
| GO | negative regulation of cell proliferati | 39 | 287 | 3.088E-05 | 10766 | transducer of ERBB2, 2 |
| GO | negative regulation of cell proliferati | 39 | 287 | 3.088E-05 | 1741 | discs, large homolog 3 (Drosophila) |
| GO | negative regulation of cell proliferati | 39 | 287 | 3.088E-05 | 1813 | dopamine receptor D2 |
| GO | negative regulation of cell proliferati | 39 | 287 | 3.088E-05 | 183 | angiotensinogen (serpin peptidase inhibitor, clade A, member 8) |
| GO | negative regulation of cell proliferati | 39 | 287 | 3.088E-05 | 23371 | tensin like C1 domain containing phosphatase (tensin 2) |
| GO | negative regulation of cell proliferati | 39 | 287 | 3.088E-05 | 2737 | GLI family zinc finger 3 |
| GO | negative regulation of cell proliferati | 39 | 287 | 3.088E-05 | 3373 | hyaluronoglucosaminidase 1 |
| GO | negative regulation of cell proliferati | 39 | 287 | 3.088E-05 | 3479 | insulin-like growth factor 1 (somatomedin C) |

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| GO | negative regulation of cell proliferatio | 39 | 287 | 3.088E-05 | 3486 | insulin-like growth factor binding protein 3 |
| GO | negative regulation of cell proliferatio | 39 | 287 | 3.088E-05 | 3569 | interleukin 6 (interferon, beta 2) |
| GO | negative regulation of cell proliferatio | 39 | 287 | 3.088E-05 | 3604 | tumor necrosis factor receptor superfamily, member 9 |
| GO | negative regulation of cell proliferatio | 39 | 287 | 3.088E-05 | 3725 | jun oncogene |
| GO | negative regulation of cell proliferatio | 39 | 287 | 3.088E-05 | 4087 | SMAD family member 2 |
| GO | negative regulation of cell proliferatio | 39 | 287 | 3.088E-05 | 4194 | Mdm4 p53 binding protein homolog (mouse) |
| GO | negative regulation of cell proliferatio | 39 | 287 | 3.088E-05 | 4692 | necdin homolog (mouse) |
| GO | negative regulation of cell proliferatio | 39 | 287 | 3.088E-05 | 4853 | Notch homolog 2 (Drosophila) |
| GO | negative regulation of cell proliferatio | 39 | 287 | 3.088E-05 | 5371 | promyelocytic leukemia |
| GO | negative regulation of cell proliferatio | 39 | 287 | 3.088E-05 | 5920 | retinoic acid receptor responder (tazarotene induced) 3 |
| GO | negative regulation of cell proliferatio | 39 | 287 | 3.088E-05 | 604 | B-cell CLL/lymphoma 6 |
| GO | negative regulation of cell proliferatio | 39 | 287 | 3.088E-05 | 6256 | retinoid X receptor, alpha |
| GO | negative regulation of cell proliferatio | 39 | 287 | 3.088E-05 | 652 | bone morphogenetic protein 4 |
| GO | negative regulation of cell proliferatio | 39 | 287 | 3.088E-05 | 6750 | somatostatin |
| GO | negative regulation of cell proliferatio | 39 | 287 | 3.088E-05 | 6751 | somatostatin receptor 1 |
| GO | negative regulation of cell proliferatio | 39 | 287 | 3.088E-05 | 7071 | Kruppel-like factor 10 |
| GO | negative regulation of cell proliferatio | 39 | 287 | 3.088E-05 | 8313 | axin 2 |
| GO | negative regulation of cell proliferatio | 39 | 287 | 3.088E-05 | 83595 | SRY (sex determining region Y)-box 7 |
| GO | negative regulation of cell proliferatio | 39 | 287 | 3.088E-05 | 8462 | Kruppel-like factor 11 |
| GO | negative regulation of cell proliferatio | 39 | 287 | 3.088E-05 | 85004 | RAS-like, estrogen-regulated, growth inhibitor |
| GO | negative regulation of cell proliferatio | 39 | 287 | 3.088E-05 | 8519 | interferon induced transmembrane protein 1 (9-27) |
| GO | negative regulation of cell proliferatio | 39 | 287 | 3.088E-05 | 85477 | scinderin |
| GO | negative regulation of cell proliferatio | 39 | 287 | 3.088E-05 | 8839 | WNT1 inducible signaling pathway protein 2 |
| GO | negative regulation of cell proliferatio | 39 | 287 | 3.088E-05 | 9314 | Kruppel-like factor 4 (gut) |
| GO | negative regulation of cell proliferatio | 39 | 287 | 3.088E-05 | 94 | activin A receptor type II-like 1 |
| GO | negative regulation of cell proliferatio | 39 | 287 | 3.088E-05 | 9510 | ADAM metallopeptidase with thrombospondin type 1 motif, 1 |
| GO | negative regulation of cell proliferatio | 39 | 287 | 3.088E-05 | 9537 | tumor protein p53 inducible protein 11 |
| GO | sequence-specific DNA binding | 57 | 487 | 4.83E-05 | 10481 | homeobox B13 |
| GO | sequence-specific DNA binding | 57 | 487 | 4.83E-05 | 116071 | basic leucine zipper transcription factor, ATF-like 2 |
| GO | sequence-specific DNA binding | 57 | 487 | 4.83E-05 | 116113 | forkhead box P4 |
| GO | sequence-specific DNA binding | 57 | 487 | 4.83E-05 | 127343 | diencephalon/mesencephalon homeobox 1 |
| GO | sequence-specific DNA binding | 57 | 487 | 4.83E-05 | 158800 | Rhox homeobox family, member 1 |
| GO | sequence-specific DNA binding | 57 | 487 | 4.83E-05 | 1628 | D site of albumin promoter (albumin D-box) binding protein |
| GO | sequence-specific DNA binding | 57 | 487 | 4.83E-05 | 1958 | early growth response 1 |
| GO | sequence-specific DNA binding | 57 | 487 | 4.83E-05 | 1999 | E74-like factor 3 (ets domain transcription factor, epithelial-specific ) |
| GO | sequence-specific DNA binding | 57 | 487 | 4.83E-05 | 2114 | v-ets erythroblastosis virus E26 oncogene homolog 2 (avian) |

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|---|---|---|---|---|---|---|
| GO | sequence-specific DNA binding | 57 | 487 | 4.83E-05 | 2115 | ets variant 1 |
| GO | sequence-specific DNA binding | 57 | 487 | 4.83E-05 | 2117 | ets variant 3 |
| GO | sequence-specific DNA binding | 57 | 487 | 4.83E-05 | 2290 | forkhead box G1 |
| GO | sequence-specific DNA binding | 57 | 487 | 4.83E-05 | 2296 | forkhead box C1 |
| GO | sequence-specific DNA binding | 57 | 487 | 4.83E-05 | 2303 | forkhead box C2 (MFH-1, mesenchyme forkhead 1) |
| GO | sequence-specific DNA binding | 57 | 487 | 4.83E-05 | 2306 | forkhead box D2 |
| GO | sequence-specific DNA binding | 57 | 487 | 4.83E-05 | 2354 | FBJ murine osteosarcoma viral oncogene homolog B |
| GO | sequence-specific DNA binding | 57 | 487 | 4.83E-05 | 2624 | GATA binding protein 2 |
| GO | sequence-specific DNA binding | 57 | 487 | 4.83E-05 | 26468 | LIM homeobox 6 |
| GO | sequence-specific DNA binding | 57 | 487 | 4.83E-05 | 2737 | GLI family zinc finger 3 |
| GO | sequence-specific DNA binding | 57 | 487 | 4.83E-05 | 3131 | hepatic leukemia factor |
| GO | sequence-specific DNA binding | 57 | 487 | 4.83E-05 | 3142 | H2.0-like homeobox |
| GO | sequence-specific DNA binding | 57 | 487 | 4.83E-05 | 3164 | nuclear receptor subfamily 4, group A, member 1 |
| GO | sequence-specific DNA binding | 57 | 487 | 4.83E-05 | 3175 | one cut homeobox 1 |
| GO | sequence-specific DNA binding | 57 | 487 | 4.83E-05 | 3659 | interferon regulatory factor 1 |
| GO | sequence-specific DNA binding | 57 | 487 | 4.83E-05 | 3726 | jun B proto-oncogene |
| GO | sequence-specific DNA binding | 57 | 487 | 4.83E-05 | 4209 | myocyte enhancer factor 2D |
| GO | sequence-specific DNA binding | 57 | 487 | 4.83E-05 | 4212 | Meis homeobox 2 |
| GO | sequence-specific DNA binding | 57 | 487 | 4.83E-05 | 4223 | mesenchyme homeobox 2 |
| GO | sequence-specific DNA binding | 57 | 487 | 4.83E-05 | 429 | achaete-scute complex homolog 1 (Drosophila) |
| GO | sequence-specific DNA binding | 57 | 487 | 4.83E-05 | 4306 | nuclear receptor subfamily 3, group C, member 2 |
| GO | sequence-specific DNA binding | 57 | 487 | 4.83E-05 | 467 | activating transcription factor 3 |
| GO | sequence-specific DNA binding | 57 | 487 | 4.83E-05 | 4778 | nuclear factor (erythroid-derived 2), 45kDa |
| GO | sequence-specific DNA binding | 57 | 487 | 4.83E-05 | 4783 | nuclear factor, interleukin 3 regulated |
| GO | sequence-specific DNA binding | 57 | 487 | 4.83E-05 | 4802 | nuclear transcription factor Y, gamma |
| GO | sequence-specific DNA binding | 57 | 487 | 4.83E-05 | 4851 | Notch homolog 1, translocation-associated (Drosophila) |
| GO | sequence-specific DNA binding | 57 | 487 | 4.83E-05 | 4929 | nuclear receptor subfamily 4, group A, member 2 |
| GO | sequence-specific DNA binding | 57 | 487 | 4.83E-05 | 5307 | paired-like homeodomain 1 |
| GO | sequence-specific DNA binding | 57 | 487 | 4.83E-05 | 5308 | paired-like homeodomain 2 |
| GO | sequence-specific DNA binding | 57 | 487 | 4.83E-05 | 5396 | paired related homeobox 1 |
| GO | sequence-specific DNA binding | 57 | 487 | 4.83E-05 | 5460 | POU class 5 homeobox 1 |
| GO | sequence-specific DNA binding | 57 | 487 | 4.83E-05 | 5463 | POU class 6 homeobox 1 |
| GO | sequence-specific DNA binding | 57 | 487 | 4.83E-05 | 5465 | peroxisome proliferator-activated receptor alpha |
| GO | sequence-specific DNA binding | 57 | 487 | 4.83E-05 | 55810 | forkhead box J2 |
| GO | sequence-specific DNA binding | 57 | 487 | 4.83E-05 | 57459 | GATA zinc finger domain containing 2B |
| GO | sequence-specific DNA binding | 57 | 487 | 4.83E-05 | 57594 | homeobox and leucine zipper encoding |

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| GO | sequence-specific DNA binding | 57 | 487 | 4.83E-05 | 604 | B-cell CLL/lymphoma 6 |
| GO | sequence-specific DNA binding | 57 | 487 | 4.83E-05 | 6096 | RAR-related orphan receptor B |
| GO | sequence-specific DNA binding | 57 | 487 | 4.83E-05 | 6097 | RAR-related orphan receptor C |
| GO | sequence-specific DNA binding | 57 | 487 | 4.83E-05 | 6778 | signal transducer and activator of transcription 6, interleukin-4 induced |
| GO | sequence-specific DNA binding | 57 | 487 | 4.83E-05 | 7008 | thyrotrophic embryonic factor |
| GO | sequence-specific DNA binding | 57 | 487 | 4.83E-05 | 7227 | trichorhinophalangeal syndrome I |
| GO | sequence-specific DNA binding | 57 | 487 | 4.83E-05 | 8013 | nuclear receptor subfamily 4, group A, member 3 |
| GO | sequence-specific DNA binding | 57 | 487 | 4.83E-05 | 80714 | pre-B-cell leukemia homeobox 4 |
| GO | sequence-specific DNA binding | 57 | 487 | 4.83E-05 | 90993 | cAMP responsive element binding protein 3-like 1 |
| GO | sequence-specific DNA binding | 57 | 487 | 4.83E-05 | 9572 | nuclear receptor subfamily 1, group D, member 1 |
| GO | sequence-specific DNA binding | 57 | 487 | 4.83E-05 | 9935 | v-maf musculoaponeurotic fibrosarcoma oncogene homolog B (avian) |
| GO | sequence-specific DNA binding | 57 | 487 | 4.83E-05 | 9971 | nuclear receptor subfamily 1, group H, member 4 |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 10346 | tripartite motif-containing 22 |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 10481 | homeobox B13 |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 116071 | basic leucine zipper transcription factor, ATF-like 2 |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 116113 | forkhead box P4 |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 127343 | diencephalon/mesencephalon homeobox 1 |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 158800 | Rhox homeobox family, member 1 |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 1628 | D site of albumin promoter (albumin D-box) binding protein |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 1820 | AT rich interactive domain 3A (BRIGHT-like) |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 1958 | early growth response 1 |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 1959 | early growth response 2 |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 1960 | early growth response 3 |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 1999 | E74-like factor 3 (ets domain transcription factor, epithelial-specific ) |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 2033 | E1A binding protein p300 |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 2114 | v-ets erythroblastosis virus E26 oncogene homolog 2 (avian) |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 2115 | ets variant 1 |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 2117 | ets variant 3 |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 2122 | MDS1 and EVI1 complex locus |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 2290 | forkhead box G1 |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 2296 | forkhead box C1 |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 2303 | forkhead box C2 (MFH-1, mesenchyme forkhead 1) |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 2306 | forkhead box D2 |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 2353 | FBJ murine osteosarcoma viral oncogene homolog |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 2354 | FBJ murine osteosarcoma viral oncogene homolog B |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 23650 | tripartite motif-containing 29 |

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|---|---|---|---|---|---|---|
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 2624 | GATA binding protein 2 |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 26468 | LIM homeobox 6 |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 2737 | GLI family zinc finger 3 |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 3131 | hepatic leukemia factor |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 3142 | H2.0-like homeobox |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 3164 | nuclear receptor subfamily 4, group A, member 1 |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 3169 | forkhead box A1 |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 3175 | one cut homeobox 1 |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 3659 | interferon regulatory factor 1 |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 3665 | interferon regulatory factor 7 |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 3725 | jun oncogene |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 3726 | jun B proto-oncogene |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 4087 | SMAD family member 2 |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 4209 | myocyte enhancer factor 2D |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 4212 | Meis homeobox 2 |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 4223 | mesenchyme homeobox 2 |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 429 | achaete-scute complex homolog 1 (Drosophila) |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 4306 | nuclear receptor subfamily 3, group C, member 2 |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 4613 | v-myc myelocytomatosis viral related oncogene, neuroblastoma derive |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 467 | activating transcription factor 3 |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 4778 | nuclear factor (erythroid-derived 2), 45kDa |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 4783 | nuclear factor, interleukin 3 regulated |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 4784 | nuclear factor I/X (CCAAT-binding transcription factor) |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 4791 | nuclear factor of kappa light polypeptide gene enhancer in B-cells 2 (p4 |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 4802 | nuclear transcription factor Y, gamma |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 4851 | Notch homolog 1, translocation-associated (Drosophila) |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 4929 | nuclear receptor subfamily 4, group A, member 2 |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 51085 | MLX interacting protein-like |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 51274 | Kruppel-like factor 3 (basic) |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 5307 | paired-like homeodomain 1 |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 5308 | paired-like homeodomain 2 |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 5396 | paired related homeobox 1 |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 5460 | POU class 5 homeobox 1 |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 5463 | POU class 6 homeobox 1 |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 5465 | peroxisome proliferator-activated receptor alpha |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 55769 | zinc finger protein 83 |

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|---|---|---|---|---|---|---|
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 55810 | forkhead box J2 |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 57459 | GATA zinc finger domain containing 2B |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 57594 | homeobox and leucine zipper encoding |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 604 | B-cell CLL/lymphoma 6 |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 6096 | RAR-related orphan receptor B |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 6097 | RAR-related orphan receptor C |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 6256 | retinoid X receptor, alpha |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 64651 | cysteine-serine-rich nuclear protein 1 |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 6778 | signal transducer and activator of transcription 6, interleukin-4 induced |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 687 | Kruppel-like factor 9 |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 6941 | transcription factor 19 |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 7008 | thyrotrophic embryonic factor |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 7022 | transcription factor AP-2 gamma (activating enhancer binding protein 2 |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 7026 | nuclear receptor subfamily 2, group F, member 2 |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 7071 | Kruppel-like factor 10 |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 7227 | trichorhinophalangeal syndrome I |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 7597 | zinc finger and BTB domain containing 25 |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 7706 | tripartite motif-containing 25 |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 8013 | nuclear receptor subfamily 4, group A, member 3 |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 80714 | pre-B-cell leukemia homeobox 4 |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 83595 | SRY (sex determining region Y)-box 7 |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 84124 | zinc finger protein 394 |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 8462 | Kruppel-like factor 11 |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 8531 | cold shock domain protein A |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 8543 | LIM domain only 4 |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 8553 | basic helix-loop-helix family, member e40 |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 862 | runt-related transcription factor 1; translocated to, 1 (cyclin D-related) |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 8848 | TSC22 domain family, member 1 |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 90993 | cAMP responsive element binding protein 3-like 1 |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 9314 | Kruppel-like factor 4 (gut) |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 9496 | T-box 4 |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 9572 | nuclear receptor subfamily 1, group D, member 1 |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 9935 | v-maf musculoaponeurotic fibrosarcoma oncogene homolog B (avian) |
| GO | transcription factor activity | 94 | 922 | 5.829E-05 | 9971 | nuclear receptor subfamily 1, group H, member 4 |
| GO | response to lipopolysaccharide | 19 | 105 | 8.238E-05 | 10221 | tribbles homolog 1 (Drosophila) |
| GO | response to lipopolysaccharide | 19 | 105 | 8.238E-05 | 11213 | interleukin-1 receptor-associated kinase 3 |

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| GO | response to lipopolysaccharide | 19 | 105 | 8.238E-05 | 1373 | carbamoyl-phosphate synthetase 1, mitochondrial |
| GO | response to lipopolysaccharide | 19 | 105 | 8.238E-05 | 2353 | FBJ murine osteosarcoma viral oncogene homolog |
| GO | response to lipopolysaccharide | 19 | 105 | 8.238E-05 | 3570 | interleukin 6 receptor |
| GO | response to lipopolysaccharide | 19 | 105 | 8.238E-05 | 3587 | interleukin 10 receptor, alpha |
| GO | response to lipopolysaccharide | 19 | 105 | 8.238E-05 | 3725 | jun oncogene |
| GO | response to lipopolysaccharide | 19 | 105 | 8.238E-05 | 4129 | monoamine oxidase B |
| GO | response to lipopolysaccharide | 19 | 105 | 8.238E-05 | 4792 | nuclear factor of kappa light polypeptide gene enhancer in B-cells inhib |
| GO | response to lipopolysaccharide | 19 | 105 | 8.238E-05 | 5122 | proprotein convertase subtilisin/kexin type 1 |
| GO | response to lipopolysaccharide | 19 | 105 | 8.238E-05 | 5724 | platelet-activating factor receptor |
| GO | response to lipopolysaccharide | 19 | 105 | 8.238E-05 | 64127 | nucleotide-binding oligomerization domain containing 2 |
| GO | response to lipopolysaccharide | 19 | 105 | 8.238E-05 | 6622 | synuclein, alpha (non A4 component of amyloid precursor) |
| GO | response to lipopolysaccharide | 19 | 105 | 8.238E-05 | 7001 | peroxiredoxin 2 |
| GO | response to lipopolysaccharide | 19 | 105 | 8.238E-05 | 7097 | toll-like receptor 2 |
| GO | response to lipopolysaccharide | 19 | 105 | 8.238E-05 | 7099 | toll-like receptor 4 |
| GO | response to lipopolysaccharide | 19 | 105 | 8.238E-05 | 834 | caspase 1, apoptosis-related cysteine peptidase (interleukin 1, beta, co |
| GO | response to lipopolysaccharide | 19 | 105 | 8.238E-05 | 9021 | suppressor of cytokine signaling 3 |
| GO | response to lipopolysaccharide | 19 | 105 | 8.238E-05 | 9971 | nuclear receptor subfamily 1, group H, member 4 |
| GO | response to protein stimulus | 11 | 42 | 8.679E-05 | 1508 | cathepsin B |
| GO | response to protein stimulus | 11 | 42 | 8.679E-05 | 1958 | early growth response 1 |
| GO | response to protein stimulus | 11 | 42 | 8.679E-05 | 2033 | E1A binding protein p300 |
| GO | response to protein stimulus | 11 | 42 | 8.679E-05 | 2353 | FBJ murine osteosarcoma viral oncogene homolog |
| GO | response to protein stimulus | 11 | 42 | 8.679E-05 | 3491 | cysteine-rich, angiogenic inducer, 61 |
| GO | response to protein stimulus | 11 | 42 | 8.679E-05 | 3643 | insulin receptor |
| GO | response to protein stimulus | 11 | 42 | 8.679E-05 | 4929 | nuclear receptor subfamily 4, group A, member 2 |
| GO | response to protein stimulus | 11 | 42 | 8.679E-05 | 5122 | proprotein convertase subtilisin/kexin type 1 |
| GO | response to protein stimulus | 11 | 42 | 8.679E-05 | 56923 | neuromedin U receptor 2 |
| GO | response to protein stimulus | 11 | 42 | 8.679E-05 | 7071 | Kruppel-like factor 10 |
| GO | response to protein stimulus | 11 | 42 | 8.679E-05 | 7706 | tripartite motif-containing 25 |
| GO | positive regulation of peptidyl-tyrosin | 11 | 42 | 8.679E-05 | 183 | angiotensinogen (serpin peptidase inhibitor, clade A, member 8) |
| GO | positive regulation of peptidyl-tyrosin | 11 | 42 | 8.679E-05 | 2205 | Fc fragment of IgE, high affinity I, receptor for; alpha polypeptide |
| GO | positive regulation of peptidyl-tyrosin | 11 | 42 | 8.679E-05 | 3479 | insulin-like growth factor 1 (somatomedin C) |
| GO | positive regulation of peptidyl-tyrosin | 11 | 42 | 8.679E-05 | 3569 | interleukin 6 (interferon, beta 2) |
| GO | positive regulation of peptidyl-tyrosin | 11 | 42 | 8.679E-05 | 3570 | interleukin 6 receptor |
| GO | positive regulation of peptidyl-tyrosin | 11 | 42 | 8.679E-05 | 3678 | integrin, alpha 5 (fibronectin receptor, alpha polypeptide) |
| GO | positive regulation of peptidyl-tyrosin | 11 | 42 | 8.679E-05 | 4254 | KIT ligand |
| GO | positive regulation of peptidyl-tyrosin | 11 | 42 | 8.679E-05 | 64127 | nucleotide-binding oligomerization domain containing 2 |

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| GO | positive regulation of peptidyl-tyrosir | 11 | 42 | 8.679E-05 | 6850 | spleen tyrosine kinase |
| GO | positive regulation of peptidyl-tyrosir | 11 | 42 | 8.679E-05 | 7099 | toll-like receptor 4 |
| GO | positive regulation of peptidyl-tyrosir | 11 | 42 | 8.679E-05 | 885 | cholecystokinin |
| GO | membrane | 302 | 3643 | 8.688E-05 | 10008 | potassium voltage-gated channel, Isk-related family, member 3 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 10090 | uronyl-2-sulfotransferase |
| GO | membrane | 302 | 3643 | 8.688E-05 | 10103 | tetraspanin 1 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 10158 | PDZK1 interacting protein 1 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 10162 | lysophosphatidylcholine acyltransferase 3 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 10170 | dehydrogenase/reductase (SDR family) member 9 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 10205 | myelin protein zero-like 2 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 10282 | blocked early in transport 1 homolog (S. cerevisiae) |
| GO | membrane | 302 | 3643 | 8.688E-05 | 10317 | UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase, polypeptide 5 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 10335 | murine retrovirus integration site 1 homolog |
| GO | membrane | 302 | 3643 | 8.688E-05 | 10384 | butyrophilin, subfamily 3, member A3 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 10435 | CDC42 effector protein (Rho GTPase binding) 2 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 10568 | solute carrier family 34 (sodium phosphate), member 2 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 1080 | cystic fibrosis transmembrane conductance regulator (ATP-binding cas |
| GO | membrane | 302 | 3643 | 8.688E-05 | 10826 | chromosome 5 open reading frame 4 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 10913 | ectodysplasin A receptor |
| GO | membrane | 302 | 3643 | 8.688E-05 | 1124 | chimerin (chimaerin) 2 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 112574 | sorting nexin 18 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 11273 | ataxin 2-like |
| GO | membrane | 302 | 3643 | 8.688E-05 | 11322 | transmembrane channel-like 6 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 113278 | chromosome 20 open reading frame 54 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 115273 | RAB42, member RAS oncogene family |
| GO | membrane | 302 | 3643 | 8.688E-05 | 116844 | leucine-rich alpha-2-glycoprotein 1 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 1193 | chloride intracellular channel 2 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 119467 | clarin 3 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 120224 | transmembrane protein 45B |
| GO | membrane | 302 | 3643 | 8.688E-05 | 121227 | leucine-rich repeats and immunoglobulin-like domains 3 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 121665 | signal peptide peptidase 3 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 123096 | solute carrier family 25, member 29 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 123099 | degenerative spermatocyte homolog 2, lipid desaturase (Drosophila) |
| GO | membrane | 302 | 3643 | 8.688E-05 | 127707 | kelch domain containing 7A |
| GO | membrane | 302 | 3643 | 8.688E-05 | 127845 | golgi transport 1 homolog A (S. cerevisiae) |
| GO | membrane | 302 | 3643 | 8.688E-05 | 130367 | sphingosine-1-phosphate phosphotase 2 |

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| GO | membrane | 302 | 3643 | 8.688E-05 | 130399 | activin A receptor, type IC |
| GO | membrane | 302 | 3643 | 8.688E-05 | 137994 | leucine zipper-EF-hand containing transmembrane protein 2 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 143098 | membrane protein, palmitoylated 7 (MAGUK p55 subfamily member 7 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 143425 | synaptotagmin IX |
| GO | membrane | 302 | 3643 | 8.688E-05 | 1435 | colony stimulating factor 1 (macrophage) |
| GO | membrane | 302 | 3643 | 8.688E-05 | 144132 | dynein heavy chain domain 1 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 145581 | leucine rich repeat and fibronectin type III domain containing 5 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 147138 | transmembrane channel-like 8 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 147798 | transmembrane channel-like 4 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 148170 | CDC42 effector protein (Rho GTPase binding) 5 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 148229 | ATPase, class I, type 8B, member 3 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 154043 | CNKSR family member 3 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 154141 | membrane bound O-acyltransferase domain containing 1 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 154214 | ring finger protein 217 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 155006 | transmembrane protein 213 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 1558 | cytochrome P450, family 2, subfamily C, polypeptide 8 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 1559 | cytochrome P450, family 2, subfamily C, polypeptide 9 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 1571 | cytochrome P450, family 2, subfamily E, polypeptide 1 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 157506 | retinol dehydrogenase 10 (all-trans) |
| GO | membrane | 302 | 3643 | 8.688E-05 | 1577 | cytochrome P450, family 3, subfamily A, polypeptide 5 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 157855 | potassium channel, subfamily U, member 1 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 158038 | leucine rich repeat and Ig domain containing 2 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 160518 | DENN/MADD domain containing 5B |
| GO | membrane | 302 | 3643 | 8.688E-05 | 163590 | torsin A interacting protein 2 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 165679 | chromosome 3 open reading frame 57 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 1755 | deleted in malignant brain tumors 1 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 1815 | dopamine receptor D4 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 192134 | UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 6 (core |
| GO | membrane | 302 | 3643 | 8.688E-05 | 195814 | short chain dehydrogenase/reductase family 16C, member 5 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 200150 | phospholipase D family, member 5 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 2013 | epithelial membrane protein 2 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 201895 | chromosome 4 open reading frame 34 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 2044 | EPH receptor A5 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 204962 | solute carrier family 44, member 5 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 2055 | ceroid-lipofuscinosis, neuronal 8 (epilepsy, progressive with mental ret |
| GO | membrane | 302 | 3643 | 8.688E-05 | 2182 | acyl-CoA synthetase long-chain family member 4 |

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|---|---|---|---|---|---|---|
| GO | membrane | 302 | 3643 | 8.688E-05 | 219623 | transmembrane protein 26 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 221303 | family with sequence similarity 162, member B |
| GO | membrane | 302 | 3643 | 8.688E-05 | 222223 | KIAA1324-like |
| GO | membrane | 302 | 3643 | 8.688E-05 | 223117 | sema domain, immunoglobulin domain (Ig), short basic domain, secret |
| GO | membrane | 302 | 3643 | 8.688E-05 | 2263 | fibroblast growth factor receptor 2 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 22795 | nidogen 2 (osteonidogen) |
| GO | membrane | 302 | 3643 | 8.688E-05 | 23035 | PH domain and leucine rich repeat protein phosphatase 2 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 23151 | GRAM domain containing 4 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 23208 | synaptotagmin XI |
| GO | membrane | 302 | 3643 | 8.688E-05 | 23348 | dedicator of cytokinesis 9 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 23365 | Rho guanine nucleotide exchange factor (GEF) 12 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 23654 | plexin B2 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 23767 | fibronectin leucine rich transmembrane protein 3 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 240 | arachidonate 5-lipoxygenase |
| GO | membrane | 302 | 3643 | 8.688E-05 | 2525 | fucosyltransferase 3 (galactoside 3(4)-L-fucosyltransferase, Lewis blooc |
| GO | membrane | 302 | 3643 | 8.688E-05 | 2526 | fucosyltransferase 4 (alpha (1,3) fucosyltransferase, myeloid-specific) |
| GO | membrane | 302 | 3643 | 8.688E-05 | 255104 | transmembrane and coiled-coil domains 4 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 255488 | ring finger protein 144B |
| GO | membrane | 302 | 3643 | 8.688E-05 | 255743 | nephronectin |
| GO | membrane | 302 | 3643 | 8.688E-05 | 256987 | serine incorporator 5 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 257019 | FERM domain containing 3 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 25825 | beta-site APP-cleaving enzyme 2 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 2589 | UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosami |
| GO | membrane | 302 | 3643 | 8.688E-05 | 259232 | sodium leak channel, non-selective |
| GO | membrane | 302 | 3643 | 8.688E-05 | 25956 | SEC31 homolog B (S. cerevisiae) |
| GO | membrane | 302 | 3643 | 8.688E-05 | 26035 | glucuronic acid epimerase |
| GO | membrane | 302 | 3643 | 8.688E-05 | 26050 | SLIT and NTRK-like family, member 5 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 2615 | leucine rich repeat containing 32 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 26157 | GTPase, IMAP family member 2 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 2635 | guanylate binding protein 3 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 27035 | NADPH oxidase 1 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 27090 | ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1,3)-N-acetylgalact |
| GO | membrane | 302 | 3643 | 8.688E-05 | 27242 | tumor necrosis factor receptor superfamily, member 21 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 27345 | potassium large conductance calcium-activated channel, subfamily M, |
| GO | membrane | 302 | 3643 | 8.688E-05 | 2801 | golgin A2 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 28231 | solute carrier organic anion transporter family, member 4A1 |

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|---|---|---|---|---|---|---|
| GO | membrane | 302 | 3643 | 8.688E-05 | 283417 | dpy-19-like 2 (C. elegans) |
| GO | membrane | 302 | 3643 | 8.688E-05 | 283537 | solute carrier family 46, member 3 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 284021 | chromosome 17 open reading frame 60 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 284353 | NTPase, KAP family P-loop domain containing 1 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 286144 | chromosome 8 open reading frame 83 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 28959 | transmembrane protein 176B |
| GO | membrane | 302 | 3643 | 8.688E-05 | 29015 | solute carrier family 43, member 3 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 29103 | DnaJ (Hsp40) homolog, subfamily C, member 15 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 30008 | EGF-containing fibulin-like extracellular matrix protein 2 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 3134 | major histocompatibility complex, class I, F |
| GO | membrane | 302 | 3643 | 8.688E-05 | 3294 | hydroxysteroid (17-beta) dehydrogenase 2 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 3429 | interferon, alpha-inducible protein 27 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 3561 | interleukin 2 receptor, gamma (severe combined immunodeficiency) |
| GO | membrane | 302 | 3643 | 8.688E-05 | 3601 | interleukin 15 receptor, alpha |
| GO | membrane | 302 | 3643 | 8.688E-05 | 3604 | tumor necrosis factor receptor superfamily, member 9 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 3643 | insulin receptor |
| GO | membrane | 302 | 3643 | 8.688E-05 | 3687 | integrin, alpha X (complement component 3 receptor 4 subunit) |
| GO | membrane | 302 | 3643 | 8.688E-05 | 3696 | integrin, beta 8 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 3709 | inositol 1,4,5-triphosphate receptor, type 2 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 374378 | UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosami |
| GO | membrane | 302 | 3643 | 8.688E-05 | 375056 | melanoma inhibitory activity family, member 3 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 3759 | potassium inwardly-rectifying channel, subfamily J, member 2 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 3773 | potassium inwardly-rectifying channel, subfamily J, member 16 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 3775 | potassium channel, subfamily K, member 1 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 3783 | potassium intermediate/small conductance calcium-activated channel, |
| GO | membrane | 302 | 3643 | 8.688E-05 | 3786 | potassium voltage-gated channel, KQT-like subfamily, member 3 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 378925 | ring finger protein 148 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 3815 | v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog |
| GO | membrane | 302 | 3643 | 8.688E-05 | 3823 | killer cell lectin-like receptor subfamily C, member 3 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 387496 | RAS-like, family 11, member A |
| GO | membrane | 302 | 3643 | 8.688E-05 | 387923 | stress-associated endoplasmic reticulum protein family member 2 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 388633 | low density lipoprotein receptor class A domain containing 1 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 3959 | lectin, galactoside-binding, soluble, 3 binding protein |
| GO | membrane | 302 | 3643 | 8.688E-05 | 4038 | low density lipoprotein receptor-related protein 4 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 4056 | leukotriene C4 synthase |
| GO | membrane | 302 | 3643 | 8.688E-05 | 405753 | dual oxidase maturation factor 2 |

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|---|---|---|---|---|---|---|
| GO | membrane | 302 | 3643 | 8.688E-05 | 4065 | lymphocyte antigen 75 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 4121 | mannosidase, alpha, class 1A, member 1 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 4128 | monoamine oxidase A |
| GO | membrane | 302 | 3643 | 8.688E-05 | 4129 | monoamine oxidase B |
| GO | membrane | 302 | 3643 | 8.688E-05 | 4170 | myeloid cell leukemia sequence 1 (BCL2-related) |
| GO | membrane | 302 | 3643 | 8.688E-05 | 4306 | nuclear receptor subfamily 3, group C, member 2 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 4915 | neurotrophic tyrosine kinase, receptor, type 2 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 4939 | 2'-5'-oligoadenylate synthetase 2, 69/71kDa |
| GO | membrane | 302 | 3643 | 8.688E-05 | 5025 | purinergic receptor P2X, ligand-gated ion channel, 4 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 5046 | proprotein convertase subtilisin/kexin type 6 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 5066 | peptidylglycine alpha-amidating monooxygenase |
| GO | membrane | 302 | 3643 | 8.688E-05 | 50937 | Cdon homolog (mouse) |
| GO | membrane | 302 | 3643 | 8.688E-05 | 51063 | calcium homeostasis modulator 2 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 51093 | chromosome 1 open reading frame 66 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 51228 | glycolipid transfer protein |
| GO | membrane | 302 | 3643 | 8.688E-05 | 51272 | blocked early in transport 1 homolog (S. cerevisiae)-like |
| GO | membrane | 302 | 3643 | 8.688E-05 | 51280 | golgi membrane protein 1 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 51285 | RAS-like, family 12 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 51303 | FK506 binding protein 11, 19 kDa |
| GO | membrane | 302 | 3643 | 8.688E-05 | 51309 | armadillo repeat containing, X-linked 1 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 51313 | family with sequence similarity 198, member B |
| GO | membrane | 302 | 3643 | 8.688E-05 | 5158 | phosphodiesterase 6B, cGMP-specific, rod, beta |
| GO | membrane | 302 | 3643 | 8.688E-05 | 51703 | acyl-CoA synthetase long-chain family member 5 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 5243 | ATP-binding cassette, sub-family B (MDR/TAP), member 1 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 53373 | two pore segment channel 1 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 53405 | chloride intracellular channel 5 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 5349 | FXYD domain containing ion transport regulator 3 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 5351 | procollagen-lysine 1, 2-oxoglutarate 5-dioxygenase 1 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 53827 | FXYD domain containing ion transport regulator 5 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 53947 | alpha 1,4-galactosyltransferase |
| GO | membrane | 302 | 3643 | 8.688E-05 | 54463 | family with sequence similarity 134, member B |
| GO | membrane | 302 | 3643 | 8.688E-05 | 54664 | transmembrane protein 106B |
| GO | membrane | 302 | 3643 | 8.688E-05 | 54681 | prolyl 4-hydroxylase, transmembrane (endoplasmic reticulum) |
| GO | membrane | 302 | 3643 | 8.688E-05 | 54852 | progestin and adipoQ receptor family member V |
| GO | membrane | 302 | 3643 | 8.688E-05 | 54894 | ring finger protein 43 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 54933 | rhomboid, veinlet-like 2 (Drosophila) |

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|---|---|---|---|---|---|---|
| GO | membrane | 302 | 3643 | 8.688E-05 | 54947 | lysophosphatidylcholine acyltransferase 2 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 55061 | sushi domain containing 4 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 55076 | transmembrane protein 45A |
| GO | membrane | 302 | 3643 | 8.688E-05 | 55275 | vacuolar protein sorting 53 homolog (S. cerevisiae) |
| GO | membrane | 302 | 3643 | 8.688E-05 | 55281 | transmembrane protein 140 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 55304 | serine palmitoyltransferase, long chain base subunit 3 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 55332 | DNA-damage regulated autophagy modulator 1 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 55365 | transmembrane protein 176A |
| GO | membrane | 302 | 3643 | 8.688E-05 | 55638 | Golgi-localized protein |
| GO | membrane | 302 | 3643 | 8.688E-05 | 55714 | odz, odd Oz/ten-m homolog 3 (Drosophila) |
| GO | membrane | 302 | 3643 | 8.688E-05 | 55754 | transmembrane protein 30A |
| GO | membrane | 302 | 3643 | 8.688E-05 | 55799 | calcium channel, voltage-dependent, alpha 2/delta subunit 3 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 55808 | ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1,3)-N-acetylgalact |
| GO | membrane | 302 | 3643 | 8.688E-05 | 56605 | ERO1-like beta (S. cerevisiae) |
| GO | membrane | 302 | 3643 | 8.688E-05 | 56649 | transmembrane protease, serine 4 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 56654 | neural proliferation, differentiation and control, 1 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 56913 | core 1 synthase, glycoprotein-N-acetylgalactosamine 3-beta-galactosyl |
| GO | membrane | 302 | 3643 | 8.688E-05 | 57132 | chromatin modifying protein 1B |
| GO | membrane | 302 | 3643 | 8.688E-05 | 57134 | mannosidase, alpha, class 1C, member 1 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 57146 | transmembrane protein 159 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 57161 | pellino homolog 2 (Drosophila) |
| GO | membrane | 302 | 3643 | 8.688E-05 | 57185 | NIPA-like domain containing 3 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 57210 | solute carrier family 45, member 4 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 57221 | KIAA1244 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 5724 | platelet-activating factor receptor |
| GO | membrane | 302 | 3643 | 8.688E-05 | 57458 | transmembrane and coiled-coil domain family 3 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 57493 | HEG homolog 1 (zebrafish) |
| GO | membrane | 302 | 3643 | 8.688E-05 | 57535 | KIAA1324 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 57537 | sortilin-related VPS10 domain containing receptor 2 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 57670 | KIAA1549 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 5768 | quiescin Q6 sulfhydryl oxidase 1 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 5787 | protein tyrosine phosphatase, receptor type, B |
| GO | membrane | 302 | 3643 | 8.688E-05 | 5789 | protein tyrosine phosphatase, receptor type, D |
| GO | membrane | 302 | 3643 | 8.688E-05 | 5794 | protein tyrosine phosphatase, receptor type, H |
| GO | membrane | 302 | 3643 | 8.688E-05 | 5799 | protein tyrosine phosphatase, receptor type, N polypeptide 2 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 5873 | RAB27A, member RAS oncogene family |

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|---|---|---|---|---|---|---|
| GO | membrane | 302 | 3643 | 8.688E-05 | 59271 | chromosome 21 open reading frame 63 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 5972 | renin |
| GO | membrane | 302 | 3643 | 8.688E-05 | 6006 | Rh blood group, CcEe antigens |
| GO | membrane | 302 | 3643 | 8.688E-05 | 6238 | ribosome binding protein 1 homolog 180kDa (dog) |
| GO | membrane | 302 | 3643 | 8.688E-05 | 63027 | solute carrier family 22, member 23 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 6330 | sodium channel, voltage-gated, type IV, beta |
| GO | membrane | 302 | 3643 | 8.688E-05 | 63982 | anoctamin 3 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 64108 | receptor (chemosensory) transporter protein 4 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 64116 | solute carrier family 39 (zinc transporter), member 8 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 646658 | transmembrane protein 90A |
| GO | membrane | 302 | 3643 | 8.688E-05 | 64699 | transmembrane protease, serine 3 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 6484 | ST3 beta-galactoside alpha-2,3-sialyltransferase 4 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 6489 | ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 1 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 6494 | signal-induced proliferation-associated 1 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 6505 | solute carrier family 1 (neuronal/epithelial high affinity glutamate trans |
| GO | membrane | 302 | 3643 | 8.688E-05 | 6521 | solute carrier family 4, anion exchanger, member 1 (erythrocyte memb |
| GO | membrane | 302 | 3643 | 8.688E-05 | 6535 | solute carrier family 6 (neurotransmitter transporter, creatine), membe |
| GO | membrane | 302 | 3643 | 8.688E-05 | 6542 | solute carrier family 7 (cationic amino acid transporter, y+ system), me |
| GO | membrane | 302 | 3643 | 8.688E-05 | 654463 | fer-1-like 6 (C. elegans) |
| GO | membrane | 302 | 3643 | 8.688E-05 | 6564 | solute carrier family 15 (oligopeptide transporter), member 1 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 6565 | solute carrier family 15 (H+/peptide transporter), member 2 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 6653 | sortilin-related receptor, L(DLR class) A repeats-containing |
| GO | membrane | 302 | 3643 | 8.688E-05 | 6916 | thromboxane A synthase 1 (platelet) |
| GO | membrane | 302 | 3643 | 8.688E-05 | 7098 | toll-like receptor 3 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 7102 | tetraspanin 7 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 7111 | tropomodulin 1 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 727910 | TLC domain containing 2 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 728215 | family with sequence similarity 155, member A |
| GO | membrane | 302 | 3643 | 8.688E-05 | 731 | complement component 8, alpha polypeptide |
| GO | membrane | 302 | 3643 | 8.688E-05 | 771 | carbonic anhydrase XII |
| GO | membrane | 302 | 3643 | 8.688E-05 | 7869 | sema domain, immunoglobulin domain (Ig), short basic domain, secret |
| GO | membrane | 302 | 3643 | 8.688E-05 | 79152 | fatty acid 2-hydroxylase |
| GO | membrane | 302 | 3643 | 8.688E-05 | 79180 | EF-hand domain family, member D2 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 79695 | UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosami |
| GO | membrane | 302 | 3643 | 8.688E-05 | 79789 | calmin (calponin-like, transmembrane) |
| GO | membrane | 302 | 3643 | 8.688E-05 | 79820 | cation channel, sperm-associated, beta |

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|---|---|---|---|---|---|---|
| GO | membrane | 302 | 3643 | 8.688E-05 | 79838 | transmembrane channel-like 5 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 79895 | ATPase, class I, type 8B, member 4 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 79932 | KIAA0319-like |
| GO | membrane | 302 | 3643 | 8.688E-05 | 79956 | endoplasmic reticulum metallopeptidase 1 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 79957 | progestin and adipoQ receptor family member VI |
| GO | membrane | 302 | 3643 | 8.688E-05 | 79971 | wntless homolog (Drosophila) |
| GO | membrane | 302 | 3643 | 8.688E-05 | 79987 | sushi, von Willebrand factor type A, EGF and pentraxin domain contain |
| GO | membrane | 302 | 3643 | 8.688E-05 | 80223 | RAB11 family interacting protein 1 (class I) |
| GO | membrane | 302 | 3643 | 8.688E-05 | 81544 | glycerophosphodiester phosphodiesterase domain containing 5 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 81615 | transmembrane protein 163 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 81693 | amnionless homolog (mouse) |
| GO | membrane | 302 | 3643 | 8.688E-05 | 819 | calcium modulating ligand |
| GO | membrane | 302 | 3643 | 8.688E-05 | 83394 | PITPNM family member 3 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 83661 | membrane-spanning 4-domains, subfamily A, member 8B |
| GO | membrane | 302 | 3643 | 8.688E-05 | 83857 | transmembrane and tetratricopeptide repeat containing 1 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 83890 | spermatogenesis associated 9 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 84059 | G protein-coupled receptor 98 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 8406 | sushi-repeat-containing protein, X-linked |
| GO | membrane | 302 | 3643 | 8.688E-05 | 84171 | lysyl oxidase-like 4 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 84561 | solute carrier family 12 (potassium/chloride transporters), member 8 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 84879 | major facilitator superfamily domain containing 2A |
| GO | membrane | 302 | 3643 | 8.688E-05 | 84976 | dispatched homolog 1 (Drosophila) |
| GO | membrane | 302 | 3643 | 8.688E-05 | 85004 | RAS-like, estrogen-regulated, growth inhibitor |
| GO | membrane | 302 | 3643 | 8.688E-05 | 8509 | N-deacetylase/N-sulfotransferase (heparan glucosaminyl) 2 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 8645 | potassium channel, subfamily K, member 5 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 8673 | vesicle-associated membrane protein 8 (endobrevin) |
| GO | membrane | 302 | 3643 | 8.688E-05 | 8706 | beta-1,3-N-acetylgalactosaminyltransferase 1 (globoside blood group) |
| GO | membrane | 302 | 3643 | 8.688E-05 | 8751 | ADAM metallopeptidase domain 15 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 8793 | tumor necrosis factor receptor superfamily, member 10d, decoy with t |
| GO | membrane | 302 | 3643 | 8.688E-05 | 8796 | sciellin |
| GO | membrane | 302 | 3643 | 8.688E-05 | 8911 | calcium channel, voltage-dependent, T type, alpha 1I subunit |
| GO | membrane | 302 | 3643 | 8.688E-05 | 89801 | protein phosphatase 1, regulatory (inhibitor) subunit 3F |
| GO | membrane | 302 | 3643 | 8.688E-05 | 89866 | SEC16 homolog B (S. cerevisiae) |
| GO | membrane | 302 | 3643 | 8.688E-05 | 8992 | ATPase, H+ transporting, lysosomal 9kDa, V0 subunit e1 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 9019 | myelin protein zero-like 1 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 9050 | proline-serine-threonine phosphatase interacting protein 2 |

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|---|---|---|---|---|---|---|
| GO | membrane | 302 | 3643 | 8.688E-05 | 90993 | cAMP responsive element binding protein 3-like 1 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 91 | activin A receptor, type IB |
| GO | membrane | 302 | 3643 | 8.688E-05 | 9143 | synaptogyrin 3 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 9214 | Fas apoptotic inhibitory molecule 3 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 92691 | transmembrane protein 169 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 92840 | receptor accessory protein 6 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 93273 | LEM domain containing 1 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 93589 | calcium channel, voltage-dependent, alpha 2/delta subunit 4 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 94 | activin A receptor type II-like 1 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 9435 | carbohydrate (N-acetylglucosamine-6-O) sulfotransferase 2 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 9445 | integral membrane protein 2B |
| GO | membrane | 302 | 3643 | 8.688E-05 | 9452 | integral membrane protein 2A |
| GO | membrane | 302 | 3643 | 8.688E-05 | 9481 | solute carrier family 25, member 27 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 9537 | tumor protein p53 inducible protein 11 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 9804 | translocase of outer mitochondrial membrane 20 homolog (yeast) |
| GO | membrane | 302 | 3643 | 8.688E-05 | 9823 | armadillo repeat containing, X-linked 2 |
| GO | membrane | 302 | 3643 | 8.688E-05 | 9914 | ATPase, Ca++ transporting, type 2C, member 2 |
| GO | transmembrane receptor protein tyro | 7 | 18 | 0.0001116 | 10076 | protein tyrosine phosphatase, receptor type, U |
| GO | transmembrane receptor protein tyro | 7 | 18 | 0.0001116 | 5787 | protein tyrosine phosphatase, receptor type, B |
| GO | transmembrane receptor protein tyro | 7 | 18 | 0.0001116 | 5789 | protein tyrosine phosphatase, receptor type, D |
| GO | transmembrane receptor protein tyro | 7 | 18 | 0.0001116 | 5791 | protein tyrosine phosphatase, receptor type, E |
| GO | transmembrane receptor protein tyro | 7 | 18 | 0.0001116 | 5794 | protein tyrosine phosphatase, receptor type, H |
| GO | transmembrane receptor protein tyro | 7 | 18 | 0.0001116 | 5799 | protein tyrosine phosphatase, receptor type, N polypeptide 2 |
| GO | transmembrane receptor protein tyro | 7 | 18 | 0.0001116 | 5801 | protein tyrosine phosphatase, receptor type, R |
| GO | response to progesterone stimulus | 8 | 24 | 0.0001275 | 10628 | thioredoxin interacting protein |
| GO | response to progesterone stimulus | 8 | 24 | 0.0001275 | 2066 | v-erb-a erythroblastic leukemia viral oncogene homolog 4 (avian) |
| GO | response to progesterone stimulus | 8 | 24 | 0.0001275 | 2353 | FBJ murine osteosarcoma viral oncogene homolog |
| GO | response to progesterone stimulus | 8 | 24 | 0.0001275 | 3726 | jun B proto-oncogene |
| GO | response to progesterone stimulus | 8 | 24 | 0.0001275 | 7097 | toll-like receptor 2 |
| GO | response to progesterone stimulus | 8 | 24 | 0.0001275 | 7099 | toll-like receptor 4 |
| GO | response to progesterone stimulus | 8 | 24 | 0.0001275 | 9021 | suppressor of cytokine signaling 3 |
| GO | response to progesterone stimulus | 8 | 24 | 0.0001275 | 952 | CD38 molecule |
| GO | innate immune response | 19 | 109 | 0.0001382 | 10417 | spondin 2, extracellular matrix protein |
| GO | innate immune response | 19 | 109 | 0.0001382 | 1380 | complement component (3d/Epstein Barr virus) receptor 2 |
| GO | innate immune response | 19 | 109 | 0.0001382 | 1604 | CD55 molecule, decay accelerating factor for complement (Cromer blo |
| GO | innate immune response | 19 | 109 | 0.0001382 | 1755 | deleted in malignant brain tumors 1 |

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|---|---|---|---|---|---|---|
| GO | innate immune response | 19 | 109 | 0.0001382 | 4179 | CD46 molecule, complement regulatory protein |
| GO | innate immune response | 19 | 109 | 0.0001382 | 51279 | complement component 1, r subcomponent-like |
| GO | innate immune response | 19 | 109 | 0.0001382 | 64127 | nucleotide-binding oligomerization domain containing 2 |
| GO | innate immune response | 19 | 109 | 0.0001382 | 64135 | interferon induced with helicase C domain 1 |
| GO | innate immune response | 19 | 109 | 0.0001382 | 7097 | toll-like receptor 2 |
| GO | innate immune response | 19 | 109 | 0.0001382 | 7098 | toll-like receptor 3 |
| GO | innate immune response | 19 | 109 | 0.0001382 | 7099 | toll-like receptor 4 |
| GO | innate immune response | 19 | 109 | 0.0001382 | 7100 | toll-like receptor 5 |
| GO | innate immune response | 19 | 109 | 0.0001382 | 715 | complement component 1, r subcomponent |
| GO | innate immune response | 19 | 109 | 0.0001382 | 722 | complement component 4 binding protein, alpha |
| GO | innate immune response | 19 | 109 | 0.0001382 | 725 | complement component 4 binding protein, beta |
| GO | innate immune response | 19 | 109 | 0.0001382 | 7706 | tripartite motif-containing 25 |
| GO | innate immune response | 19 | 109 | 0.0001382 | 79132 | DEXH (Asp-Glu-X-His) box polypeptide 58 |
| GO | innate immune response | 19 | 109 | 0.0001382 | 8542 | apolipoprotein L, 1 |
| GO | innate immune response | 19 | 109 | 0.0001382 | 929 | CD14 molecule |
| GO | negative regulation of ERK1 and ERK2 | 5 | 9 | 0.0001478 | 10252 | sprouty homolog 1, antagonist of FGF signaling (Drosophila) |
| GO | negative regulation of ERK1 and ERK2 | 5 | 9 | 0.0001478 | 10253 | sprouty homolog 2 (Drosophila) |
| GO | negative regulation of ERK1 and ERK2 | 5 | 9 | 0.0001478 | 154043 | CNKSR family member 3 |
| GO | negative regulation of ERK1 and ERK2 | 5 | 9 | 0.0001478 | 3479 | insulin-like growth factor 1 (somatomedin C) |
| GO | negative regulation of ERK1 and ERK2 | 5 | 9 | 0.0001478 | 7099 | toll-like receptor 4 |
| GO | Rho guanyl-nucleotide exchange fact | 14 | 68 | 0.0001702 | 152273 | FYVE, RhoGEF and PH domain containing 5 |
| GO | Rho guanyl-nucleotide exchange fact | 14 | 68 | 0.0001702 | 221178 | spermatogenesis associated 13 |
| GO | Rho guanyl-nucleotide exchange fact | 14 | 68 | 0.0001702 | 23263 | MCF.2 cell line derived transforming sequence-like |
| GO | Rho guanyl-nucleotide exchange fact | 14 | 68 | 0.0001702 | 23348 | dedicator of cytokinesis 9 |
| GO | Rho guanyl-nucleotide exchange fact | 14 | 68 | 0.0001702 | 23365 | Rho guanine nucleotide exchange factor (GEF) 12 |
| GO | Rho guanyl-nucleotide exchange fact | 14 | 68 | 0.0001702 | 26030 | pleckstrin homology domain containing, family G (with RhoGef domain |
| GO | Rho guanyl-nucleotide exchange fact | 14 | 68 | 0.0001702 | 389337 | Rho guanine nucleotide exchange factor (GEF) 37 |
| GO | Rho guanyl-nucleotide exchange fact | 14 | 68 | 0.0001702 | 440107 | pleckstrin homology domain containing, family G (with RhoGef domain |
| GO | Rho guanyl-nucleotide exchange fact | 14 | 68 | 0.0001702 | 54848 | Rho guanine nucleotide exchange factor (GEF) 38 |
| GO | Rho guanyl-nucleotide exchange fact | 14 | 68 | 0.0001702 | 55160 | Rho guanine nucleotide exchange factor (GEF) 10-like |
| GO | Rho guanyl-nucleotide exchange fact | 14 | 68 | 0.0001702 | 55200 | pleckstrin homology domain containing, family G (with RhoGef domain |
| GO | Rho guanyl-nucleotide exchange fact | 14 | 68 | 0.0001702 | 7984 | Rho guanine nucleotide exchange factor (GEF) 5 |
| GO | Rho guanyl-nucleotide exchange fact | 14 | 68 | 0.0001702 | 84033 | obscurin, cytoskeletal calmodulin and titin-interacting RhoGEF |
| GO | Rho guanyl-nucleotide exchange fact | 14 | 68 | 0.0001702 | 9459 | Rac/Cdc42 guanine nucleotide exchange factor (GEF) 6 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 10008 | potassium voltage-gated channel, Isk-related family, member 3 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 1004 | cadherin 6, type 2, K-cadherin (fetal kidney) |

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|---|---|---|---|---|---|---|
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 1009 | cadherin 11, type 2, OB-cadherin (osteoblast) |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 10090 | uronyl-2-sulfotransferase |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 10103 | tetraspanin 1 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 1014 | cadherin 16, KSP-cadherin |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 10158 | PDZK1 interacting protein 1 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 1016 | cadherin 18, type 2 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 10162 | lysophosphatidylcholine acyltransferase 3 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 10205 | myelin protein zero-like 2 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 10282 | blocked early in transport 1 homolog (S. cerevisiae) |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 10317 | UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase, polypeptide 5 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 10335 | murine retrovirus integration site 1 homolog |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 10384 | butyrophilin, subfamily 3, member A3 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 10410 | interferon induced transmembrane protein 3 (1-8U) |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 10507 | sema domain, immunoglobulin domain (Ig), transmembrane domain (T |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 10568 | solute carrier family 34 (sodium phosphate), member 2 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 10752 | cell adhesion molecule with homology to L1CAM (close homolog of L1) |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 1080 | cystic fibrosis transmembrane conductance regulator (ATP-binding cas |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 10826 | chromosome 5 open reading frame 4 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 1087 | carcinoembryonic antigen-related cell adhesion molecule 7 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 10913 | ectodysplasin A receptor |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 112 | adenylate cyclase 6 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 11322 | transmembrane channel-like 6 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 113235 | solute carrier family 46 (folate transporter), member 1 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 113278 | chromosome 20 open reading frame 54 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 1139 | cholinergic receptor, nicotinic, alpha 7 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 114569 | mal, T-cell differentiation protein 2 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 115330 | G protein-coupled receptor 146 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 118429 | anthrax toxin receptor 2 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 1193 | chloride intracellular channel 2 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 119467 | clarin 3 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 120224 | transmembrane protein 45B |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 121130 | olfactory receptor, family 10, subfamily P, member 1 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 121227 | leucine-rich repeats and immunoglobulin-like domains 3 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 121665 | signal peptide peptidase 3 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 123096 | solute carrier family 25, member 29 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 123099 | degenerative spermatocyte homolog 2, lipid desaturase (Drosophila) |

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|---|---|---|---|---|---|---|
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 127707 | kelch domain containing 7A |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 127845 | golgi transport 1 homolog A (S. cerevisiae) |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 130367 | sphingosine-1-phosphate phosphotase 2 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 130399 | activin A receptor, type IC |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 137994 | leucine zipper-EF-hand containing transmembrane protein 2 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 1380 | complement component (3d/Epstein Barr virus) receptor 2 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 143425 | synaptotagmin IX |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 1435 | colony stimulating factor 1 (macrophage) |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 143503 | olfactory receptor, family 51, subfamily E, member 1 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 144132 | dynein heavy chain domain 1 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 145581 | leucine rich repeat and fibronectin type III domain containing 5 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 147138 | transmembrane channel-like 8 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 147798 | transmembrane channel-like 4 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 148229 | ATPase, class I, type 8B, member 3 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 151473 | solute carrier family 16, member 14 (monocarboxylic acid transporter |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 154141 | membrane bound O-acyltransferase domain containing 1 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 154214 | ring finger protein 217 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 155006 | transmembrane protein 213 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 157506 | retinol dehydrogenase 10 (all-trans) |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 157855 | potassium channel, subfamily U, member 1 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 158038 | leucine rich repeat and Ig domain containing 2 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 160518 | DENN/MADD domain containing 5B |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 163590 | torsin A interacting protein 2 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 165679 | chromosome 3 open reading frame 57 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 1803 | dipeptidyl-peptidase 4 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 1901 | sphingosine-1-phosphate receptor 1 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 192134 | UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 6 (core |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 195814 | short chain dehydrogenase/reductase family 16C, member 5 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 200150 | phospholipase D family, member 5 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 2013 | epithelial membrane protein 2 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 201895 | chromosome 4 open reading frame 34 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 2044 | EPH receptor A5 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 204962 | solute carrier family 44, member 5 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 2055 | ceroid-lipofuscinosis, neuronal 8 (epilepsy, progressive with mental ret |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 2066 | v-erb-a erythroblastic leukemia viral oncogene homolog 4 (avian) |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 2182 | acyl-CoA synthetase long-chain family member 4 |

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|---|---|---|---|---|---|---|
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 219623 | transmembrane protein 26 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 221303 | family with sequence similarity 162, member B |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 222223 | KIAA1324-like |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 222545 | G protein-coupled receptor, family C, group 6, member A |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 2263 | fibroblast growth factor receptor 2 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 22859 | latrophilin 1 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 23151 | GRAM domain containing 4 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 23266 | latrophilin 2 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 23284 | latrophilin 3 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 23418 | crumbs homolog 1 (Drosophila) |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 23654 | plexin B2 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 2525 | fucosyltransferase 3 (galactoside 3(4)-L-fucosyltransferase, Lewis blooc |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 2526 | fucosyltransferase 4 (alpha (1,3) fucosyltransferase, myeloid-specific) |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 255104 | transmembrane and coiled-coil domains 4 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 255488 | ring finger protein 144B |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 256987 | serine incorporator 5 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 257019 | FERM domain containing 3 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 25825 | beta-site APP-cleaving enzyme 2 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 2589 | UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosami |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 259232 | sodium leak channel, non-selective |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 26035 | glucuronic acid epimerase |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 26050 | SLIT and NTRK-like family, member 5 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 26157 | GTPase, IMAP family member 2 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 2635 | guanylate binding protein 3 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 2642 | glucagon receptor |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 26507 | cyclin M1 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 266675 | bestrophin 4 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 27035 | NADPH oxidase 1 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 2706 | gap junction protein, beta 2, 26kDa |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 2707 | gap junction protein, beta 3, 31kDa |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 27076 | LY6/PLAUR domain containing 3 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 27090 | ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1,3)-N-acetylgalact |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 27202 | G protein-coupled receptor 77 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 27242 | tumor necrosis factor receptor superfamily, member 21 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 28231 | solute carrier organic anion transporter family, member 4A1 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 283316 | CD163 molecule-like 1 |

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|---|---|---|---|---|---|---|
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 283383 | G protein-coupled receptor 133 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 283417 | dpy-19-like 2 (C. elegans) |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 283537 | solute carrier family 46, member 3 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 284021 | chromosome 17 open reading frame 60 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 284353 | NTPase, KAP family P-loop domain containing 1 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 286144 | chromosome 8 open reading frame 83 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 286183 | Na+/K+ transporting ATPase interacting 3 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 28959 | transmembrane protein 176B |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 29015 | solute carrier family 43, member 3 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 29103 | DnaJ (Hsp40) homolog, subfamily C, member 15 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 29126 | CD274 molecule |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 3134 | major histocompatibility complex, class I, F |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 3294 | hydroxysteroid (17-beta) dehydrogenase 2 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 338557 | G protein-coupled receptor 120 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 342035 | gliomedin |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 3429 | interferon, alpha-inducible protein 27 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 343450 | potassium channel, subfamily T, member 2 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 353345 | G protein-coupled receptor 141 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 3570 | interleukin 6 receptor |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 3587 | interleukin 10 receptor, alpha |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 3601 | interleukin 15 receptor, alpha |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 3678 | integrin, alpha 5 (fibronectin receptor, alpha polypeptide) |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 368 | ATP-binding cassette, sub-family C (CFTR/MRP), member 6 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 3687 | integrin, alpha X (complement component 3 receptor 4 subunit) |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 3689 | integrin, beta 2 (complement component 3 receptor 3 and 4 subunit) |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 3691 | integrin, beta 4 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 3696 | integrin, beta 8 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 3709 | inositol 1,4,5-triphosphate receptor, type 2 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 374378 | UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosami |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 375056 | melanoma inhibitory activity family, member 3 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 3773 | potassium inwardly-rectifying channel, subfamily J, member 16 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 3775 | potassium channel, subfamily K, member 1 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 3782 | potassium intermediate/small conductance calcium-activated channel, |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 3783 | potassium intermediate/small conductance calcium-activated channel, |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 3786 | potassium voltage-gated channel, KQT-like subfamily, member 3 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 378925 | ring finger protein 148 |

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|---|---|---|---|---|---|---|
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 3790 | potassium voltage-gated channel, delayed-rectifier, subfamily S, memb |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 3815 | v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 3823 | killer cell lectin-like receptor subfamily C, member 3 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 387509 | G protein-coupled receptor 153 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 387923 | stress-associated endoplasmic reticulum protein family member 2 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 388633 | low density lipoprotein receptor class A domain containing 1 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 392392 | olfactory receptor, family 1, subfamily K, member 1 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 402415 | XK, Kell blood group complex subunit-related, X-linked |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 4038 | low density lipoprotein receptor-related protein 4 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 4056 | leukotriene C4 synthase |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 405753 | dual oxidase maturation factor 2 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 412 | steroid sulfatase (microsomal), isozyme S |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 4121 | mannosidase, alpha, class 1A, member 1 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 4128 | monoamine oxidase A |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 4129 | monoamine oxidase B |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 4170 | myeloid cell leukemia sequence 1 (BCL2-related) |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 4254 | KIT ligand |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 4684 | neural cell adhesion molecule 1 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 4851 | Notch homolog 1, translocation-associated (Drosophila) |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 50617 | ATPase, H+ transporting, lysosomal V0 subunit a4 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 5066 | peptidylglycine alpha-amidating monooxygenase |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 50937 | Cdon homolog (mouse) |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 51063 | calcium homeostasis modulator 2 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 51093 | chromosome 1 open reading frame 66 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 51272 | blocked early in transport 1 homolog (S. cerevisiae)-like |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 51303 | FK506 binding protein 11, 19 kDa |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 51309 | armadillo repeat containing, X-linked 1 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 51313 | family with sequence similarity 198, member B |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 51703 | acyl-CoA synthetase long-chain family member 5 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 51754 | transmembrane protein 8B |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 5243 | ATP-binding cassette, sub-family B (MDR/TAP), member 1 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 5318 | plakophilin 2 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 53373 | two pore segment channel 1 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 53405 | chloride intracellular channel 5 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 5362 | plexin A2 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 53827 | FXYD domain containing ion transport regulator 5 |

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| GO | integral to membrane | 315 | 3857 | 0.0001793 | 53947 | alpha 1,4-galactosyltransferase |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 54463 | family with sequence similarity 134, member B |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 54664 | transmembrane protein 106B |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 54681 | prolyl 4-hydroxylase, transmembrane (endoplasmic reticulum) |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 54852 | progestin and adipoQ receptor family member V |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 54894 | ring finger protein 43 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 54933 | rhomboid, veinlet-like 2 (Drosophila) |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 54947 | lysophosphatidylcholine acyltransferase 2 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 55061 | sushi domain containing 4 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 55076 | transmembrane protein 45A |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 55080 | TAP binding protein-like |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 55281 | transmembrane protein 140 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 55304 | serine palmitoyltransferase, long chain base subunit 3 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 55332 | DNA-damage regulated autophagy modulator 1 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 55365 | transmembrane protein 176A |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 55638 | Golgi-localized protein |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 55714 | odz, odd Oz/ten-m homolog 3 (Drosophila) |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 55754 | transmembrane protein 30A |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 55799 | calcium channel, voltage-dependent, alpha 2/delta subunit 3 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 55808 | ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1,3)-N-acetylgalact |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 55824 | phosphoprotein associated with glycosphingolipid microdomains 1 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 56172 | ankylosis, progressive homolog (mouse) |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 56649 | transmembrane protease, serine 4 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 56654 | neural proliferation, differentiation and control, 1 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 56913 | core 1 synthase, glycoprotein-N-acetylgalactosamine 3-beta-galactosyl |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 56923 | neuromedin U receptor 2 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 57104 | patatin-like phospholipase domain containing 2 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 57134 | mannosidase, alpha, class 1C, member 1 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 57146 | transmembrane protein 159 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 57185 | NIPA-like domain containing 3 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 57210 | solute carrier family 45, member 4 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 57221 | KIAA1244 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 5724 | platelet-activating factor receptor |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 5734 | prostaglandin E receptor 4 (subtype EP4) |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 57453 | Down syndrome cell adhesion molecule like 1 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 57458 | transmembrane and coiled-coil domain family 3 |

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|---|---|---|---|---|---|---|
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 57488 | extended synaptotagmin-like protein 2 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 57493 | HEG homolog 1 (zebrafish) |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 57512 | G protein-coupled receptor 158 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 57535 | KIAA1324 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 57537 | sortilin-related VPS10 domain containing receptor 2 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 57620 | stromal interaction molecule 2 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 57670 | KIAA1549 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 5768 | quiescin Q6 sulfhydryl oxidase 1 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 57863 | cell adhesion molecule 3 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 5791 | protein tyrosine phosphatase, receptor type, E |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 5801 | protein tyrosine phosphatase, receptor type, R |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 59271 | chromosome 21 open reading frame 63 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 6238 | ribosome binding protein 1 homolog 180kDa (dog) |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 63027 | solute carrier family 22, member 23 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 6330 | sodium channel, voltage-gated, type IV, beta |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 63982 | anoctamin 3 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 64108 | receptor (chemosensory) transporter protein 4 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 64116 | solute carrier family 39 (zinc transporter), member 8 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 646658 | transmembrane protein 90A |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 64699 | transmembrane protease, serine 3 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 6484 | ST3 beta-galactoside alpha-2,3-sialyltransferase 4 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 6489 | ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 1 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 6535 | solute carrier family 6 (neurotransmitter transporter, creatine), membe |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 654463 | fer-1-like 6 (C. elegans) |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 682 | basigin (Ok blood group) |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 6857 | synaptotagmin I |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 6916 | thromboxane A synthase 1 (platelet) |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 7100 | toll-like receptor 5 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 7133 | tumor necrosis factor receptor superfamily, member 1B |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 7223 | transient receptor potential cation channel, subfamily C, member 4 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 727910 | TLC domain containing 2 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 728215 | family with sequence similarity 155, member A |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 729993 | shisa homolog 9 (Xenopus laevis) |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 731 | complement component 8, alpha polypeptide |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 771 | carbonic anhydrase XII |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 774 | calcium channel, voltage-dependent, N type, alpha 1B subunit |

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|---|---|---|---|---|---|---|
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 7852 | chemokine (C-X-C motif) receptor 4 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 79152 | fatty acid 2-hydroxylase |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 79689 | STEAP family member 4 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 79695 | UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosami |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 79789 | calmin (calponin-like, transmembrane) |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 79820 | cation channel, sperm-associated, beta |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 79838 | transmembrane channel-like 5 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 79895 | ATPase, class I, type 8B, member 4 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 79932 | KIAA0319-like |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 79956 | endoplasmic reticulum metallopeptidase 1 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 79957 | progestin and adipoQ receptor family member VI |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 79971 | wntless homolog (Drosophila) |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 81285 | olfactory receptor, family 51, subfamily E, member 2 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 81470 | olfactory receptor, family 2, subfamily G, member 2 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 81544 | glycerophosphodiester phosphodiesterase domain containing 5 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 81615 | transmembrane protein 163 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 81693 | amnionless homolog (mouse) |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 819 | calcium modulating ligand |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 83394 | PITPNM family member 3 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 83604 | transmembrane protein 47 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 83661 | membrane-spanning 4-domains, subfamily A, member 8B |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 83857 | transmembrane and tetratricopeptide repeat containing 1 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 83890 | spermatogenesis associated 9 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 84059 | G protein-coupled receptor 98 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 84561 | solute carrier family 12 (potassium/chloride transporters), member 8 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 84879 | major facilitator superfamily domain containing 2A |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 84976 | dispatched homolog 1 (Drosophila) |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 8509 | N-deacetylase/N-sulfotransferase (heparan glucosaminyl) 2 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 8514 | potassium voltage-gated channel, shaker-related subfamily, beta mem |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 8519 | interferon induced transmembrane protein 1 (9-27) |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 8673 | vesicle-associated membrane protein 8 (endobrevin) |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 8706 | beta-1,3-N-acetylgalactosaminyltransferase 1 (globoside blood group) |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 8740 | tumor necrosis factor (ligand) superfamily, member 14 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 8744 | tumor necrosis factor (ligand) superfamily, member 9 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 8751 | ADAM metallopeptidase domain 15 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 8793 | tumor necrosis factor receptor superfamily, member 10d, decoy with t |

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|---|---|---|---|---|---|---|
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 8911 | calcium channel, voltage-dependent, T type, alpha 1I subunit |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 8912 | calcium channel, voltage-dependent, T type, alpha 1H subunit |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 8973 | cholinergic receptor, nicotinic, alpha 6 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 89801 | protein phosphatase 1, regulatory (inhibitor) subunit 3F |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 8992 | ATPase, H+ transporting, lysosomal 9kDa, V0 subunit e1 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 9071 | claudin 10 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 90993 | cAMP responsive element binding protein 3-like 1 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 91653 | Boc homolog (mouse) |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 9214 | Fas apoptotic inhibitory molecule 3 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 92691 | transmembrane protein 169 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 92840 | receptor accessory protein 6 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 93273 | LEM domain containing 1 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 93589 | calcium channel, voltage-dependent, alpha 2/delta subunit 4 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 94025 | mucin 16, cell surface associated |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 9435 | carbohydrate (N-acetylglucosamine-6-O) sulfotransferase 2 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 9445 | integral membrane protein 2B |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 9452 | integral membrane protein 2A |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 9481 | solute carrier family 25, member 27 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 952 | CD38 molecule |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 9537 | tumor protein p53 inducible protein 11 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 9804 | translocase of outer mitochondrial membrane 20 homolog (yeast) |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 9823 | armadillo repeat containing, X-linked 2 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 9914 | ATPase, Ca++ transporting, type 2C, member 2 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 9962 | solute carrier family 23 (nucleobase transporters), member 2 |
| GO | integral to membrane | 315 | 3857 | 0.0001793 | 9966 | tumor necrosis factor (ligand) superfamily, member 15 |
| GO | rhythmic process | 6 | 14 | 0.0001877 | 1628 | D site of albumin promoter (albumin D-box) binding protein |
| GO | rhythmic process | 6 | 14 | 0.0001877 | 3131 | hepatic leukemia factor |
| GO | rhythmic process | 6 | 14 | 0.0001877 | 4783 | nuclear factor, interleukin 3 regulated |
| GO | rhythmic process | 6 | 14 | 0.0001877 | 55068 | ecto-NOX disulfide-thiol exchanger 1 |
| GO | rhythmic process | 6 | 14 | 0.0001877 | 7008 | thyrotrophic embryonic factor |
| GO | rhythmic process | 6 | 14 | 0.0001877 | 8863 | period homolog 3 (Drosophila) |
| GO | steroid hormone receptor activity | 11 | 46 | 0.0002101 | 3164 | nuclear receptor subfamily 4, group A, member 1 |
| GO | steroid hormone receptor activity | 11 | 46 | 0.0002101 | 4306 | nuclear receptor subfamily 3, group C, member 2 |
| GO | steroid hormone receptor activity | 11 | 46 | 0.0002101 | 4929 | nuclear receptor subfamily 4, group A, member 2 |
| GO | steroid hormone receptor activity | 11 | 46 | 0.0002101 | 5465 | peroxisome proliferator-activated receptor alpha |
| GO | steroid hormone receptor activity | 11 | 46 | 0.0002101 | 6096 | RAR-related orphan receptor B |

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|---|---|---|---|---|---|---|
| GO | steroid hormone receptor activity | 11 | 46 | 0.0002101 | 6097 | RAR-related orphan receptor C |
| GO | steroid hormone receptor activity | 11 | 46 | 0.0002101 | 6256 | retinoid X receptor, alpha |
| GO | steroid hormone receptor activity | 11 | 46 | 0.0002101 | 7026 | nuclear receptor subfamily 2, group F, member 2 |
| GO | steroid hormone receptor activity | 11 | 46 | 0.0002101 | 8013 | nuclear receptor subfamily 4, group A, member 3 |
| GO | steroid hormone receptor activity | 11 | 46 | 0.0002101 | 9572 | nuclear receptor subfamily 1, group D, member 1 |
| GO | steroid hormone receptor activity | 11 | 46 | 0.0002101 | 9971 | nuclear receptor subfamily 1, group H, member 4 |
| GO | positive regulation of NF-kappaB trar | 11 | 47 | 0.0002576 | 11213 | interleukin-1 receptor-associated kinase 3 |
| GO | positive regulation of NF-kappaB trar | 11 | 47 | 0.0002576 | 183 | angiotensinogen (serpin peptidase inhibitor, clade A, member 8) |
| GO | positive regulation of NF-kappaB trar | 11 | 47 | 0.0002576 | 29108 | PYD and CARD domain containing |
| GO | positive regulation of NF-kappaB trar | 11 | 47 | 0.0002576 | 3569 | interleukin 6 (interferon, beta 2) |
| GO | positive regulation of NF-kappaB trar | 11 | 47 | 0.0002576 | 3570 | interleukin 6 receptor |
| GO | positive regulation of NF-kappaB trar | 11 | 47 | 0.0002576 | 3845 | v-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog |
| GO | positive regulation of NF-kappaB trar | 11 | 47 | 0.0002576 | 64127 | nucleotide-binding oligomerization domain containing 2 |
| GO | positive regulation of NF-kappaB trar | 11 | 47 | 0.0002576 | 7097 | toll-like receptor 2 |
| GO | positive regulation of NF-kappaB trar | 11 | 47 | 0.0002576 | 7098 | toll-like receptor 3 |
| GO | positive regulation of NF-kappaB trar | 11 | 47 | 0.0002576 | 7099 | toll-like receptor 4 |
| GO | positive regulation of NF-kappaB trar | 11 | 47 | 0.0002576 | 7474 | wingless-type MMTV integration site family, member 5A |
| GO | negative regulation of fibroblast grov | 4 | 6 | 0.0002914 | 10252 | sprouty homolog 1, antagonist of FGF signaling (Drosophila) |
| GO | negative regulation of fibroblast grov | 4 | 6 | 0.0002914 | 10253 | sprouty homolog 2 (Drosophila) |
| GO | negative regulation of fibroblast grov | 4 | 6 | 0.0002914 | 54361 | wingless-type MMTV integration site family, member 4 |
| GO | negative regulation of fibroblast grov | 4 | 6 | 0.0002914 | 7474 | wingless-type MMTV integration site family, member 5A |
| GO | cardiac muscle cell proliferation | 4 | 6 | 0.0002914 | 2296 | forkhead box C1 |
| GO | cardiac muscle cell proliferation | 4 | 6 | 0.0002914 | 2303 | forkhead box C2 (MFH-1, mesenchyme forkhead 1) |
| GO | cardiac muscle cell proliferation | 4 | 6 | 0.0002914 | 6256 | retinoid X receptor, alpha |
| GO | cardiac muscle cell proliferation | 4 | 6 | 0.0002914 | 7049 | transforming growth factor, beta receptor III |
| GO | pathogen-associated molecular patte | 4 | 6 | 0.0002914 | 7097 | toll-like receptor 2 |
| GO | pathogen-associated molecular patte | 4 | 6 | 0.0002914 | 7098 | toll-like receptor 3 |
| GO | pathogen-associated molecular patte | 4 | 6 | 0.0002914 | 7099 | toll-like receptor 4 |
| GO | pathogen-associated molecular patte | 4 | 6 | 0.0002914 | 7100 | toll-like receptor 5 |
| GO | transcription repressor activity | 25 | 173 | 0.0003036 | 116113 | forkhead box P4 |
| GO | transcription repressor activity | 25 | 173 | 0.0003036 | 127343 | diencephalon/mesencephalon homeobox 1 |
| GO | transcription repressor activity | 25 | 173 | 0.0003036 | 150094 | salt-inducible kinase 1 |
| GO | transcription repressor activity | 25 | 173 | 0.0003036 | 1999 | E74-like factor 3 (ets domain transcription factor, epithelial-specific ) |
| GO | transcription repressor activity | 25 | 173 | 0.0003036 | 2117 | ets variant 3 |
| GO | transcription repressor activity | 25 | 173 | 0.0003036 | 2290 | forkhead box G1 |
| GO | transcription repressor activity | 25 | 173 | 0.0003036 | 22904 | strawberry notch homolog 2 (Drosophila) |

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| GO | transcription repressor activity | 25 | 173 | 0.0003036 | 2737 | GLI family zinc finger 3 |
| GO | transcription repressor activity | 25 | 173 | 0.0003036 | 3400 | inhibitor of DNA binding 4, dominant negative helix-loop-helix protein |
| GO | transcription repressor activity | 25 | 173 | 0.0003036 | 3428 | interferon, gamma-inducible protein 16 |
| GO | transcription repressor activity | 25 | 173 | 0.0003036 | 3725 | jun oncogene |
| GO | transcription repressor activity | 25 | 173 | 0.0003036 | 4204 | methyl CpG binding protein 2 (Rett syndrome) |
| GO | transcription repressor activity | 25 | 173 | 0.0003036 | 5083 | paired box 9 |
| GO | transcription repressor activity | 25 | 173 | 0.0003036 | 51085 | MLX interacting protein-like |
| GO | transcription repressor activity | 25 | 173 | 0.0003036 | 5371 | promyelocytic leukemia |
| GO | transcription repressor activity | 25 | 173 | 0.0003036 | 5396 | paired related homeobox 1 |
| GO | transcription repressor activity | 25 | 173 | 0.0003036 | 604 | B-cell CLL/lymphoma 6 |
| GO | transcription repressor activity | 25 | 173 | 0.0003036 | 652 | bone morphogenetic protein 4 |
| GO | transcription repressor activity | 25 | 173 | 0.0003036 | 7227 | trichorhinophalangeal syndrome I |
| GO | transcription repressor activity | 25 | 173 | 0.0003036 | 83595 | SRY (sex determining region Y)-box 7 |
| GO | transcription repressor activity | 25 | 173 | 0.0003036 | 84159 | AT rich interactive domain 5B (MRF1-like) |
| GO | transcription repressor activity | 25 | 173 | 0.0003036 | 84911 | zinc finger protein 382 |
| GO | transcription repressor activity | 25 | 173 | 0.0003036 | 8553 | basic helix-loop-helix family, member e40 |
| GO | transcription repressor activity | 25 | 173 | 0.0003036 | 9314 | Kruppel-like factor 4 (gut) |
| GO | transcription repressor activity | 25 | 173 | 0.0003036 | 9734 | histone deacetylase 9 |
| GO | piRNA binding | 3 | 3 | 0.0003186 | 143689 | piwi-like 4 (Drosophila) |
| GO | piRNA binding | 3 | 3 | 0.0003186 | 55124 | piwi-like 2 (Drosophila) |
| GO | piRNA binding | 3 | 3 | 0.0003186 | 9271 | piwi-like 1 (Drosophila) |
| GO | insulin-like growth factor binding pro | 3 | 3 | 0.0003186 | 3479 | insulin-like growth factor 1 (somatomedin C) |
| GO | insulin-like growth factor binding pro | 3 | 3 | 0.0003186 | 3486 | insulin-like growth factor binding protein 3 |
| GO | insulin-like growth factor binding pro | 3 | 3 | 0.0003186 | 3488 | insulin-like growth factor binding protein 5 |
| GO | mesodermal cell fate determination | 3 | 3 | 0.0003186 | 652 | bone morphogenetic protein 4 |
| GO | mesodermal cell fate determination | 3 | 3 | 0.0003186 | 89870 | tripartite motif-containing 15 |
| GO | mesodermal cell fate determination | 3 | 3 | 0.0003186 | 9314 | Kruppel-like factor 4 (gut) |
| GO | positive regulation of macrophage cy | 3 | 3 | 0.0003186 | 7097 | toll-like receptor 2 |
| GO | positive regulation of macrophage cy | 3 | 3 | 0.0003186 | 7099 | toll-like receptor 4 |
| GO | positive regulation of macrophage cy | 3 | 3 | 0.0003186 | 7474 | wingless-type MMTV integration site family, member 5A |
| GO | response to glucose stimulus | 12 | 57 | 0.0003935 | 10628 | thioredoxin interacting protein |
| GO | response to glucose stimulus | 12 | 57 | 0.0003935 | 130399 | activin A receptor, type IC |
| GO | response to glucose stimulus | 12 | 57 | 0.0003935 | 1508 | cathepsin B |
| GO | response to glucose stimulus | 12 | 57 | 0.0003935 | 1958 | early growth response 1 |
| GO | response to glucose stimulus | 12 | 57 | 0.0003935 | 2033 | E1A binding protein p300 |
| GO | response to glucose stimulus | 12 | 57 | 0.0003935 | 2752 | glutamate-ammonia ligase (glutamine synthetase) |

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| GO | response to glucose stimulus | 12 | 57 | 0.0003935 | 3643 | insulin receptor |
| GO | response to glucose stimulus | 12 | 57 | 0.0003935 | 4087 | SMAD family member 2 |
| GO | response to glucose stimulus | 12 | 57 | 0.0003935 | 5122 | proprotein convertase subtilisin/kexin type 1 |
| GO | response to glucose stimulus | 12 | 57 | 0.0003935 | 51703 | acyl-CoA synthetase long-chain family member 5 |
| GO | response to glucose stimulus | 12 | 57 | 0.0003935 | 8660 | insulin receptor substrate 2 |
| GO | response to glucose stimulus | 12 | 57 | 0.0003935 | 9971 | nuclear receptor subfamily 1, group H, member 4 |
| GO | ligand-dependent nuclear receptor a | 8 | 28 | 0.0004214 | 3164 | nuclear receptor subfamily 4, group A, member 1 |
| GO | ligand-dependent nuclear receptor a | 8 | 28 | 0.0004214 | 4929 | nuclear receptor subfamily 4, group A, member 2 |
| GO | ligand-dependent nuclear receptor a | 8 | 28 | 0.0004214 | 5465 | peroxisome proliferator-activated receptor alpha |
| GO | ligand-dependent nuclear receptor a | 8 | 28 | 0.0004214 | 6096 | RAR-related orphan receptor B |
| GO | ligand-dependent nuclear receptor a | 8 | 28 | 0.0004214 | 6097 | RAR-related orphan receptor C |
| GO | ligand-dependent nuclear receptor a | 8 | 28 | 0.0004214 | 7026 | nuclear receptor subfamily 2, group F, member 2 |
| GO | ligand-dependent nuclear receptor a | 8 | 28 | 0.0004214 | 9572 | nuclear receptor subfamily 1, group D, member 1 |
| GO | ligand-dependent nuclear receptor a | 8 | 28 | 0.0004214 | 9971 | nuclear receptor subfamily 1, group H, member 4 |
| GO | response to light stimulus | 6 | 16 | 0.0004444 | 1813 | dopamine receptor D2 |
| GO | response to light stimulus | 6 | 16 | 0.0004444 | 1843 | dual specificity phosphatase 1 |
| GO | response to light stimulus | 6 | 16 | 0.0004444 | 2353 | FBJ murine osteosarcoma viral oncogene homolog |
| GO | response to light stimulus | 6 | 16 | 0.0004444 | 3726 | jun B proto-oncogene |
| GO | response to light stimulus | 6 | 16 | 0.0004444 | 5187 | period homolog 1 (Drosophila) |
| GO | response to light stimulus | 6 | 16 | 0.0004444 | 8553 | basic helix-loop-helix family, member e40 |
| GO | positive regulation of gene-specific tr | 16 | 92 | 0.0004655 | 10014 | histone deacetylase 5 |
| GO | positive regulation of gene-specific tr | 16 | 92 | 0.0004655 | 22807 | IKAROS family zinc finger 2 (Helios) |
| GO | positive regulation of gene-specific tr | 16 | 92 | 0.0004655 | 2624 | GATA binding protein 2 |
| GO | positive regulation of gene-specific tr | 16 | 92 | 0.0004655 | 2737 | GLI family zinc finger 3 |
| GO | positive regulation of gene-specific tr | 16 | 92 | 0.0004655 | 3169 | forkhead box A1 |
| GO | positive regulation of gene-specific tr | 16 | 92 | 0.0004655 | 3175 | one cut homeobox 1 |
| GO | positive regulation of gene-specific tr | 16 | 92 | 0.0004655 | 3479 | insulin-like growth factor 1 (somatomedin C) |
| GO | positive regulation of gene-specific tr | 16 | 92 | 0.0004655 | 4784 | nuclear factor I/X (CCAAT-binding transcription factor) |
| GO | positive regulation of gene-specific tr | 16 | 92 | 0.0004655 | 4792 | nuclear factor of kappa light polypeptide gene enhancer in B-cells inhib |
| GO | positive regulation of gene-specific tr | 16 | 92 | 0.0004655 | 51085 | MLX interacting protein-like |
| GO | positive regulation of gene-specific tr | 16 | 92 | 0.0004655 | 5460 | POU class 5 homeobox 1 |
| GO | positive regulation of gene-specific tr | 16 | 92 | 0.0004655 | 6256 | retinoid X receptor, alpha |
| GO | positive regulation of gene-specific tr | 16 | 92 | 0.0004655 | 652 | bone morphogenetic protein 4 |
| GO | positive regulation of gene-specific tr | 16 | 92 | 0.0004655 | 7097 | toll-like receptor 2 |
| GO | positive regulation of gene-specific tr | 16 | 92 | 0.0004655 | 7098 | toll-like receptor 3 |
| GO | positive regulation of gene-specific tr | 16 | 92 | 0.0004655 | 7099 | toll-like receptor 4 |

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| GO | positive regulation of smooth muscle | 8 | 29 | 0.0005473 | 1906 | endothelin 1 |
| GO | positive regulation of smooth muscle | 8 | 29 | 0.0005473 | 27035 | NADPH oxidase 1 |
| GO | positive regulation of smooth muscle | 8 | 29 | 0.0005473 | 3479 | insulin-like growth factor 1 (somatomedin C) |
| GO | positive regulation of smooth muscle | 8 | 29 | 0.0005473 | 3569 | interleukin 6 (interferon, beta 2) |
| GO | positive regulation of smooth muscle | 8 | 29 | 0.0005473 | 3570 | interleukin 6 receptor |
| GO | positive regulation of smooth muscle | 8 | 29 | 0.0005473 | 3725 | jun oncogene |
| GO | positive regulation of smooth muscle | 8 | 29 | 0.0005473 | 4889 | neuropeptide Y receptor Y5 |
| GO | positive regulation of smooth muscle | 8 | 29 | 0.0005473 | 652 | bone morphogenetic protein 4 |
| GO | positive regulation of osteoclast diffe | 4 | 7 | 0.000643 | 1435 | colony stimulating factor 1 (macrophage) |
| GO | positive regulation of osteoclast diffe | 4 | 7 | 0.000643 | 7071 | Kruppel-like factor 10 |
| GO | positive regulation of osteoclast diffe | 4 | 7 | 0.000643 | 760 | carbonic anhydrase II |
| GO | positive regulation of osteoclast diffe | 4 | 7 | 0.000643 | 8600 | tumor necrosis factor (ligand) superfamily, member 11 |
| GO | negative regulation of cell death | 4 | 7 | 0.000643 | 1508 | cathepsin B |
| GO | negative regulation of cell death | 4 | 7 | 0.000643 | 4851 | Notch homolog 1, translocation-associated (Drosophila) |
| GO | negative regulation of cell death | 4 | 7 | 0.000643 | 5071 | Parkinson disease (autosomal recessive, juvenile) 2, parkin |
| GO | negative regulation of cell death | 4 | 7 | 0.000643 | 652 | bone morphogenetic protein 4 |
| GO | cellular response to lipopolysaccharic | 4 | 7 | 0.000643 | 4056 | leukotriene C4 synthase |
| GO | cellular response to lipopolysaccharic | 4 | 7 | 0.000643 | 7099 | toll-like receptor 4 |
| GO | cellular response to lipopolysaccharic | 4 | 7 | 0.000643 | 7474 | wingless-type MMTV integration site family, member 5A |
| GO | cellular response to lipopolysaccharic | 4 | 7 | 0.000643 | 929 | CD14 molecule |
| GO | microglial cell activation during immu | 4 | 7 | 0.000643 | 7097 | toll-like receptor 2 |
| GO | microglial cell activation during immu | 4 | 7 | 0.000643 | 7098 | toll-like receptor 3 |
| GO | microglial cell activation during immu | 4 | 7 | 0.000643 | 7099 | toll-like receptor 4 |
| GO | microglial cell activation during immu | 4 | 7 | 0.000643 | 7100 | toll-like receptor 5 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 10156 | RAS p21 protein activator 4 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 10253 | sprouty homolog 2 (Drosophila) |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 10752 | cell adhesion molecule with homology to L1CAM (close homolog of L1) |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 10913 | ectodysplasin A receptor |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 11213 | interleukin-1 receptor-associated kinase 3 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 11228 | Ras association (RalGDS/AF-6) domain family (N-terminal) member 8 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 1124 | chimerin (chimaerin) 2 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 1139 | cholinergic receptor, nicotinic, alpha 7 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 115330 | G protein-coupled receptor 146 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 116984 | ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 2 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 1193 | chloride intracellular channel 2 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 121130 | olfactory receptor, family 10, subfamily P, member 1 |

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|---|---|---|---|---|---|---|
| GO | signal transduction | 157 | 1796 | 0.0006537 | 1382 | cellular retinoic acid binding protein 2 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 143503 | olfactory receptor, family 51, subfamily E, member 1 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 154 | adrenergic, beta-2-, receptor, surface |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 1612 | death-associated protein kinase 1 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 1785 | dynamin 2 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 1813 | dopamine receptor D2 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 1815 | dopamine receptor D4 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 1839 | heparin-binding EGF-like growth factor |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 1901 | sphingosine-1-phosphate receptor 1 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 1902 | lysophosphatidic acid receptor 1 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 1969 | EPH receptor A2 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 2015 | egf-like module containing, mucin-like, hormone receptor-like 1 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 2066 | v-erb-a erythroblastic leukemia viral oncogene homolog 4 (avian) |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 2205 | Fc fragment of IgE, high affinity I, receptor for; alpha polypeptide |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 222545 | G protein-coupled receptor, family C, group 6, member A |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 22859 | latrophilin 1 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 23092 | Rho GTPase activating protein 26 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 23179 | ral guanine nucleotide dissociation stimulator-like 1 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 23266 | latrophilin 2 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 23284 | latrophilin 3 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 23303 | kinesin family member 13B |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 23654 | plexin B2 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 26191 | protein tyrosine phosphatase, non-receptor type 22 (lymphoid) |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 26281 | fibroblast growth factor 20 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 2642 | glucagon receptor |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 27035 | NADPH oxidase 1 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 27202 | G protein-coupled receptor 77 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 27242 | tumor necrosis factor receptor superfamily, member 21 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 2769 | guanine nucleotide binding protein (G protein), alpha 15 (Gq class) |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 283383 | G protein-coupled receptor 133 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 285704 | RGM domain family, member B |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 2861 | G protein-coupled receptor 37 (endothelin receptor type B-like) |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 2865 | free fatty acid receptor 3 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 2867 | free fatty acid receptor 2 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 29108 | PYD and CARD domain containing |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 2911 | glutamate receptor, metabotropic 1 |

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|---|---|---|---|---|---|---|
| GO | signal transduction | 157 | 1796 | 0.0006537 | 29126 | CD274 molecule |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 3164 | nuclear receptor subfamily 4, group A, member 1 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 3355 | 5-hydroxytryptamine (serotonin) receptor 1F |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 338557 | G protein-coupled receptor 120 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 3479 | insulin-like growth factor 1 (somatomedin C) |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 3484 | insulin-like growth factor binding protein 1 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 3488 | insulin-like growth factor binding protein 5 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 353345 | G protein-coupled receptor 141 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 3561 | interleukin 2 receptor, gamma (severe combined immunodeficiency) |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 3601 | interleukin 15 receptor, alpha |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 3709 | inositol 1,4,5-triphosphate receptor, type 2 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 375790 | agrin |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 3815 | v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 3845 | v-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 387496 | RAS-like, family 11, member A |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 387509 | G protein-coupled receptor 153 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 392392 | olfactory receptor, family 1, subfamily K, member 1 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 395 | Rho GTPase activating protein 6 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 3959 | lectin, galactoside-binding, soluble, 3 binding protein |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 4163 | mutated in colorectal cancers |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 4254 | KIT ligand |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 4306 | nuclear receptor subfamily 3, group C, member 2 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 4486 | macrophage stimulating 1 receptor (c-met-related tyrosine kinase) |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 4599 | myxovirus (influenza virus) resistance 1, interferon-inducible protein p |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 4680 | carcinoembryonic antigen-related cell adhesion molecule 6 (non-specif |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 4791 | nuclear factor of kappa light polypeptide gene enhancer in B-cells 2 (p |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 4886 | neuropeptide Y receptor Y1 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 4889 | neuropeptide Y receptor Y5 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 4929 | nuclear receptor subfamily 4, group A, member 2 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 5025 | purinergic receptor P2X, ligand-gated ion channel, 4 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 51285 | RAS-like, family 12 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 5129 | cyclin-dependent kinase 18 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 5136 | phosphodiesterase 1A, calmodulin-dependent |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 5152 | phosphodiesterase 9A |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 5158 | phosphodiesterase 6B, cGMP-specific, rod, beta |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 51655 | RAS, dexamethasone-induced 1 |

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|---|---|---|---|---|---|---|
| GO | signal transduction | 157 | 1796 | 0.0006537 | 5187 | period homolog 1 (Drosophila) |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 5295 | phosphoinositide-3-kinase, regulatory subunit 1 (alpha) |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 5362 | plexin A2 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 5367 | pro-melanin-concentrating hormone |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 54769 | DIRAS family, GTP-binding RAS-like 2 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 54933 | rhomboid, veinlet-like 2 (Drosophila) |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 55600 | intelectin 1 (galactofuranose binding) |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 55714 | odz, odd Oz/ten-m homolog 3 (Drosophila) |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 5577 | protein kinase, cAMP-dependent, regulatory, type II, beta |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 55824 | phosphoprotein associated with glycosphingolipid microdomains 1 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 5608 | mitogen-activated protein kinase kinase 6 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 56923 | neuromedin U receptor 2 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 57139 | ral guanine nucleotide dissociation stimulator-like 3 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 5724 | platelet-activating factor receptor |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 5732 | prostaglandin E receptor 2 (subtype EP2), 53kDa |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 5734 | prostaglandin E receptor 4 (subtype EP4) |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 5737 | prostaglandin F receptor (FP) |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 57512 | G protein-coupled receptor 158 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 57524 | CASK interacting protein 1 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 57636 | Rho GTPase activating protein 23 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 5900 | ral guanine nucleotide dissociation stimulator |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 60485 | salvador homolog 1 (Drosophila) |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 6238 | ribosome binding protein 1 homolog 180kDa (dog) |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 6372 | chemokine (C-X-C motif) ligand 6 (granulocyte chemotactic protein 2) |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 6374 | chemokine (C-X-C motif) ligand 5 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 6452 | SH3-domain binding protein 2 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 6494 | signal-induced proliferation-associated 1 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 6751 | somatostatin receptor 1 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 6778 | signal transducer and activator of transcription 6, interleukin-4 inducec |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 7026 | nuclear receptor subfamily 2, group F, member 2 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 7089 | transducin-like enhancer of split 2 (E(sp1) homolog, Drosophila) |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 7090 | transducin-like enhancer of split 3 (E(sp1) homolog, Drosophila) |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 7097 | toll-like receptor 2 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 7098 | toll-like receptor 3 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 7099 | toll-like receptor 4 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 7100 | toll-like receptor 5 |

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| GO | signal transduction | 157 | 1796 | 0.0006537 | 718 | complement component 3 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 726 | calpain 5 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 7852 | chemokine (C-X-C motif) receptor 4 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 799 | calcitonin receptor |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 80115 | BAI1-associated protein 2-like 2 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 81285 | olfactory receptor, family 51, subfamily E, member 2 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 81470 | olfactory receptor, family 2, subfamily G, member 2 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 819 | calcium modulating ligand |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 8313 | axin 2 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 834 | caspase 1, apoptosis-related cysteine peptidase (interleukin 1, beta, co |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 83593 | Ras association (RalGDS/AF-6) domain family member 5 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 83937 | Ras association (RalGDS/AF-6) domain family member 4 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 84059 | G protein-coupled receptor 98 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 85004 | RAS-like, estrogen-regulated, growth inhibitor |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 8527 | diacylglycerol kinase, delta 130kDa |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 8622 | phosphodiesterase 8B |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 8660 | insulin receptor substrate 2 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 8740 | tumor necrosis factor (ligand) superfamily, member 14 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 8744 | tumor necrosis factor (ligand) superfamily, member 9 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 8793 | tumor necrosis factor receptor superfamily, member 10d, decoy with t |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 8794 | tumor necrosis factor receptor superfamily, member 10c, decoy withou |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 8839 | WNT1 inducible signaling pathway protein 2 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 885 | cholecystokinin |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 8863 | period homolog 3 (Drosophila) |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 8864 | period homolog 2 (Drosophila) |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 8911 | calcium channel, voltage-dependent, T type, alpha 1I subunit |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 8973 | cholinergic receptor, nicotinic, alpha 6 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 9064 | mitogen-activated protein kinase kinase kinase 6 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 91 | activin A receptor, type IB |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 9182 | Ras association (RalGDS/AF-6) domain family (N-terminal) member 9 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 94 | activin A receptor type II-like 1 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 9518 | growth differentiation factor 15 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 952 | CD38 molecule |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 9567 | GTP binding protein 1 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 9788 | metastasis suppressor 1 |
| GO | signal transduction | 157 | 1796 | 0.0006537 | 9966 | tumor necrosis factor (ligand) superfamily, member 15 |

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| GO | signal transduction | 157 | 1796 | 0.0006537 | 9971 | nuclear receptor subfamily 1, group H, member 4 |
| GO | regulation of apoptosis | 18 | 114 | 0.0007103 | 10116 | fem-1 homolog b (C. elegans) |
| GO | regulation of apoptosis | 18 | 114 | 0.0007103 | 130399 | activin A receptor, type IC |
| GO | regulation of apoptosis | 18 | 114 | 0.0007103 | 1508 | cathepsin B |
| GO | regulation of apoptosis | 18 | 114 | 0.0007103 | 2737 | GLI family zinc finger 3 |
| GO | regulation of apoptosis | 18 | 114 | 0.0007103 | 29108 | PYD and CARD domain containing |
| GO | regulation of apoptosis | 18 | 114 | 0.0007103 | 3569 | interleukin 6 (interferon, beta 2) |
| GO | regulation of apoptosis | 18 | 114 | 0.0007103 | 3570 | interleukin 6 receptor |
| GO | regulation of apoptosis | 18 | 114 | 0.0007103 | 4170 | myeloid cell leukemia sequence 1 (BCL2-related) |
| GO | regulation of apoptosis | 18 | 114 | 0.0007103 | 5025 | purinergic receptor P2X, ligand-gated ion channel, 4 |
| GO | regulation of apoptosis | 18 | 114 | 0.0007103 | 57118 | calcium/calmodulin-dependent protein kinase ID |
| GO | regulation of apoptosis | 18 | 114 | 0.0007103 | 64127 | nucleotide-binding oligomerization domain containing 2 |
| GO | regulation of apoptosis | 18 | 114 | 0.0007103 | 64135 | interferon induced with helicase C domain 1 |
| GO | regulation of apoptosis | 18 | 114 | 0.0007103 | 64798 | DEP domain containing 6 |
| GO | regulation of apoptosis | 18 | 114 | 0.0007103 | 7001 | peroxiredoxin 2 |
| GO | regulation of apoptosis | 18 | 114 | 0.0007103 | 79092 | caspase recruitment domain family, member 14 |
| GO | regulation of apoptosis | 18 | 114 | 0.0007103 | 837 | caspase 4, apoptosis-related cysteine peptidase |
| GO | regulation of apoptosis | 18 | 114 | 0.0007103 | 84674 | caspase recruitment domain family, member 6 |
| GO | regulation of apoptosis | 18 | 114 | 0.0007103 | 8996 | nucleolar protein 3 (apoptosis repressor with CARD domain) |
| GO | ion transport | 54 | 505 | 0.0007212 | 10008 | potassium voltage-gated channel, Isk-related family, member 3 |
| GO | ion transport | 54 | 505 | 0.0007212 | 10312 | T-cell, immune regulator 1, ATPase, H+ transporting, lysosomal V0 subu |
| GO | ion transport | 54 | 505 | 0.0007212 | 10568 | solute carrier family 34 (sodium phosphate), member 2 |
| GO | ion transport | 54 | 505 | 0.0007212 | 1080 | cystic fibrosis transmembrane conductance regulator (ATP-binding cas |
| GO | ion transport | 54 | 505 | 0.0007212 | 1139 | cholinergic receptor, nicotinic, alpha 7 |
| GO | ion transport | 54 | 505 | 0.0007212 | 1193 | chloride intracellular channel 2 |
| GO | ion transport | 54 | 505 | 0.0007212 | 157855 | potassium channel, subfamily U, member 1 |
| GO | ion transport | 54 | 505 | 0.0007212 | 2564 | gamma-aminobutyric acid (GABA) A receptor, epsilon |
| GO | ion transport | 54 | 505 | 0.0007212 | 259232 | sodium leak channel, non-selective |
| GO | ion transport | 54 | 505 | 0.0007212 | 26507 | cyclin M1 |
| GO | ion transport | 54 | 505 | 0.0007212 | 266675 | bestrophin 4 |
| GO | ion transport | 54 | 505 | 0.0007212 | 27035 | NADPH oxidase 1 |
| GO | ion transport | 54 | 505 | 0.0007212 | 27345 | potassium large conductance calcium-activated channel, subfamily M, |
| GO | ion transport | 54 | 505 | 0.0007212 | 28231 | solute carrier organic anion transporter family, member 4A1 |
| GO | ion transport | 54 | 505 | 0.0007212 | 286133 | scavenger receptor class A, member 5 (putative) |
| GO | ion transport | 54 | 505 | 0.0007212 | 343450 | potassium channel, subfamily T, member 2 |
| GO | ion transport | 54 | 505 | 0.0007212 | 3709 | inositol 1,4,5-triphosphate receptor, type 2 |

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| GO | ion transport | 54 | 505 | 0.0007212 | 3759 | potassium inwardly-rectifying channel, subfamily J, member 2 |
| GO | ion transport | 54 | 505 | 0.0007212 | 3773 | potassium inwardly-rectifying channel, subfamily J, member 16 |
| GO | ion transport | 54 | 505 | 0.0007212 | 3775 | potassium channel, subfamily K, member 1 |
| GO | ion transport | 54 | 505 | 0.0007212 | 3782 | potassium intermediate/small conductance calcium-activated channel, |
| GO | ion transport | 54 | 505 | 0.0007212 | 3783 | potassium intermediate/small conductance calcium-activated channel, |
| GO | ion transport | 54 | 505 | 0.0007212 | 3786 | potassium voltage-gated channel, KQT-like subfamily, member 3 |
| GO | ion transport | 54 | 505 | 0.0007212 | 3790 | potassium voltage-gated channel, delayed-rectifier, subfamily S, memb |
| GO | ion transport | 54 | 505 | 0.0007212 | 498 | ATP synthase, H+ transporting, mitochondrial F1 complex, alpha subun |
| GO | ion transport | 54 | 505 | 0.0007212 | 5025 | purinergic receptor P2X, ligand-gated ion channel, 4 |
| GO | ion transport | 54 | 505 | 0.0007212 | 50617 | ATPase, H+ transporting, lysosomal V0 subunit a4 |
| GO | ion transport | 54 | 505 | 0.0007212 | 53373 | two pore segment channel 1 |
| GO | ion transport | 54 | 505 | 0.0007212 | 53405 | chloride intracellular channel 5 |
| GO | ion transport | 54 | 505 | 0.0007212 | 5349 | FXYD domain containing ion transport regulator 3 |
| GO | ion transport | 54 | 505 | 0.0007212 | 53827 | FXYD domain containing ion transport regulator 5 |
| GO | ion transport | 54 | 505 | 0.0007212 | 55799 | calcium channel, voltage-dependent, alpha 2/delta subunit 3 |
| GO | ion transport | 54 | 505 | 0.0007212 | 55867 | solute carrier family 22 (organic anion/urate transporter), member 11 |
| GO | ion transport | 54 | 505 | 0.0007212 | 57620 | stromal interaction molecule 2 |
| GO | ion transport | 54 | 505 | 0.0007212 | 63027 | solute carrier family 22, member 23 |
| GO | ion transport | 54 | 505 | 0.0007212 | 6330 | sodium channel, voltage-gated, type IV, beta |
| GO | ion transport | 54 | 505 | 0.0007212 | 63982 | anoctamin 3 |
| GO | ion transport | 54 | 505 | 0.0007212 | 64116 | solute carrier family 39 (zinc transporter), member 8 |
| GO | ion transport | 54 | 505 | 0.0007212 | 6535 | solute carrier family 6 (neurotransmitter transporter, creatine), membe |
| GO | ion transport | 54 | 505 | 0.0007212 | 6947 | transcobalamin I (vitamin B12 binding protein, R binder family) |
| GO | ion transport | 54 | 505 | 0.0007212 | 6948 | transcobalamin II; macrocytic anemia |
| GO | ion transport | 54 | 505 | 0.0007212 | 7223 | transient receptor potential cation channel, subfamily C, member 4 |
| GO | ion transport | 54 | 505 | 0.0007212 | 774 | calcium channel, voltage-dependent, N type, alpha 1B subunit |
| GO | ion transport | 54 | 505 | 0.0007212 | 783 | calcium channel, voltage-dependent, beta 2 subunit |
| GO | ion transport | 54 | 505 | 0.0007212 | 79689 | STEAP family member 4 |
| GO | ion transport | 54 | 505 | 0.0007212 | 84561 | solute carrier family 12 (potassium/chloride transporters), member 8 |
| GO | ion transport | 54 | 505 | 0.0007212 | 8514 | potassium voltage-gated channel, shaker-related subfamily, beta mem |
| GO | ion transport | 54 | 505 | 0.0007212 | 8645 | potassium channel, subfamily K, member 5 |
| GO | ion transport | 54 | 505 | 0.0007212 | 8911 | calcium channel, voltage-dependent, T type, alpha 1I subunit |
| GO | ion transport | 54 | 505 | 0.0007212 | 8912 | calcium channel, voltage-dependent, T type, alpha 1H subunit |
| GO | ion transport | 54 | 505 | 0.0007212 | 8973 | cholinergic receptor, nicotinic, alpha 6 |
| GO | ion transport | 54 | 505 | 0.0007212 | 8992 | ATPase, H+ transporting, lysosomal 9kDa, V0 subunit e1 |
| GO | ion transport | 54 | 505 | 0.0007212 | 93589 | calcium channel, voltage-dependent, alpha 2/delta subunit 4 |

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| GO | ion transport | 54 | 505 | 0.0007212 | 9962 | solute carrier family 23 (nucleobase transporters), member 2 |
| GO | positive regulation of tumor necrosis | 5 | 12 | 0.0007808 | 64127 | nucleotide-binding oligomerization domain containing 2 |
| GO | positive regulation of tumor necrosis | 5 | 12 | 0.0007808 | 7097 | toll-like receptor 2 |
| GO | positive regulation of tumor necrosis | 5 | 12 | 0.0007808 | 7098 | toll-like receptor 3 |
| GO | positive regulation of tumor necrosis | 5 | 12 | 0.0007808 | 7099 | toll-like receptor 4 |
| GO | positive regulation of tumor necrosis | 5 | 12 | 0.0007808 | 929 | CD14 molecule |
| GO | lipoprotein metabolic process | 6 | 18 | 0.000915 | 23780 | apolipoprotein L, 2 |
| GO | lipoprotein metabolic process | 6 | 18 | 0.000915 | 255738 | proprotein convertase subtilisin/kexin type 9 |
| GO | lipoprotein metabolic process | 6 | 18 | 0.000915 | 5465 | peroxisome proliferator-activated receptor alpha |
| GO | lipoprotein metabolic process | 6 | 18 | 0.000915 | 80830 | apolipoprotein L, 6 |
| GO | lipoprotein metabolic process | 6 | 18 | 0.000915 | 80833 | apolipoprotein L, 3 |
| GO | lipoprotein metabolic process | 6 | 18 | 0.000915 | 8542 | apolipoprotein L, 1 |
| GO | regulation of Rho protein signal trans | 13 | 71 | 0.0009389 | 152273 | FYVE, RhoGEF and PH domain containing 5 |
| GO | regulation of Rho protein signal trans | 13 | 71 | 0.0009389 | 221178 | spermatogenesis associated 13 |
| GO | regulation of Rho protein signal trans | 13 | 71 | 0.0009389 | 23263 | MCF.2 cell line derived transforming sequence-like |
| GO | regulation of Rho protein signal trans | 13 | 71 | 0.0009389 | 23365 | Rho guanine nucleotide exchange factor (GEF) 12 |
| GO | regulation of Rho protein signal trans | 13 | 71 | 0.0009389 | 26030 | pleckstrin homology domain containing, family G (with RhoGef domain |
| GO | regulation of Rho protein signal trans | 13 | 71 | 0.0009389 | 389337 | Rho guanine nucleotide exchange factor (GEF) 37 |
| GO | regulation of Rho protein signal trans | 13 | 71 | 0.0009389 | 440107 | pleckstrin homology domain containing, family G (with RhoGef domain |
| GO | regulation of Rho protein signal trans | 13 | 71 | 0.0009389 | 54848 | Rho guanine nucleotide exchange factor (GEF) 38 |
| GO | regulation of Rho protein signal trans | 13 | 71 | 0.0009389 | 55160 | Rho guanine nucleotide exchange factor (GEF) 10-like |
| GO | regulation of Rho protein signal trans | 13 | 71 | 0.0009389 | 55200 | pleckstrin homology domain containing, family G (with RhoGef domain |
| GO | regulation of Rho protein signal trans | 13 | 71 | 0.0009389 | 7984 | Rho guanine nucleotide exchange factor (GEF) 5 |
| GO | regulation of Rho protein signal trans | 13 | 71 | 0.0009389 | 84033 | obscurin, cytoskeletal calmodulin and titin-interacting RhoGEF |
| GO | regulation of Rho protein signal trans | 13 | 71 | 0.0009389 | 9459 | Rac/Cdc42 guanine nucleotide exchange factor (GEF) 6 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 1004 | cadherin 6, type 2, K-cadherin (fetal kidney) |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 10076 | protein tyrosine phosphatase, receptor type, U |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 1009 | cadherin 11, type 2, OB-cadherin (osteoblast) |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 1014 | cadherin 16, KSP-cadherin |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 10156 | RAS p21 protein activator 4 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 1016 | cadherin 18, type 2 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 10252 | sprouty homolog 1, antagonist of FGF signaling (Drosophila) |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 10253 | sprouty homolog 2 (Drosophila) |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 10268 | receptor (G protein-coupled) activity modifying protein 3 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 10288 | leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIN |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 10312 | T-cell, immune regulator 1, ATPase, H+ transporting, lysosomal V0 subu |

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| GO | plasma membrane | 228 | 2763 | 0.0010189 | 10397 | N-myc downstream regulated 1 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 10410 | interferon induced transmembrane protein 3 (1-8U) |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 10435 | CDC42 effector protein (Rho GTPase binding) 2 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 1048 | carcinoembryonic antigen-related cell adhesion molecule 5 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 10507 | sema domain, immunoglobulin domain (Ig), transmembrane domain (T |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 10752 | cell adhesion molecule with homology to L1CAM (close homolog of L1) |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 10811 | NADPH oxidase activator 1 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 1087 | carcinoembryonic antigen-related cell adhesion molecule 7 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 10942 | protease, serine, 21 (testisin) |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 11156 | protein tyrosine phosphatase type IVA, member 3 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 112 | adenylate cyclase 6 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 113235 | solute carrier family 46 (folate transporter), member 1 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 1139 | cholinergic receptor, nicotinic, alpha 7 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 114569 | mal, T-cell differentiation protein 2 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 115330 | G protein-coupled receptor 146 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 118429 | anthrax toxin receptor 2 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 121130 | olfactory receptor, family 10, subfamily P, member 1 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 123 | perilipin 2 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 130576 | LY6/PLAUR domain containing 6B |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 1363 | carboxypeptidase E |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 1364 | claudin 4 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 1368 | carboxypeptidase M |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 1380 | complement component (3d/Epstein Barr virus) receptor 2 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 1435 | colony stimulating factor 1 (macrophage) |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 143503 | olfactory receptor, family 51, subfamily E, member 1 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 148170 | CDC42 effector protein (Rho GTPase binding) 5 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 151473 | solute carrier family 16, member 14 (monocarboxylic acid transporter |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 154 | adrenergic, beta-2-, receptor, surface |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 157638 | family with sequence similarity 84, member B |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 1604 | CD55 molecule, decay accelerating factor for complement (Cromer blo |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 166929 | sphingomyelin synthase 2 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 1741 | discs, large homolog 3 (Drosophila) |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 1785 | dynamin 2 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 1803 | dipeptidyl-peptidase 4 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 1813 | dopamine receptor D2 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 1815 | dopamine receptor D4 |

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| GO | plasma membrane | 228 | 2763 | 0.0010189 | 1821 | dystrophin related protein 2 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 1839 | heparin-binding EGF-like growth factor |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 1901 | sphingosine-1-phosphate receptor 1 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 1902 | lysophosphatidic acid receptor 1 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 1948 | ephrin-B2 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 1969 | EPH receptor A2 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 2015 | egf-like module containing, mucin-like, hormone receptor-like 1 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 2026 | enolase 2 (gamma, neuronal) |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 2040 | stomatin |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 2066 | v-erb-a erythroblastic leukemia viral oncogene homolog 4 (avian) |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 2153 | coagulation factor V (proaccelerin, labile factor) |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 2205 | Fc fragment of IgE, high affinity I, receptor for; alpha polypeptide |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 222545 | G protein-coupled receptor, family C, group 6, member A |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 2239 | glypican 4 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 2262 | glypican 5 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 2263 | fibroblast growth factor receptor 2 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 22859 | latrophilin 1 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 22925 | phospholipase A2 receptor 1, 180kDa |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 23048 | formin binding protein 1 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 23180 | raftlin, lipid raft linker 1 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 23263 | MCF.2 cell line derived transforming sequence-like |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 23266 | latrophilin 2 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 23284 | latrophilin 3 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 23371 | tensin like C1 domain containing phosphatase (tensin 2) |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 23418 | crumbs homolog 1 (Drosophila) |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 23682 | RAB38, member RAS oncogene family |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 2564 | gamma-aminobutyric acid (GABA) A receptor, epsilon |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 25837 | RAB26, member RAS oncogene family |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 2633 | guanylate binding protein 1, interferon-inducible, 67kDa |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 2634 | guanylate binding protein 2, interferon-inducible |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 2642 | glucagon receptor |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 26507 | cyclin M1 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 266675 | bestrophin 4 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 2706 | gap junction protein, beta 2, 26kDa |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 2707 | gap junction protein, beta 3, 31kDa |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 27076 | LY6/PLAUR domain containing 3 |

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| GO | plasma membrane | 228 | 2763 | 0.0010189 | 27134 | tight junction protein 3 (zona occludens 3) |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 27202 | G protein-coupled receptor 77 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 2769 | guanine nucleotide binding protein (G protein), alpha 15 (Gq class) |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 283316 | CD163 molecule-like 1 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 283383 | G protein-coupled receptor 133 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 285704 | RGM domain family, member B |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 2861 | G protein-coupled receptor 37 (endothelin receptor type B-like) |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 286133 | scavenger receptor class A, member 5 (putative) |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 286183 | Na+/K+ transporting ATPase interacting 3 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 2865 | free fatty acid receptor 3 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 2867 | free fatty acid receptor 2 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 28982 | feline leukemia virus subgroup C cellular receptor 1 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 2911 | glutamate receptor, metabotropic 1 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 29126 | CD274 molecule |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 29760 | B-cell linker |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 3355 | 5-hydroxytryptamine (serotonin) receptor 1F |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 338557 | G protein-coupled receptor 120 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 342035 | gliomedin |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 343450 | potassium channel, subfamily T, member 2 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 353345 | G protein-coupled receptor 141 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 3570 | interleukin 6 receptor |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 358 | aquaporin 1 (Colton blood group) |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 3587 | interleukin 10 receptor, alpha |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 3643 | insulin receptor |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 3678 | integrin, alpha 5 (fibronectin receptor, alpha polypeptide) |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 368 | ATP-binding cassette, sub-family C (CFTR/MRP), member 6 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 3689 | integrin, beta 2 (complement component 3 receptor 3 and 4 subunit) |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 3691 | integrin, beta 4 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 3732 | CD82 molecule |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 3782 | potassium intermediate/small conductance calcium-activated channel, |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 3790 | potassium voltage-gated channel, delayed-rectifier, subfamily S, memb |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 3845 | v-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 387509 | G protein-coupled receptor 153 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 392392 | olfactory receptor, family 1, subfamily K, member 1 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 3949 | low density lipoprotein receptor |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 3958 | lectin, galactoside-binding, soluble, 3 |

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| GO | plasma membrane | 228 | 2763 | 0.0010189 | 399694 | SHC (Src homology 2 domain containing) family, member 4 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 402415 | XK, Kell blood group complex subunit-related, X-linked |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 412 | steroid sulfatase (microsomal), isozyme S |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 4163 | mutated in colorectal cancers |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 4179 | CD46 molecule, complement regulatory protein |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 4254 | KIT ligand |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 4359 | myelin protein zero |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 4486 | macrophage stimulating 1 receptor (c-met-related tyrosine kinase) |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 4582 | mucin 1, cell surface associated |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 4680 | carcinoembryonic antigen-related cell adhesion molecule 6 (non-specif |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 4684 | neural cell adhesion molecule 1 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 4851 | Notch homolog 1, translocation-associated (Drosophila) |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 4853 | Notch homolog 2 (Drosophila) |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 4886 | neuropeptide Y receptor Y1 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 4889 | neuropeptide Y receptor Y5 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 493 | ATPase, Ca++ transporting, plasma membrane 4 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 498 | ATP synthase, H+ transporting, mitochondrial F1 complex, alpha subun |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 5025 | purinergic receptor P2X, ligand-gated ion channel, 4 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 50617 | ATPase, H+ transporting, lysosomal V0 subunit a4 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 5099 | protocadherin 7 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 51299 | neuritin 1 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 5152 | phosphodiesterase 9A |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 51655 | RAS, dexamethasone-induced 1 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 51754 | transmembrane protein 8B |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 5218 | cyclin-dependent kinase 14 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 5244 | ATP-binding cassette, sub-family B (MDR/TAP), member 4 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 5284 | polymeric immunoglobulin receptor |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 5318 | plakophilin 2 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 5362 | plexin A2 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 54769 | DIRAS family, GTP-binding RAS-like 2 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 55068 | ecto-NOX disulfide-thiol exchanger 1 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 55080 | TAP binding protein-like |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 55600 | intelectin 1 (galactofuranose binding) |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 55824 | phosphoprotein associated with glycosphingolipid microdomains 1 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 55867 | solute carrier family 22 (organic anion/urate transporter), member 11 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 56288 | par-3 partitioning defective 3 homolog (C. elegans) |

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| GO | plasma membrane | 228 | 2763 | 0.0010189 | 56923 | neuromedin U receptor 2 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 57104 | patatin-like phospholipase domain containing 2 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 5724 | platelet-activating factor receptor |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 5732 | prostaglandin E receptor 2 (subtype EP2), 53kDa |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 5734 | prostaglandin E receptor 4 (subtype EP4) |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 5737 | prostaglandin F receptor (FP) |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 5742 | prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase a |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 57453 | Down syndrome cell adhesion molecule like 1 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 57488 | extended synaptotagmin-like protein 2 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 57512 | G protein-coupled receptor 158 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 57620 | stromal interaction molecule 2 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 5774 | protein tyrosine phosphatase, non-receptor type 3 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 57799 | RAB40C, member RAS oncogene family |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 57863 | cell adhesion molecule 3 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 5791 | protein tyrosine phosphatase, receptor type, E |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 5801 | protein tyrosine phosphatase, receptor type, R |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 629 | complement factor B |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 6402 | selectin L |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 64083 | golgi phosphoprotein 3 (coat-protein) |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 64127 | nucleotide-binding oligomerization domain containing 2 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 6446 | serum/glucocorticoid regulated kinase 1 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 6563 | solute carrier family 14 (urea transporter), member 1 (Kidd blood grou |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 6622 | synuclein, alpha (non A4 component of amyloid precursor) |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 6751 | somatostatin receptor 1 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 6812 | syntaxin binding protein 1 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 682 | basigin (Ok blood group) |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 684 | bone marrow stromal cell antigen 2 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 6857 | synaptotagmin I |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 7049 | transforming growth factor, beta receptor III |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 7097 | toll-like receptor 2 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 7099 | toll-like receptor 4 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 7100 | toll-like receptor 5 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 7106 | tetraspanin 4 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 7133 | tumor necrosis factor receptor superfamily, member 1B |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 7223 | transient receptor potential cation channel, subfamily C, member 4 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 729993 | shisa homolog 9 (Xenopus laevis) |

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| GO | plasma membrane | 228 | 2763 | 0.0010189 | 731 | complement component 8, alpha polypeptide |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 774 | calcium channel, voltage-dependent, N type, alpha 1B subunit |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 7852 | chemokine (C-X-C motif) receptor 4 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 79092 | caspase recruitment domain family, member 14 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 79689 | STEAP family member 4 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 799 | calcitonin receptor |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 81285 | olfactory receptor, family 51, subfamily E, member 2 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 81470 | olfactory receptor, family 2, subfamily G, member 2 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 83604 | transmembrane protein 47 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 84059 | G protein-coupled receptor 98 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 8434 | reversion-inducing-cysteine-rich protein with kazal motifs |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 8519 | interferon induced transmembrane protein 1 (9-27) |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 8527 | diacylglycerol kinase, delta 130kDa |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 8600 | tumor necrosis factor (ligand) superfamily, member 11 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 8631 | src kinase associated phosphoprotein 1 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 8660 | insulin receptor substrate 2 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 8671 | solute carrier family 4, sodium bicarbonate cotransporter, member 4 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 8740 | tumor necrosis factor (ligand) superfamily, member 14 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 8744 | tumor necrosis factor (ligand) superfamily, member 9 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 8794 | tumor necrosis factor receptor superfamily, member 10c, decoy withou |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 8839 | WNT1 inducible signaling pathway protein 2 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 8842 | prominin 1 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 8875 | vanin 2 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 8912 | calcium channel, voltage-dependent, T type, alpha 1H subunit |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 8973 | cholinergic receptor, nicotinic, alpha 6 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 9071 | claudin 10 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 91653 | Boc homolog (mouse) |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 9194 | solute carrier family 16, member 7 (monocarboxylic acid transporter 2) |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 929 | CD14 molecule |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 94025 | mucin 16, cell surface associated |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 9414 | tight junction protein 2 (zona occludens 2) |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 952 | CD38 molecule |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 961 | CD47 molecule |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 9619 | ATP-binding cassette, sub-family G (WHITE), member 1 |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 9892 | synaptosomal-associated protein, 91kDa homolog (mouse) |
| GO | plasma membrane | 228 | 2763 | 0.0010189 | 9962 | solute carrier family 23 (nucleobase transporters), member 2 |

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| GO | plasma membrane | 228 | 2763 | 0.0010189 | 9966 | tumor necrosis factor (ligand) superfamily, member 15 |
| GO | voltage-gated ion channel activity | 21 | 147 | 0.0010346 | 10008 | potassium voltage-gated channel, Isk-related family, member 3 |
| GO | voltage-gated ion channel activity | 21 | 147 | 0.0010346 | 1193 | chloride intracellular channel 2 |
| GO | voltage-gated ion channel activity | 21 | 147 | 0.0010346 | 157855 | potassium channel, subfamily U, member 1 |
| GO | voltage-gated ion channel activity | 21 | 147 | 0.0010346 | 259232 | sodium leak channel, non-selective |
| GO | voltage-gated ion channel activity | 21 | 147 | 0.0010346 | 27035 | NADPH oxidase 1 |
| GO | voltage-gated ion channel activity | 21 | 147 | 0.0010346 | 3759 | potassium inwardly-rectifying channel, subfamily J, member 2 |
| GO | voltage-gated ion channel activity | 21 | 147 | 0.0010346 | 3773 | potassium inwardly-rectifying channel, subfamily J, member 16 |
| GO | voltage-gated ion channel activity | 21 | 147 | 0.0010346 | 3775 | potassium channel, subfamily K, member 1 |
| GO | voltage-gated ion channel activity | 21 | 147 | 0.0010346 | 3786 | potassium voltage-gated channel, KQT-like subfamily, member 3 |
| GO | voltage-gated ion channel activity | 21 | 147 | 0.0010346 | 3790 | potassium voltage-gated channel, delayed-rectifier, subfamily S, memb |
| GO | voltage-gated ion channel activity | 21 | 147 | 0.0010346 | 53373 | two pore segment channel 1 |
| GO | voltage-gated ion channel activity | 21 | 147 | 0.0010346 | 53405 | chloride intracellular channel 5 |
| GO | voltage-gated ion channel activity | 21 | 147 | 0.0010346 | 55799 | calcium channel, voltage-dependent, alpha 2/delta subunit 3 |
| GO | voltage-gated ion channel activity | 21 | 147 | 0.0010346 | 6330 | sodium channel, voltage-gated, type IV, beta |
| GO | voltage-gated ion channel activity | 21 | 147 | 0.0010346 | 774 | calcium channel, voltage-dependent, N type, alpha 1B subunit |
| GO | voltage-gated ion channel activity | 21 | 147 | 0.0010346 | 783 | calcium channel, voltage-dependent, beta 2 subunit |
| GO | voltage-gated ion channel activity | 21 | 147 | 0.0010346 | 8514 | potassium voltage-gated channel, shaker-related subfamily, beta mem |
| GO | voltage-gated ion channel activity | 21 | 147 | 0.0010346 | 8645 | potassium channel, subfamily K, member 5 |
| GO | voltage-gated ion channel activity | 21 | 147 | 0.0010346 | 8911 | calcium channel, voltage-dependent, T type, alpha 1I subunit |
| GO | voltage-gated ion channel activity | 21 | 147 | 0.0010346 | 8912 | calcium channel, voltage-dependent, T type, alpha 1H subunit |
| GO | voltage-gated ion channel activity | 21 | 147 | 0.0010346 | 93589 | calcium channel, voltage-dependent, alpha 2/delta subunit 4 |
| GO | anchored to membrane | 17 | 109 | 0.0011358 | 1048 | carcinoembryonic antigen-related cell adhesion molecule 5 |
| GO | anchored to membrane | 17 | 109 | 0.0011358 | 1087 | carcinoembryonic antigen-related cell adhesion molecule 7 |
| GO | anchored to membrane | 17 | 109 | 0.0011358 | 10942 | protease, serine, 21 (testisin) |
| GO | anchored to membrane | 17 | 109 | 0.0011358 | 130576 | LY6/PLAUR domain containing 6B |
| GO | anchored to membrane | 17 | 109 | 0.0011358 | 1368 | carboxypeptidase M |
| GO | anchored to membrane | 17 | 109 | 0.0011358 | 1604 | CD55 molecule, decay accelerating factor for complement (Cromer blo |
| GO | anchored to membrane | 17 | 109 | 0.0011358 | 2239 | glypican 4 |
| GO | anchored to membrane | 17 | 109 | 0.0011358 | 2262 | glypican 5 |
| GO | anchored to membrane | 17 | 109 | 0.0011358 | 4680 | carcinoembryonic antigen-related cell adhesion molecule 6 (non-specif |
| GO | anchored to membrane | 17 | 109 | 0.0011358 | 4684 | neural cell adhesion molecule 1 |
| GO | anchored to membrane | 17 | 109 | 0.0011358 | 51299 | neuritin 1 |
| GO | anchored to membrane | 17 | 109 | 0.0011358 | 55600 | intelectin 1 (galactofuranose binding) |
| GO | anchored to membrane | 17 | 109 | 0.0011358 | 684 | bone marrow stromal cell antigen 2 |
| GO | anchored to membrane | 17 | 109 | 0.0011358 | 8434 | reversion-inducing-cysteine-rich protein with kazal motifs |

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| GO | anchored to membrane | 17 | 109 | 0.0011358 | 8794 | tumor necrosis factor receptor superfamily, member 10c, decoy withou |
| GO | anchored to membrane | 17 | 109 | 0.0011358 | 8875 | vanin 2 |
| GO | anchored to membrane | 17 | 109 | 0.0011358 | 929 | CD14 molecule |
| GO | positive regulation of chemokine pro | 5 | 13 | 0.0011977 | 3569 | interleukin 6 (interferon, beta 2) |
| GO | positive regulation of chemokine pro | 5 | 13 | 0.0011977 | 3570 | interleukin 6 receptor |
| GO | positive regulation of chemokine pro | 5 | 13 | 0.0011977 | 7097 | toll-like receptor 2 |
| GO | positive regulation of chemokine pro | 5 | 13 | 0.0011977 | 7098 | toll-like receptor 3 |
| GO | positive regulation of chemokine pro | 5 | 13 | 0.0011977 | 7099 | toll-like receptor 4 |
| GO | epithelial cell maturation involved in | 3 | 4 | 0.0012092 | 10116 | fem-1 homolog b (C. elegans) |
| GO | epithelial cell maturation involved in | 3 | 4 | 0.0012092 | 10481 | homeobox B13 |
| GO | epithelial cell maturation involved in | 3 | 4 | 0.0012092 | 3169 | forkhead box A1 |
| GO | activin receptor activity, type I | 3 | 4 | 0.0012092 | 130399 | activin A receptor, type IC |
| GO | activin receptor activity, type I | 3 | 4 | 0.0012092 | 91 | activin A receptor, type IB |
| GO | activin receptor activity, type I | 3 | 4 | 0.0012092 | 94 | activin A receptor type II-like 1 |
| GO | secretory columnal luminar epithelial | 3 | 4 | 0.0012092 | 3169 | forkhead box A1 |
| GO | secretory columnal luminar epithelial | 3 | 4 | 0.0012092 | 4851 | Notch homolog 1, translocation-associated (Drosophila) |
| GO | secretory columnal luminar epithelial | 3 | 4 | 0.0012092 | 6256 | retinoid X receptor, alpha |
| GO | positive regulation of toll-like recept | 3 | 4 | 0.0012092 | 7097 | toll-like receptor 2 |
| GO | positive regulation of toll-like recept | 3 | 4 | 0.0012092 | 7098 | toll-like receptor 3 |
| GO | positive regulation of toll-like recept | 3 | 4 | 0.0012092 | 7100 | toll-like receptor 5 |
| GO | apical plasma membrane | 22 | 159 | 0.0012219 | 10312 | T-cell, immune regulator 1, ATPase, H+ transporting, lysosomal V0 subu |
| GO | apical plasma membrane | 22 | 159 | 0.0012219 | 10568 | solute carrier family 34 (sodium phosphate), member 2 |
| GO | apical plasma membrane | 22 | 159 | 0.0012219 | 1080 | cystic fibrosis transmembrane conductance regulator (ATP-binding cas |
| GO | apical plasma membrane | 22 | 159 | 0.0012219 | 113235 | solute carrier family 46 (folate transporter), member 1 |
| GO | apical plasma membrane | 22 | 159 | 0.0012219 | 114569 | mal, T-cell differentiation protein 2 |
| GO | apical plasma membrane | 22 | 159 | 0.0012219 | 1508 | cathepsin B |
| GO | apical plasma membrane | 22 | 159 | 0.0012219 | 154 | adrenergic, beta-2-, receptor, surface |
| GO | apical plasma membrane | 22 | 159 | 0.0012219 | 1803 | dipeptidyl-peptidase 4 |
| GO | apical plasma membrane | 22 | 159 | 0.0012219 | 23418 | crumbs homolog 1 (Drosophila) |
| GO | apical plasma membrane | 22 | 159 | 0.0012219 | 3570 | interleukin 6 receptor |
| GO | apical plasma membrane | 22 | 159 | 0.0012219 | 358 | aquaporin 1 (Colton blood group) |
| GO | apical plasma membrane | 22 | 159 | 0.0012219 | 368 | ATP-binding cassette, sub-family C (CFTR/MRP), member 6 |
| GO | apical plasma membrane | 22 | 159 | 0.0012219 | 3775 | potassium channel, subfamily K, member 1 |
| GO | apical plasma membrane | 22 | 159 | 0.0012219 | 4008 | LIM domain 7 |
| GO | apical plasma membrane | 22 | 159 | 0.0012219 | 4582 | mucin 1, cell surface associated |
| GO | apical plasma membrane | 22 | 159 | 0.0012219 | 50617 | ATPase, H+ transporting, lysosomal V0 subunit a4 |

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| GO | apical plasma membrane | 22 | 159 | 0.0012219 | 5244 | ATP-binding cassette, sub-family B (MDR/TAP), member 4 |
| GO | apical plasma membrane | 22 | 159 | 0.0012219 | 55867 | solute carrier family 22 (organic anion/urate transporter), member 11 |
| GO | apical plasma membrane | 22 | 159 | 0.0012219 | 57619 | shroom family member 3 |
| GO | apical plasma membrane | 22 | 159 | 0.0012219 | 5873 | RAB27A, member RAS oncogene family |
| GO | apical plasma membrane | 22 | 159 | 0.0012219 | 8842 | prominin 1 |
| GO | apical plasma membrane | 22 | 159 | 0.0012219 | 9962 | solute carrier family 23 (nucleobase transporters), member 2 |
| GO | immune response | 35 | 303 | 0.0016375 | 10216 | proteoglycan 4 |
| GO | immune response | 35 | 303 | 0.0016375 | 10288 | leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITI |
| GO | immune response | 35 | 303 | 0.0016375 | 10346 | tripartite motif-containing 22 |
| GO | immune response | 35 | 303 | 0.0016375 | 10410 | interferon induced transmembrane protein 3 (1-8U) |
| GO | immune response | 35 | 303 | 0.0016375 | 10507 | sema domain, immunoglobulin domain (Ig), transmembrane domain ( |
| GO | immune response | 35 | 303 | 0.0016375 | 10964 | interferon-induced protein 44-like |
| GO | immune response | 35 | 303 | 0.0016375 | 1380 | complement component (3d/Epstein Barr virus) receptor 2 |
| GO | immune response | 35 | 303 | 0.0016375 | 157869 | chromosome 8 open reading frame 84 |
| GO | immune response | 35 | 303 | 0.0016375 | 2634 | guanylate binding protein 2, interferon-inducible |
| GO | immune response | 35 | 303 | 0.0016375 | 29126 | CD274 molecule |
| GO | immune response | 35 | 303 | 0.0016375 | 2921 | chemokine (C-X-C motif) ligand 3 |
| GO | immune response | 35 | 303 | 0.0016375 | 3134 | major histocompatibility complex, class I, F |
| GO | immune response | 35 | 303 | 0.0016375 | 3512 | immunoglobulin J polypeptide, linker protein for immunoglobulin alph |
| GO | immune response | 35 | 303 | 0.0016375 | 3561 | interleukin 2 receptor, gamma (severe combined immunodeficiency) |
| GO | immune response | 35 | 303 | 0.0016375 | 4065 | lymphocyte antigen 75 |
| GO | immune response | 35 | 303 | 0.0016375 | 4783 | nuclear factor, interleukin 3 regulated |
| GO | immune response | 35 | 303 | 0.0016375 | 4851 | Notch homolog 1, translocation-associated (Drosophila) |
| GO | immune response | 35 | 303 | 0.0016375 | 4939 | 2'-5'-oligoadenylate synthetase 2, 69/71kDa |
| GO | immune response | 35 | 303 | 0.0016375 | 56477 | chemokine (C-C motif) ligand 28 |
| GO | immune response | 35 | 303 | 0.0016375 | 5724 | platelet-activating factor receptor |
| GO | immune response | 35 | 303 | 0.0016375 | 5734 | prostaglandin E receptor 4 (subtype EP4) |
| GO | immune response | 35 | 303 | 0.0016375 | 6372 | chemokine (C-X-C motif) ligand 6 (granulocyte chemotactic protein 2) |
| GO | immune response | 35 | 303 | 0.0016375 | 6374 | chemokine (C-X-C motif) ligand 5 |
| GO | immune response | 35 | 303 | 0.0016375 | 7049 | transforming growth factor, beta receptor III |
| GO | immune response | 35 | 303 | 0.0016375 | 7097 | toll-like receptor 2 |
| GO | immune response | 35 | 303 | 0.0016375 | 7099 | toll-like receptor 4 |
| GO | immune response | 35 | 303 | 0.0016375 | 7133 | tumor necrosis factor receptor superfamily, member 1B |
| GO | immune response | 35 | 303 | 0.0016375 | 715 | complement component 1, r subcomponent |
| GO | immune response | 35 | 303 | 0.0016375 | 718 | complement component 3 |
| GO | immune response | 35 | 303 | 0.0016375 | 731 | complement component 8, alpha polypeptide |

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| GO | immune response | 35 | 303 | 0.0016375 | 8600 | tumor necrosis factor (ligand) superfamily, member 11 |
| GO | immune response | 35 | 303 | 0.0016375 | 8740 | tumor necrosis factor (ligand) superfamily, member 14 |
| GO | immune response | 35 | 303 | 0.0016375 | 8744 | tumor necrosis factor (ligand) superfamily, member 9 |
| GO | immune response | 35 | 303 | 0.0016375 | 9567 | GTP binding protein 1 |
| GO | immune response | 35 | 303 | 0.0016375 | 9966 | tumor necrosis factor (ligand) superfamily, member 15 |
| GO | response to retinoic acid | 8 | 34 | 0.0017063 | 1843 | dual specificity phosphatase 1 |
| GO | response to retinoic acid | 8 | 34 | 0.0017063 | 2033 | E1A binding protein p300 |
| GO | response to retinoic acid | 8 | 34 | 0.0017063 | 3294 | hydroxysteroid (17-beta) dehydrogenase 2 |
| GO | response to retinoic acid | 8 | 34 | 0.0017063 | 429 | achaete-scute complex homolog 1 (Drosophila) |
| GO | response to retinoic acid | 8 | 34 | 0.0017063 | 5950 | retinol binding protein 4, plasma |
| GO | response to retinoic acid | 8 | 34 | 0.0017063 | 6256 | retinoid X receptor, alpha |
| GO | response to retinoic acid | 8 | 34 | 0.0017063 | 652 | bone morphogenetic protein 4 |
| GO | response to retinoic acid | 8 | 34 | 0.0017063 | 952 | CD38 molecule |
| GO | response to cytokine stimulus | 10 | 50 | 0.0017843 | 1080 | cystic fibrosis transmembrane conductance regulator (ATP-binding cas |
| GO | response to cytokine stimulus | 10 | 50 | 0.0017843 | 10906 | TRAF-type zinc finger domain containing 1 |
| GO | response to cytokine stimulus | 10 | 50 | 0.0017843 | 2353 | FBJ murine osteosarcoma viral oncogene homolog |
| GO | response to cytokine stimulus | 10 | 50 | 0.0017843 | 3570 | interleukin 6 receptor |
| GO | response to cytokine stimulus | 10 | 50 | 0.0017843 | 3725 | jun oncogene |
| GO | response to cytokine stimulus | 10 | 50 | 0.0017843 | 3726 | jun B proto-oncogene |
| GO | response to cytokine stimulus | 10 | 50 | 0.0017843 | 4170 | myeloid cell leukemia sequence 1 (BCL2-related) |
| GO | response to cytokine stimulus | 10 | 50 | 0.0017843 | 5371 | promyelocytic leukemia |
| GO | response to cytokine stimulus | 10 | 50 | 0.0017843 | 6778 | signal transducer and activator of transcription 6, interleukin-4 induce |
| GO | response to cytokine stimulus | 10 | 50 | 0.0017843 | 9021 | suppressor of cytokine signaling 3 |
| GO | positive regulation of transcription fr | 34 | 295 | 0.0019637 | 10891 | peroxisome proliferator-activated receptor gamma, coactivator 1 alph |
| GO | positive regulation of transcription fr | 34 | 295 | 0.0019637 | 154 | adrenergic, beta-2-, receptor, surface |
| GO | positive regulation of transcription fr | 34 | 295 | 0.0019637 | 1958 | early growth response 1 |
| GO | positive regulation of transcription fr | 34 | 295 | 0.0019637 | 1959 | early growth response 2 |
| GO | positive regulation of transcription fr | 34 | 295 | 0.0019637 | 2033 | E1A binding protein p300 |
| GO | positive regulation of transcription fr | 34 | 295 | 0.0019637 | 2296 | forkhead box C1 |
| GO | positive regulation of transcription fr | 34 | 295 | 0.0019637 | 2303 | forkhead box C2 (MFH-1, mesenchyme forkhead 1) |
| GO | positive regulation of transcription fr | 34 | 295 | 0.0019637 | 23373 | CREB regulated transcription coactivator 1 |
| GO | positive regulation of transcription fr | 34 | 295 | 0.0019637 | 2353 | FBJ murine osteosarcoma viral oncogene homolog |
| GO | positive regulation of transcription fr | 34 | 295 | 0.0019637 | 2737 | GLI family zinc finger 3 |
| GO | positive regulation of transcription fr | 34 | 295 | 0.0019637 | 28996 | homeodomain interacting protein kinase 2 |
| GO | positive regulation of transcription fr | 34 | 295 | 0.0019637 | 3164 | nuclear receptor subfamily 4, group A, member 1 |
| GO | positive regulation of transcription fr | 34 | 295 | 0.0019637 | 3569 | interleukin 6 (interferon, beta 2) |

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| GO | positive regulation of transcription fr | 34 | 295 | 0.0019637 | 3659 | interferon regulatory factor 1 |
| GO | positive regulation of transcription fr | 34 | 295 | 0.0019637 | 3725 | jun oncogene |
| GO | positive regulation of transcription fr | 34 | 295 | 0.0019637 | 375790 | agrin |
| GO | positive regulation of transcription fr | 34 | 295 | 0.0019637 | 4087 | SMAD family member 2 |
| GO | positive regulation of transcription fr | 34 | 295 | 0.0019637 | 4212 | Meis homeobox 2 |
| GO | positive regulation of transcription fr | 34 | 295 | 0.0019637 | 4286 | microphthalmia-associated transcription factor |
| GO | positive regulation of transcription fr | 34 | 295 | 0.0019637 | 429 | achaete-scute complex homolog 1 (Drosophila) |
| GO | positive regulation of transcription fr | 34 | 295 | 0.0019637 | 4851 | Notch homolog 1, translocation-associated (Drosophila) |
| GO | positive regulation of transcription fr | 34 | 295 | 0.0019637 | 4929 | nuclear receptor subfamily 4, group A, member 2 |
| GO | positive regulation of transcription fr | 34 | 295 | 0.0019637 | 5083 | paired box 9 |
| GO | positive regulation of transcription fr | 34 | 295 | 0.0019637 | 51621 | Kruppel-like factor 13 |
| GO | positive regulation of transcription fr | 34 | 295 | 0.0019637 | 5325 | pleiomorphic adenoma gene-like 1 |
| GO | positive regulation of transcription fr | 34 | 295 | 0.0019637 | 5465 | peroxisome proliferator-activated receptor alpha |
| GO | positive regulation of transcription fr | 34 | 295 | 0.0019637 | 6256 | retinoid X receptor, alpha |
| GO | positive regulation of transcription fr | 34 | 295 | 0.0019637 | 64651 | cysteine-serine-rich nuclear protein 1 |
| GO | positive regulation of transcription fr | 34 | 295 | 0.0019637 | 6778 | signal transducer and activator of transcription 6, interleukin-4 inducec |
| GO | positive regulation of transcription fr | 34 | 295 | 0.0019637 | 8013 | nuclear receptor subfamily 4, group A, member 3 |
| GO | positive regulation of transcription fr | 34 | 295 | 0.0019637 | 8631 | src kinase associated phosphoprotein 1 |
| GO | positive regulation of transcription fr | 34 | 295 | 0.0019637 | 91 | activin A receptor, type IB |
| GO | positive regulation of transcription fr | 34 | 295 | 0.0019637 | 9935 | v-maf musculoaponeurotic fibrosarcoma oncogene homolog B (avian) |
| GO | positive regulation of transcription fr | 34 | 295 | 0.0019637 | 9971 | nuclear receptor subfamily 1, group H, member 4 |
| GO | retinol metabolic process | 4 | 9 | 0.0020714 | 10170 | dehydrogenase/reductase (SDR family) member 9 |
| GO | retinol metabolic process | 4 | 9 | 0.0020714 | 157506 | retinol dehydrogenase 10 (all-trans) |
| GO | retinol metabolic process | 4 | 9 | 0.0020714 | 195814 | short chain dehydrogenase/reductase family 16C, member 5 |
| GO | retinol metabolic process | 4 | 9 | 0.0020714 | 5950 | retinol binding protein 4, plasma |
| GO | response to fatty acid | 4 | 9 | 0.0020714 | 2033 | E1A binding protein p300 |
| GO | response to fatty acid | 4 | 9 | 0.0020714 | 5122 | proprotein convertase subtilisin/kexin type 1 |
| GO | response to fatty acid | 4 | 9 | 0.0020714 | 7097 | toll-like receptor 2 |
| GO | response to fatty acid | 4 | 9 | 0.0020714 | 7099 | toll-like receptor 4 |
| GO | ligand-regulated transcription factor | 4 | 9 | 0.0020714 | 4853 | Notch homolog 2 (Drosophila) |
| GO | ligand-regulated transcription factor | 4 | 9 | 0.0020714 | 5465 | peroxisome proliferator-activated receptor alpha |
| GO | ligand-regulated transcription factor | 4 | 9 | 0.0020714 | 6256 | retinoid X receptor, alpha |
| GO | ligand-regulated transcription factor | 4 | 9 | 0.0020714 | 7026 | nuclear receptor subfamily 2, group F, member 2 |
| GO | positive regulation of interleukin-12 p | 4 | 9 | 0.0020714 | 64127 | nucleotide-binding oligomerization domain containing 2 |
| GO | positive regulation of interleukin-12 p | 4 | 9 | 0.0020714 | 7097 | toll-like receptor 2 |
| GO | positive regulation of interleukin-12 p | 4 | 9 | 0.0020714 | 7098 | toll-like receptor 3 |

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|---|---|---|---|---|---|---|
| GO | positive regulation of interleukin-12 p | 4 | 9 | 0.0020714 | 7099 | toll-like receptor 4 |
| GO | circadian rhythm | 8 | 35 | 0.0020813 | 1960 | early growth response 3 |
| GO | circadian rhythm | 8 | 35 | 0.0020813 | 3725 | jun oncogene |
| GO | circadian rhythm | 8 | 35 | 0.0020813 | 50865 | heme binding protein 1 |
| GO | circadian rhythm | 8 | 35 | 0.0020813 | 5187 | period homolog 1 (Drosophila) |
| GO | circadian rhythm | 8 | 35 | 0.0020813 | 6096 | RAR-related orphan receptor B |
| GO | circadian rhythm | 8 | 35 | 0.0020813 | 8553 | basic helix-loop-helix family, member e40 |
| GO | circadian rhythm | 8 | 35 | 0.0020813 | 8864 | period homolog 2 (Drosophila) |
| GO | circadian rhythm | 8 | 35 | 0.0020813 | 9572 | nuclear receptor subfamily 1, group D, member 1 |
| GO | positive regulation of interleukin-6 pr | 6 | 21 | 0.0022406 | 3569 | interleukin 6 (interferon, beta 2) |
| GO | positive regulation of interleukin-6 pr | 6 | 21 | 0.0022406 | 3570 | interleukin 6 receptor |
| GO | positive regulation of interleukin-6 pr | 6 | 21 | 0.0022406 | 64127 | nucleotide-binding oligomerization domain containing 2 |
| GO | positive regulation of interleukin-6 pr | 6 | 21 | 0.0022406 | 7097 | toll-like receptor 2 |
| GO | positive regulation of interleukin-6 pr | 6 | 21 | 0.0022406 | 7098 | toll-like receptor 3 |
| GO | positive regulation of interleukin-6 pr | 6 | 21 | 0.0022406 | 7099 | toll-like receptor 4 |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 10085 | EGF-like repeats and discoidin I-like domains 3 |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 10252 | sprouty homolog 1, antagonist of FGF signaling (Drosophila) |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 10253 | sprouty homolog 2 (Drosophila) |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 10439 | olfactomedin 1 |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 10481 | homeobox B13 |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 10507 | sema domain, immunoglobulin domain (Ig), transmembrane domain (T |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 10752 | cell adhesion molecule with homology to L1CAM (close homolog of L1) |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 10912 | growth arrest and DNA-damage-inducible, gamma |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 10913 | ectodysplasin A receptor |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 127343 | diencephalon/mesencephalon homeobox 1 |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 143689 | piwi-like 4 (Drosophila) |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 1462 | versican |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 150094 | salt-inducible kinase 1 |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 158800 | Rhox homeobox family, member 1 |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 1755 | deleted in malignant brain tumors 1 |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 1948 | ephrin-B2 |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 1969 | EPH receptor A2 |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 1999 | E74-like factor 3 (ets domain transcription factor, epithelial-specific ) |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 2122 | MDS1 and EVI1 complex locus |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 222171 | proline rich 15 |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 222546 | regulatory factor X, 6 |

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|---|---|---|---|---|---|---|
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 223117 | sema domain, immunoglobulin domain (Ig), short basic domain, secret |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 2290 | forkhead box G1 |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 2303 | forkhead box C2 (MFH-1, mesenchyme forkhead 1) |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 2354 | FBJ murine osteosarcoma viral oncogene homolog B |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 23654 | plexin B2 |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 23780 | apolipoprotein L, 2 |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 255743 | nephronectin |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 26468 | LIM homeobox 6 |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 27123 | dickkopf homolog 2 (Xenopus laevis) |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 28982 | feline leukemia virus subgroup C cellular receptor 1 |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 3131 | hepatic leukemia factor |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 3142 | H2.0-like homeobox |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 3169 | forkhead box A1 |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 342035 | gliomedin |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 4005 | LIM domain only 2 (rhombotin-like 1) |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 4170 | myeloid cell leukemia sequence 1 (BCL2-related) |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 4209 | myocyte enhancer factor 2D |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 4223 | mesenchyme homeobox 2 |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 4286 | microphthalmia-associated transcription factor |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 4486 | macrophage stimulating 1 receptor (c-met-related tyrosine kinase) |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 4616 | growth arrest and DNA-damage-inducible, beta |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 4778 | nuclear factor (erythroid-derived 2), 45kDa |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 4853 | Notch homolog 2 (Drosophila) |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 4915 | neurotrophic tyrosine kinase, receptor, type 2 |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 5063 | p21 protein (Cdc42/Rac)-activated kinase 3 |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 5083 | paired box 9 |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 51274 | Kruppel-like factor 3 (basic) |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 51314 | thioredoxin domain containing 3 (spermatozoa) |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 5307 | paired-like homeodomain 1 |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 5308 | paired-like homeodomain 2 |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 5362 | plexin A2 |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 5367 | pro-melanin-concentrating hormone |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 5396 | paired related homeobox 1 |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 54361 | wingless-type MMTV integration site family, member 4 |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 54852 | progestin and adipoQ receptor family member V |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 55124 | piwi-like 2 (Drosophila) |

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|---|---|---|---|---|---|---|
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 56913 | core 1 synthase, glycoprotein-N-acetylgalactosamine 3-beta-galactosyl |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 56944 | olfactomedin-like 3 |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 6096 | RAR-related orphan receptor B |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 6239 | ras responsive element binding protein 1 |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 64359 | nucleoredoxin |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 684 | bone marrow stromal cell antigen 2 |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 7092 | tolloid-like 1 |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 7477 | wingless-type MMTV integration site family, member 7B |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 7546 | Zic family member 2 (odd-paired homolog, Drosophila) |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 7869 | sema domain, immunoglobulin domain (Ig), short basic domain, secret |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 79820 | cation channel, sperm-associated, beta |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 79971 | wntless homolog (Drosophila) |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 81693 | amnionless homolog (mouse) |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 8313 | axin 2 |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 8382 | non-metastatic cells 5, protein expressed in (nucleoside-diphosphate k |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 83890 | spermatogenesis associated 9 |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 84033 | obscurin, cytoskeletal calmodulin and titin-interacting RhoGEF |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 8527 | diacylglycerol kinase, delta 130kDa |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 85416 | Zic family member 5 (odd-paired homolog, Drosophila) |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 8600 | tumor necrosis factor (ligand) superfamily, member 11 |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 91461 | protein kinase domain containing, cytoplasmic homolog (mouse) |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 9271 | piwi-like 1 (Drosophila) |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 9435 | carbohydrate (N-acetylglucosamine-6-O) sulfotransferase 2 |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 9496 | T-box 4 |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 9633 | metallothionein-like 5, testis-specific (tesmin) |
| GO | multicellular organismal developmen | 83 | 890 | 0.0023224 | 9904 | RNA binding motif protein 19 |
| GO | filopodium assembly | 5 | 15 | 0.0024909 | 152273 | FYVE, RhoGEF and PH domain containing 5 |
| GO | filopodium assembly | 5 | 15 | 0.0024909 | 23092 | Rho GTPase activating protein 26 |
| GO | filopodium assembly | 5 | 15 | 0.0024909 | 3691 | integrin, beta 4 |
| GO | filopodium assembly | 5 | 15 | 0.0024909 | 80115 | BAI1-associated protein 2-like 2 |
| GO | filopodium assembly | 5 | 15 | 0.0024909 | 9788 | metastasis suppressor 1 |
| GO | cell adhesion | 53 | 522 | 0.0025144 | 1004 | cadherin 6, type 2, K-cadherin (fetal kidney) |
| GO | cell adhesion | 53 | 522 | 0.0025144 | 10076 | protein tyrosine phosphatase, receptor type, U |
| GO | cell adhesion | 53 | 522 | 0.0025144 | 10085 | EGF-like repeats and discoidin I-like domains 3 |
| GO | cell adhesion | 53 | 522 | 0.0025144 | 1009 | cadherin 11, type 2, OB-cadherin (osteoblast) |
| GO | cell adhesion | 53 | 522 | 0.0025144 | 1014 | cadherin 16, KSP-cadherin |

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| GO | cell adhesion | 53 | 522 | 0.0025144 | 1016 | cadherin 18, type 2 |
| GO | cell adhesion | 53 | 522 | 0.0025144 | 10205 | myelin protein zero-like 2 |
| GO | cell adhesion | 53 | 522 | 0.0025144 | 10417 | spondin 2, extracellular matrix protein |
| GO | cell adhesion | 53 | 522 | 0.0025144 | 10418 | spondin 1, extracellular matrix protein |
| GO | cell adhesion | 53 | 522 | 0.0025144 | 10507 | sema domain, immunoglobulin domain (Ig), transmembrane domain (T |
| GO | cell adhesion | 53 | 522 | 0.0025144 | 10516 | fibulin 5 |
| GO | cell adhesion | 53 | 522 | 0.0025144 | 10752 | cell adhesion molecule with homology to L1CAM (close homolog of L1) |
| GO | cell adhesion | 53 | 522 | 0.0025144 | 11187 | plakophilin 3 |
| GO | cell adhesion | 53 | 522 | 0.0025144 | 1295 | collagen, type VIII, alpha 1 |
| GO | cell adhesion | 53 | 522 | 0.0025144 | 1462 | versican |
| GO | cell adhesion | 53 | 522 | 0.0025144 | 1803 | dipeptidyl-peptidase 4 |
| GO | cell adhesion | 53 | 522 | 0.0025144 | 1901 | sphingosine-1-phosphate receptor 1 |
| GO | cell adhesion | 53 | 522 | 0.0025144 | 2015 | egf-like module containing, mucin-like, hormone receptor-like 1 |
| GO | cell adhesion | 53 | 522 | 0.0025144 | 2153 | coagulation factor V (proaccelerin, labile factor) |
| GO | cell adhesion | 53 | 522 | 0.0025144 | 22795 | nidogen 2 (osteonidogen) |
| GO | cell adhesion | 53 | 522 | 0.0025144 | 22915 | multimerin 1 |
| GO | cell adhesion | 53 | 522 | 0.0025144 | 23145 | SCO-spondin homolog (Bos taurus) |
| GO | cell adhesion | 53 | 522 | 0.0025144 | 23767 | fibronectin leucine rich transmembrane protein 3 |
| GO | cell adhesion | 53 | 522 | 0.0025144 | 255743 | nephronectin |
| GO | cell adhesion | 53 | 522 | 0.0025144 | 285704 | RGM domain family, member B |
| GO | cell adhesion | 53 | 522 | 0.0025144 | 3491 | cysteine-rich, angiogenic inducer, 61 |
| GO | cell adhesion | 53 | 522 | 0.0025144 | 3678 | integrin, alpha 5 (fibronectin receptor, alpha polypeptide) |
| GO | cell adhesion | 53 | 522 | 0.0025144 | 3687 | integrin, alpha X (complement component 3 receptor 4 subunit) |
| GO | cell adhesion | 53 | 522 | 0.0025144 | 3689 | integrin, beta 2 (complement component 3 receptor 3 and 4 subunit) |
| GO | cell adhesion | 53 | 522 | 0.0025144 | 3691 | integrin, beta 4 |
| GO | cell adhesion | 53 | 522 | 0.0025144 | 3696 | integrin, beta 8 |
| GO | cell adhesion | 53 | 522 | 0.0025144 | 3913 | laminin, beta 2 (laminin S) |
| GO | cell adhesion | 53 | 522 | 0.0025144 | 3914 | laminin, beta 3 |
| GO | cell adhesion | 53 | 522 | 0.0025144 | 3959 | lectin, galactoside-binding, soluble, 3 binding protein |
| GO | cell adhesion | 53 | 522 | 0.0025144 | 4254 | KIT ligand |
| GO | cell adhesion | 53 | 522 | 0.0025144 | 4586 | mucin 5AC, oligomeric mucus/gel-forming |
| GO | cell adhesion | 53 | 522 | 0.0025144 | 4684 | neural cell adhesion molecule 1 |
| GO | cell adhesion | 53 | 522 | 0.0025144 | 50937 | Cdon homolog (mouse) |
| GO | cell adhesion | 53 | 522 | 0.0025144 | 5099 | protocadherin 7 |
| GO | cell adhesion | 53 | 522 | 0.0025144 | 51754 | transmembrane protein 8B |
| GO | cell adhesion | 53 | 522 | 0.0025144 | 5239 | phosphoglucomutase 5 |

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| GO | cell adhesion | 53 | 522 | 0.0025144 | 57453 | Down syndrome cell adhesion molecule like 1 |
| GO | cell adhesion | 53 | 522 | 0.0025144 | 57863 | cell adhesion molecule 3 |
| GO | cell adhesion | 53 | 522 | 0.0025144 | 6402 | selectin L |
| GO | cell adhesion | 53 | 522 | 0.0025144 | 79987 | sushi, von Willebrand factor type A, EGF and pentraxin domain contain |
| GO | cell adhesion | 53 | 522 | 0.0025144 | 8082 | sarcospan (Kras oncogene-associated gene) |
| GO | cell adhesion | 53 | 522 | 0.0025144 | 8406 | sushi-repeat-containing protein, X-linked |
| GO | cell adhesion | 53 | 522 | 0.0025144 | 8839 | WNT1 inducible signaling pathway protein 2 |
| GO | cell adhesion | 53 | 522 | 0.0025144 | 9071 | claudin 10 |
| GO | cell adhesion | 53 | 522 | 0.0025144 | 91653 | Boc homolog (mouse) |
| GO | cell adhesion | 53 | 522 | 0.0025144 | 94025 | mucin 16, cell surface associated |
| GO | cell adhesion | 53 | 522 | 0.0025144 | 961 | CD47 molecule |
| GO | cell adhesion | 53 | 522 | 0.0025144 | 9788 | metastasis suppressor 1 |
| GO | scavenger receptor activity | 9 | 44 | 0.0025403 | 10216 | proteoglycan 4 |
| GO | scavenger receptor activity | 9 | 44 | 0.0025403 | 157869 | chromosome 8 open reading frame 84 |
| GO | scavenger receptor activity | 9 | 44 | 0.0025403 | 1755 | deleted in malignant brain tumors 1 |
| GO | scavenger receptor activity | 9 | 44 | 0.0025403 | 283316 | CD163 molecule-like 1 |
| GO | scavenger receptor activity | 9 | 44 | 0.0025403 | 286133 | scavenger receptor class A, member 5 (putative) |
| GO | scavenger receptor activity | 9 | 44 | 0.0025403 | 3959 | lectin, galactoside-binding, soluble, 3 binding protein |
| GO | scavenger receptor activity | 9 | 44 | 0.0025403 | 56649 | transmembrane protease, serine 4 |
| GO | scavenger receptor activity | 9 | 44 | 0.0025403 | 64699 | transmembrane protease, serine 3 |
| GO | scavenger receptor activity | 9 | 44 | 0.0025403 | 84171 | lysyl oxidase-like 4 |
| GO | negative regulation of nerve growth f | 3 | 5 | 0.0028689 | 10252 | sprouty homolog 1, antagonist of FGF signaling (Drosophila) |
| GO | negative regulation of nerve growth f | 3 | 5 | 0.0028689 | 10253 | sprouty homolog 2 (Drosophila) |
| GO | negative regulation of nerve growth f | 3 | 5 | 0.0028689 | 183 | angiotensinogen (serpin peptidase inhibitor, clade A, member 8) |
| GO | insulin binding | 3 | 5 | 0.0028689 | 3643 | insulin receptor |
| GO | insulin binding | 3 | 5 | 0.0028689 | 5122 | proprotein convertase subtilisin/kexin type 1 |
| GO | insulin binding | 3 | 5 | 0.0028689 | 5295 | phosphoinositide-3-kinase, regulatory subunit 1 (alpha) |
| GO | placenta blood vessel development | 3 | 5 | 0.0028689 | 3696 | integrin, beta 8 |
| GO | placenta blood vessel development | 3 | 5 | 0.0028689 | 6692 | serine peptidase inhibitor, Kunitz type 1 |
| GO | placenta blood vessel development | 3 | 5 | 0.0028689 | 9021 | suppressor of cytokine signaling 3 |
| GO | lipopolysaccharide receptor activity | 3 | 5 | 0.0028689 | 5724 | platelet-activating factor receptor |
| GO | lipopolysaccharide receptor activity | 3 | 5 | 0.0028689 | 7097 | toll-like receptor 2 |
| GO | lipopolysaccharide receptor activity | 3 | 5 | 0.0028689 | 7099 | toll-like receptor 4 |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 10346 | tripartite motif-containing 22 |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 10481 | homeobox B13 |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 10838 | zinc finger protein 275 |

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| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 115196 | zinc finger protein 554 |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 116071 | basic leucine zipper transcription factor, ATF-like 2 |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 116113 | forkhead box P4 |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 127343 | diencephalon/mesencephalon homeobox 1 |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 1382 | cellular retinoic acid binding protein 2 |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 147694 | zinc finger protein 548 |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 147923 | zinc finger protein 420 |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 158800 | Rhox homeobox family, member 1 |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 162962 | zinc finger protein 836 |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 163050 | zinc finger protein 564 |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 1820 | AT rich interactive domain 3A (BRIGHT-like) |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 1959 | early growth response 2 |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 1999 | E74-like factor 3 (ets domain transcription factor, epithelial-specific ) |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 2115 | ets variant 1 |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 2117 | ets variant 3 |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 222546 | regulatory factor X, 6 |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 2290 | forkhead box G1 |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 2296 | forkhead box C1 |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 2306 | forkhead box D2 |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 2354 | FBJ murine osteosarcoma viral oncogene homolog B |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 256051 | zinc finger protein 549 |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 2624 | GATA binding protein 2 |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 26468 | LIM homeobox 6 |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 3131 | hepatic leukemia factor |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 3142 | H2.0-like homeobox |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 3164 | nuclear receptor subfamily 4, group A, member 1 |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 3169 | forkhead box A1 |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 3175 | one cut homeobox 1 |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 3428 | interferon, gamma-inducible protein 16 |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 342908 | zinc finger protein 404 |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 345462 | zinc finger protein 879 |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 3665 | interferon regulatory factor 7 |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 3725 | jun oncogene |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 388536 | zinc finger protein 790 |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 388558 | zinc finger protein 808 |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 400713 | zinc finger protein 880 |

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| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 4209 | myocyte enhancer factor 2D |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 4212 | Meis homeobox 2 |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 4223 | mesenchyme homeobox 2 |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 4286 | microphthalmia-associated transcription factor |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 4306 | nuclear receptor subfamily 3, group C, member 2 |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 467 | activating transcription factor 3 |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 4692 | necdin homolog (mouse) |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 4783 | nuclear factor, interleukin 3 regulated |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 4784 | nuclear factor I/X (CCAAT-binding transcription factor) |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 4791 | nuclear factor of kappa light polypeptide gene enhancer in B-cells 2 (p4 |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 4802 | nuclear transcription factor Y, gamma |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 4853 | Notch homolog 2 (Drosophila) |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 4929 | nuclear receptor subfamily 4, group A, member 2 |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 5083 | paired box 9 |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 51085 | MLX interacting protein-like |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 51710 | zinc finger protein 44 |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 5187 | period homolog 1 (Drosophila) |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 5307 | paired-like homeodomain 1 |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 5308 | paired-like homeodomain 2 |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 5396 | paired related homeobox 1 |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 5460 | POU class 5 homeobox 1 |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 5463 | POU class 6 homeobox 1 |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 5465 | peroxisome proliferator-activated receptor alpha |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 55762 | zinc finger protein 701 |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 55769 | zinc finger protein 83 |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 55810 | forkhead box J2 |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 55893 | zinc finger protein 395 |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 57459 | GATA zinc finger domain containing 2B |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 57594 | homeobox and leucine zipper encoding |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 6096 | RAR-related orphan receptor B |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 6097 | RAR-related orphan receptor C |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 6239 | ras responsive element binding protein 1 |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 64651 | cysteine-serine-rich nuclear protein 1 |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 7090 | transducin-like enhancer of split 3 (E(sp1) homolog, Drosophila) |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 7565 | zinc finger protein 17 |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 7678 | zinc finger protein 124 |

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| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 8013 | nuclear receptor subfamily 4, group A, member 3 |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 80714 | pre-B-cell leukemia homeobox 4 |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 84124 | zinc finger protein 394 |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 84911 | zinc finger protein 382 |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 8531 | cold shock domain protein A |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 8553 | basic helix-loop-helix family, member e40 |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 862 | runt-related transcription factor 1; translocated to, 1 (cyclin D-related) |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 8622 | phosphodiesterase 8B |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 8848 | TSC22 domain family, member 1 |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 8863 | period homolog 3 (Drosophila) |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 8864 | period homolog 2 (Drosophila) |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 90592 | zinc finger protein 700 |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 90993 | cAMP responsive element binding protein 3-like 1 |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 92283 | zinc finger protein 461 |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 9422 | zinc finger protein 264 |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 9496 | T-box 4 |
| GO | regulation of transcription, DNA-depe | 92 | 1013 | 0.0030092 | 9572 | nuclear receptor subfamily 1, group D, member 1 |
| GO | response to drug | 27 | 225 | 0.0031121 | 10628 | thioredoxin interacting protein |
| GO | response to drug | 27 | 225 | 0.0031121 | 1080 | cystic fibrosis transmembrane conductance regulator (ATP-binding cas |
| GO | response to drug | 27 | 225 | 0.0031121 | 123 | perilipin 2 |
| GO | response to drug | 27 | 225 | 0.0031121 | 1373 | carbamoyl-phosphate synthetase 1, mitochondrial |
| GO | response to drug | 27 | 225 | 0.0031121 | 1813 | dopamine receptor D2 |
| GO | response to drug | 27 | 225 | 0.0031121 | 2026 | enolase 2 (gamma, neuronal) |
| GO | response to drug | 27 | 225 | 0.0031121 | 2033 | E1A binding protein p300 |
| GO | response to drug | 27 | 225 | 0.0031121 | 2066 | v-erb-a erythroblastic leukemia viral oncogene homolog 4 (avian) |
| GO | response to drug | 27 | 225 | 0.0031121 | 2353 | FBJ murine osteosarcoma viral oncogene homolog |
| GO | response to drug | 27 | 225 | 0.0031121 | 2564 | gamma-aminobutyric acid (GABA) A receptor, epsilon |
| GO | response to drug | 27 | 225 | 0.0031121 | 358 | aquaporin 1 (Colton blood group) |
| GO | response to drug | 27 | 225 | 0.0031121 | 368 | ATP-binding cassette, sub-family C (CFTR/MRP), member 6 |
| GO | response to drug | 27 | 225 | 0.0031121 | 3725 | jun oncogene |
| GO | response to drug | 27 | 225 | 0.0031121 | 3726 | jun B proto-oncogene |
| GO | response to drug | 27 | 225 | 0.0031121 | 4015 | lysyl oxidase |
| GO | response to drug | 27 | 225 | 0.0031121 | 4056 | leukotriene C4 synthase |
| GO | response to drug | 27 | 225 | 0.0031121 | 4129 | monoamine oxidase B |
| GO | response to drug | 27 | 225 | 0.0031121 | 5122 | proprotein convertase subtilisin/kexin type 1 |
| GO | response to drug | 27 | 225 | 0.0031121 | 5243 | ATP-binding cassette, sub-family B (MDR/TAP), member 1 |

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| GO | response to drug | 27 | 225 | 0.0031121 | 5244 | ATP-binding cassette, sub-family B (MDR/TAP), member 4 |
| GO | response to drug | 27 | 225 | 0.0031121 | 5608 | mitogen-activated protein kinase kinase 6 |
| GO | response to drug | 27 | 225 | 0.0031121 | 5972 | renin |
| GO | response to drug | 27 | 225 | 0.0031121 | 627 | brain-derived neurotrophic factor |
| GO | response to drug | 27 | 225 | 0.0031121 | 6622 | synuclein, alpha (non A4 component of amyloid precursor) |
| GO | response to drug | 27 | 225 | 0.0031121 | 6750 | somatostatin |
| GO | response to drug | 27 | 225 | 0.0031121 | 834 | caspase 1, apoptosis-related cysteine peptidase (interleukin 1, beta, co |
| GO | response to drug | 27 | 225 | 0.0031121 | 9021 | suppressor of cytokine signaling 3 |
| GO | positive regulation of Ras protein sigr | 4 | 10 | 0.0032664 | 1435 | colony stimulating factor 1 (macrophage) |
| GO | positive regulation of Ras protein sigr | 4 | 10 | 0.0032664 | 3479 | insulin-like growth factor 1 (somatomedin C) |
| GO | positive regulation of Ras protein sigr | 4 | 10 | 0.0032664 | 4254 | KIT ligand |
| GO | positive regulation of Ras protein sigr | 4 | 10 | 0.0032664 | 4853 | Notch homolog 2 (Drosophila) |
| GO | receptor signaling protein tyrosine ki | 4 | 10 | 0.0032664 | 2066 | v-erb-a erythroblastic leukemia viral oncogene homolog 4 (avian) |
| GO | receptor signaling protein tyrosine ki | 4 | 10 | 0.0032664 | 3643 | insulin receptor |
| GO | receptor signaling protein tyrosine ki | 4 | 10 | 0.0032664 | 3815 | v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog |
| GO | receptor signaling protein tyrosine ki | 4 | 10 | 0.0032664 | 6850 | spleen tyrosine kinase |
| GO | positive regulation of tyrosine phospl | 4 | 10 | 0.0032664 | 23529 | cardiotrophin-like cytokine factor 1 |
| GO | positive regulation of tyrosine phospl | 4 | 10 | 0.0032664 | 3569 | interleukin 6 (interferon, beta 2) |
| GO | positive regulation of tyrosine phospl | 4 | 10 | 0.0032664 | 3570 | interleukin 6 receptor |
| GO | positive regulation of tyrosine phospl | 4 | 10 | 0.0032664 | 50604 | interleukin 20 |
| GO | positive regulation of interleukin-8 pr | 4 | 10 | 0.0032664 | 7097 | toll-like receptor 2 |
| GO | positive regulation of interleukin-8 pr | 4 | 10 | 0.0032664 | 7098 | toll-like receptor 3 |
| GO | positive regulation of interleukin-8 pr | 4 | 10 | 0.0032664 | 7099 | toll-like receptor 4 |
| GO | positive regulation of interleukin-8 pr | 4 | 10 | 0.0032664 | 7100 | toll-like receptor 5 |
| GO | response to cAMP | 9 | 46 | 0.0034918 | 1373 | carbamoyl-phosphate synthetase 1, mitochondrial |
| GO | response to cAMP | 9 | 46 | 0.0034918 | 1843 | dual specificity phosphatase 1 |
| GO | response to cAMP | 9 | 46 | 0.0034918 | 2353 | FBJ murine osteosarcoma viral oncogene homolog |
| GO | response to cAMP | 9 | 46 | 0.0034918 | 3570 | interleukin 6 receptor |
| GO | response to cAMP | 9 | 46 | 0.0034918 | 3725 | jun oncogene |
| GO | response to cAMP | 9 | 46 | 0.0034918 | 3726 | jun B proto-oncogene |
| GO | response to cAMP | 9 | 46 | 0.0034918 | 5327 | plasminogen activator, tissue |
| GO | response to cAMP | 9 | 46 | 0.0034918 | 5972 | renin |
| GO | response to cAMP | 9 | 46 | 0.0034918 | 682 | basigin (Ok blood group) |
| GO | potassium channel regulator activity | 6 | 23 | 0.0037057 | 10008 | potassium voltage-gated channel, Isk-related family, member 3 |
| GO | potassium channel regulator activity | 6 | 23 | 0.0037057 | 154 | adrenergic, beta-2-, receptor, surface |
| GO | potassium channel regulator activity | 6 | 23 | 0.0037057 | 1813 | dopamine receptor D2 |

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|---|---|---|---|---|---|---|
| GO | potassium channel regulator activity | 6 | 23 | 0.0037057 | 1815 | dopamine receptor D4 |
| GO | potassium channel regulator activity | 6 | 23 | 0.0037057 | 3790 | potassium voltage-gated channel, delayed-rectifier, subfamily S, memb |
| GO | potassium channel regulator activity | 6 | 23 | 0.0037057 | 8514 | potassium voltage-gated channel, shaker-related subfamily, beta mem |
| GO | odontogenesis | 6 | 23 | 0.0037057 | 10117 | enamelin |
| GO | odontogenesis | 6 | 23 | 0.0037057 | 1435 | colony stimulating factor 1 (macrophage) |
| GO | odontogenesis | 6 | 23 | 0.0037057 | 2066 | v-erb-a erythroblastic leukemia viral oncogene homolog 4 (avian) |
| GO | odontogenesis | 6 | 23 | 0.0037057 | 2331 | fibromodulin |
| GO | odontogenesis | 6 | 23 | 0.0037057 | 358 | aquaporin 1 (Colton blood group) |
| GO | odontogenesis | 6 | 23 | 0.0037057 | 652 | bone morphogenetic protein 4 |
| GO | regulation of cell proliferation | 12 | 73 | 0.0037325 | 10628 | thioredoxin interacting protein |
| GO | regulation of cell proliferation | 12 | 73 | 0.0037325 | 1628 | D site of albumin promoter (albumin D-box) binding protein |
| GO | regulation of cell proliferation | 12 | 73 | 0.0037325 | 183 | angiotensinogen (serpin peptidase inhibitor, clade A, member 8) |
| GO | regulation of cell proliferation | 12 | 73 | 0.0037325 | 3911 | laminin, alpha 5 |
| GO | regulation of cell proliferation | 12 | 73 | 0.0037325 | 4286 | microphthalmia-associated transcription factor |
| GO | regulation of cell proliferation | 12 | 73 | 0.0037325 | 4316 | matrix metallopeptidase 7 (matrilysin, uterine) |
| GO | regulation of cell proliferation | 12 | 73 | 0.0037325 | 4792 | nuclear factor of kappa light polypeptide gene enhancer in B-cells inhib |
| GO | regulation of cell proliferation | 12 | 73 | 0.0037325 | 5732 | prostaglandin E receptor 2 (subtype EP2), 53kDa |
| GO | regulation of cell proliferation | 12 | 73 | 0.0037325 | 5742 | prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase a |
| GO | regulation of cell proliferation | 12 | 73 | 0.0037325 | 6778 | signal transducer and activator of transcription 6, interleukin-4 induced |
| GO | regulation of cell proliferation | 12 | 73 | 0.0037325 | 8744 | tumor necrosis factor (ligand) superfamily, member 9 |
| GO | regulation of cell proliferation | 12 | 73 | 0.0037325 | 92304 | secretoglobin, family 3A, member 1 |
| GO | response to organic cyclic substance | 14 | 92 | 0.0037721 | 123 | perilipin 2 |
| GO | response to organic cyclic substance | 14 | 92 | 0.0037721 | 1508 | cathepsin B |
| GO | response to organic cyclic substance | 14 | 92 | 0.0037721 | 2026 | enolase 2 (gamma, neuronal) |
| GO | response to organic cyclic substance | 14 | 92 | 0.0037721 | 2033 | E1A binding protein p300 |
| GO | response to organic cyclic substance | 14 | 92 | 0.0037721 | 205 | adenylate kinase 3-like 1 |
| GO | response to organic cyclic substance | 14 | 92 | 0.0037721 | 2353 | FBJ murine osteosarcoma viral oncogene homolog |
| GO | response to organic cyclic substance | 14 | 92 | 0.0037721 | 3725 | jun oncogene |
| GO | response to organic cyclic substance | 14 | 92 | 0.0037721 | 3726 | jun B proto-oncogene |
| GO | response to organic cyclic substance | 14 | 92 | 0.0037721 | 412 | steroid sulfatase (microsomal), isozyme S |
| GO | response to organic cyclic substance | 14 | 92 | 0.0037721 | 5122 | proprotein convertase subtilisin/kexin type 1 |
| GO | response to organic cyclic substance | 14 | 92 | 0.0037721 | 6256 | retinoid X receptor, alpha |
| GO | response to organic cyclic substance | 14 | 92 | 0.0037721 | 652 | bone morphogenetic protein 4 |
| GO | response to organic cyclic substance | 14 | 92 | 0.0037721 | 834 | caspase 1, apoptosis-related cysteine peptidase (interleukin 1, beta, co |
| GO | response to organic cyclic substance | 14 | 92 | 0.0037721 | 9021 | suppressor of cytokine signaling 3 |
| GO | membrane raft | 15 | 103 | 0.0042491 | 112 | adenylate cyclase 6 |

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|---|---|---|---|---|---|---|
| GO | membrane raft | 15 | 103 | 0.0042491 | 1604 | CD55 molecule, decay accelerating factor for complement (Cromer blo |
| GO | membrane raft | 15 | 103 | 0.0042491 | 1803 | dipeptidyl-peptidase 4 |
| GO | membrane raft | 15 | 103 | 0.0042491 | 2040 | stomatin |
| GO | membrane raft | 15 | 103 | 0.0042491 | 285704 | RGM domain family, member B |
| GO | membrane raft | 15 | 103 | 0.0042491 | 3845 | v-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog |
| GO | membrane raft | 15 | 103 | 0.0042491 | 55600 | intelectin 1 (galactofuranose binding) |
| GO | membrane raft | 15 | 103 | 0.0042491 | 5577 | protein kinase, cAMP-dependent, regulatory, type II, beta |
| GO | membrane raft | 15 | 103 | 0.0042491 | 55824 | phosphoprotein associated with glycosphingolipid microdomains 1 |
| GO | membrane raft | 15 | 103 | 0.0042491 | 6004 | regulator of G-protein signaling 16 |
| GO | membrane raft | 15 | 103 | 0.0042491 | 682 | basigin (Ok blood group) |
| GO | membrane raft | 15 | 103 | 0.0042491 | 7099 | toll-like receptor 4 |
| GO | membrane raft | 15 | 103 | 0.0042491 | 7133 | tumor necrosis factor receptor superfamily, member 1B |
| GO | membrane raft | 15 | 103 | 0.0042491 | 79180 | EF-hand domain family, member D2 |
| GO | membrane raft | 15 | 103 | 0.0042491 | 929 | CD14 molecule |
| GO | regulation of long-term neuronal syn | 5 | 17 | 0.004577 | 1813 | dopamine receptor D2 |
| GO | regulation of long-term neuronal syn | 5 | 17 | 0.004577 | 183 | angiotensinogen (serpin peptidase inhibitor, clade A, member 8) |
| GO | regulation of long-term neuronal syn | 5 | 17 | 0.004577 | 1958 | early growth response 1 |
| GO | regulation of long-term neuronal syn | 5 | 17 | 0.004577 | 3845 | v-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog |
| GO | regulation of long-term neuronal syn | 5 | 17 | 0.004577 | 6622 | synuclein, alpha (non A4 component of amyloid precursor) |
| GO | negative regulation of Ras GTPase ac | 2 | 2 | 0.0046681 | 10252 | sprouty homolog 1, antagonist of FGF signaling (Drosophila) |
| GO | negative regulation of Ras GTPase ac | 2 | 2 | 0.0046681 | 10253 | sprouty homolog 2 (Drosophila) |
| GO | bud elongation involved in lung branc | 2 | 2 | 0.0046681 | 157506 | retinol dehydrogenase 10 (all-trans) |
| GO | bud elongation involved in lung branc | 2 | 2 | 0.0046681 | 652 | bone morphogenetic protein 4 |
| GO | blood vessel endothelial cell prolifera | 2 | 2 | 0.0046681 | 168667 | BMP binding endothelial regulator |
| GO | blood vessel endothelial cell prolifera | 2 | 2 | 0.0046681 | 652 | bone morphogenetic protein 4 |
| GO | positive regulation of dopamine upta | 2 | 2 | 0.0046681 | 1813 | dopamine receptor D2 |
| GO | positive regulation of dopamine upta | 2 | 2 | 0.0046681 | 1815 | dopamine receptor D4 |
| GO | establishment of blood-nerve barrier | 2 | 2 | 0.0046681 | 183 | angiotensinogen (serpin peptidase inhibitor, clade A, member 8) |
| GO | establishment of blood-nerve barrier | 2 | 2 | 0.0046681 | 2947 | glutathione S-transferase mu 3 (brain) |
| GO | lymph vessel development | 2 | 2 | 0.0046681 | 1948 | ephrin-B2 |
| GO | lymph vessel development | 2 | 2 | 0.0046681 | 2296 | forkhead box C1 |
| GO | positive regulation of glycoprotein bi | 2 | 2 | 0.0046681 | 2033 | E1A binding protein p300 |
| GO | positive regulation of glycoprotein bi | 2 | 2 | 0.0046681 | 3643 | insulin receptor |
| GO | positive regulation of interleukin-3 bi | 2 | 2 | 0.0046681 | 2205 | Fc fragment of IgE, high affinity I, receptor for; alpha polypeptide |
| GO | positive regulation of interleukin-3 bi | 2 | 2 | 0.0046681 | 6850 | spleen tyrosine kinase |
| GO | serotonin secretion | 2 | 2 | 0.0046681 | 2205 | Fc fragment of IgE, high affinity I, receptor for; alpha polypeptide |

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|---|---|---|---|---|---|---|
| GO | serotonin secretion | 2 | 2 | 0.0046681 | 6850 | spleen tyrosine kinase |
| GO | Ral guanyl-nucleotide exchange factc | 2 | 2 | 0.0046681 | 23179 | ral guanine nucleotide dissociation stimulator-like 1 |
| GO | Ral guanyl-nucleotide exchange factc | 2 | 2 | 0.0046681 | 57139 | ral guanine nucleotide dissociation stimulator-like 3 |
| GO | regulation of low-density lipoprotein | 2 | 2 | 0.0046681 | 255738 | proprotein convertase subtilisin/kexin type 9 |
| GO | regulation of low-density lipoprotein | 2 | 2 | 0.0046681 | 29116 | myosin regulatory light chain interacting protein |
| GO | prostate gland stromal morphogenes | 2 | 2 | 0.0046681 | 3169 | forkhead box A1 |
| GO | prostate gland stromal morphogenes | 2 | 2 | 0.0046681 | 3479 | insulin-like growth factor 1 (somatomedin C) |
| GO | hepatic immune response | 2 | 2 | 0.0046681 | 3569 | interleukin 6 (interferon, beta 2) |
| GO | hepatic immune response | 2 | 2 | 0.0046681 | 3570 | interleukin 6 receptor |
| GO | response to iron(II) ion | 2 | 2 | 0.0046681 | 48 | aconitase 1, soluble |
| GO | response to iron(II) ion | 2 | 2 | 0.0046681 | 6622 | synuclein, alpha (non A4 component of amyloid precursor) |
| GO | axon target recognition | 2 | 2 | 0.0046681 | 627 | brain-derived neurotrophic factor |
| GO | axon target recognition | 2 | 2 | 0.0046681 | 6812 | syntaxin binding protein 1 |
| GO | RNA destabilization | 2 | 2 | 0.0046681 | 7133 | tumor necrosis factor receptor superfamily, member 1B |
| GO | RNA destabilization | 2 | 2 | 0.0046681 | 7538 | zinc finger protein 36, C3H type, homolog (mouse) |
| GO | response to exogenous dsRNA | 4 | 11 | 0.0048571 | 11213 | interleukin-1 receptor-associated kinase 3 |
| GO | response to exogenous dsRNA | 4 | 11 | 0.0048571 | 4792 | nuclear factor of kappa light polypeptide gene enhancer in B-cells inhib |
| GO | response to exogenous dsRNA | 4 | 11 | 0.0048571 | 64127 | nucleotide-binding oligomerization domain containing 2 |
| GO | response to exogenous dsRNA | 4 | 11 | 0.0048571 | 7098 | toll-like receptor 3 |
| GO | neural crest cell development | 4 | 11 | 0.0048571 | 157506 | retinol dehydrogenase 10 (all-trans) |
| GO | neural crest cell development | 4 | 11 | 0.0048571 | 1906 | endothelin 1 |
| GO | neural crest cell development | 4 | 11 | 0.0048571 | 2296 | forkhead box C1 |
| GO | neural crest cell development | 4 | 11 | 0.0048571 | 2303 | forkhead box C2 (MFH-1, mesenchyme forkhead 1) |
| GO | cell fate determination | 4 | 11 | 0.0048571 | 2624 | GATA binding protein 2 |
| GO | cell fate determination | 4 | 11 | 0.0048571 | 4170 | myeloid cell leukemia sequence 1 (BCL2-related) |
| GO | cell fate determination | 4 | 11 | 0.0048571 | 4853 | Notch homolog 2 (Drosophila) |
| GO | cell fate determination | 4 | 11 | 0.0048571 | 57453 | Down syndrome cell adhesion molecule like 1 |
| GO | myoblast fusion | 4 | 11 | 0.0048571 | 4842 | nitric oxide synthase 1 (neuronal) |
| GO | myoblast fusion | 4 | 11 | 0.0048571 | 50937 | Cdon homolog (mouse) |
| GO | myoblast fusion | 4 | 11 | 0.0048571 | 834 | caspase 1, apoptosis-related cysteine peptidase (interleukin 1, beta, co |
| GO | myoblast fusion | 4 | 11 | 0.0048571 | 8912 | calcium channel, voltage-dependent, T type, alpha 1H subunit |
| GO | proteinaceous extracellular matrix | 26 | 223 | 0.0053803 | 10117 | enamelin |
| GO | proteinaceous extracellular matrix | 26 | 223 | 0.0053803 | 10417 | spondin 2, extracellular matrix protein |
| GO | proteinaceous extracellular matrix | 26 | 223 | 0.0053803 | 10418 | spondin 1, extracellular matrix protein |
| GO | proteinaceous extracellular matrix | 26 | 223 | 0.0053803 | 10516 | fibulin 5 |
| GO | proteinaceous extracellular matrix | 26 | 223 | 0.0053803 | 10752 | cell adhesion molecule with homology to L1CAM (close homolog of L1) |

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|---|---|---|---|---|---|---|
| GO | proteinaceous extracellular matrix | 26 | 223 | 0.0053803 | 126638 | repetin |
| GO | proteinaceous extracellular matrix | 26 | 223 | 0.0053803 | 1462 | versican |
| GO | proteinaceous extracellular matrix | 26 | 223 | 0.0053803 | 170692 | ADAM metallopeptidase with thrombospondin type 1 motif, 18 |
| GO | proteinaceous extracellular matrix | 26 | 223 | 0.0053803 | 2200 | fibrillin 1 |
| GO | proteinaceous extracellular matrix | 26 | 223 | 0.0053803 | 2201 | fibrillin 2 |
| GO | proteinaceous extracellular matrix | 26 | 223 | 0.0053803 | 2239 | glypican 4 |
| GO | proteinaceous extracellular matrix | 26 | 223 | 0.0053803 | 2262 | glypican 5 |
| GO | proteinaceous extracellular matrix | 26 | 223 | 0.0053803 | 2331 | fibromodulin |
| GO | proteinaceous extracellular matrix | 26 | 223 | 0.0053803 | 23767 | fibronectin leucine rich transmembrane protein 3 |
| GO | proteinaceous extracellular matrix | 26 | 223 | 0.0053803 | 255743 | nephronectin |
| GO | proteinaceous extracellular matrix | 26 | 223 | 0.0053803 | 3958 | lectin, galactoside-binding, soluble, 3 |
| GO | proteinaceous extracellular matrix | 26 | 223 | 0.0053803 | 3959 | lectin, galactoside-binding, soluble, 3 binding protein |
| GO | proteinaceous extracellular matrix | 26 | 223 | 0.0053803 | 4316 | matrix metallopeptidase 7 (matrilysin, uterine) |
| GO | proteinaceous extracellular matrix | 26 | 223 | 0.0053803 | 50859 | sparc/osteonectin, cwcv and kazal-like domains proteoglycan (testican |
| GO | proteinaceous extracellular matrix | 26 | 223 | 0.0053803 | 54361 | wingless-type MMTV integration site family, member 4 |
| GO | proteinaceous extracellular matrix | 26 | 223 | 0.0053803 | 56547 | matrix metallopeptidase 26 |
| GO | proteinaceous extracellular matrix | 26 | 223 | 0.0053803 | 652 | bone morphogenetic protein 4 |
| GO | proteinaceous extracellular matrix | 26 | 223 | 0.0053803 | 7076 | TIMP metallopeptidase inhibitor 1 |
| GO | proteinaceous extracellular matrix | 26 | 223 | 0.0053803 | 7474 | wingless-type MMTV integration site family, member 5A |
| GO | proteinaceous extracellular matrix | 26 | 223 | 0.0053803 | 7477 | wingless-type MMTV integration site family, member 7B |
| GO | proteinaceous extracellular matrix | 26 | 223 | 0.0053803 | 8076 | microfibrillar associated protein 5 |
| GO | regulation of blood pressure | 9 | 49 | 0.005419 | 183 | angiotensinogen (serpin peptidase inhibitor, clade A, member 8) |
| GO | regulation of blood pressure | 9 | 49 | 0.005419 | 1906 | endothelin 1 |
| GO | regulation of blood pressure | 9 | 49 | 0.005419 | 2642 | glucagon receptor |
| GO | regulation of blood pressure | 9 | 49 | 0.005419 | 27035 | NADPH oxidase 1 |
| GO | regulation of blood pressure | 9 | 49 | 0.005419 | 4886 | neuropeptide Y receptor Y1 |
| GO | regulation of blood pressure | 9 | 49 | 0.005419 | 5025 | purinergic receptor P2X, ligand-gated ion channel, 4 |
| GO | regulation of blood pressure | 9 | 49 | 0.005419 | 5742 | prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase a |
| GO | regulation of blood pressure | 9 | 49 | 0.005419 | 5972 | renin |
| GO | regulation of blood pressure | 9 | 49 | 0.005419 | 94 | activin A receptor type II-like 1 |
| GO | regulation of hydrogen peroxide met | 3 | 6 | 0.0054465 | 10811 | NADPH oxidase activator 1 |
| GO | regulation of hydrogen peroxide met | 3 | 6 | 0.0054465 | 3643 | insulin receptor |
| GO | regulation of hydrogen peroxide met | 3 | 6 | 0.0054465 | 7001 | peroxiredoxin 2 |
| GO | response to peptidoglycan | 3 | 6 | 0.0054465 | 11213 | interleukin-1 receptor-associated kinase 3 |
| GO | response to peptidoglycan | 3 | 6 | 0.0054465 | 3569 | interleukin 6 (interferon, beta 2) |
| GO | response to peptidoglycan | 3 | 6 | 0.0054465 | 7097 | toll-like receptor 2 |

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|---|---|---|---|---|---|---|
| GO | positive regulation of organ growth | 3 | 6 | 0.0054465 | 183 | angiotensinogen (serpin peptidase inhibitor, clade A, member 8) |
| GO | positive regulation of organ growth | 3 | 6 | 0.0054465 | 3142 | H2.0-like homeobox |
| GO | positive regulation of organ growth | 3 | 6 | 0.0054465 | 8531 | cold shock domain protein A |
| GO | chromatin DNA binding | 3 | 6 | 0.0054465 | 2303 | forkhead box C2 (MFH-1, mesenchyme forkhead 1) |
| GO | chromatin DNA binding | 3 | 6 | 0.0054465 | 4851 | Notch homolog 1, translocation-associated (Drosophila) |
| GO | chromatin DNA binding | 3 | 6 | 0.0054465 | 604 | B-cell CLL/lymphoma 6 |
| GO | insulin-like growth factor I binding | 3 | 6 | 0.0054465 | 3486 | insulin-like growth factor binding protein 3 |
| GO | insulin-like growth factor I binding | 3 | 6 | 0.0054465 | 3488 | insulin-like growth factor binding protein 5 |
| GO | insulin-like growth factor I binding | 3 | 6 | 0.0054465 | 3643 | insulin receptor |
| GO | lipid binding | 16 | 116 | 0.0055177 | 1382 | cellular retinoic acid binding protein 2 |
| GO | lipid binding | 16 | 116 | 0.0055177 | 23048 | formin binding protein 1 |
| GO | lipid binding | 16 | 116 | 0.0055177 | 23780 | apolipoprotein L, 2 |
| GO | lipid binding | 16 | 116 | 0.0055177 | 2865 | free fatty acid receptor 3 |
| GO | lipid binding | 16 | 116 | 0.0055177 | 2867 | free fatty acid receptor 2 |
| GO | lipid binding | 16 | 116 | 0.0055177 | 4056 | leukotriene C4 synthase |
| GO | lipid binding | 16 | 116 | 0.0055177 | 51228 | glycolipid transfer protein |
| GO | lipid binding | 16 | 116 | 0.0055177 | 5346 | perilipin 1 |
| GO | lipid binding | 16 | 116 | 0.0055177 | 5465 | peroxisome proliferator-activated receptor alpha |
| GO | lipid binding | 16 | 116 | 0.0055177 | 56288 | par-3 partitioning defective 3 homolog (C. elegans) |
| GO | lipid binding | 16 | 116 | 0.0055177 | 5742 | prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase a |
| GO | lipid binding | 16 | 116 | 0.0055177 | 80830 | apolipoprotein L, 6 |
| GO | lipid binding | 16 | 116 | 0.0055177 | 80833 | apolipoprotein L, 3 |
| GO | lipid binding | 16 | 116 | 0.0055177 | 83394 | PITPNM family member 3 |
| GO | lipid binding | 16 | 116 | 0.0055177 | 8542 | apolipoprotein L, 1 |
| GO | lipid binding | 16 | 116 | 0.0055177 | 92747 | chromosome 20 open reading frame 114 |
| GO | phosphatidylinositol binding | 5 | 18 | 0.0059855 | 5295 | phosphoinositide-3-kinase, regulatory subunit 1 (alpha) |
| GO | phosphatidylinositol binding | 5 | 18 | 0.0059855 | 6857 | synaptotagmin I |
| GO | phosphatidylinositol binding | 5 | 18 | 0.0059855 | 85477 | scinderin |
| GO | phosphatidylinositol binding | 5 | 18 | 0.0059855 | 91404 | SEC14 and spectrin domains 1 |
| GO | phosphatidylinositol binding | 5 | 18 | 0.0059855 | 9892 | synaptosomal-associated protein, 91kDa homolog (mouse) |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 10106 | CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) sma |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 10156 | RAS p21 protein activator 4 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 10346 | tripartite motif-containing 22 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 104 | adenosine deaminase, RNA-specific, B1 (RED1 homolog rat) |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 10417 | spondin 2, extracellular matrix protein |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 10838 | zinc finger protein 275 |

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|---|---|---|---|---|---|---|
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 10906 | TRAF-type zinc finger domain containing 1 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 11043 | midline 2 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 11074 | tripartite motif-containing 31 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 11155 | LIM domain binding 3 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 112 | adenylate cyclase 6 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 11200 | CHK2 checkpoint homolog (S. pombe) |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 11238 | carbonic anhydrase VB, mitochondrial |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 1124 | chimerin (chimaerin) 2 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 11279 | Kruppel-like factor 8 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 115196 | zinc finger protein 554 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 116113 | forkhead box P4 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 116984 | ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 2 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 118429 | anthrax toxin receptor 2 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 118987 | PDZ domain containing 8 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 124 | alcohol dehydrogenase 1A (class I), alpha polypeptide |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 125 | alcohol dehydrogenase 1B (class I), beta polypeptide |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 130399 | activin A receptor, type IC |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 134218 | DnaJ (Hsp40) homolog, subfamily C, member 21 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 135644 | tripartite motif-containing 40 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 1363 | carboxypeptidase E |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 1368 | carboxypeptidase M |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 143425 | synaptotagmin IX |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 147694 | zinc finger protein 548 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 147923 | zinc finger protein 420 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 151636 | deltex 3-like (Drosophila) |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 152273 | FYVE, RhoGEF and PH domain containing 5 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 154214 | ring finger protein 217 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 1558 | cytochrome P450, family 2, subfamily C, polypeptide 8 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 1559 | cytochrome P450, family 2, subfamily C, polypeptide 9 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 1571 | cytochrome P450, family 2, subfamily E, polypeptide 1 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 1577 | cytochrome P450, family 3, subfamily A, polypeptide 5 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 162962 | zinc finger protein 836 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 163050 | zinc finger protein 564 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 163115 | zinc finger protein 781 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 170692 | ADAM metallopeptidase with thrombospondin type 1 motif, 18 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 1958 | early growth response 1 |

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|---|---|---|---|---|---|---|
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 1959 | early growth response 2 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 1960 | early growth response 3 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 201501 | zinc finger and BTB domain containing 7C |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 2033 | E1A binding protein p300 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 2122 | MDS1 and EVI1 complex locus |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 2153 | coagulation factor V (proaccelerin, labile factor) |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 220441 | ring finger protein 152 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 22807 | IKAROS family zinc finger 2 (Helios) |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 22901 | arylsulfatase G |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 22998 | LIM and calponin homology domains 1 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 23035 | PH domain and leucine rich repeat protein phosphatase 2 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 23081 | lysine (K)-specific demethylase 4C |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 23099 | zinc finger and BTB domain containing 43 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 23119 | hypermethylated in cancer 2 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 23338 | PHD finger protein 15 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 23371 | tensin like C1 domain containing phosphatase (tensin 2) |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 23650 | tripartite motif-containing 29 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 23774 | bromodomain containing 1 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 240 | arachidonate 5-lipoxygenase |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 2521 | fused in sarcoma |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 254295 | phytanoyl-CoA dioxygenase domain containing 1 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 255488 | ring finger protein 144B |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 256051 | zinc finger protein 549 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 25862 | ubiquitin specific peptidase 49 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 25946 | zinc finger protein 385A |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 2624 | GATA binding protein 2 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 26468 | LIM homeobox 6 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 27035 | NADPH oxidase 1 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 27246 | ring finger protein 115 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 27295 | PDZ and LIM domain 3 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 2737 | GLI family zinc finger 3 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 27434 | polymerase (DNA directed), mu |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 284346 | zinc finger protein 575 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 284716 | ribosomal modification protein rimK-like family member A |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 29116 | myosin regulatory light chain interacting protein |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 316 | aldehyde oxidase 1 |

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|---|---|---|---|---|---|---|
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 3164 | nuclear receptor subfamily 4, group A, member 1 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 3268 | ArfGAP with FG repeats 2 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 342908 | zinc finger protein 404 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 345462 | zinc finger protein 879 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 3486 | insulin-like growth factor binding protein 3 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 3643 | insulin receptor |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 376940 | zinc finger CCCH-type containing 6 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 378925 | ring finger protein 148 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 388536 | zinc finger protein 790 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 388558 | zinc finger protein 808 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 388567 | zinc finger protein 749 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 388591 | ring finger protein 207 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 389058 | Sp5 transcription factor |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 390667 | pentraxin 4, long |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 3983 | actin binding LIM protein 1 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 4005 | LIM domain only 2 (rhombotin-like 1) |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 4007 | prickle homolog 3 (Drosophila) |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 400713 | zinc finger protein 880 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 4008 | LIM domain 7 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 4015 | lysyl oxidase |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 412 | steroid sulfatase (microsomal), isozyme S |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 4151 | myoglobin |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 4194 | Mdm4 p53 binding protein homolog (mouse) |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 4306 | nuclear receptor subfamily 3, group C, member 2 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 4316 | matrix metallopeptidase 7 (matrilysin, uterine) |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 4638 | myosin light chain kinase |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 48 | aconitase 1, soluble |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 4842 | nitric oxide synthase 1 (neuronal) |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 4929 | nuclear receptor subfamily 4, group A, member 2 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 493 | ATPase, Ca++ transporting, plasma membrane 4 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 5053 | phenylalanine hydroxylase |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 5063 | p21 protein (Cdc42/Rac)-activated kinase 3 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 5066 | peptidylglycine alpha-amidating monooxygenase |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 5071 | Parkinson disease (autosomal recessive, juvenile) 2, parkin |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 51274 | Kruppel-like factor 3 (basic) |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 5136 | phosphodiesterase 1A, calmodulin-dependent |

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|---|---|---|---|---|---|---|
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 5152 | phosphodiesterase 9A |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 51523 | CXXC finger 5 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 5158 | phosphodiesterase 6B, cGMP-specific, rod, beta |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 51621 | Kruppel-like factor 13 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 51710 | zinc finger protein 44 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 5325 | pleiomorphic adenoma gene-like 1 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 5351 | procollagen-lysine 1, 2-oxoglutarate 5-dioxygenase 1 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 5371 | promyelocytic leukemia |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 54511 | 3-hydroxymethyl-3-methylglutaryl-Coenzyme A lyase-like 1 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 5465 | peroxisome proliferator-activated receptor alpha |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 54739 | XIAP associated factor 1 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 54877 | zinc finger, CCHC domain containing 2 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 54894 | ring finger protein 43 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 54904 | Wolf-Hirschhorn syndrome candidate 1-like 1 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 55140 | elongation protein 3 homolog (S. cerevisiae) |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 55432 | YOD1 OTU deubiquinating enzyme 1 homolog (S. cerevisiae) |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 55616 | ArfGAP with SH3 domain, ankyrin repeat and PH domain 3 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 55657 | zinc finger protein 692 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 55693 | lysine (K)-specific demethylase 4D |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 55762 | zinc finger protein 701 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 55769 | zinc finger protein 83 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 55799 | calcium channel, voltage-dependent, alpha 2/delta subunit 3 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 55870 | ash1 (absent, small, or homeotic)-like (Drosophila) |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 55893 | zinc finger protein 395 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 56547 | matrix metallopeptidase 26 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 56913 | core 1 synthase, glycoprotein-N-acetylgalactosamine 3-beta-galactosyl |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 56978 | PR domain containing 8 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 57094 | carboxypeptidase A6 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 57379 | activation-induced cytidine deaminase |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 5742 | prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase a |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 57459 | GATA zinc finger domain containing 2B |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 57494 | ribosomal modification protein rimK-like family member B |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 57643 | zinc finger, SWIM-type containing 5 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 59344 | arachidonate lipoxygenase 3 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 604 | B-cell CLL/lymphoma 6 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 6096 | RAR-related orphan receptor B |

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| GO | metal ion binding | 213 | 2658 | 0.0060111 | 6097 | RAR-related orphan receptor C |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 6239 | ras responsive element binding protein 1 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 6256 | retinoid X receptor, alpha |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 64135 | interferon induced with helicase C domain 1 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 687 | Kruppel-like factor 9 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 6916 | thromboxane A synthase 1 (platelet) |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 6941 | transcription factor 19 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 7026 | nuclear receptor subfamily 2, group F, member 2 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 7071 | Kruppel-like factor 10 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 7076 | TIMP metallopeptidase inhibitor 1 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 7227 | trichorhinophalangeal syndrome I |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 7404 | ubiquitously transcribed tetratricopeptide repeat gene, Y-linked |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 7538 | zinc finger protein 36, C3H type, homolog (mouse) |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 7546 | Zic family member 2 (odd-paired homolog, Drosophila) |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 7565 | zinc finger protein 17 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 7597 | zinc finger and BTB domain containing 25 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 760 | carbonic anhydrase II |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 7678 | zinc finger protein 124 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 7706 | tripartite motif-containing 25 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 771 | carbonic anhydrase XII |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 79132 | DEXH (Asp-Glu-X-His) box polypeptide 58 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 79152 | fatty acid 2-hydroxylase |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 79444 | baculoviral IAP repeat-containing 7 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 79673 | zinc finger protein 329 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 79689 | STEAP family member 4 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 79872 | Cas-Br-M (murine) ecotropic retroviral transforming sequence-like 1 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 79894 | zinc finger protein 672 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 79956 | endoplasmic reticulum metallopeptidase 1 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 8013 | nuclear receptor subfamily 4, group A, member 3 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 81603 | tripartite motif-containing 8 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 81844 | tripartite motif-containing 56 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 83593 | Ras association (RalGDS/AF-6) domain family member 5 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 84033 | obscurin, cytoskeletal calmodulin and titin-interacting RhoGEF |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 84124 | zinc finger protein 394 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 84171 | lysyl oxidase-like 4 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 8462 | Kruppel-like factor 11 |

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|---|---|---|---|---|---|---|
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 84858 | zinc finger protein 503 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 84911 | zinc finger protein 382 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 8527 | diacylglycerol kinase, delta 130kDa |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 85416 | Zic family member 5 (odd-paired homolog, Drosophila) |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 8543 | LIM domain only 4 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 85441 | peroxisomal proliferator-activated receptor A interacting complex 285 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 862 | runt-related transcription factor 1; translocated to, 1 (cyclin D-related) |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 8622 | phosphodiesterase 8B |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 8751 | ADAM metallopeptidase domain 15 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 8796 | sciellin |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 89870 | tripartite motif-containing 15 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 90592 | zinc finger protein 700 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 91 | activin A receptor, type IB |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 92283 | zinc finger protein 461 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 92822 | zinc finger protein 276 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 9314 | Kruppel-like factor 4 (gut) |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 93349 | SP140 nuclear body protein-like |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 93589 | calcium channel, voltage-dependent, alpha 2/delta subunit 4 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 94 | activin A receptor type II-like 1 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 94059 | leukocyte receptor cluster (LRC) member 9 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 9422 | zinc finger protein 264 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 9510 | ADAM metallopeptidase with thrombospondin type 1 motif, 1 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 9572 | nuclear receptor subfamily 1, group D, member 1 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 9615 | guanine deaminase |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 9633 | metallothionein-like 5, testis-specific (tesmin) |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 9914 | ATPase, Ca++ transporting, type 2C, member 2 |
| GO | metal ion binding | 213 | 2658 | 0.0060111 | 9971 | nuclear receptor subfamily 1, group H, member 4 |
| GO | sarcolemma | 10 | 59 | 0.0062544 | 112 | adenylate cyclase 6 |
| GO | sarcolemma | 10 | 59 | 0.0062544 | 1508 | cathepsin B |
| GO | sarcolemma | 10 | 59 | 0.0062544 | 154 | adrenergic, beta-2-, receptor, surface |
| GO | sarcolemma | 10 | 59 | 0.0062544 | 240 | arachidonate 5-lipoxygenase |
| GO | sarcolemma | 10 | 59 | 0.0062544 | 358 | aquaporin 1 (Colton blood group) |
| GO | sarcolemma | 10 | 59 | 0.0062544 | 4842 | nitric oxide synthase 1 (neuronal) |
| GO | sarcolemma | 10 | 59 | 0.0062544 | 5239 | phosphoglucomutase 5 |
| GO | sarcolemma | 10 | 59 | 0.0062544 | 682 | basigin (Ok blood group) |
| GO | sarcolemma | 10 | 59 | 0.0062544 | 783 | calcium channel, voltage-dependent, beta 2 subunit |

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|---|---|---|---|---|---|---|
| GO | sarcolemma | 10 | 59 | 0.0062544 | 8082 | sarcospan (Kras oncogene-associated gene) |
| GO | positive regulation of apoptosis | 15 | 108 | 0.0066353 | 10628 | thioredoxin interacting protein |
| GO | positive regulation of apoptosis | 15 | 108 | 0.0066353 | 154 | adrenergic, beta-2-, receptor, surface |
| GO | positive regulation of apoptosis | 15 | 108 | 0.0066353 | 1785 | dynamin 2 |
| GO | positive regulation of apoptosis | 15 | 108 | 0.0066353 | 183 | angiotensinogen (serpin peptidase inhibitor, clade A, member 8) |
| GO | positive regulation of apoptosis | 15 | 108 | 0.0066353 | 1843 | dual specificity phosphatase 1 |
| GO | positive regulation of apoptosis | 15 | 108 | 0.0066353 | 3486 | insulin-like growth factor binding protein 3 |
| GO | positive regulation of apoptosis | 15 | 108 | 0.0066353 | 3827 | kininogen 1 |
| GO | positive regulation of apoptosis | 15 | 108 | 0.0066353 | 4851 | Notch homolog 1, translocation-associated (Drosophila) |
| GO | positive regulation of apoptosis | 15 | 108 | 0.0066353 | 5608 | mitogen-activated protein kinase kinase 6 |
| GO | positive regulation of apoptosis | 15 | 108 | 0.0066353 | 604 | B-cell CLL/lymphoma 6 |
| GO | positive regulation of apoptosis | 15 | 108 | 0.0066353 | 6256 | retinoid X receptor, alpha |
| GO | positive regulation of apoptosis | 15 | 108 | 0.0066353 | 652 | bone morphogenetic protein 4 |
| GO | positive regulation of apoptosis | 15 | 108 | 0.0066353 | 7099 | toll-like receptor 4 |
| GO | positive regulation of apoptosis | 15 | 108 | 0.0066353 | 85477 | scinderin |
| GO | positive regulation of apoptosis | 15 | 108 | 0.0066353 | 885 | cholecystokinin |
| GO | cell-cell signaling | 27 | 238 | 0.0066554 | 10253 | sprouty homolog 2 (Drosophila) |
| GO | cell-cell signaling | 27 | 238 | 0.0066554 | 10288 | leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITI |
| GO | cell-cell signaling | 27 | 238 | 0.0066554 | 183 | angiotensinogen (serpin peptidase inhibitor, clade A, member 8) |
| GO | cell-cell signaling | 27 | 238 | 0.0066554 | 1906 | endothelin 1 |
| GO | cell-cell signaling | 27 | 238 | 0.0066554 | 1948 | ephrin-B2 |
| GO | cell-cell signaling | 27 | 238 | 0.0066554 | 23418 | crumbs homolog 1 (Drosophila) |
| GO | cell-cell signaling | 27 | 238 | 0.0066554 | 26281 | fibroblast growth factor 20 |
| GO | cell-cell signaling | 27 | 238 | 0.0066554 | 2706 | gap junction protein, beta 2, 26kDa |
| GO | cell-cell signaling | 27 | 238 | 0.0066554 | 3689 | integrin, beta 2 (complement component 3 receptor 3 and 4 subunit) |
| GO | cell-cell signaling | 27 | 238 | 0.0066554 | 4680 | carcinoembryonic antigen-related cell adhesion molecule 6 (non-specif |
| GO | cell-cell signaling | 27 | 238 | 0.0066554 | 5122 | proprotein convertase subtilisin/kexin type 1 |
| GO | cell-cell signaling | 27 | 238 | 0.0066554 | 54361 | wingless-type MMTV integration site family, member 4 |
| GO | cell-cell signaling | 27 | 238 | 0.0066554 | 55870 | ash1 (absent, small, or homeotic)-like (Drosophila) |
| GO | cell-cell signaling | 27 | 238 | 0.0066554 | 56923 | neuromedin U receptor 2 |
| GO | cell-cell signaling | 27 | 238 | 0.0066554 | 6372 | chemokine (C-X-C motif) ligand 6 (granulocyte chemotactic protein 2) |
| GO | cell-cell signaling | 27 | 238 | 0.0066554 | 6374 | chemokine (C-X-C motif) ligand 5 |
| GO | cell-cell signaling | 27 | 238 | 0.0066554 | 6750 | somatostatin |
| GO | cell-cell signaling | 27 | 238 | 0.0066554 | 6751 | somatostatin receptor 1 |
| GO | cell-cell signaling | 27 | 238 | 0.0066554 | 684 | bone marrow stromal cell antigen 2 |
| GO | cell-cell signaling | 27 | 238 | 0.0066554 | 7022 | transcription factor AP-2 gamma (activating enhancer binding protein |

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| GO | cell-cell signaling | 27 | 238 | 0.0066554 | 7071 | Kruppel-like factor 10 |
| GO | cell-cell signaling | 27 | 238 | 0.0066554 | 7477 | wingless-type MMTV integration site family, member 7B |
| GO | cell-cell signaling | 27 | 238 | 0.0066554 | 7869 | sema domain, immunoglobulin domain (Ig), short basic domain, secret |
| GO | cell-cell signaling | 27 | 238 | 0.0066554 | 8744 | tumor necrosis factor (ligand) superfamily, member 9 |
| GO | cell-cell signaling | 27 | 238 | 0.0066554 | 8839 | WNT1 inducible signaling pathway protein 2 |
| GO | cell-cell signaling | 27 | 238 | 0.0066554 | 9019 | myelin protein zero-like 1 |
| GO | cell-cell signaling | 27 | 238 | 0.0066554 | 9518 | growth differentiation factor 15 |
| GO | lung development | 10 | 60 | 0.0070569 | 1080 | cystic fibrosis transmembrane conductance regulator (ATP-binding cas |
| GO | lung development | 10 | 60 | 0.0070569 | 2033 | E1A binding protein p300 |
| GO | lung development | 10 | 60 | 0.0070569 | 2737 | GLI family zinc finger 3 |
| GO | lung development | 10 | 60 | 0.0070569 | 3169 | forkhead box A1 |
| GO | lung development | 10 | 60 | 0.0070569 | 3911 | laminin, alpha 5 |
| GO | lung development | 10 | 60 | 0.0070569 | 4015 | lysyl oxidase |
| GO | lung development | 10 | 60 | 0.0070569 | 4087 | SMAD family member 2 |
| GO | lung development | 10 | 60 | 0.0070569 | 4851 | Notch homolog 1, translocation-associated (Drosophila) |
| GO | lung development | 10 | 60 | 0.0070569 | 5950 | retinol binding protein 4, plasma |
| GO | lung development | 10 | 60 | 0.0070569 | 7474 | wingless-type MMTV integration site family, member 5A |
| GO | response to hypoxia | 18 | 140 | 0.0070871 | 1139 | cholinergic receptor, nicotinic, alpha 7 |
| GO | response to hypoxia | 18 | 140 | 0.0070871 | 1803 | dipeptidyl-peptidase 4 |
| GO | response to hypoxia | 18 | 140 | 0.0070871 | 1906 | endothelin 1 |
| GO | response to hypoxia | 18 | 140 | 0.0070871 | 2033 | E1A binding protein p300 |
| GO | response to hypoxia | 18 | 140 | 0.0070871 | 3709 | inositol 1,4,5-triphosphate receptor, type 2 |
| GO | response to hypoxia | 18 | 140 | 0.0070871 | 4151 | myoglobin |
| GO | response to hypoxia | 18 | 140 | 0.0070871 | 4842 | nitric oxide synthase 1 (neuronal) |
| GO | response to hypoxia | 18 | 140 | 0.0070871 | 4929 | nuclear receptor subfamily 4, group A, member 2 |
| GO | response to hypoxia | 18 | 140 | 0.0070871 | 5327 | plasminogen activator, tissue |
| GO | response to hypoxia | 18 | 140 | 0.0070871 | 5351 | procollagen-lysine 1, 2-oxoglutarate 5-dioxygenase 1 |
| GO | response to hypoxia | 18 | 140 | 0.0070871 | 5371 | promyelocytic leukemia |
| GO | response to hypoxia | 18 | 140 | 0.0070871 | 5465 | peroxisome proliferator-activated receptor alpha |
| GO | response to hypoxia | 18 | 140 | 0.0070871 | 7097 | toll-like receptor 2 |
| GO | response to hypoxia | 18 | 140 | 0.0070871 | 7099 | toll-like receptor 4 |
| GO | response to hypoxia | 18 | 140 | 0.0070871 | 7852 | chemokine (C-X-C motif) receptor 4 |
| GO | response to hypoxia | 18 | 140 | 0.0070871 | 834 | caspase 1, apoptosis-related cysteine peptidase (interleukin 1, beta, co |
| GO | response to hypoxia | 18 | 140 | 0.0070871 | 9021 | suppressor of cytokine signaling 3 |
| GO | response to hypoxia | 18 | 140 | 0.0070871 | 952 | CD38 molecule |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 10346 | tripartite motif-containing 22 |

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|---|---|---|---|---|---|---|
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 10838 | zinc finger protein 275 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 10906 | TRAF-type zinc finger domain containing 1 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 11043 | midline 2 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 11074 | tripartite motif-containing 31 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 11155 | LIM domain binding 3 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 11238 | carbonic anhydrase VB, mitochondrial |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 11279 | Kruppel-like factor 8 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 115196 | zinc finger protein 554 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 116113 | forkhead box P4 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 116984 | ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 2 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 124 | alcohol dehydrogenase 1A (class I), alpha polypeptide |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 125 | alcohol dehydrogenase 1B (class I), beta polypeptide |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 134218 | DnaJ (Hsp40) homolog, subfamily C, member 21 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 135644 | tripartite motif-containing 40 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 1363 | carboxypeptidase E |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 1368 | carboxypeptidase M |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 147694 | zinc finger protein 548 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 147923 | zinc finger protein 420 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 151636 | deltex 3-like (Drosophila) |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 152273 | FYVE, RhoGEF and PH domain containing 5 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 154214 | ring finger protein 217 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 162962 | zinc finger protein 836 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 163050 | zinc finger protein 564 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 163115 | zinc finger protein 781 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 170692 | ADAM metallopeptidase with thrombospondin type 1 motif, 18 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 1821 | dystrophin related protein 2 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 1958 | early growth response 1 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 1959 | early growth response 2 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 1960 | early growth response 3 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 201501 | zinc finger and BTB domain containing 7C |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 2033 | E1A binding protein p300 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 2122 | MDS1 and EVI1 complex locus |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 220441 | ring finger protein 152 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 22807 | IKAROS family zinc finger 2 (Helios) |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 22998 | LIM and calponin homology domains 1 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 23081 | lysine (K)-specific demethylase 4C |

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|---|---|---|---|---|---|---|
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 23099 | zinc finger and BTB domain containing 43 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 23119 | hypermethylated in cancer 2 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 23338 | PHD finger protein 15 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 23650 | tripartite motif-containing 29 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 23774 | bromodomain containing 1 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 2521 | fused in sarcoma |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 255488 | ring finger protein 144B |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 256051 | zinc finger protein 549 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 25862 | ubiquitin specific peptidase 49 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 25946 | zinc finger protein 385A |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 2624 | GATA binding protein 2 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 26468 | LIM homeobox 6 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 27246 | ring finger protein 115 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 27295 | PDZ and LIM domain 3 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 2737 | GLI family zinc finger 3 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 284346 | zinc finger protein 575 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 29116 | myosin regulatory light chain interacting protein |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 3164 | nuclear receptor subfamily 4, group A, member 1 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 3268 | ArfGAP with FG repeats 2 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 342908 | zinc finger protein 404 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 345462 | zinc finger protein 879 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 376940 | zinc finger CCCH-type containing 6 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 378925 | ring finger protein 148 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 3827 | kininogen 1 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 388536 | zinc finger protein 790 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 388558 | zinc finger protein 808 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 388567 | zinc finger protein 749 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 388591 | ring finger protein 207 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 389058 | Sp5 transcription factor |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 3983 | actin binding LIM protein 1 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 4005 | LIM domain only 2 (rhombotin-like 1) |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 4007 | prickle homolog 3 (Drosophila) |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 400713 | zinc finger protein 880 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 4008 | LIM domain 7 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 4194 | Mdm4 p53 binding protein homolog (mouse) |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 4306 | nuclear receptor subfamily 3, group C, member 2 |

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|---|---|---|---|---|---|---|
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 4316 | matrix metallopeptidase 7 (matrilysin, uterine) |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 4929 | nuclear receptor subfamily 4, group A, member 2 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 5025 | purinergic receptor P2X, ligand-gated ion channel, 4 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 5071 | Parkinson disease (autosomal recessive, juvenile) 2, parkin |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 51274 | Kruppel-like factor 3 (basic) |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 51523 | CXXC finger 5 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 51621 | Kruppel-like factor 13 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 51710 | zinc finger protein 44 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 5325 | pleiomorphic adenoma gene-like 1 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 5371 | promyelocytic leukemia |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 5465 | peroxisome proliferator-activated receptor alpha |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 54739 | XIAP associated factor 1 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 54877 | zinc finger, CCHC domain containing 2 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 54894 | ring finger protein 43 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 54904 | Wolf-Hirschhorn syndrome candidate 1-like 1 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 55184 | chromosome 20 open reading frame 12 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 55432 | YOD1 OTU deubiquinating enzyme 1 homolog (S. cerevisiae) |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 55616 | ArfGAP with SH3 domain, ankyrin repeat and PH domain 3 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 55657 | zinc finger protein 692 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 55762 | zinc finger protein 701 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 55769 | zinc finger protein 83 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 55870 | ash1 (absent, small, or homeotic)-like (Drosophila) |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 55893 | zinc finger protein 395 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 56547 | matrix metallopeptidase 26 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 56978 | PR domain containing 8 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 57094 | carboxypeptidase A6 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 57379 | activation-induced cytidine deaminase |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 57459 | GATA zinc finger domain containing 2B |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 57643 | zinc finger, SWIM-type containing 5 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 604 | B-cell CLL/lymphoma 6 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 6096 | RAR-related orphan receptor B |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 6097 | RAR-related orphan receptor C |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 6239 | ras responsive element binding protein 1 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 6256 | retinoid X receptor, alpha |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 64135 | interferon induced with helicase C domain 1 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 6622 | synuclein, alpha (non A4 component of amyloid precursor) |

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|---|---|---|---|---|---|---|
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 687 | Kruppel-like factor 9 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 6941 | transcription factor 19 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 7026 | nuclear receptor subfamily 2, group F, member 2 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 7071 | Kruppel-like factor 10 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 7092 | tolloid-like 1 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 7227 | trichorhinophalangeal syndrome I |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 7538 | zinc finger protein 36, C3H type, homolog (mouse) |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 7546 | Zic family member 2 (odd-paired homolog, Drosophila) |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 7565 | zinc finger protein 17 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 7597 | zinc finger and BTB domain containing 25 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 760 | carbonic anhydrase II |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 7678 | zinc finger protein 124 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 7706 | tripartite motif-containing 25 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 771 | carbonic anhydrase XII |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 79132 | DEXH (Asp-Glu-X-His) box polypeptide 58 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 79444 | baculoviral IAP repeat-containing 7 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 79661 | nei endonuclease VIII-like 1 (E. coli) |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 79673 | zinc finger protein 329 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 79872 | Cas-Br-M (murine) ecotropic retroviral transforming sequence-like 1 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 79894 | zinc finger protein 672 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 8013 | nuclear receptor subfamily 4, group A, member 3 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 81603 | tripartite motif-containing 8 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 81844 | tripartite motif-containing 56 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 84124 | zinc finger protein 394 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 8462 | Kruppel-like factor 11 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 84858 | zinc finger protein 503 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 84911 | zinc finger protein 382 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 85416 | Zic family member 5 (odd-paired homolog, Drosophila) |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 8543 | LIM domain only 4 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 85441 | peroxisomal proliferator-activated receptor A interacting complex 285 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 862 | runt-related transcription factor 1; translocated to, 1 (cyclin D-related) |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 8751 | ADAM metallopeptidase domain 15 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 8796 | sciellin |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 89870 | tripartite motif-containing 15 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 90592 | zinc finger protein 700 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 92283 | zinc finger protein 461 |

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|---|---|---|---|---|---|---|
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 92822 | zinc finger protein 276 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 9314 | Kruppel-like factor 4 (gut) |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 93349 | SP140 nuclear body protein-like |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 94059 | leukocyte receptor cluster (LRC) member 9 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 9422 | zinc finger protein 264 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 9510 | ADAM metallopeptidase with thrombospondin type 1 motif, 1 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 9572 | nuclear receptor subfamily 1, group D, member 1 |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 9615 | guanine deaminase |
| GO | zinc ion binding | 154 | 1867 | 0.0071938 | 9971 | nuclear receptor subfamily 1, group H, member 4 |
| GO | B cell differentiation | 7 | 34 | 0.0072127 | 10014 | histone deacetylase 5 |
| GO | B cell differentiation | 7 | 34 | 0.0072127 | 23529 | cardiotrophin-like cytokine factor 1 |
| GO | B cell differentiation | 7 | 34 | 0.0072127 | 29760 | B-cell linker |
| GO | B cell differentiation | 7 | 34 | 0.0072127 | 3175 | one cut homeobox 1 |
| GO | B cell differentiation | 7 | 34 | 0.0072127 | 57379 | activation-induced cytidine deaminase |
| GO | B cell differentiation | 7 | 34 | 0.0072127 | 604 | B-cell CLL/lymphoma 6 |
| GO | B cell differentiation | 7 | 34 | 0.0072127 | 9734 | histone deacetylase 9 |
| GO | palate development | 7 | 34 | 0.0072127 | 4087 | SMAD family member 2 |
| GO | palate development | 7 | 34 | 0.0072127 | 4223 | mesenchyme homeobox 2 |
| GO | palate development | 7 | 34 | 0.0072127 | 5396 | paired related homeobox 1 |
| GO | palate development | 7 | 34 | 0.0072127 | 64651 | cysteine-serine-rich nuclear protein 1 |
| GO | palate development | 7 | 34 | 0.0072127 | 7049 | transforming growth factor, beta receptor III |
| GO | palate development | 7 | 34 | 0.0072127 | 84159 | AT rich interactive domain 5B (MRF1-like) |
| GO | palate development | 7 | 34 | 0.0072127 | 91461 | protein kinase domain containing, cytoplasmic homolog (mouse) |
| GO | protein amino acid dephosphorylatio | 16 | 120 | 0.0076423 | 10076 | protein tyrosine phosphatase, receptor type, U |
| GO | protein amino acid dephosphorylatio | 16 | 120 | 0.0076423 | 10106 | CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) sma |
| GO | protein amino acid dephosphorylatio | 16 | 120 | 0.0076423 | 11156 | protein tyrosine phosphatase type IVA, member 3 |
| GO | protein amino acid dephosphorylatio | 16 | 120 | 0.0076423 | 1843 | dual specificity phosphatase 1 |
| GO | protein amino acid dephosphorylatio | 16 | 120 | 0.0076423 | 1844 | dual specificity phosphatase 2 |
| GO | protein amino acid dephosphorylatio | 16 | 120 | 0.0076423 | 1847 | dual specificity phosphatase 5 |
| GO | protein amino acid dephosphorylatio | 16 | 120 | 0.0076423 | 26191 | protein tyrosine phosphatase, non-receptor type 22 (lymphoid) |
| GO | protein amino acid dephosphorylatio | 16 | 120 | 0.0076423 | 54961 | slingshot homolog 3 (Drosophila) |
| GO | protein amino acid dephosphorylatio | 16 | 120 | 0.0076423 | 5774 | protein tyrosine phosphatase, non-receptor type 3 |
| GO | protein amino acid dephosphorylatio | 16 | 120 | 0.0076423 | 5787 | protein tyrosine phosphatase, receptor type, B |
| GO | protein amino acid dephosphorylatio | 16 | 120 | 0.0076423 | 5789 | protein tyrosine phosphatase, receptor type, D |
| GO | protein amino acid dephosphorylatio | 16 | 120 | 0.0076423 | 5791 | protein tyrosine phosphatase, receptor type, E |
| GO | protein amino acid dephosphorylatio | 16 | 120 | 0.0076423 | 5794 | protein tyrosine phosphatase, receptor type, H |

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| GO | protein amino acid dephosphorylatio | 16 | 120 | 0.0076423 | 5799 | protein tyrosine phosphatase, receptor type, N polypeptide 2 |
| GO | protein amino acid dephosphorylatio | 16 | 120 | 0.0076423 | 5801 | protein tyrosine phosphatase, receptor type, R |
| GO | protein amino acid dephosphorylatio | 16 | 120 | 0.0076423 | 8556 | CDC14 cell division cycle 14 homolog A (S. cerevisiae) |
| GO | leukotriene biosynthetic process | 5 | 19 | 0.0076729 | 2205 | Fc fragment of IgE, high affinity I, receptor for; alpha polypeptide |
| GO | leukotriene biosynthetic process | 5 | 19 | 0.0076729 | 240 | arachidonate 5-lipoxygenase |
| GO | leukotriene biosynthetic process | 5 | 19 | 0.0076729 | 4056 | leukotriene C4 synthase |
| GO | leukotriene biosynthetic process | 5 | 19 | 0.0076729 | 59344 | arachidonate lipoxygenase 3 |
| GO | leukotriene biosynthetic process | 5 | 19 | 0.0076729 | 6850 | spleen tyrosine kinase |
| GO | insulin-like growth factor binding | 5 | 19 | 0.0076729 | 3484 | insulin-like growth factor binding protein 1 |
| GO | insulin-like growth factor binding | 5 | 19 | 0.0076729 | 3486 | insulin-like growth factor binding protein 3 |
| GO | insulin-like growth factor binding | 5 | 19 | 0.0076729 | 3491 | cysteine-rich, angiogenic inducer, 61 |
| GO | insulin-like growth factor binding | 5 | 19 | 0.0076729 | 4856 | nephroblastoma overexpressed gene |
| GO | insulin-like growth factor binding | 5 | 19 | 0.0076729 | 8839 | WNT1 inducible signaling pathway protein 2 |
| GO | response to estradiol stimulus | 10 | 61 | 0.0079369 | 10568 | solute carrier family 34 (sodium phosphate), member 2 |
| GO | response to estradiol stimulus | 10 | 61 | 0.0079369 | 10628 | thioredoxin interacting protein |
| GO | response to estradiol stimulus | 10 | 61 | 0.0079369 | 1843 | dual specificity phosphatase 1 |
| GO | response to estradiol stimulus | 10 | 61 | 0.0079369 | 2026 | enolase 2 (gamma, neuronal) |
| GO | response to estradiol stimulus | 10 | 61 | 0.0079369 | 3169 | forkhead box A1 |
| GO | response to estradiol stimulus | 10 | 61 | 0.0079369 | 3643 | insulin receptor |
| GO | response to estradiol stimulus | 10 | 61 | 0.0079369 | 4886 | neuropeptide Y receptor Y1 |
| GO | response to estradiol stimulus | 10 | 61 | 0.0079369 | 652 | bone morphogenetic protein 4 |
| GO | response to estradiol stimulus | 10 | 61 | 0.0079369 | 9021 | suppressor of cytokine signaling 3 |
| GO | response to estradiol stimulus | 10 | 61 | 0.0079369 | 952 | CD38 molecule |
| GO | basement membrane | 10 | 61 | 0.0079369 | 1295 | collagen, type VIII, alpha 1 |
| GO | basement membrane | 10 | 61 | 0.0079369 | 2200 | fibrillin 1 |
| GO | basement membrane | 10 | 61 | 0.0079369 | 22795 | nidogen 2 (osteonidogen) |
| GO | basement membrane | 10 | 61 | 0.0079369 | 30008 | EGF-containing fibulin-like extracellular matrix protein 2 |
| GO | basement membrane | 10 | 61 | 0.0079369 | 3911 | laminin, alpha 5 |
| GO | basement membrane | 10 | 61 | 0.0079369 | 3913 | laminin, beta 2 (laminin S) |
| GO | basement membrane | 10 | 61 | 0.0079369 | 3914 | laminin, beta 3 |
| GO | basement membrane | 10 | 61 | 0.0079369 | 64093 | SPARC related modular calcium binding 1 |
| GO | basement membrane | 10 | 61 | 0.0079369 | 83872 | hemicentin 1 |
| GO | basement membrane | 10 | 61 | 0.0079369 | 9510 | ADAM metallopeptidase with thrombospondin type 1 motif, 1 |
| GO | kidney development | 10 | 61 | 0.0079369 | 183 | angiotensinogen (serpin peptidase inhibitor, clade A, member 8) |
| GO | kidney development | 10 | 61 | 0.0079369 | 2200 | fibrillin 1 |
| GO | kidney development | 10 | 61 | 0.0079369 | 2296 | forkhead box C1 |

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|---|---|---|---|---|---|---|
| GO | kidney development | 10 | 61 | 0.0079369 | 255738 | proprotein convertase subtilisin/kexin type 9 |
| GO | kidney development | 10 | 61 | 0.0079369 | 56913 | core 1 synthase, glycoprotein-N-acetylgalactosamine 3-beta-galactosyl |
| GO | kidney development | 10 | 61 | 0.0079369 | 5972 | renin |
| GO | kidney development | 10 | 61 | 0.0079369 | 652 | bone morphogenetic protein 4 |
| GO | kidney development | 10 | 61 | 0.0079369 | 760 | carbonic anhydrase II |
| GO | kidney development | 10 | 61 | 0.0079369 | 84159 | AT rich interactive domain 5B (MRF1-like) |
| GO | kidney development | 10 | 61 | 0.0079369 | 9510 | ADAM metallopeptidase with thrombospondin type 1 motif, 1 |
| GO | positive regulation of cell proliferatio | 31 | 290 | 0.0089975 | 10312 | T-cell, immune regulator 1, ATPase, H+ transporting, lysosomal V0 sub |
| GO | positive regulation of cell proliferatio | 31 | 290 | 0.0089975 | 1139 | cholinergic receptor, nicotinic, alpha 7 |
| GO | positive regulation of cell proliferatio | 31 | 290 | 0.0089975 | 1435 | colony stimulating factor 1 (macrophage) |
| GO | positive regulation of cell proliferatio | 31 | 290 | 0.0089975 | 154 | adrenergic, beta-2-, receptor, surface |
| GO | positive regulation of cell proliferatio | 31 | 290 | 0.0089975 | 1803 | dipeptidyl-peptidase 4 |
| GO | positive regulation of cell proliferatio | 31 | 290 | 0.0089975 | 1906 | endothelin 1 |
| GO | positive regulation of cell proliferatio | 31 | 290 | 0.0089975 | 2263 | fibroblast growth factor receptor 2 |
| GO | positive regulation of cell proliferatio | 31 | 290 | 0.0089975 | 26281 | fibroblast growth factor 20 |
| GO | positive regulation of cell proliferatio | 31 | 290 | 0.0089975 | 27035 | NADPH oxidase 1 |
| GO | positive regulation of cell proliferatio | 31 | 290 | 0.0089975 | 28996 | homeodomain interacting protein kinase 2 |
| GO | positive regulation of cell proliferatio | 31 | 290 | 0.0089975 | 3142 | H2.0-like homeobox |
| GO | positive regulation of cell proliferatio | 31 | 290 | 0.0089975 | 3400 | inhibitor of DNA binding 4, dominant negative helix-loop-helix protein |
| GO | positive regulation of cell proliferatio | 31 | 290 | 0.0089975 | 3479 | insulin-like growth factor 1 (somatomedin C) |
| GO | positive regulation of cell proliferatio | 31 | 290 | 0.0089975 | 3569 | interleukin 6 (interferon, beta 2) |
| GO | positive regulation of cell proliferatio | 31 | 290 | 0.0089975 | 3570 | interleukin 6 receptor |
| GO | positive regulation of cell proliferatio | 31 | 290 | 0.0089975 | 3643 | insulin receptor |
| GO | positive regulation of cell proliferatio | 31 | 290 | 0.0089975 | 3815 | v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog |
| GO | positive regulation of cell proliferatio | 31 | 290 | 0.0089975 | 3845 | v-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog |
| GO | positive regulation of cell proliferatio | 31 | 290 | 0.0089975 | 412 | steroid sulfatase (microsomal), isozyme S |
| GO | positive regulation of cell proliferatio | 31 | 290 | 0.0089975 | 4194 | Mdm4 p53 binding protein homolog (mouse) |
| GO | positive regulation of cell proliferatio | 31 | 290 | 0.0089975 | 4254 | KIT ligand |
| GO | positive regulation of cell proliferatio | 31 | 290 | 0.0089975 | 4486 | macrophage stimulating 1 receptor (c-met-related tyrosine kinase) |
| GO | positive regulation of cell proliferatio | 31 | 290 | 0.0089975 | 467 | activating transcription factor 3 |
| GO | positive regulation of cell proliferatio | 31 | 290 | 0.0089975 | 4851 | Notch homolog 1, translocation-associated (Drosophila) |
| GO | positive regulation of cell proliferatio | 31 | 290 | 0.0089975 | 51085 | MLX interacting protein-like |
| GO | positive regulation of cell proliferatio | 31 | 290 | 0.0089975 | 6374 | chemokine (C-X-C motif) ligand 5 |
| GO | positive regulation of cell proliferatio | 31 | 290 | 0.0089975 | 6489 | ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 1 |
| GO | positive regulation of cell proliferatio | 31 | 290 | 0.0089975 | 7076 | TIMP metallopeptidase inhibitor 1 |
| GO | positive regulation of cell proliferatio | 31 | 290 | 0.0089975 | 8660 | insulin receptor substrate 2 |

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|---|---|---|---|---|---|---|
| GO | positive regulation of cell proliferatio | 31 | 290 | 0.0089975 | 885 | cholecystokinin |
| GO | positive regulation of cell proliferatio | 31 | 290 | 0.0089975 | 961 | CD47 molecule |
| GO | transmembrane receptor protein tyr | 3 | 7 | 0.0090491 | 10076 | protein tyrosine phosphatase, receptor type, U |
| GO | transmembrane receptor protein tyr | 3 | 7 | 0.0090491 | 5789 | protein tyrosine phosphatase, receptor type, D |
| GO | transmembrane receptor protein tyr | 3 | 7 | 0.0090491 | 5791 | protein tyrosine phosphatase, receptor type, E |
| GO | negative regulation of smooth muscl | 3 | 7 | 0.0090491 | 10221 | tribbles homolog 1 (Drosophila) |
| GO | negative regulation of smooth muscl | 3 | 7 | 0.0090491 | 3486 | insulin-like growth factor binding protein 3 |
| GO | negative regulation of smooth muscl | 3 | 7 | 0.0090491 | 3488 | insulin-like growth factor binding protein 5 |
| GO | GTP-Rho binding | 3 | 7 | 0.0090491 | 10435 | CDC42 effector protein (Rho GTPase binding) 2 |
| GO | GTP-Rho binding | 3 | 7 | 0.0090491 | 11078 | TRIO and F-actin binding protein |
| GO | GTP-Rho binding | 3 | 7 | 0.0090491 | 148170 | CDC42 effector protein (Rho GTPase binding) 5 |
| GO | positive regulation of pseudopodium | 3 | 7 | 0.0090491 | 10435 | CDC42 effector protein (Rho GTPase binding) 2 |
| GO | positive regulation of pseudopodium | 3 | 7 | 0.0090491 | 148170 | CDC42 effector protein (Rho GTPase binding) 5 |
| GO | positive regulation of pseudopodium | 3 | 7 | 0.0090491 | 3815 | v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog |
| GO | P granule | 3 | 7 | 0.0090491 | 143689 | piwi-like 4 (Drosophila) |
| GO | P granule | 3 | 7 | 0.0090491 | 55124 | piwi-like 2 (Drosophila) |
| GO | P granule | 3 | 7 | 0.0090491 | 9271 | piwi-like 1 (Drosophila) |
| GO | piRNA metabolic process | 3 | 7 | 0.0090491 | 143689 | piwi-like 4 (Drosophila) |
| GO | piRNA metabolic process | 3 | 7 | 0.0090491 | 55124 | piwi-like 2 (Drosophila) |
| GO | piRNA metabolic process | 3 | 7 | 0.0090491 | 9271 | piwi-like 1 (Drosophila) |
| GO | natriuresis | 3 | 7 | 0.0090491 | 1813 | dopamine receptor D2 |
| GO | natriuresis | 3 | 7 | 0.0090491 | 1906 | endothelin 1 |
| GO | natriuresis | 3 | 7 | 0.0090491 | 3827 | kininogen 1 |
| GO | drinking behavior | 3 | 7 | 0.0090491 | 183 | angiotensinogen (serpin peptidase inhibitor, clade A, member 8) |
| GO | drinking behavior | 3 | 7 | 0.0090491 | 5367 | pro-melanin-concentrating hormone |
| GO | drinking behavior | 3 | 7 | 0.0090491 | 5972 | renin |
| GO | regulation of organ growth | 3 | 7 | 0.0090491 | 2296 | forkhead box C1 |
| GO | regulation of organ growth | 3 | 7 | 0.0090491 | 2303 | forkhead box C2 (MFH-1, mesenchyme forkhead 1) |
| GO | regulation of organ growth | 3 | 7 | 0.0090491 | 28982 | feline leukemia virus subgroup C cellular receptor 1 |
| GO | neurotransmitter biosynthetic proces | 3 | 7 | 0.0090491 | 2571 | glutamate decarboxylase 1 (brain, 67kDa) |
| GO | neurotransmitter biosynthetic proces | 3 | 7 | 0.0090491 | 4842 | nitric oxide synthase 1 (neuronal) |
| GO | neurotransmitter biosynthetic proces | 3 | 7 | 0.0090491 | 5053 | phenylalanine hydroxylase |
| GO | positive regulation of glycolysis | 3 | 7 | 0.0090491 | 3479 | insulin-like growth factor 1 (somatomedin C) |
| GO | positive regulation of glycolysis | 3 | 7 | 0.0090491 | 3643 | insulin receptor |
| GO | positive regulation of glycolysis | 3 | 7 | 0.0090491 | 51085 | MLX interacting protein-like |
| GO | osteoclast differentiation | 3 | 7 | 0.0090491 | 3726 | jun B proto-oncogene |

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| GO | osteoclast differentiation | 3 | 7 | 0.0090491 | 799 | calcitonin receptor |
| GO | osteoclast differentiation | 3 | 7 | 0.0090491 | 8600 | tumor necrosis factor (ligand) superfamily, member 11 |
| GO | positive regulation of fatty acid beta- | 3 | 7 | 0.0090491 | 51703 | acyl-CoA synthetase long-chain family member 5 |
| GO | positive regulation of fatty acid beta- | 3 | 7 | 0.0090491 | 5465 | peroxisome proliferator-activated receptor alpha |
| GO | positive regulation of fatty acid beta- | 3 | 7 | 0.0090491 | 8660 | insulin receptor substrate 2 |
| GO | calcium-activated potassium channel | 4 | 13 | 0.0094275 | 157855 | potassium channel, subfamily U, member 1 |
| GO | calcium-activated potassium channel | 4 | 13 | 0.0094275 | 27345 | potassium large conductance calcium-activated channel, subfamily M, |
| GO | calcium-activated potassium channel | 4 | 13 | 0.0094275 | 343450 | potassium channel, subfamily T, member 2 |
| GO | calcium-activated potassium channel | 4 | 13 | 0.0094275 | 3783 | potassium intermediate/small conductance calcium-activated channel, |
| GO | insulin-like growth factor receptor bi | 4 | 13 | 0.0094275 | 3479 | insulin-like growth factor 1 (somatomedin C) |
| GO | insulin-like growth factor receptor bi | 4 | 13 | 0.0094275 | 3643 | insulin receptor |
| GO | insulin-like growth factor receptor bi | 4 | 13 | 0.0094275 | 5295 | phosphoinositide-3-kinase, regulatory subunit 1 (alpha) |
| GO | insulin-like growth factor receptor bi | 4 | 13 | 0.0094275 | 5972 | renin |
| GO | inflammatory response | 25 | 222 | 0.0096029 | 10014 | histone deacetylase 5 |
| GO | inflammatory response | 25 | 222 | 0.0096029 | 11343 | monoglyceride lipase |
| GO | inflammatory response | 25 | 222 | 0.0096029 | 1999 | E74-like factor 3 (ets domain transcription factor, epithelial-specific ) |
| GO | inflammatory response | 25 | 222 | 0.0096029 | 2353 | FBJ murine osteosarcoma viral oncogene homolog |
| GO | inflammatory response | 25 | 222 | 0.0096029 | 240 | arachidonate 5-lipoxygenase |
| GO | inflammatory response | 25 | 222 | 0.0096029 | 27035 | NADPH oxidase 1 |
| GO | inflammatory response | 25 | 222 | 0.0096029 | 2921 | chemokine (C-X-C motif) ligand 3 |
| GO | inflammatory response | 25 | 222 | 0.0096029 | 29760 | B-cell linker |
| GO | inflammatory response | 25 | 222 | 0.0096029 | 316 | aldehyde oxidase 1 |
| GO | inflammatory response | 25 | 222 | 0.0096029 | 3569 | interleukin 6 (interferon, beta 2) |
| GO | inflammatory response | 25 | 222 | 0.0096029 | 3689 | integrin, beta 2 (complement component 3 receptor 3 and 4 subunit) |
| GO | inflammatory response | 25 | 222 | 0.0096029 | 3827 | kininogen 1 |
| GO | inflammatory response | 25 | 222 | 0.0096029 | 4065 | lymphocyte antigen 75 |
| GO | inflammatory response | 25 | 222 | 0.0096029 | 5724 | platelet-activating factor receptor |
| GO | inflammatory response | 25 | 222 | 0.0096029 | 6256 | retinoid X receptor, alpha |
| GO | inflammatory response | 25 | 222 | 0.0096029 | 6372 | chemokine (C-X-C motif) ligand 6 (granulocyte chemotactic protein 2) |
| GO | inflammatory response | 25 | 222 | 0.0096029 | 64332 | nuclear factor of kappa light polypeptide gene enhancer in B-cells inhib |
| GO | inflammatory response | 25 | 222 | 0.0096029 | 7100 | toll-like receptor 5 |
| GO | inflammatory response | 25 | 222 | 0.0096029 | 718 | complement component 3 |
| GO | inflammatory response | 25 | 222 | 0.0096029 | 7852 | chemokine (C-X-C motif) receptor 4 |
| GO | inflammatory response | 25 | 222 | 0.0096029 | 7941 | phospholipase A2, group VII (platelet-activating factor acetylhydrolase, |
| GO | inflammatory response | 25 | 222 | 0.0096029 | 80833 | apolipoprotein L, 3 |
| GO | inflammatory response | 25 | 222 | 0.0096029 | 929 | CD14 molecule |

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| GO | inflammatory response | 25 | 222 | 0.0096029 | 9435 | carbohydrate (N-acetylglucosamine-6-O) sulfotransferase 2 |
| GO | inflammatory response | 25 | 222 | 0.0096029 | 9734 | histone deacetylase 9 |
| GO | integral to Golgi membrane | 8 | 45 | 0.0104108 | 166929 | sphingomyelin synthase 2 |
| GO | integral to Golgi membrane | 8 | 45 | 0.0104108 | 27090 | ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1,3)-N-acetylgalact |
| GO | integral to Golgi membrane | 8 | 45 | 0.0104108 | 53947 | alpha 1,4-galactosyltransferase |
| GO | integral to Golgi membrane | 8 | 45 | 0.0104108 | 55808 | ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1,3)-N-acetylgalact |
| GO | integral to Golgi membrane | 8 | 45 | 0.0104108 | 57134 | mannosidase, alpha, class 1C, member 1 |
| GO | integral to Golgi membrane | 8 | 45 | 0.0104108 | 5768 | quiescin Q6 sulfhydryl oxidase 1 |
| GO | integral to Golgi membrane | 8 | 45 | 0.0104108 | 6484 | ST3 beta-galactoside alpha-2,3-sialyltransferase 4 |
| GO | integral to Golgi membrane | 8 | 45 | 0.0104108 | 6489 | ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 1 |
| GO | protein dimerization activity | 12 | 84 | 0.0115402 | 116071 | basic leucine zipper transcription factor, ATF-like 2 |
| GO | protein dimerization activity | 12 | 84 | 0.0115402 | 1628 | D site of albumin promoter (albumin D-box) binding protein |
| GO | protein dimerization activity | 12 | 84 | 0.0115402 | 2354 | FBJ murine osteosarcoma viral oncogene homolog B |
| GO | protein dimerization activity | 12 | 84 | 0.0115402 | 3131 | hepatic leukemia factor |
| GO | protein dimerization activity | 12 | 84 | 0.0115402 | 3726 | jun B proto-oncogene |
| GO | protein dimerization activity | 12 | 84 | 0.0115402 | 467 | activating transcription factor 3 |
| GO | protein dimerization activity | 12 | 84 | 0.0115402 | 4778 | nuclear factor (erythroid-derived 2), 45kDa |
| GO | protein dimerization activity | 12 | 84 | 0.0115402 | 4783 | nuclear factor, interleukin 3 regulated |
| GO | protein dimerization activity | 12 | 84 | 0.0115402 | 7008 | thyrotrophic embryonic factor |
| GO | protein dimerization activity | 12 | 84 | 0.0115402 | 7022 | transcription factor AP-2 gamma (activating enhancer binding protein |
| GO | protein dimerization activity | 12 | 84 | 0.0115402 | 90993 | cAMP responsive element binding protein 3-like 1 |
| GO | protein dimerization activity | 12 | 84 | 0.0115402 | 9619 | ATP-binding cassette, sub-family G (WHITE), member 1 |
| GO | branching morphogenesis of a tube | 5 | 21 | 0.0119847 | 10253 | sprouty homolog 2 (Drosophila) |
| GO | branching morphogenesis of a tube | 5 | 21 | 0.0119847 | 3169 | forkhead box A1 |
| GO | branching morphogenesis of a tube | 5 | 21 | 0.0119847 | 3479 | insulin-like growth factor 1 (somatomedin C) |
| GO | branching morphogenesis of a tube | 5 | 21 | 0.0119847 | 4851 | Notch homolog 1, translocation-associated (Drosophila) |
| GO | branching morphogenesis of a tube | 5 | 21 | 0.0119847 | 652 | bone morphogenetic protein 4 |
| GO | negative regulation of BMP signaling | 5 | 21 | 0.0119847 | 168667 | BMP binding endothelial regulator |
| GO | negative regulation of BMP signaling | 5 | 21 | 0.0119847 | 28996 | homeodomain interacting protein kinase 2 |
| GO | negative regulation of BMP signaling | 5 | 21 | 0.0119847 | 4851 | Notch homolog 1, translocation-associated (Drosophila) |
| GO | negative regulation of BMP signaling | 5 | 21 | 0.0119847 | 7474 | wingless-type MMTV integration site family, member 5A |
| GO | negative regulation of BMP signaling | 5 | 21 | 0.0119847 | 8646 | chordin |
| GO | induction of apoptosis | 20 | 170 | 0.01228 | 10081 | programmed cell death 7 |
| GO | induction of apoptosis | 20 | 170 | 0.01228 | 10116 | fem-1 homolog b (C. elegans) |
| GO | induction of apoptosis | 20 | 170 | 0.01228 | 1612 | death-associated protein kinase 1 |
| GO | induction of apoptosis | 20 | 170 | 0.01228 | 23368 | protein phosphatase 1, regulatory (inhibitor) subunit 13B |

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| GO | induction of apoptosis | 20 | 170 | 0.01228 | 23604 | death-associated protein kinase 2 |
| GO | induction of apoptosis | 20 | 170 | 0.01228 | 255738 | proprotein convertase subtilisin/kexin type 9 |
| GO | induction of apoptosis | 20 | 170 | 0.01228 | 29108 | PYD and CARD domain containing |
| GO | induction of apoptosis | 20 | 170 | 0.01228 | 3164 | nuclear receptor subfamily 4, group A, member 1 |
| GO | induction of apoptosis | 20 | 170 | 0.01228 | 3604 | tumor necrosis factor receptor superfamily, member 9 |
| GO | induction of apoptosis | 20 | 170 | 0.01228 | 4599 | myxovirus (influenza virus) resistance 1, interferon-inducible protein p |
| GO | induction of apoptosis | 20 | 170 | 0.01228 | 4853 | Notch homolog 2 (Drosophila) |
| GO | induction of apoptosis | 20 | 170 | 0.01228 | 5325 | pleiomorphic adenoma gene-like 1 |
| GO | induction of apoptosis | 20 | 170 | 0.01228 | 5371 | promyelocytic leukemia |
| GO | induction of apoptosis | 20 | 170 | 0.01228 | 7097 | toll-like receptor 2 |
| GO | induction of apoptosis | 20 | 170 | 0.01228 | 834 | caspase 1, apoptosis-related cysteine peptidase (interleukin 1, beta, co |
| GO | induction of apoptosis | 20 | 170 | 0.01228 | 837 | caspase 4, apoptosis-related cysteine peptidase |
| GO | induction of apoptosis | 20 | 170 | 0.01228 | 8740 | tumor necrosis factor (ligand) superfamily, member 14 |
| GO | induction of apoptosis | 20 | 170 | 0.01228 | 91 | activin A receptor, type IB |
| GO | induction of apoptosis | 20 | 170 | 0.01228 | 9263 | serine/threonine kinase 17a |
| GO | induction of apoptosis | 20 | 170 | 0.01228 | 9445 | integral membrane protein 2B |
| GO | cell fate commitment | 6 | 29 | 0.0122817 | 10253 | sprouty homolog 2 (Drosophila) |
| GO | cell fate commitment | 6 | 29 | 0.0122817 | 3175 | one cut homeobox 1 |
| GO | cell fate commitment | 6 | 29 | 0.0122817 | 4087 | SMAD family member 2 |
| GO | cell fate commitment | 6 | 29 | 0.0122817 | 4286 | microphthalmia-associated transcription factor |
| GO | cell fate commitment | 6 | 29 | 0.0122817 | 5371 | promyelocytic leukemia |
| GO | cell fate commitment | 6 | 29 | 0.0122817 | 54361 | wingless-type MMTV integration site family, member 4 |
| GO | positive regulation of vasodilation | 4 | 14 | 0.0124949 | 1080 | cystic fibrosis transmembrane conductance regulator (ATP-binding cas |
| GO | positive regulation of vasodilation | 4 | 14 | 0.0124949 | 1373 | carbamoyl-phosphate synthetase 1, mitochondrial |
| GO | positive regulation of vasodilation | 4 | 14 | 0.0124949 | 154 | adrenergic, beta-2-, receptor, surface |
| GO | positive regulation of vasodilation | 4 | 14 | 0.0124949 | 4842 | nitric oxide synthase 1 (neuronal) |
| GO | negative regulation of tumor necrosis | 4 | 14 | 0.0124949 | 11213 | interleukin-1 receptor-associated kinase 3 |
| GO | negative regulation of tumor necrosis | 4 | 14 | 0.0124949 | 1139 | cholinergic receptor, nicotinic, alpha 7 |
| GO | negative regulation of tumor necrosis | 4 | 14 | 0.0124949 | 64127 | nucleotide-binding oligomerization domain containing 2 |
| GO | negative regulation of tumor necrosis | 4 | 14 | 0.0124949 | 7099 | toll-like receptor 4 |
| GO | cytoskeletal adaptor activity | 4 | 14 | 0.0124949 | 23092 | Rho GTPase activating protein 26 |
| GO | cytoskeletal adaptor activity | 4 | 14 | 0.0124949 | 55909 | bridging integrator 3 |
| GO | cytoskeletal adaptor activity | 4 | 14 | 0.0124949 | 80115 | BAI1-associated protein 2-like 2 |
| GO | cytoskeletal adaptor activity | 4 | 14 | 0.0124949 | 9788 | metastasis suppressor 1 |
| GO | complement activation, alternative p | 4 | 14 | 0.0124949 | 629 | complement factor B |
| GO | complement activation, alternative p | 4 | 14 | 0.0124949 | 717 | complement component 2 |

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| GO | complement activation, alternative p | 4 | 14 | 0.0124949 | 718 | complement component 3 |
| GO | complement activation, alternative p | 4 | 14 | 0.0124949 | 731 | complement component 8, alpha polypeptide |
| GO | negative regulation of transcription fr | 25 | 227 | 0.0125139 | 10014 | histone deacetylase 5 |
| GO | negative regulation of transcription fr | 25 | 227 | 0.0125139 | 10628 | thioredoxin interacting protein |
| GO | negative regulation of transcription fr | 25 | 227 | 0.0125139 | 116113 | forkhead box P4 |
| GO | negative regulation of transcription fr | 25 | 227 | 0.0125139 | 127343 | diencephalon/mesencephalon homeobox 1 |
| GO | negative regulation of transcription fr | 25 | 227 | 0.0125139 | 150094 | salt-inducible kinase 1 |
| GO | negative regulation of transcription fr | 25 | 227 | 0.0125139 | 1822 | atrophin 1 |
| GO | negative regulation of transcription fr | 25 | 227 | 0.0125139 | 1958 | early growth response 1 |
| GO | negative regulation of transcription fr | 25 | 227 | 0.0125139 | 2117 | ets variant 3 |
| GO | negative regulation of transcription fr | 25 | 227 | 0.0125139 | 2354 | FBJ murine osteosarcoma viral oncogene homolog B |
| GO | negative regulation of transcription fr | 25 | 227 | 0.0125139 | 2737 | GLI family zinc finger 3 |
| GO | negative regulation of transcription fr | 25 | 227 | 0.0125139 | 28996 | homeodomain interacting protein kinase 2 |
| GO | negative regulation of transcription fr | 25 | 227 | 0.0125139 | 3169 | forkhead box A1 |
| GO | negative regulation of transcription fr | 25 | 227 | 0.0125139 | 3665 | interferon regulatory factor 7 |
| GO | negative regulation of transcription fr | 25 | 227 | 0.0125139 | 4194 | Mdm4 p53 binding protein homolog (mouse) |
| GO | negative regulation of transcription fr | 25 | 227 | 0.0125139 | 4204 | methyl CpG binding protein 2 (Rett syndrome) |
| GO | negative regulation of transcription fr | 25 | 227 | 0.0125139 | 4212 | Meis homeobox 2 |
| GO | negative regulation of transcription fr | 25 | 227 | 0.0125139 | 51085 | MLX interacting protein-like |
| GO | negative regulation of transcription fr | 25 | 227 | 0.0125139 | 5396 | paired related homeobox 1 |
| GO | negative regulation of transcription fr | 25 | 227 | 0.0125139 | 604 | B-cell CLL/lymphoma 6 |
| GO | negative regulation of transcription fr | 25 | 227 | 0.0125139 | 7026 | nuclear receptor subfamily 2, group F, member 2 |
| GO | negative regulation of transcription fr | 25 | 227 | 0.0125139 | 7071 | Kruppel-like factor 10 |
| GO | negative regulation of transcription fr | 25 | 227 | 0.0125139 | 8462 | Kruppel-like factor 11 |
| GO | negative regulation of transcription fr | 25 | 227 | 0.0125139 | 8531 | cold shock domain protein A |
| GO | negative regulation of transcription fr | 25 | 227 | 0.0125139 | 9734 | histone deacetylase 9 |
| GO | negative regulation of transcription fr | 25 | 227 | 0.0125139 | 9971 | nuclear receptor subfamily 1, group H, member 4 |
| GO | transcription activator activity | 25 | 227 | 0.0125139 | 1785 | dynamin 2 |
| GO | transcription activator activity | 25 | 227 | 0.0125139 | 1958 | early growth response 1 |
| GO | transcription activator activity | 25 | 227 | 0.0125139 | 1999 | E74-like factor 3 (ets domain transcription factor, epithelial-specific ) |
| GO | transcription activator activity | 25 | 227 | 0.0125139 | 222546 | regulatory factor X, 6 |
| GO | transcription activator activity | 25 | 227 | 0.0125139 | 22807 | IKAROS family zinc finger 2 (Helios) |
| GO | transcription activator activity | 25 | 227 | 0.0125139 | 2296 | forkhead box C1 |
| GO | transcription activator activity | 25 | 227 | 0.0125139 | 2303 | forkhead box C2 (MFH-1, mesenchyme forkhead 1) |
| GO | transcription activator activity | 25 | 227 | 0.0125139 | 3164 | nuclear receptor subfamily 4, group A, member 1 |
| GO | transcription activator activity | 25 | 227 | 0.0125139 | 3175 | one cut homeobox 1 |

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| GO | transcription activator activity | 25 | 227 | 0.0125139 | 3725 | jun oncogene |
| GO | transcription activator activity | 25 | 227 | 0.0125139 | 4087 | SMAD family member 2 |
| GO | transcription activator activity | 25 | 227 | 0.0125139 | 4209 | myocyte enhancer factor 2D |
| GO | transcription activator activity | 25 | 227 | 0.0125139 | 4286 | microphthalmia-associated transcription factor |
| GO | transcription activator activity | 25 | 227 | 0.0125139 | 4851 | Notch homolog 1, translocation-associated (Drosophila) |
| GO | transcription activator activity | 25 | 227 | 0.0125139 | 4929 | nuclear receptor subfamily 4, group A, member 2 |
| GO | transcription activator activity | 25 | 227 | 0.0125139 | 51085 | MLX interacting protein-like |
| GO | transcription activator activity | 25 | 227 | 0.0125139 | 5465 | peroxisome proliferator-activated receptor alpha |
| GO | transcription activator activity | 25 | 227 | 0.0125139 | 55810 | forkhead box J2 |
| GO | transcription activator activity | 25 | 227 | 0.0125139 | 6239 | ras responsive element binding protein 1 |
| GO | transcription activator activity | 25 | 227 | 0.0125139 | 652 | bone morphogenetic protein 4 |
| GO | transcription activator activity | 25 | 227 | 0.0125139 | 7026 | nuclear receptor subfamily 2, group F, member 2 |
| GO | transcription activator activity | 25 | 227 | 0.0125139 | 8013 | nuclear receptor subfamily 4, group A, member 3 |
| GO | transcription activator activity | 25 | 227 | 0.0125139 | 80714 | pre-B-cell leukemia homeobox 4 |
| GO | transcription activator activity | 25 | 227 | 0.0125139 | 8631 | src kinase associated phosphoprotein 1 |
| GO | transcription activator activity | 25 | 227 | 0.0125139 | 9314 | Kruppel-like factor 4 (gut) |
| GO | epidermis development | 11 | 75 | 0.0126188 | 10481 | homeobox B13 |
| GO | epidermis development | 11 | 75 | 0.0126188 | 10913 | ectodysplasin A receptor |
| GO | epidermis development | 11 | 75 | 0.0126188 | 1382 | cellular retinoic acid binding protein 2 |
| GO | epidermis development | 11 | 75 | 0.0126188 | 1999 | E74-like factor 3 (ets domain transcription factor, epithelial-specific ) |
| GO | epidermis development | 11 | 75 | 0.0126188 | 3914 | laminin, beta 3 |
| GO | epidermis development | 11 | 75 | 0.0126188 | 412 | steroid sulfatase (microsomal), isozyme S |
| GO | epidermis development | 11 | 75 | 0.0126188 | 4851 | Notch homolog 1, translocation-associated (Drosophila) |
| GO | epidermis development | 11 | 75 | 0.0126188 | 5351 | procollagen-lysine 1, 2-oxoglutarate 5-dioxygenase 1 |
| GO | epidermis development | 11 | 75 | 0.0126188 | 5465 | peroxisome proliferator-activated receptor alpha |
| GO | epidermis development | 11 | 75 | 0.0126188 | 6706 | small proline-rich protein 2G |
| GO | epidermis development | 11 | 75 | 0.0126188 | 8796 | sciellin |
| GO | double-stranded DNA binding | 11 | 75 | 0.0126188 | 1958 | early growth response 1 |
| GO | double-stranded DNA binding | 11 | 75 | 0.0126188 | 2353 | FBJ murine osteosarcoma viral oncogene homolog |
| GO | double-stranded DNA binding | 11 | 75 | 0.0126188 | 3131 | hepatic leukemia factor |
| GO | double-stranded DNA binding | 11 | 75 | 0.0126188 | 3428 | interferon, gamma-inducible protein 16 |
| GO | double-stranded DNA binding | 11 | 75 | 0.0126188 | 3725 | jun oncogene |
| GO | double-stranded DNA binding | 11 | 75 | 0.0126188 | 3726 | jun B proto-oncogene |
| GO | double-stranded DNA binding | 11 | 75 | 0.0126188 | 4087 | SMAD family member 2 |
| GO | double-stranded DNA binding | 11 | 75 | 0.0126188 | 429 | achaete-scute complex homolog 1 (Drosophila) |
| GO | double-stranded DNA binding | 11 | 75 | 0.0126188 | 6256 | retinoid X receptor, alpha |

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| GO | double-stranded DNA binding | 11 | 75 | 0.0126188 | 8531 | cold shock domain protein A |
| GO | double-stranded DNA binding | 11 | 75 | 0.0126188 | 9971 | nuclear receptor subfamily 1, group H, member 4 |
| GO | axon | 16 | 127 | 0.0128948 | 127933 | U2AF homology motif (UHM) kinase 1 |
| GO | axon | 16 | 127 | 0.0128948 | 154 | adrenergic, beta-2-, receptor, surface |
| GO | axon | 16 | 127 | 0.0128948 | 1813 | dopamine receptor D2 |
| GO | axon | 16 | 127 | 0.0128948 | 2571 | glutamate decarboxylase 1 (brain, 67kDa) |
| GO | axon | 16 | 127 | 0.0128948 | 27242 | tumor necrosis factor receptor superfamily, member 21 |
| GO | axon | 16 | 127 | 0.0128948 | 2911 | glutamate receptor, metabotropic 1 |
| GO | axon | 16 | 127 | 0.0128948 | 3709 | inositol 1,4,5-triphosphate receptor, type 2 |
| GO | axon | 16 | 127 | 0.0128948 | 4684 | neural cell adhesion molecule 1 |
| GO | axon | 16 | 127 | 0.0128948 | 4856 | nephroblastoma overexpressed gene |
| GO | axon | 16 | 127 | 0.0128948 | 4886 | neuropeptide Y receptor Y1 |
| GO | axon | 16 | 127 | 0.0128948 | 5025 | purinergic receptor P2X, ligand-gated ion channel, 4 |
| GO | axon | 16 | 127 | 0.0128948 | 6256 | retinoid X receptor, alpha |
| GO | axon | 16 | 127 | 0.0128948 | 6622 | synuclein, alpha (non A4 component of amyloid precursor) |
| GO | axon | 16 | 127 | 0.0128948 | 760 | carbonic anhydrase II |
| GO | axon | 16 | 127 | 0.0128948 | 799 | calcitonin receptor |
| GO | axon | 16 | 127 | 0.0128948 | 885 | cholecystokinin |
| GO | endoplasmic reticulum membrane | 49 | 518 | 0.013107 | 10162 | lysophosphatidylcholine acyltransferase 3 |
| GO | endoplasmic reticulum membrane | 49 | 518 | 0.013107 | 10170 | dehydrogenase/reductase (SDR family) member 9 |
| GO | endoplasmic reticulum membrane | 49 | 518 | 0.013107 | 10282 | blocked early in transport 1 homolog (S. cerevisiae) |
| GO | endoplasmic reticulum membrane | 49 | 518 | 0.013107 | 10335 | murine retrovirus integration site 1 homolog |
| GO | endoplasmic reticulum membrane | 49 | 518 | 0.013107 | 11322 | transmembrane channel-like 6 |
| GO | endoplasmic reticulum membrane | 49 | 518 | 0.013107 | 118429 | anthrax toxin receptor 2 |
| GO | endoplasmic reticulum membrane | 49 | 518 | 0.013107 | 123099 | degenerative spermatocyte homolog 2, lipid desaturase (Drosophila) |
| GO | endoplasmic reticulum membrane | 49 | 518 | 0.013107 | 130367 | sphingosine-1-phosphate phosphotase 2 |
| GO | endoplasmic reticulum membrane | 49 | 518 | 0.013107 | 147138 | transmembrane channel-like 8 |
| GO | endoplasmic reticulum membrane | 49 | 518 | 0.013107 | 1558 | cytochrome P450, family 2, subfamily C, polypeptide 8 |
| GO | endoplasmic reticulum membrane | 49 | 518 | 0.013107 | 1559 | cytochrome P450, family 2, subfamily C, polypeptide 9 |
| GO | endoplasmic reticulum membrane | 49 | 518 | 0.013107 | 1571 | cytochrome P450, family 2, subfamily E, polypeptide 1 |
| GO | endoplasmic reticulum membrane | 49 | 518 | 0.013107 | 157506 | retinol dehydrogenase 10 (all-trans) |
| GO | endoplasmic reticulum membrane | 49 | 518 | 0.013107 | 1577 | cytochrome P450, family 3, subfamily A, polypeptide 5 |
| GO | endoplasmic reticulum membrane | 49 | 518 | 0.013107 | 163590 | torsin A interacting protein 2 |
| GO | endoplasmic reticulum membrane | 49 | 518 | 0.013107 | 165679 | chromosome 3 open reading frame 57 |
| GO | endoplasmic reticulum membrane | 49 | 518 | 0.013107 | 195814 | short chain dehydrogenase/reductase family 16C, member 5 |
| GO | endoplasmic reticulum membrane | 49 | 518 | 0.013107 | 2055 | ceroid-lipofuscinosis, neuronal 8 (epilepsy, progressive with mental ret |

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| GO | endoplasmic reticulum membrane | 49 | 518 | 0.013107 | 2182 | acyl-CoA synthetase long-chain family member 4 |
| GO | endoplasmic reticulum membrane | 49 | 518 | 0.013107 | 23780 | apolipoprotein L, 2 |
| GO | endoplasmic reticulum membrane | 49 | 518 | 0.013107 | 256987 | serine incorporator 5 |
| GO | endoplasmic reticulum membrane | 49 | 518 | 0.013107 | 25956 | SEC31 homolog B (S. cerevisiae) |
| GO | endoplasmic reticulum membrane | 49 | 518 | 0.013107 | 2861 | G protein-coupled receptor 37 (endothelin receptor type B-like) |
| GO | endoplasmic reticulum membrane | 49 | 518 | 0.013107 | 3294 | hydroxysteroid (17-beta) dehydrogenase 2 |
| GO | endoplasmic reticulum membrane | 49 | 518 | 0.013107 | 3601 | interleukin 15 receptor, alpha |
| GO | endoplasmic reticulum membrane | 49 | 518 | 0.013107 | 375056 | melanoma inhibitory activity family, member 3 |
| GO | endoplasmic reticulum membrane | 49 | 518 | 0.013107 | 387923 | stress-associated endoplasmic reticulum protein family member 2 |
| GO | endoplasmic reticulum membrane | 49 | 518 | 0.013107 | 4056 | leukotriene C4 synthase |
| GO | endoplasmic reticulum membrane | 49 | 518 | 0.013107 | 405753 | dual oxidase maturation factor 2 |
| GO | endoplasmic reticulum membrane | 49 | 518 | 0.013107 | 412 | steroid sulfatase (microsomal), isozyme S |
| GO | endoplasmic reticulum membrane | 49 | 518 | 0.013107 | 4306 | nuclear receptor subfamily 3, group C, member 2 |
| GO | endoplasmic reticulum membrane | 49 | 518 | 0.013107 | 51703 | acyl-CoA synthetase long-chain family member 5 |
| GO | endoplasmic reticulum membrane | 49 | 518 | 0.013107 | 54681 | prolyl 4-hydroxylase, transmembrane (endoplasmic reticulum) |
| GO | endoplasmic reticulum membrane | 49 | 518 | 0.013107 | 54894 | ring finger protein 43 |
| GO | endoplasmic reticulum membrane | 49 | 518 | 0.013107 | 54947 | lysophosphatidylcholine acyltransferase 2 |
| GO | endoplasmic reticulum membrane | 49 | 518 | 0.013107 | 55080 | TAP binding protein-like |
| GO | endoplasmic reticulum membrane | 49 | 518 | 0.013107 | 55304 | serine palmitoyltransferase, long chain base subunit 3 |
| GO | endoplasmic reticulum membrane | 49 | 518 | 0.013107 | 56605 | ERO1-like beta (S. cerevisiae) |
| GO | endoplasmic reticulum membrane | 49 | 518 | 0.013107 | 5742 | prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase a |
| GO | endoplasmic reticulum membrane | 49 | 518 | 0.013107 | 57620 | stromal interaction molecule 2 |
| GO | endoplasmic reticulum membrane | 49 | 518 | 0.013107 | 6238 | ribosome binding protein 1 homolog 180kDa (dog) |
| GO | endoplasmic reticulum membrane | 49 | 518 | 0.013107 | 64699 | transmembrane protease, serine 3 |
| GO | endoplasmic reticulum membrane | 49 | 518 | 0.013107 | 7098 | toll-like receptor 3 |
| GO | endoplasmic reticulum membrane | 49 | 518 | 0.013107 | 79152 | fatty acid 2-hydroxylase |
| GO | endoplasmic reticulum membrane | 49 | 518 | 0.013107 | 79956 | endoplasmic reticulum metallopeptidase 1 |
| GO | endoplasmic reticulum membrane | 49 | 518 | 0.013107 | 84879 | major facilitator superfamily domain containing 2A |
| GO | endoplasmic reticulum membrane | 49 | 518 | 0.013107 | 89866 | SEC16 homolog B (S. cerevisiae) |
| GO | endoplasmic reticulum membrane | 49 | 518 | 0.013107 | 90993 | cAMP responsive element binding protein 3-like 1 |
| GO | endoplasmic reticulum membrane | 49 | 518 | 0.013107 | 9619 | ATP-binding cassette, sub-family G (WHITE), member 1 |
| GO | regulation of potassium ion transport | 2 | 3 | 0.0133672 | 10008 | potassium voltage-gated channel, Isk-related family, member 3 |
| GO | regulation of potassium ion transport | 2 | 3 | 0.0133672 | 1813 | dopamine receptor D2 |
| GO | homotypic cell-cell adhesion | 2 | 3 | 0.0133672 | 10076 | protein tyrosine phosphatase, receptor type, U |
| GO | homotypic cell-cell adhesion | 2 | 3 | 0.0133672 | 4684 | neural cell adhesion molecule 1 |
| GO | negative regulation of lipopolysaccha | 2 | 3 | 0.0133672 | 10221 | tribbles homolog 1 (Drosophila) |

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|---|---|---|---|---|---|---|
| GO | negative regulation of lipopolysaccha | 2 | 3 | 0.0133672 | 7001 | peroxiredoxin 2 |
| GO | regulation of MAP kinase activity | 2 | 3 | 0.0133672 | 10221 | tribbles homolog 1 (Drosophila) |
| GO | regulation of MAP kinase activity | 2 | 3 | 0.0133672 | 28951 | tribbles homolog 2 (Drosophila) |
| GO | ubiquitin-protein ligase regulator acti | 2 | 3 | 0.0133672 | 10221 | tribbles homolog 1 (Drosophila) |
| GO | ubiquitin-protein ligase regulator acti | 2 | 3 | 0.0133672 | 28951 | tribbles homolog 2 (Drosophila) |
| GO | activin receptor complex | 2 | 3 | 0.0133672 | 130399 | activin A receptor, type IC |
| GO | activin receptor complex | 2 | 3 | 0.0133672 | 91 | activin A receptor, type IB |
| GO | dense core granule | 2 | 3 | 0.0133672 | 143425 | synaptotagmin IX |
| GO | dense core granule | 2 | 3 | 0.0133672 | 6857 | synaptotagmin I |
| GO | positive regulation of monocyte diffe | 2 | 3 | 0.0133672 | 1435 | colony stimulating factor 1 (macrophage) |
| GO | positive regulation of monocyte diffe | 2 | 3 | 0.0133672 | 3725 | jun oncogene |
| GO | negative regulation of extracellular m | 2 | 3 | 0.0133672 | 1471 | cystatin C |
| GO | negative regulation of extracellular m | 2 | 3 | 0.0133672 | 1803 | dipeptidyl-peptidase 4 |
| GO | endothelial cell activation | 2 | 3 | 0.0133672 | 168667 | BMP binding endothelial regulator |
| GO | endothelial cell activation | 2 | 3 | 0.0133672 | 5025 | purinergic receptor P2X, ligand-gated ion channel, 4 |
| GO | regulation of pathway-restricted SMA | 2 | 3 | 0.0133672 | 168667 | BMP binding endothelial regulator |
| GO | regulation of pathway-restricted SMA | 2 | 3 | 0.0133672 | 652 | bone morphogenetic protein 4 |
| GO | dopamine receptor activity, coupled | 2 | 3 | 0.0133672 | 1813 | dopamine receptor D2 |
| GO | dopamine receptor activity, coupled | 2 | 3 | 0.0133672 | 1815 | dopamine receptor D4 |
| GO | response to histamine | 2 | 3 | 0.0133672 | 1813 | dopamine receptor D2 |
| GO | response to histamine | 2 | 3 | 0.0133672 | 1815 | dopamine receptor D4 |
| GO | nitric oxide transport | 2 | 3 | 0.0133672 | 1906 | endothelin 1 |
| GO | nitric oxide transport | 2 | 3 | 0.0133672 | 358 | aquaporin 1 (Colton blood group) |
| GO | positive regulation of sarcomere orga | 2 | 3 | 0.0133672 | 1906 | endothelin 1 |
| GO | positive regulation of sarcomere orga | 2 | 3 | 0.0133672 | 2033 | E1A binding protein p300 |
| GO | brain segmentation | 2 | 3 | 0.0133672 | 1959 | early growth response 2 |
| GO | brain segmentation | 2 | 3 | 0.0133672 | 9935 | v-maf musculoaponeurotic fibrosarcoma oncogene homolog B (avian) |
| GO | positive regulation of granulocyte ma | 2 | 3 | 0.0133672 | 2205 | Fc fragment of IgE, high affinity I, receptor for; alpha polypeptide |
| GO | positive regulation of granulocyte ma | 2 | 3 | 0.0133672 | 6850 | spleen tyrosine kinase |
| GO | negative regulation of low-density lip | 2 | 3 | 0.0133672 | 255738 | proprotein convertase subtilisin/kexin type 9 |
| GO | negative regulation of low-density lip | 2 | 3 | 0.0133672 | 29116 | myosin regulatory light chain interacting protein |
| GO | glutamate decarboxylase activity | 2 | 3 | 0.0133672 | 2571 | glutamate decarboxylase 1 (brain, 67kDa) |
| GO | glutamate decarboxylase activity | 2 | 3 | 0.0133672 | 2752 | glutamate-ammonia ligase (glutamine synthetase) |
| GO | cerebral cortex neuron differentiatio | 2 | 3 | 0.0133672 | 26468 | LIM homeobox 6 |
| GO | cerebral cortex neuron differentiatio | 2 | 3 | 0.0133672 | 3400 | inhibitor of DNA binding 4, dominant negative helix-loop-helix protein |
| GO | negative regulation of T-helper 2 cell | 2 | 3 | 0.0133672 | 3142 | H2.0-like homeobox |

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|---|---|---|---|---|---|---|
| GO | negative regulation of T-helper 2 cell | 2 | 3 | 0.0133672 | 604 | B-cell CLL/lymphoma 6 |
| GO | interleukin-6 receptor complex | 2 | 3 | 0.0133672 | 3569 | interleukin 6 (interferon, beta 2) |
| GO | interleukin-6 receptor complex | 2 | 3 | 0.0133672 | 3570 | interleukin 6 receptor |
| GO | interleukin-6-mediated signaling pat | 2 | 3 | 0.0133672 | 3569 | interleukin 6 (interferon, beta 2) |
| GO | interleukin-6-mediated signaling pat | 2 | 3 | 0.0133672 | 3570 | interleukin 6 receptor |
| GO | germ cell programmed cell death | 2 | 3 | 0.0133672 | 3815 | v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog |
| GO | germ cell programmed cell death | 2 | 3 | 0.0133672 | 4254 | KIT ligand |
| GO | laminin-11 complex | 2 | 3 | 0.0133672 | 3911 | laminin, alpha 5 |
| GO | laminin-11 complex | 2 | 3 | 0.0133672 | 3913 | laminin, beta 2 (laminin S) |
| GO | protein-lysine 6-oxidase activity | 2 | 3 | 0.0133672 | 4015 | lysyl oxidase |
| GO | protein-lysine 6-oxidase activity | 2 | 3 | 0.0133672 | 84171 | lysyl oxidase-like 4 |
| GO | common-partner SMAD protein phos | 2 | 3 | 0.0133672 | 4087 | SMAD family member 2 |
| GO | common-partner SMAD protein phos | 2 | 3 | 0.0133672 | 5371 | promyelocytic leukemia |
| GO | positive regulation of keratinocyte di | 2 | 3 | 0.0133672 | 4851 | Notch homolog 1, translocation-associated (Drosophila) |
| GO | positive regulation of keratinocyte di | 2 | 3 | 0.0133672 | 50604 | interleukin 20 |
| GO | pancreatic polypeptide receptor activ | 2 | 3 | 0.0133672 | 4886 | neuropeptide Y receptor Y1 |
| GO | pancreatic polypeptide receptor activ | 2 | 3 | 0.0133672 | 4889 | neuropeptide Y receptor Y5 |
| GO | xenobiotic-transporting ATPase activi | 2 | 3 | 0.0133672 | 5243 | ATP-binding cassette, sub-family B (MDR/TAP), member 1 |
| GO | xenobiotic-transporting ATPase activi | 2 | 3 | 0.0133672 | 5244 | ATP-binding cassette, sub-family B (MDR/TAP), member 4 |
| GO | negative regulation of B cell apoptosi | 2 | 3 | 0.0133672 | 604 | B-cell CLL/lymphoma 6 |
| GO | negative regulation of B cell apoptosi | 2 | 3 | 0.0133672 | 8660 | insulin receptor substrate 2 |
| GO | negative regulation of T-helper 2 typ | 2 | 3 | 0.0133672 | 604 | B-cell CLL/lymphoma 6 |
| GO | negative regulation of T-helper 2 typ | 2 | 3 | 0.0133672 | 6778 | signal transducer and activator of transcription 6, interleukin-4 induce |
| GO | negative regulation of prostatic bud | 2 | 3 | 0.0133672 | 652 | bone morphogenetic protein 4 |
| GO | negative regulation of prostatic bud | 2 | 3 | 0.0133672 | 7474 | wingless-type MMTV integration site family, member 5A |
| GO | microglial cell activation | 2 | 3 | 0.0133672 | 6622 | synuclein, alpha (non A4 component of amyloid precursor) |
| GO | microglial cell activation | 2 | 3 | 0.0133672 | 834 | caspase 1, apoptosis-related cysteine peptidase (interleukin 1, beta, co |
| GO | cellular response to lipoteichoic acid | 2 | 3 | 0.0133672 | 7097 | toll-like receptor 2 |
| GO | cellular response to lipoteichoic acid | 2 | 3 | 0.0133672 | 929 | CD14 molecule |
| GO | low voltage-gated calcium channel a | 2 | 3 | 0.0133672 | 8911 | calcium channel, voltage-dependent, T type, alpha 1I subunit |
| GO | low voltage-gated calcium channel a | 2 | 3 | 0.0133672 | 8912 | calcium channel, voltage-dependent, T type, alpha 1H subunit |
| GO | regulation of protein binding | 3 | 8 | 0.0137487 | 10014 | histone deacetylase 5 |
| GO | regulation of protein binding | 3 | 8 | 0.0137487 | 26119 | low density lipoprotein receptor adaptor protein 1 |
| GO | regulation of protein binding | 3 | 8 | 0.0137487 | 6604 | SWI/SNF related, matrix associated, actin dependent regulator of chro |
| GO | positive regulation of SMAD protein | 3 | 8 | 0.0137487 | 11030 | RNA binding protein with multiple splicing |
| GO | positive regulation of SMAD protein | 3 | 8 | 0.0137487 | 5460 | POU class 5 homeobox 1 |

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| GO | positive regulation of SMAD protein r | 3 | 8 | 0.0137487 | 652 | bone morphogenetic protein 4 |
| GO | regulation of ossification | 3 | 8 | 0.0137487 | 1435 | colony stimulating factor 1 (macrophage) |
| GO | regulation of ossification | 3 | 8 | 0.0137487 | 1959 | early growth response 2 |
| GO | regulation of ossification | 3 | 8 | 0.0137487 | 5734 | prostaglandin E receptor 4 (subtype EP4) |
| GO | negative regulation of calcium ion tra | 3 | 8 | 0.0137487 | 154 | adrenergic, beta-2-, receptor, surface |
| GO | negative regulation of calcium ion tra | 3 | 8 | 0.0137487 | 1813 | dopamine receptor D2 |
| GO | negative regulation of calcium ion tra | 3 | 8 | 0.0137487 | 1815 | dopamine receptor D4 |
| GO | oxidative demethylation | 3 | 8 | 0.0137487 | 1558 | cytochrome P450, family 2, subfamily C, polypeptide 8 |
| GO | oxidative demethylation | 3 | 8 | 0.0137487 | 1559 | cytochrome P450, family 2, subfamily C, polypeptide 9 |
| GO | oxidative demethylation | 3 | 8 | 0.0137487 | 1577 | cytochrome P450, family 3, subfamily A, polypeptide 5 |
| GO | retinal metabolic process | 3 | 8 | 0.0137487 | 157506 | retinol dehydrogenase 10 (all-trans) |
| GO | retinal metabolic process | 3 | 8 | 0.0137487 | 195814 | short chain dehydrogenase/reductase family 16C, member 5 |
| GO | retinal metabolic process | 3 | 8 | 0.0137487 | 5950 | retinol binding protein 4, plasma |
| GO | diuresis | 3 | 8 | 0.0137487 | 1813 | dopamine receptor D2 |
| GO | diuresis | 3 | 8 | 0.0137487 | 1906 | endothelin 1 |
| GO | diuresis | 3 | 8 | 0.0137487 | 3827 | kininogen 1 |
| GO | heart trabecula formation | 3 | 8 | 0.0137487 | 5950 | retinol binding protein 4, plasma |
| GO | heart trabecula formation | 3 | 8 | 0.0137487 | 7049 | transforming growth factor, beta receptor III |
| GO | heart trabecula formation | 3 | 8 | 0.0137487 | 9510 | ADAM metallopeptidase with thrombospondin type 1 motif, 1 |
| GO | positive regulation of NF-kappaB imp | 3 | 8 | 0.0137487 | 7097 | toll-like receptor 2 |
| GO | positive regulation of NF-kappaB imp | 3 | 8 | 0.0137487 | 7098 | toll-like receptor 3 |
| GO | positive regulation of NF-kappaB imp | 3 | 8 | 0.0137487 | 7099 | toll-like receptor 4 |
| GO | integrin-mediated signaling pathway | 9 | 57 | 0.0145803 | 3678 | integrin, alpha 5 (fibronectin receptor, alpha polypeptide) |
| GO | integrin-mediated signaling pathway | 9 | 57 | 0.0145803 | 3687 | integrin, alpha X (complement component 3 receptor 4 subunit) |
| GO | integrin-mediated signaling pathway | 9 | 57 | 0.0145803 | 3689 | integrin, beta 2 (complement component 3 receptor 3 and 4 subunit) |
| GO | integrin-mediated signaling pathway | 9 | 57 | 0.0145803 | 3691 | integrin, beta 4 |
| GO | integrin-mediated signaling pathway | 9 | 57 | 0.0145803 | 3696 | integrin, beta 8 |
| GO | integrin-mediated signaling pathway | 9 | 57 | 0.0145803 | 3911 | laminin, alpha 5 |
| GO | integrin-mediated signaling pathway | 9 | 57 | 0.0145803 | 6850 | spleen tyrosine kinase |
| GO | integrin-mediated signaling pathway | 9 | 57 | 0.0145803 | 9510 | ADAM metallopeptidase with thrombospondin type 1 motif, 1 |
| GO | integrin-mediated signaling pathway | 9 | 57 | 0.0145803 | 961 | CD47 molecule |
| GO | lyase activity | 13 | 97 | 0.0146538 | 11238 | carbonic anhydrase VB, mitochondrial |
| GO | lyase activity | 13 | 97 | 0.0146538 | 2026 | enolase 2 (gamma, neuronal) |
| GO | lyase activity | 13 | 97 | 0.0146538 | 2571 | glutamate decarboxylase 1 (brain, 67kDa) |
| GO | lyase activity | 13 | 97 | 0.0146538 | 2752 | glutamate-ammonia ligase (glutamine synthetase) |
| GO | lyase activity | 13 | 97 | 0.0146538 | 3034 | histidine ammonia-lyase |

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| GO | lyase activity | 13 | 97 | 0.0146538 | 4056 | leukotriene C4 synthase |
| GO | lyase activity | 13 | 97 | 0.0146538 | 48 | aconitase 1, soluble |
| GO | lyase activity | 13 | 97 | 0.0146538 | 5066 | peptidylglycine alpha-amidating monooxygenase |
| GO | lyase activity | 13 | 97 | 0.0146538 | 54511 | 3-hydroxymethyl-3-methylglutaryl-Coenzyme A lyase-like 1 |
| GO | lyase activity | 13 | 97 | 0.0146538 | 55268 | enoyl Coenzyme A hydratase domain containing 2 |
| GO | lyase activity | 13 | 97 | 0.0146538 | 760 | carbonic anhydrase II |
| GO | lyase activity | 13 | 97 | 0.0146538 | 771 | carbonic anhydrase XII |
| GO | lyase activity | 13 | 97 | 0.0146538 | 79661 | nei endonuclease VIII-like 1 (E. coli) |
| GO | endomembrane system | 11 | 77 | 0.0152149 | 10435 | CDC42 effector protein (Rho GTPase binding) 2 |
| GO | endomembrane system | 11 | 77 | 0.0152149 | 112574 | sorting nexin 18 |
| GO | endomembrane system | 11 | 77 | 0.0152149 | 114569 | mal, T-cell differentiation protein 2 |
| GO | endomembrane system | 11 | 77 | 0.0152149 | 148170 | CDC42 effector protein (Rho GTPase binding) 5 |
| GO | endomembrane system | 11 | 77 | 0.0152149 | 23348 | dedicator of cytokinesis 9 |
| GO | endomembrane system | 11 | 77 | 0.0152149 | 29126 | CD274 molecule |
| GO | endomembrane system | 11 | 77 | 0.0152149 | 5046 | proprotein convertase subtilisin/kexin type 6 |
| GO | endomembrane system | 11 | 77 | 0.0152149 | 56288 | par-3 partitioning defective 3 homolog (C. elegans) |
| GO | endomembrane system | 11 | 77 | 0.0152149 | 6494 | signal-induced proliferation-associated 1 |
| GO | endomembrane system | 11 | 77 | 0.0152149 | 81544 | glycerophosphodiester phosphodiesterase domain containing 5 |
| GO | endomembrane system | 11 | 77 | 0.0152149 | 83394 | PITPNM family member 3 |
| GO | ureteric bud development | 7 | 39 | 0.0153323 | 10252 | sprouty homolog 1, antagonist of FGF signaling (Drosophila) |
| GO | ureteric bud development | 7 | 39 | 0.0153323 | 168667 | BMP binding endothelial regulator |
| GO | ureteric bud development | 7 | 39 | 0.0153323 | 2296 | forkhead box C1 |
| GO | ureteric bud development | 7 | 39 | 0.0153323 | 2303 | forkhead box C2 (MFH-1, mesenchyme forkhead 1) |
| GO | ureteric bud development | 7 | 39 | 0.0153323 | 4087 | SMAD family member 2 |
| GO | ureteric bud development | 7 | 39 | 0.0153323 | 627 | brain-derived neurotrophic factor |
| GO | ureteric bud development | 7 | 39 | 0.0153323 | 652 | bone morphogenetic protein 4 |
| GO | positive regulation of gene-specific tr | 7 | 39 | 0.0153323 | 10891 | peroxisome proliferator-activated receptor gamma, coactivator 1 alpha |
| GO | positive regulation of gene-specific tr | 7 | 39 | 0.0153323 | 3479 | insulin-like growth factor 1 (somatomedin C) |
| GO | positive regulation of gene-specific tr | 7 | 39 | 0.0153323 | 3569 | interleukin 6 (interferon, beta 2) |
| GO | positive regulation of gene-specific tr | 7 | 39 | 0.0153323 | 4087 | SMAD family member 2 |
| GO | positive regulation of gene-specific tr | 7 | 39 | 0.0153323 | 6096 | RAR-related orphan receptor B |
| GO | positive regulation of gene-specific tr | 7 | 39 | 0.0153323 | 652 | bone morphogenetic protein 4 |
| GO | positive regulation of gene-specific tr | 7 | 39 | 0.0153323 | 7026 | nuclear receptor subfamily 2, group F, member 2 |
| GO | regulation of mitotic cell cycle | 4 | 15 | 0.0161327 | 150094 | salt-inducible kinase 1 |
| GO | regulation of mitotic cell cycle | 4 | 15 | 0.0161327 | 2290 | forkhead box G1 |
| GO | regulation of mitotic cell cycle | 4 | 15 | 0.0161327 | 415116 | pim-3 oncogene |

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| GO | regulation of mitotic cell cycle | 4 | 15 | 0.0161327 | 51754 | transmembrane protein 8B |
| GO | neural tube development | 4 | 15 | 0.0161327 | 1969 | EPH receptor A2 |
| GO | neural tube development | 4 | 15 | 0.0161327 | 2737 | GLI family zinc finger 3 |
| GO | neural tube development | 4 | 15 | 0.0161327 | 4851 | Notch homolog 1, translocation-associated (Drosophila) |
| GO | neural tube development | 4 | 15 | 0.0161327 | 5362 | plexin A2 |
| GO | cholesterol metabolic process | 9 | 58 | 0.0162435 | 2055 | ceroid-lipofuscinosis, neuronal 8 (epilepsy, progressive with mental ret |
| GO | cholesterol metabolic process | 9 | 58 | 0.0162435 | 23780 | apolipoprotein L, 2 |
| GO | cholesterol metabolic process | 9 | 58 | 0.0162435 | 255738 | proprotein convertase subtilisin/kexin type 9 |
| GO | cholesterol metabolic process | 9 | 58 | 0.0162435 | 26119 | low density lipoprotein receptor adaptor protein 1 |
| GO | cholesterol metabolic process | 9 | 58 | 0.0162435 | 3949 | low density lipoprotein receptor |
| GO | cholesterol metabolic process | 9 | 58 | 0.0162435 | 6256 | retinoid X receptor, alpha |
| GO | cholesterol metabolic process | 9 | 58 | 0.0162435 | 6653 | sortilin-related receptor, L(DLR class) A repeats-containing |
| GO | cholesterol metabolic process | 9 | 58 | 0.0162435 | 8542 | apolipoprotein L, 1 |
| GO | cholesterol metabolic process | 9 | 58 | 0.0162435 | 9619 | ATP-binding cassette, sub-family G (WHITE), member 1 |
| GO | SMAD binding | 6 | 31 | 0.0169507 | 2033 | E1A binding protein p300 |
| GO | SMAD binding | 6 | 31 | 0.0169507 | 28996 | homeodomain interacting protein kinase 2 |
| GO | SMAD binding | 6 | 31 | 0.0169507 | 5371 | promyelocytic leukemia |
| GO | SMAD binding | 6 | 31 | 0.0169507 | 7049 | transforming growth factor, beta receptor III |
| GO | SMAD binding | 6 | 31 | 0.0169507 | 91 | activin A receptor, type IB |
| GO | SMAD binding | 6 | 31 | 0.0169507 | 94 | activin A receptor type II-like 1 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 10156 | RAS p21 protein activator 4 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 10346 | tripartite motif-containing 22 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 104 | adenosine deaminase, RNA-specific, B1 (RED1 homolog rat) |
| GO | intracellular | 145 | 1794 | 0.0172868 | 10838 | zinc finger protein 275 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 10906 | TRAF-type zinc finger domain containing 1 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 11043 | midline 2 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 11074 | tripartite motif-containing 31 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 1124 | chimerin (chimaerin) 2 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 11279 | Kruppel-like factor 8 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 115196 | zinc finger protein 554 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 116113 | forkhead box P4 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 116984 | ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 2 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 1193 | chloride intracellular channel 2 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 129049 | small G protein signaling modulator 1 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 134218 | DnaJ (Hsp40) homolog, subfamily C, member 21 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 135112 | nuclear receptor coactivator 7 |

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| GO | intracellular | 145 | 1794 | 0.0172868 | 135644 | tripartite motif-containing 40 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 147694 | zinc finger protein 548 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 147923 | zinc finger protein 420 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 1508 | cathepsin B |
| GO | intracellular | 145 | 1794 | 0.0172868 | 152273 | FYVE, RhoGEF and PH domain containing 5 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 1540 | cylindromatosis (turban tumor syndrome) |
| GO | intracellular | 145 | 1794 | 0.0172868 | 162962 | zinc finger protein 836 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 163050 | zinc finger protein 564 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 163115 | zinc finger protein 781 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 1820 | AT rich interactive domain 3A (BRIGHT-like) |
| GO | intracellular | 145 | 1794 | 0.0172868 | 1958 | early growth response 1 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 1959 | early growth response 2 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 1960 | early growth response 3 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 201501 | zinc finger and BTB domain containing 7C |
| GO | intracellular | 145 | 1794 | 0.0172868 | 2026 | enolase 2 (gamma, neuronal) |
| GO | intracellular | 145 | 1794 | 0.0172868 | 2122 | MDS1 and EVI1 complex locus |
| GO | intracellular | 145 | 1794 | 0.0172868 | 221178 | spermatogenesis associated 13 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 22807 | IKAROS family zinc finger 2 (Helios) |
| GO | intracellular | 145 | 1794 | 0.0172868 | 23092 | Rho GTPase activating protein 26 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 23099 | zinc finger and BTB domain containing 43 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 23119 | hypermethylated in cancer 2 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 23179 | ral guanine nucleotide dissociation stimulator-like 1 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 23263 | MCF.2 cell line derived transforming sequence-like |
| GO | intracellular | 145 | 1794 | 0.0172868 | 2331 | fibromodulin |
| GO | intracellular | 145 | 1794 | 0.0172868 | 23365 | Rho guanine nucleotide exchange factor (GEF) 12 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 23650 | tripartite motif-containing 29 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 23654 | plexin B2 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 2521 | fused in sarcoma |
| GO | intracellular | 145 | 1794 | 0.0172868 | 256051 | zinc finger protein 549 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 2571 | glutamate decarboxylase 1 (brain, 67kDa) |
| GO | intracellular | 145 | 1794 | 0.0172868 | 25946 | zinc finger protein 385A |
| GO | intracellular | 145 | 1794 | 0.0172868 | 26030 | pleckstrin homology domain containing, family G (with RhoGef domain |
| GO | intracellular | 145 | 1794 | 0.0172868 | 2737 | GLI family zinc finger 3 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 27434 | polymerase (DNA directed), mu |
| GO | intracellular | 145 | 1794 | 0.0172868 | 2752 | glutamate-ammonia ligase (glutamine synthetase) |
| GO | intracellular | 145 | 1794 | 0.0172868 | 284346 | zinc finger protein 575 |

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| GO | intracellular | 145 | 1794 | 0.0172868 | 29108 | PYD and CARD domain containing |
| GO | intracellular | 145 | 1794 | 0.0172868 | 29116 | myosin regulatory light chain interacting protein |
| GO | intracellular | 145 | 1794 | 0.0172868 | 29760 | B-cell linker |
| GO | intracellular | 145 | 1794 | 0.0172868 | 342908 | zinc finger protein 404 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 345462 | zinc finger protein 879 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 379 | ADP-ribosylation factor-like 4D |
| GO | intracellular | 145 | 1794 | 0.0172868 | 3845 | v-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog |
| GO | intracellular | 145 | 1794 | 0.0172868 | 388536 | zinc finger protein 790 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 388558 | zinc finger protein 808 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 388567 | zinc finger protein 749 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 388591 | ring finger protein 207 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 388743 | calpain 8 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 389058 | Sp5 transcription factor |
| GO | intracellular | 145 | 1794 | 0.0172868 | 389337 | Rho guanine nucleotide exchange factor (GEF) 37 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 395 | Rho GTPase activating protein 6 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 400713 | zinc finger protein 880 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 4087 | SMAD family member 2 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 4194 | Mdm4 p53 binding protein homolog (mouse) |
| GO | intracellular | 145 | 1794 | 0.0172868 | 440107 | pleckstrin homology domain containing, family G (with RhoGef domain |
| GO | intracellular | 145 | 1794 | 0.0172868 | 4784 | nuclear factor I/X (CCAAT-binding transcription factor) |
| GO | intracellular | 145 | 1794 | 0.0172868 | 4802 | nuclear transcription factor Y, gamma |
| GO | intracellular | 145 | 1794 | 0.0172868 | 51274 | Kruppel-like factor 3 (basic) |
| GO | intracellular | 145 | 1794 | 0.0172868 | 51621 | Kruppel-like factor 13 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 51655 | RAS, dexamethasone-induced 1 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 51710 | zinc finger protein 44 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 5295 | phosphoinositide-3-kinase, regulatory subunit 1 (alpha) |
| GO | intracellular | 145 | 1794 | 0.0172868 | 5325 | pleiomorphic adenoma gene-like 1 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 5362 | plexin A2 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 5371 | promyelocytic leukemia |
| GO | intracellular | 145 | 1794 | 0.0172868 | 54769 | DIRAS family, GTP-binding RAS-like 2 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 54848 | Rho guanine nucleotide exchange factor (GEF) 38 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 54932 | exonuclease 3'-5' domain containing 3 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 55160 | Rho guanine nucleotide exchange factor (GEF) 10-like |
| GO | intracellular | 145 | 1794 | 0.0172868 | 55184 | chromosome 20 open reading frame 12 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 55200 | pleckstrin homology domain containing, family G (with RhoGef domain |
| GO | intracellular | 145 | 1794 | 0.0172868 | 55357 | TBC1 domain family, member 2 |

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|---|---|---|---|---|---|---|
| GO | intracellular | 145 | 1794 | 0.0172868 | 55432 | YOD1 OTU deubiquinating enzyme 1 homolog (S. cerevisiae) |
| GO | intracellular | 145 | 1794 | 0.0172868 | 55657 | zinc finger protein 692 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 55762 | zinc finger protein 701 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 55769 | zinc finger protein 83 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 55893 | zinc finger protein 395 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 56978 | PR domain containing 8 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 57139 | ral guanine nucleotide dissociation stimulator-like 3 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 57186 | Ral GTPase activating protein, alpha subunit 2 (catalytic) |
| GO | intracellular | 145 | 1794 | 0.0172868 | 57221 | KIAA1244 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 57636 | Rho GTPase activating protein 23 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 5900 | ral guanine nucleotide dissociation stimulator |
| GO | intracellular | 145 | 1794 | 0.0172868 | 604 | B-cell CLL/lymphoma 6 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 6239 | ras responsive element binding protein 1 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 64127 | nucleotide-binding oligomerization domain containing 2 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 64135 | interferon induced with helicase C domain 1 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 64798 | DEP domain containing 6 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 6494 | signal-induced proliferation-associated 1 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 687 | Kruppel-like factor 9 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 7071 | Kruppel-like factor 10 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 7227 | trichorhinophalangeal syndrome I |
| GO | intracellular | 145 | 1794 | 0.0172868 | 726 | calpain 5 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 7546 | Zic family member 2 (odd-paired homolog, Drosophila) |
| GO | intracellular | 145 | 1794 | 0.0172868 | 7565 | zinc finger protein 17 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 7597 | zinc finger and BTB domain containing 25 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 7678 | zinc finger protein 124 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 79092 | caspase recruitment domain family, member 14 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 79444 | baculoviral IAP repeat-containing 7 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 79668 | poly (ADP-ribose) polymerase family, member 8 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 79673 | zinc finger protein 329 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 7984 | Rho guanine nucleotide exchange factor (GEF) 5 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 79872 | Cas-Br-M (murine) ecotropic retroviral transforming sequence-like 1 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 79894 | zinc finger protein 672 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 81844 | tripartite motif-containing 56 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 8313 | axin 2 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 83394 | PITPNM family member 3 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 834 | caspase 1, apoptosis-related cysteine peptidase (interleukin 1, beta, co |

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|---|---|---|---|---|---|---|
| GO | intracellular | 145 | 1794 | 0.0172868 | 837 | caspase 4, apoptosis-related cysteine peptidase |
| GO | intracellular | 145 | 1794 | 0.0172868 | 84033 | obscurin, cytoskeletal calmodulin and titin-interacting RhoGEF |
| GO | intracellular | 145 | 1794 | 0.0172868 | 84124 | zinc finger protein 394 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 84159 | AT rich interactive domain 5B (MRF1-like) |
| GO | intracellular | 145 | 1794 | 0.0172868 | 8462 | Kruppel-like factor 11 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 84674 | caspase recruitment domain family, member 6 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 84858 | zinc finger protein 503 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 84911 | zinc finger protein 382 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 85004 | RAS-like, estrogen-regulated, growth inhibitor |
| GO | intracellular | 145 | 1794 | 0.0172868 | 85416 | Zic family member 5 (odd-paired homolog, Drosophila) |
| GO | intracellular | 145 | 1794 | 0.0172868 | 85441 | peroxisomal proliferator-activated receptor A interacting complex 285 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 89870 | tripartite motif-containing 15 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 8996 | nucleolar protein 3 (apoptosis repressor with CARD domain) |
| GO | intracellular | 145 | 1794 | 0.0172868 | 90592 | zinc finger protein 700 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 92283 | zinc finger protein 461 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 92822 | zinc finger protein 276 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 9314 | Kruppel-like factor 4 (gut) |
| GO | intracellular | 145 | 1794 | 0.0172868 | 94059 | leukocyte receptor cluster (LRC) member 9 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 9422 | zinc finger protein 264 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 9459 | Rac/Cdc42 guanine nucleotide exchange factor (GEF) 6 |
| GO | intracellular | 145 | 1794 | 0.0172868 | 9615 | guanine deaminase |
| GO | blood vessel development | 7 | 40 | 0.0175194 | 183 | angiotensinogen (serpin peptidase inhibitor, clade A, member 8) |
| GO | blood vessel development | 7 | 40 | 0.0175194 | 1969 | EPH receptor A2 |
| GO | blood vessel development | 7 | 40 | 0.0175194 | 2296 | forkhead box C1 |
| GO | blood vessel development | 7 | 40 | 0.0175194 | 2303 | forkhead box C2 (MFH-1, mesenchyme forkhead 1) |
| GO | blood vessel development | 7 | 40 | 0.0175194 | 4005 | LIM domain only 2 (rhombotin-like 1) |
| GO | blood vessel development | 7 | 40 | 0.0175194 | 4015 | lysyl oxidase |
| GO | blood vessel development | 7 | 40 | 0.0175194 | 652 | bone morphogenetic protein 4 |
| GO | positive regulation of glucose import | 5 | 23 | 0.0176969 | 2066 | v-erb-a erythroblastic leukemia viral oncogene homolog 4 (avian) |
| GO | positive regulation of glucose import | 5 | 23 | 0.0176969 | 3643 | insulin receptor |
| GO | positive regulation of glucose import | 5 | 23 | 0.0176969 | 5295 | phosphoinositide-3-kinase, regulatory subunit 1 (alpha) |
| GO | positive regulation of glucose import | 5 | 23 | 0.0176969 | 55600 | intelectin 1 (galactofuranose binding) |
| GO | positive regulation of glucose import | 5 | 23 | 0.0176969 | 8660 | insulin receptor substrate 2 |
| GO | negative regulation of cell adhesion | 5 | 23 | 0.0176969 | 375056 | melanoma inhibitory activity family, member 3 |
| GO | negative regulation of cell adhesion | 5 | 23 | 0.0176969 | 3827 | kininogen 1 |
| GO | negative regulation of cell adhesion | 5 | 23 | 0.0176969 | 6494 | signal-induced proliferation-associated 1 |

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|---|---|---|---|---|---|---|
| GO | negative regulation of cell adhesion | 5 | 23 | 0.0176969 | 79872 | Cas-Br-M (murine) ecotropic retroviral transforming sequence-like 1 |
| GO | negative regulation of cell adhesion | 5 | 23 | 0.0176969 | 94 | activin A receptor type II-like 1 |
| GO | SH3/SH2 adaptor activity | 8 | 50 | 0.0192139 | 10140 | transducer of ERBB2, 1 |
| GO | SH3/SH2 adaptor activity | 8 | 50 | 0.0192139 | 1124 | chimerin (chimaerin) 2 |
| GO | SH3/SH2 adaptor activity | 8 | 50 | 0.0192139 | 29760 | B-cell linker |
| GO | SH3/SH2 adaptor activity | 8 | 50 | 0.0192139 | 395 | Rho GTPase activating protein 6 |
| GO | SH3/SH2 adaptor activity | 8 | 50 | 0.0192139 | 55824 | phosphoprotein associated with glycosphingolipid microdomains 1 |
| GO | SH3/SH2 adaptor activity | 8 | 50 | 0.0192139 | 6452 | SH3-domain binding protein 2 |
| GO | SH3/SH2 adaptor activity | 8 | 50 | 0.0192139 | 84941 | hematopoietic SH2 domain containing |
| GO | SH3/SH2 adaptor activity | 8 | 50 | 0.0192139 | 8631 | src kinase associated phosphoprotein 1 |
| GO | response to estrogen stimulus | 8 | 50 | 0.0192139 | 10568 | solute carrier family 34 (sodium phosphate), member 2 |
| GO | response to estrogen stimulus | 8 | 50 | 0.0192139 | 1080 | cystic fibrosis transmembrane conductance regulator (ATP-binding cas |
| GO | response to estrogen stimulus | 8 | 50 | 0.0192139 | 2033 | E1A binding protein p300 |
| GO | response to estrogen stimulus | 8 | 50 | 0.0192139 | 2947 | glutathione S-transferase mu 3 (brain) |
| GO | response to estrogen stimulus | 8 | 50 | 0.0192139 | 3949 | low density lipoprotein receptor |
| GO | response to estrogen stimulus | 8 | 50 | 0.0192139 | 412 | steroid sulfatase (microsomal), isozyme S |
| GO | response to estrogen stimulus | 8 | 50 | 0.0192139 | 760 | carbonic anhydrase II |
| GO | response to estrogen stimulus | 8 | 50 | 0.0192139 | 7706 | tripartite motif-containing 25 |
| GO | blood vessel morphogenesis | 3 | 9 | 0.0195873 | 1906 | endothelin 1 |
| GO | blood vessel morphogenesis | 3 | 9 | 0.0195873 | 5327 | plasminogen activator, tissue |
| GO | blood vessel morphogenesis | 3 | 9 | 0.0195873 | 7026 | nuclear receptor subfamily 2, group F, member 2 |
| GO | cytoplasmic sequestering of transcrip | 3 | 9 | 0.0195873 | 4792 | nuclear factor of kappa light polypeptide gene enhancer in B-cells inhib |
| GO | cytoplasmic sequestering of transcrip | 3 | 9 | 0.0195873 | 4794 | nuclear factor of kappa light polypeptide gene enhancer in B-cells inhib |
| GO | cytoplasmic sequestering of transcrip | 3 | 9 | 0.0195873 | 4795 | nuclear factor of kappa light polypeptide gene enhancer in B-cells inhib |
| GO | oxidoreductase activity | 40 | 418 | 0.0196684 | 10170 | dehydrogenase/reductase (SDR family) member 9 |
| GO | oxidoreductase activity | 40 | 418 | 0.0196684 | 10826 | chromosome 5 open reading frame 4 |
| GO | oxidoreductase activity | 40 | 418 | 0.0196684 | 112724 | retinol dehydrogenase 13 (all-trans/9-cis) |
| GO | oxidoreductase activity | 40 | 418 | 0.0196684 | 124 | alcohol dehydrogenase 1A (class I), alpha polypeptide |
| GO | oxidoreductase activity | 40 | 418 | 0.0196684 | 125 | alcohol dehydrogenase 1B (class I), beta polypeptide |
| GO | oxidoreductase activity | 40 | 418 | 0.0196684 | 1559 | cytochrome P450, family 2, subfamily C, polypeptide 9 |
| GO | oxidoreductase activity | 40 | 418 | 0.0196684 | 1571 | cytochrome P450, family 2, subfamily E, polypeptide 1 |
| GO | oxidoreductase activity | 40 | 418 | 0.0196684 | 157506 | retinol dehydrogenase 10 (all-trans) |
| GO | oxidoreductase activity | 40 | 418 | 0.0196684 | 1577 | cytochrome P450, family 3, subfamily A, polypeptide 5 |
| GO | oxidoreductase activity | 40 | 418 | 0.0196684 | 195814 | short chain dehydrogenase/reductase family 16C, member 5 |
| GO | oxidoreductase activity | 40 | 418 | 0.0196684 | 2153 | coagulation factor V (proaccelerin, labile factor) |
| GO | oxidoreductase activity | 40 | 418 | 0.0196684 | 23081 | lysine (K)-specific demethylase 4C |

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|---|---|---|---|---|---|---|
| GO | oxidoreductase activity | 40 | 418 | 0.0196684 | 240 | arachidonate 5-lipoxygenase |
| GO | oxidoreductase activity | 40 | 418 | 0.0196684 | 254295 | phytanoyl-CoA dioxygenase domain containing 1 |
| GO | oxidoreductase activity | 40 | 418 | 0.0196684 | 27035 | NADPH oxidase 1 |
| GO | oxidoreductase activity | 40 | 418 | 0.0196684 | 316 | aldehyde oxidase 1 |
| GO | oxidoreductase activity | 40 | 418 | 0.0196684 | 3294 | hydroxysteroid (17-beta) dehydrogenase 2 |
| GO | oxidoreductase activity | 40 | 418 | 0.0196684 | 345275 | hydroxysteroid (17-beta) dehydrogenase 13 |
| GO | oxidoreductase activity | 40 | 418 | 0.0196684 | 4015 | lysyl oxidase |
| GO | oxidoreductase activity | 40 | 418 | 0.0196684 | 4128 | monoamine oxidase A |
| GO | oxidoreductase activity | 40 | 418 | 0.0196684 | 4129 | monoamine oxidase B |
| GO | oxidoreductase activity | 40 | 418 | 0.0196684 | 4524 | 5,10-methylenetetrahydrofolate reductase (NADPH) |
| GO | oxidoreductase activity | 40 | 418 | 0.0196684 | 4842 | nitric oxide synthase 1 (neuronal) |
| GO | oxidoreductase activity | 40 | 418 | 0.0196684 | 55068 | ecto-NOX disulfide-thiol exchanger 1 |
| GO | oxidoreductase activity | 40 | 418 | 0.0196684 | 55693 | lysine (K)-specific demethylase 4D |
| GO | oxidoreductase activity | 40 | 418 | 0.0196684 | 56605 | ERO1-like beta (S. cerevisiae) |
| GO | oxidoreductase activity | 40 | 418 | 0.0196684 | 5742 | prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase a |
| GO | oxidoreductase activity | 40 | 418 | 0.0196684 | 5768 | quiescin Q6 sulfhydryl oxidase 1 |
| GO | oxidoreductase activity | 40 | 418 | 0.0196684 | 59344 | arachidonate lipoxygenase 3 |
| GO | oxidoreductase activity | 40 | 418 | 0.0196684 | 622 | 3-hydroxybutyrate dehydrogenase, type 1 |
| GO | oxidoreductase activity | 40 | 418 | 0.0196684 | 64359 | nucleoredoxin |
| GO | oxidoreductase activity | 40 | 418 | 0.0196684 | 7001 | peroxiredoxin 2 |
| GO | oxidoreductase activity | 40 | 418 | 0.0196684 | 7404 | ubiquitously transcribed tetratricopeptide repeat gene, Y-linked |
| GO | oxidoreductase activity | 40 | 418 | 0.0196684 | 79152 | fatty acid 2-hydroxylase |
| GO | oxidoreductase activity | 40 | 418 | 0.0196684 | 79689 | STEAP family member 4 |
| GO | oxidoreductase activity | 40 | 418 | 0.0196684 | 84171 | lysyl oxidase-like 4 |
| GO | oxidoreductase activity | 40 | 418 | 0.0196684 | 8418 | cytidine monophosphate-N-acetylneuraminic acid hydroxylase (CMP-N |
| GO | oxidoreductase activity | 40 | 418 | 0.0196684 | 84795 | pyridine nucleotide-disulphide oxidoreductase domain 2 |
| GO | oxidoreductase activity | 40 | 418 | 0.0196684 | 8514 | potassium voltage-gated channel, shaker-related subfamily, beta mem |
| GO | oxidoreductase activity | 40 | 418 | 0.0196684 | 9563 | hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase) |
| GO | negative regulation of MAP kinase ac | 4 | 16 | 0.0203699 | 10252 | sprouty homolog 1, antagonist of FGF signaling (Drosophila) |
| GO | negative regulation of MAP kinase ac | 4 | 16 | 0.0203699 | 10253 | sprouty homolog 2 (Drosophila) |
| GO | negative regulation of MAP kinase ac | 4 | 16 | 0.0203699 | 11213 | interleukin-1 receptor-associated kinase 3 |
| GO | negative regulation of MAP kinase ac | 4 | 16 | 0.0203699 | 652 | bone morphogenetic protein 4 |
| GO | positive regulation of endothelial cell | 4 | 16 | 0.0203699 | 183 | angiotensinogen (serpin peptidase inhibitor, clade A, member 8) |
| GO | positive regulation of endothelial cell | 4 | 16 | 0.0203699 | 1906 | endothelin 1 |
| GO | positive regulation of endothelial cell | 4 | 16 | 0.0203699 | 652 | bone morphogenetic protein 4 |
| GO | positive regulation of endothelial cell | 4 | 16 | 0.0203699 | 7474 | wingless-type MMTV integration site family, member 5A |

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|---|---|---|---|---|---|---|
| GO | membrane depolarization | 4 | 16 | 0.0203699 | 1906 | endothelin 1 |
| GO | membrane depolarization | 4 | 16 | 0.0203699 | 3725 | jun oncogene |
| GO | membrane depolarization | 4 | 16 | 0.0203699 | 5025 | purinergic receptor P2X, ligand-gated ion channel, 4 |
| GO | membrane depolarization | 4 | 16 | 0.0203699 | 8973 | cholinergic receptor, nicotinic, alpha 6 |
| GO | SMAD protein signal transduction | 4 | 16 | 0.0203699 | 2353 | FBJ murine osteosarcoma viral oncogene homolog |
| GO | SMAD protein signal transduction | 4 | 16 | 0.0203699 | 28996 | homeodomain interacting protein kinase 2 |
| GO | SMAD protein signal transduction | 4 | 16 | 0.0203699 | 3725 | jun oncogene |
| GO | SMAD protein signal transduction | 4 | 16 | 0.0203699 | 652 | bone morphogenetic protein 4 |
| GO | positive regulation of vasoconstrictio | 4 | 16 | 0.0203699 | 240 | arachidonate 5-lipoxygenase |
| GO | positive regulation of vasoconstrictio | 4 | 16 | 0.0203699 | 4886 | neuropeptide Y receptor Y1 |
| GO | positive regulation of vasoconstrictio | 4 | 16 | 0.0203699 | 5742 | prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase a |
| GO | positive regulation of vasoconstrictio | 4 | 16 | 0.0203699 | 952 | CD38 molecule |
| GO | negative regulation of transcription, I | 12 | 91 | 0.0208708 | 2122 | MDS1 and EVI1 complex locus |
| GO | negative regulation of transcription, I | 12 | 91 | 0.0208708 | 2290 | forkhead box G1 |
| GO | negative regulation of transcription, I | 12 | 91 | 0.0208708 | 22904 | strawberry notch homolog 2 (Drosophila) |
| GO | negative regulation of transcription, I | 12 | 91 | 0.0208708 | 23119 | hypermethylated in cancer 2 |
| GO | negative regulation of transcription, I | 12 | 91 | 0.0208708 | 4087 | SMAD family member 2 |
| GO | negative regulation of transcription, I | 12 | 91 | 0.0208708 | 5083 | paired box 9 |
| GO | negative regulation of transcription, I | 12 | 91 | 0.0208708 | 51085 | MLX interacting protein-like |
| GO | negative regulation of transcription, I | 12 | 91 | 0.0208708 | 51655 | RAS, dexamethasone-induced 1 |
| GO | negative regulation of transcription, I | 12 | 91 | 0.0208708 | 7227 | trichorhinophalangeal syndrome I |
| GO | negative regulation of transcription, I | 12 | 91 | 0.0208708 | 84159 | AT rich interactive domain 5B (MRF1-like) |
| GO | negative regulation of transcription, I | 12 | 91 | 0.0208708 | 8553 | basic helix-loop-helix family, member e40 |
| GO | negative regulation of transcription, I | 12 | 91 | 0.0208708 | 9314 | Kruppel-like factor 4 (gut) |
| GO | positive regulation of nitric oxide bios | 5 | 24 | 0.0211278 | 1906 | endothelin 1 |
| GO | positive regulation of nitric oxide bios | 5 | 24 | 0.0211278 | 3643 | insulin receptor |
| GO | positive regulation of nitric oxide bios | 5 | 24 | 0.0211278 | 5025 | purinergic receptor P2X, ligand-gated ion channel, 4 |
| GO | positive regulation of nitric oxide bios | 5 | 24 | 0.0211278 | 7097 | toll-like receptor 2 |
| GO | positive regulation of nitric oxide bios | 5 | 24 | 0.0211278 | 7099 | toll-like receptor 4 |
| GO | response to insulin stimulus | 8 | 51 | 0.0214672 | 130399 | activin A receptor, type IC |
| GO | response to insulin stimulus | 8 | 51 | 0.0214672 | 1958 | early growth response 1 |
| GO | response to insulin stimulus | 8 | 51 | 0.0214672 | 1959 | early growth response 2 |
| GO | response to insulin stimulus | 8 | 51 | 0.0214672 | 5465 | peroxisome proliferator-activated receptor alpha |
| GO | response to insulin stimulus | 8 | 51 | 0.0214672 | 5950 | retinol binding protein 4, plasma |
| GO | response to insulin stimulus | 8 | 51 | 0.0214672 | 7097 | toll-like receptor 2 |
| GO | response to insulin stimulus | 8 | 51 | 0.0214672 | 7099 | toll-like receptor 4 |

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|---|---|---|---|---|---|---|
| GO | response to insulin stimulus | 8 | 51 | 0.0214672 | 9021 | suppressor of cytokine signaling 3 |
| GO | cell growth | 7 | 42 | 0.0225346 | 2263 | fibroblast growth factor receptor 2 |
| GO | cell growth | 7 | 42 | 0.0225346 | 26281 | fibroblast growth factor 20 |
| GO | cell growth | 7 | 42 | 0.0225346 | 4853 | Notch homolog 2 (Drosophila) |
| GO | cell growth | 7 | 42 | 0.0225346 | 54904 | Wolf-Hirschhorn syndrome candidate 1-like 1 |
| GO | cell growth | 7 | 42 | 0.0225346 | 7049 | transforming growth factor, beta receptor III |
| GO | cell growth | 7 | 42 | 0.0225346 | 8527 | diacylglycerol kinase, delta 130kDa |
| GO | cell growth | 7 | 42 | 0.0225346 | 8992 | ATPase, H+ transporting, lysosomal 9kDa, V0 subunit e1 |
| GO | heart development | 14 | 114 | 0.0234467 | 116113 | forkhead box P4 |
| GO | heart development | 14 | 114 | 0.0234467 | 1906 | endothelin 1 |
| GO | heart development | 14 | 114 | 0.0234467 | 2033 | E1A binding protein p300 |
| GO | heart development | 14 | 114 | 0.0234467 | 2200 | fibrillin 1 |
| GO | heart development | 14 | 114 | 0.0234467 | 2296 | forkhead box C1 |
| GO | heart development | 14 | 114 | 0.0234467 | 27295 | PDZ and LIM domain 3 |
| GO | heart development | 14 | 114 | 0.0234467 | 2737 | GLI family zinc finger 3 |
| GO | heart development | 14 | 114 | 0.0234467 | 4151 | myoglobin |
| GO | heart development | 14 | 114 | 0.0234467 | 4851 | Notch homolog 1, translocation-associated (Drosophila) |
| GO | heart development | 14 | 114 | 0.0234467 | 5318 | plakophilin 2 |
| GO | heart development | 14 | 114 | 0.0234467 | 5463 | POU class 6 homeobox 1 |
| GO | heart development | 14 | 114 | 0.0234467 | 5950 | retinol binding protein 4, plasma |
| GO | heart development | 14 | 114 | 0.0234467 | 6256 | retinoid X receptor, alpha |
| GO | heart development | 14 | 114 | 0.0234467 | 9734 | histone deacetylase 9 |
| GO | skeletal system development | 15 | 125 | 0.0235015 | 1009 | cadherin 11, type 2, OB-cadherin (osteoblast) |
| GO | skeletal system development | 15 | 125 | 0.0235015 | 1969 | EPH receptor A2 |
| GO | skeletal system development | 15 | 125 | 0.0235015 | 2114 | v-ets erythroblastosis virus E26 oncogene homolog 2 (avian) |
| GO | skeletal system development | 15 | 125 | 0.0235015 | 2200 | fibrillin 1 |
| GO | skeletal system development | 15 | 125 | 0.0235015 | 2296 | forkhead box C1 |
| GO | skeletal system development | 15 | 125 | 0.0235015 | 2303 | forkhead box C2 (MFH-1, mesenchyme forkhead 1) |
| GO | skeletal system development | 15 | 125 | 0.0235015 | 3479 | insulin-like growth factor 1 (somatomedin C) |
| GO | skeletal system development | 15 | 125 | 0.0235015 | 3958 | lectin, galactoside-binding, soluble, 3 |
| GO | skeletal system development | 15 | 125 | 0.0235015 | 5307 | paired-like homeodomain 1 |
| GO | skeletal system development | 15 | 125 | 0.0235015 | 56172 | ankylosis, progressive homolog (mouse) |
| GO | skeletal system development | 15 | 125 | 0.0235015 | 7071 | Kruppel-like factor 10 |
| GO | skeletal system development | 15 | 125 | 0.0235015 | 7092 | tolloid-like 1 |
| GO | skeletal system development | 15 | 125 | 0.0235015 | 7227 | trichorhinophalangeal syndrome I |
| GO | skeletal system development | 15 | 125 | 0.0235015 | 8646 | chordin |

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|---|---|---|---|---|---|---|
| GO | skeletal system development | 15 | 125 | 0.0235015 | 9060 | 3'-phosphoadenosine 5'-phosphosulfate synthase 2 |
| GO | response to peptide hormone stimul | 9 | 62 | 0.0243001 | 1080 | cystic fibrosis transmembrane conductance regulator (ATP-binding cas |
| GO | response to peptide hormone stimul | 9 | 62 | 0.0243001 | 1508 | cathepsin B |
| GO | response to peptide hormone stimul | 9 | 62 | 0.0243001 | 3570 | interleukin 6 receptor |
| GO | response to peptide hormone stimul | 9 | 62 | 0.0243001 | 3726 | jun B proto-oncogene |
| GO | response to peptide hormone stimul | 9 | 62 | 0.0243001 | 412 | steroid sulfatase (microsomal), isozyme S |
| GO | response to peptide hormone stimul | 9 | 62 | 0.0243001 | 5122 | proprotein convertase subtilisin/kexin type 1 |
| GO | response to peptide hormone stimul | 9 | 62 | 0.0243001 | 5327 | plasminogen activator, tissue |
| GO | response to peptide hormone stimul | 9 | 62 | 0.0243001 | 682 | basigin (Ok blood group) |
| GO | response to peptide hormone stimul | 9 | 62 | 0.0243001 | 8013 | nuclear receptor subfamily 4, group A, member 3 |
| GO | positive regulation of transcription fa | 5 | 25 | 0.0249642 | 10014 | histone deacetylase 5 |
| GO | positive regulation of transcription fa | 5 | 25 | 0.0249642 | 10891 | peroxisome proliferator-activated receptor gamma, coactivator 1 alph |
| GO | positive regulation of transcription fa | 5 | 25 | 0.0249642 | 2033 | E1A binding protein p300 |
| GO | positive regulation of transcription fa | 5 | 25 | 0.0249642 | 3169 | forkhead box A1 |
| GO | positive regulation of transcription fa | 5 | 25 | 0.0249642 | 3569 | interleukin 6 (interferon, beta 2) |
| GO | brown fat cell differentiation | 5 | 25 | 0.0249642 | 10891 | peroxisome proliferator-activated receptor gamma, coactivator 1 alph |
| GO | brown fat cell differentiation | 5 | 25 | 0.0249642 | 116844 | leucine-rich alpha-2-glycoprotein 1 |
| GO | brown fat cell differentiation | 5 | 25 | 0.0249642 | 154 | adrenergic, beta-2-, receptor, surface |
| GO | brown fat cell differentiation | 5 | 25 | 0.0249642 | 3914 | laminin, beta 3 |
| GO | brown fat cell differentiation | 5 | 25 | 0.0249642 | 4151 | myoglobin |
| GO | activation of JUN kinase activity | 5 | 25 | 0.0249642 | 2205 | Fc fragment of IgE, high affinity I, receptor for; alpha polypeptide |
| GO | activation of JUN kinase activity | 5 | 25 | 0.0249642 | 4293 | mitogen-activated protein kinase kinase kinase 9 |
| GO | activation of JUN kinase activity | 5 | 25 | 0.0249642 | 6850 | spleen tyrosine kinase |
| GO | activation of JUN kinase activity | 5 | 25 | 0.0249642 | 79444 | baculoviral IAP repeat-containing 7 |
| GO | activation of JUN kinase activity | 5 | 25 | 0.0249642 | 9064 | mitogen-activated protein kinase kinase kinase 6 |
| GO | organ morphogenesis | 14 | 115 | 0.0250801 | 10253 | sprouty homolog 2 (Drosophila) |
| GO | organ morphogenesis | 14 | 115 | 0.0250801 | 157506 | retinol dehydrogenase 10 (all-trans) |
| GO | organ morphogenesis | 14 | 115 | 0.0250801 | 1948 | ephrin-B2 |
| GO | organ morphogenesis | 14 | 115 | 0.0250801 | 2033 | E1A binding protein p300 |
| GO | organ morphogenesis | 14 | 115 | 0.0250801 | 28959 | transmembrane protein 176B |
| GO | organ morphogenesis | 14 | 115 | 0.0250801 | 3687 | integrin, alpha X (complement component 3 receptor 4 subunit) |
| GO | organ morphogenesis | 14 | 115 | 0.0250801 | 3911 | laminin, alpha 5 |
| GO | organ morphogenesis | 14 | 115 | 0.0250801 | 3983 | actin binding LIM protein 1 |
| GO | organ morphogenesis | 14 | 115 | 0.0250801 | 4853 | Notch homolog 2 (Drosophila) |
| GO | organ morphogenesis | 14 | 115 | 0.0250801 | 5308 | paired-like homeodomain 2 |
| GO | organ morphogenesis | 14 | 115 | 0.0250801 | 6850 | spleen tyrosine kinase |

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|---|---|---|---|---|---|---|
| GO | organ morphogenesis | 14 | 115 | 0.0250801 | 7089 | transducin-like enhancer of split 2 (E(sp1) homolog, Drosophila) |
| GO | organ morphogenesis | 14 | 115 | 0.0250801 | 7090 | transducin-like enhancer of split 3 (E(sp1) homolog, Drosophila) |
| GO | organ morphogenesis | 14 | 115 | 0.0250801 | 8600 | tumor necrosis factor (ligand) superfamily, member 11 |
| GO | positive regulation of calcium-mediat | 4 | 17 | 0.0252293 | 2205 | Fc fragment of IgE, high affinity I, receptor for; alpha polypeptide |
| GO | positive regulation of calcium-mediat | 4 | 17 | 0.0252293 | 4684 | neural cell adhesion molecule 1 |
| GO | positive regulation of calcium-mediat | 4 | 17 | 0.0252293 | 5025 | purinergic receptor P2X, ligand-gated ion channel, 4 |
| GO | positive regulation of calcium-mediat | 4 | 17 | 0.0252293 | 6850 | spleen tyrosine kinase |
| GO | nitrogen compound metabolic proce: | 4 | 17 | 0.0252293 | 2752 | glutamate-ammonia ligase (glutamine synthetase) |
| GO | nitrogen compound metabolic proce: | 4 | 17 | 0.0252293 | 4817 | nitrilase 1 |
| GO | nitrogen compound metabolic proce: | 4 | 17 | 0.0252293 | 84159 | AT rich interactive domain 5B (MRF1-like) |
| GO | nitrogen compound metabolic proce: | 4 | 17 | 0.0252293 | 8875 | vanin 2 |
| GO | endoderm development | 4 | 17 | 0.0252293 | 3175 | one cut homeobox 1 |
| GO | endoderm development | 4 | 17 | 0.0252293 | 4087 | SMAD family member 2 |
| GO | endoderm development | 4 | 17 | 0.0252293 | 4851 | Notch homolog 1, translocation-associated (Drosophila) |
| GO | endoderm development | 4 | 17 | 0.0252293 | 5083 | paired box 9 |
| GO | 1-acylglycerophosphocholine O-acylt | 2 | 4 | 0.0255251 | 10162 | lysophosphatidylcholine acyltransferase 3 |
| GO | 1-acylglycerophosphocholine O-acylt | 2 | 4 | 0.0255251 | 54947 | lysophosphatidylcholine acyltransferase 2 |
| GO | proton-transporting two-sector ATPa | 2 | 4 | 0.0255251 | 10312 | T-cell, immune regulator 1, ATPase, H+ transporting, lysosomal V0 subu |
| GO | proton-transporting two-sector ATPa | 2 | 4 | 0.0255251 | 50617 | ATPase, H+ transporting, lysosomal V0 subunit a4 |
| GO | positive regulation of fatty acid oxida | 2 | 4 | 0.0255251 | 10891 | peroxisome proliferator-activated receptor gamma, coactivator 1 alpha |
| GO | positive regulation of fatty acid oxida | 2 | 4 | 0.0255251 | 5465 | peroxisome proliferator-activated receptor alpha |
| GO | MyD88-dependent toll-like receptor : | 2 | 4 | 0.0255251 | 11213 | interleukin-1 receptor-associated kinase 3 |
| GO | MyD88-dependent toll-like receptor : | 2 | 4 | 0.0255251 | 7097 | toll-like receptor 2 |
| GO | alcohol dehydrogenase activity, zinc-( | 2 | 4 | 0.0255251 | 124 | alcohol dehydrogenase 1A (class I), alpha polypeptide |
| GO | alcohol dehydrogenase activity, zinc-( | 2 | 4 | 0.0255251 | 125 | alcohol dehydrogenase 1B (class I), beta polypeptide |
| GO | glial cell migration | 2 | 4 | 0.0255251 | 1462 | versican |
| GO | glial cell migration | 2 | 4 | 0.0255251 | 4692 | necdin homolog (mouse) |
| GO | phospholipid translocation | 2 | 4 | 0.0255251 | 148229 | ATPase, class I, type 8B, member 3 |
| GO | phospholipid translocation | 2 | 4 | 0.0255251 | 3783 | potassium intermediate/small conductance calcium-activated channel, |
| GO | caffeine oxidase activity | 2 | 4 | 0.0255251 | 1558 | cytochrome P450, family 2, subfamily C, polypeptide 8 |
| GO | caffeine oxidase activity | 2 | 4 | 0.0255251 | 1559 | cytochrome P450, family 2, subfamily C, polypeptide 9 |
| GO | drug catabolic process | 2 | 4 | 0.0255251 | 1559 | cytochrome P450, family 2, subfamily C, polypeptide 9 |
| GO | drug catabolic process | 2 | 4 | 0.0255251 | 1577 | cytochrome P450, family 3, subfamily A, polypeptide 5 |
| GO | Gram-positive bacterial cell surface b | 2 | 4 | 0.0255251 | 1755 | deleted in malignant brain tumors 1 |
| GO | Gram-positive bacterial cell surface b | 2 | 4 | 0.0255251 | 7097 | toll-like receptor 2 |
| GO | intercellular canaliculus | 2 | 4 | 0.0255251 | 1803 | dipeptidyl-peptidase 4 |

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|---|---|---|---|---|---|---|
| GO | intercellular canaliculus | 2 | 4 | 0.0255251 | 5244 | ATP-binding cassette, sub-family B (MDR/TAP), member 4 |
| GO | behavioral response to ethanol | 2 | 4 | 0.0255251 | 1813 | dopamine receptor D2 |
| GO | behavioral response to ethanol | 2 | 4 | 0.0255251 | 1815 | dopamine receptor D4 |
| GO | cerebral cortex GABAergic interneurc | 2 | 4 | 0.0255251 | 1813 | dopamine receptor D2 |
| GO | cerebral cortex GABAergic interneurc | 2 | 4 | 0.0255251 | 26468 | LIM homeobox 6 |
| GO | dopamine receptor activity | 2 | 4 | 0.0255251 | 1813 | dopamine receptor D2 |
| GO | dopamine receptor activity | 2 | 4 | 0.0255251 | 1815 | dopamine receptor D4 |
| GO | cellular sodium ion homeostasis | 2 | 4 | 0.0255251 | 183 | angiotensinogen (serpin peptidase inhibitor, clade A, member 8) |
| GO | cellular sodium ion homeostasis | 2 | 4 | 0.0255251 | 64699 | transmembrane protease, serine 3 |
| GO | positive regulation of cardiac muscle | 2 | 4 | 0.0255251 | 183 | angiotensinogen (serpin peptidase inhibitor, clade A, member 8) |
| GO | positive regulation of cardiac muscle | 2 | 4 | 0.0255251 | 1906 | endothelin 1 |
| GO | regulation of blood volume by renin-a | 2 | 4 | 0.0255251 | 183 | angiotensinogen (serpin peptidase inhibitor, clade A, member 8) |
| GO | regulation of blood volume by renin-a | 2 | 4 | 0.0255251 | 5972 | renin |
| GO | bioluminescence | 2 | 4 | 0.0255251 | 22795 | nidogen 2 (osteonidogen) |
| GO | bioluminescence | 2 | 4 | 0.0255251 | 83872 | hemicentin 1 |
| GO | hindgut morphogenesis | 2 | 4 | 0.0255251 | 2737 | GLI family zinc finger 3 |
| GO | hindgut morphogenesis | 2 | 4 | 0.0255251 | 7474 | wingless-type MMTV integration site family, member 5A |
| GO | head morphogenesis | 2 | 4 | 0.0255251 | 28982 | feline leukemia virus subgroup C cellular receptor 1 |
| GO | head morphogenesis | 2 | 4 | 0.0255251 | 29123 | ankyrin repeat domain 11 |
| GO | monocyte chemotaxis | 2 | 4 | 0.0255251 | 3569 | interleukin 6 (interferon, beta 2) |
| GO | monocyte chemotaxis | 2 | 4 | 0.0255251 | 3570 | interleukin 6 receptor |
| GO | negative regulation of collagen biosyı | 2 | 4 | 0.0255251 | 3569 | interleukin 6 (interferon, beta 2) |
| GO | negative regulation of collagen biosyı | 2 | 4 | 0.0255251 | 3570 | interleukin 6 receptor |
| GO | carbon dioxide transport | 2 | 4 | 0.0255251 | 358 | aquaporin 1 (Colton blood group) |
| GO | carbon dioxide transport | 2 | 4 | 0.0255251 | 760 | carbonic anhydrase II |
| GO | cellular response to dexamethasone | 2 | 4 | 0.0255251 | 358 | aquaporin 1 (Colton blood group) |
| GO | cellular response to dexamethasone | 2 | 4 | 0.0255251 | 652 | bone morphogenetic protein 4 |
| GO | plasma membrane organization | 2 | 4 | 0.0255251 | 375790 | agrin |
| GO | plasma membrane organization | 2 | 4 | 0.0255251 | 53947 | alpha 1,4-galactosyltransferase |
| GO | fibril | 2 | 4 | 0.0255251 | 4586 | mucin 5AC, oligomeric mucus/gel-forming |
| GO | fibril | 2 | 4 | 0.0255251 | 6622 | synuclein, alpha (non A4 component of amyloid precursor) |
| GO | negative regulation of myeloid cell di | 2 | 4 | 0.0255251 | 4792 | nuclear factor of kappa light polypeptide gene enhancer in B-cells inhik |
| GO | negative regulation of myeloid cell di | 2 | 4 | 0.0255251 | 7538 | zinc finger protein 36, C3H type, homolog (mouse) |
| GO | nucleotide-binding oligomerization d | 2 | 4 | 0.0255251 | 4792 | nuclear factor of kappa light polypeptide gene enhancer in B-cells inhik |
| GO | nucleotide-binding oligomerization d | 2 | 4 | 0.0255251 | 64127 | nucleotide-binding oligomerization domain containing 2 |
| GO | response to muramyl dipeptide | 2 | 4 | 0.0255251 | 4792 | nuclear factor of kappa light polypeptide gene enhancer in B-cells inhik |

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|---|---|---|---|---|---|---|
| GO | response to muramyl dipeptide | 2 | 4 | 0.0255251 | 64127 | nucleotide-binding oligomerization domain containing 2 |
| GO | peptide YY receptor activity | 2 | 4 | 0.0255251 | 4886 | neuropeptide Y receptor Y1 |
| GO | peptide YY receptor activity | 2 | 4 | 0.0255251 | 4889 | neuropeptide Y receptor Y5 |
| GO | regulation of Wnt receptor signaling | 2 | 4 | 0.0255251 | 5218 | cyclin-dependent kinase 14 |
| GO | regulation of Wnt receptor signaling | 2 | 4 | 0.0255251 | 83595 | SRY (sex determining region Y)-box 7 |
| GO | negative regulation of appetite | 2 | 4 | 0.0255251 | 5465 | peroxisome proliferator-activated receptor alpha |
| GO | negative regulation of appetite | 2 | 4 | 0.0255251 | 885 | cholecystokinin |
| GO | negative regulation of sequestering c | 2 | 4 | 0.0255251 | 5465 | peroxisome proliferator-activated receptor alpha |
| GO | negative regulation of sequestering c | 2 | 4 | 0.0255251 | 57104 | patatin-like phospholipase domain containing 2 |
| GO | negative regulation of membrane pr | 2 | 4 | 0.0255251 | 5774 | protein tyrosine phosphatase, non-receptor type 3 |
| GO | negative regulation of membrane pr | 2 | 4 | 0.0255251 | 7076 | TIMP metallopeptidase inhibitor 1 |
| GO | urinary bladder development | 2 | 4 | 0.0255251 | 5950 | retinol binding protein 4, plasma |
| GO | urinary bladder development | 2 | 4 | 0.0255251 | 7474 | wingless-type MMTV integration site family, member 5A |
| GO | peptide:hydrogen symporter activity | 2 | 4 | 0.0255251 | 6564 | solute carrier family 15 (oligopeptide transporter), member 1 |
| GO | peptide:hydrogen symporter activity | 2 | 4 | 0.0255251 | 6565 | solute carrier family 15 (H+/peptide transporter), member 2 |
| GO | cobalamin transport | 2 | 4 | 0.0255251 | 6947 | transcobalamin I (vitamin B12 binding protein, R binder family) |
| GO | cobalamin transport | 2 | 4 | 0.0255251 | 6948 | transcobalamin II; macrocytic anemia |
| GO | positive regulation of nitric-oxide syn | 2 | 4 | 0.0255251 | 7097 | toll-like receptor 2 |
| GO | positive regulation of nitric-oxide syn | 2 | 4 | 0.0255251 | 7099 | toll-like receptor 4 |
| GO | lipopolysaccharide receptor complex | 2 | 4 | 0.0255251 | 7099 | toll-like receptor 4 |
| GO | lipopolysaccharide receptor complex | 2 | 4 | 0.0255251 | 929 | CD14 molecule |
| GO | positive regulation of bone resorptio | 2 | 4 | 0.0255251 | 760 | carbonic anhydrase II |
| GO | positive regulation of bone resorptio | 2 | 4 | 0.0255251 | 8600 | tumor necrosis factor (ligand) superfamily, member 11 |
| GO | activation of MAPK activity | 8 | 53 | 0.0265222 | 1139 | cholinergic receptor, nicotinic, alpha 7 |
| GO | activation of MAPK activity | 8 | 53 | 0.0265222 | 1815 | dopamine receptor D4 |
| GO | activation of MAPK activity | 8 | 53 | 0.0265222 | 2911 | glutamate receptor, metabotropic 1 |
| GO | activation of MAPK activity | 8 | 53 | 0.0265222 | 3643 | insulin receptor |
| GO | activation of MAPK activity | 8 | 53 | 0.0265222 | 5608 | mitogen-activated protein kinase kinase 6 |
| GO | activation of MAPK activity | 8 | 53 | 0.0265222 | 7001 | peroxiredoxin 2 |
| GO | activation of MAPK activity | 8 | 53 | 0.0265222 | 7099 | toll-like receptor 4 |
| GO | activation of MAPK activity | 8 | 53 | 0.0265222 | 7852 | chemokine (C-X-C motif) receptor 4 |
| GO | dopamine metabolic process | 3 | 10 | 0.026582 | 1813 | dopamine receptor D2 |
| GO | dopamine metabolic process | 3 | 10 | 0.026582 | 1815 | dopamine receptor D4 |
| GO | dopamine metabolic process | 3 | 10 | 0.026582 | 5071 | Parkinson disease (autosomal recessive, juvenile) 2, parkin |
| GO | prostaglandin biosynthetic process | 3 | 10 | 0.026582 | 1906 | endothelin 1 |
| GO | prostaglandin biosynthetic process | 3 | 10 | 0.026582 | 5742 | prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase a |

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|---|---|---|---|---|---|---|
| GO | prostaglandin biosynthetic process | 3 | 10 | 0.026582 | 6916 | thromboxane A synthase 1 (platelet) |
| GO | fatty acid transport | 3 | 10 | 0.026582 | 2182 | acyl-CoA synthetase long-chain family member 4 |
| GO | fatty acid transport | 3 | 10 | 0.026582 | 51703 | acyl-CoA synthetase long-chain family member 5 |
| GO | fatty acid transport | 3 | 10 | 0.026582 | 5465 | peroxisome proliferator-activated receptor alpha |
| GO | R-SMAD binding | 3 | 10 | 0.026582 | 2353 | FBJ murine osteosarcoma viral oncogene homolog |
| GO | R-SMAD binding | 3 | 10 | 0.026582 | 3725 | jun oncogene |
| GO | R-SMAD binding | 3 | 10 | 0.026582 | 4087 | SMAD family member 2 |
| GO | prostate gland epithelium morphoge | 3 | 10 | 0.026582 | 3169 | forkhead box A1 |
| GO | prostate gland epithelium morphoge | 3 | 10 | 0.026582 | 3479 | insulin-like growth factor 1 (somatomedin C) |
| GO | prostate gland epithelium morphoge | 3 | 10 | 0.026582 | 4851 | Notch homolog 1, translocation-associated (Drosophila) |
| GO | defense response to Gram-negative | 3 | 10 | 0.026582 | 3569 | interleukin 6 (interferon, beta 2) |
| GO | defense response to Gram-negative | 3 | 10 | 0.026582 | 3570 | interleukin 6 receptor |
| GO | defense response to Gram-negative | 3 | 10 | 0.026582 | 7099 | toll-like receptor 4 |
| GO | phosphoinositide 3-kinase binding | 3 | 10 | 0.026582 | 3643 | insulin receptor |
| GO | phosphoinositide 3-kinase binding | 3 | 10 | 0.026582 | 7099 | toll-like receptor 4 |
| GO | phosphoinositide 3-kinase binding | 3 | 10 | 0.026582 | 8660 | insulin receptor substrate 2 |
| GO | metalloendopeptidase inhibitor activ | 3 | 10 | 0.026582 | 50859 | sparc/osteonectin, cwcv and kazal-like domains proteoglycan (testican |
| GO | metalloendopeptidase inhibitor activ | 3 | 10 | 0.026582 | 7076 | TIMP metallopeptidase inhibitor 1 |
| GO | metalloendopeptidase inhibitor activ | 3 | 10 | 0.026582 | 8434 | reversion-inducing-cysteine-rich protein with kazal motifs |
| GO | response to virus | 13 | 105 | 0.0266736 | 10346 | tripartite motif-containing 22 |
| GO | response to virus | 13 | 105 | 0.0266736 | 10561 | interferon-induced protein 44 |
| GO | response to virus | 13 | 105 | 0.0266736 | 11213 | interleukin-1 receptor-associated kinase 3 |
| GO | response to virus | 13 | 105 | 0.0266736 | 1755 | deleted in malignant brain tumors 1 |
| GO | response to virus | 13 | 105 | 0.0266736 | 3428 | interferon, gamma-inducible protein 16 |
| GO | response to virus | 13 | 105 | 0.0266736 | 3665 | interferon regulatory factor 7 |
| GO | response to virus | 13 | 105 | 0.0266736 | 4486 | macrophage stimulating 1 receptor (c-met-related tyrosine kinase) |
| GO | response to virus | 13 | 105 | 0.0266736 | 4599 | myxovirus (influenza virus) resistance 1, interferon-inducible protein p |
| GO | response to virus | 13 | 105 | 0.0266736 | 4600 | myxovirus (influenza virus) resistance 2 (mouse) |
| GO | response to virus | 13 | 105 | 0.0266736 | 64135 | interferon induced with helicase C domain 1 |
| GO | response to virus | 13 | 105 | 0.0266736 | 684 | bone marrow stromal cell antigen 2 |
| GO | response to virus | 13 | 105 | 0.0266736 | 7706 | tripartite motif-containing 25 |
| GO | response to virus | 13 | 105 | 0.0266736 | 7852 | chemokine (C-X-C motif) receptor 4 |
| GO | peptidase activity | 43 | 465 | 0.0268423 | 10942 | protease, serine, 21 (testisin) |
| GO | peptidase activity | 43 | 465 | 0.0268423 | 11202 | kallikrein-related peptidase 8 |
| GO | peptidase activity | 43 | 465 | 0.0268423 | 121665 | signal peptide peptidase 3 |
| GO | peptidase activity | 43 | 465 | 0.0268423 | 1363 | carboxypeptidase E |

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|---|---|---|---|---|---|---|
| GO | peptidase activity | 43 | 465 | 0.0268423 | 1368 | carboxypeptidase M |
| GO | peptidase activity | 43 | 465 | 0.0268423 | 1508 | cathepsin B |
| GO | peptidase activity | 43 | 465 | 0.0268423 | 1519 | cathepsin O |
| GO | peptidase activity | 43 | 465 | 0.0268423 | 1540 | cylindromatosis (turban tumor syndrome) |
| GO | peptidase activity | 43 | 465 | 0.0268423 | 170692 | ADAM metallopeptidase with thrombospondin type 1 motif, 18 |
| GO | peptidase activity | 43 | 465 | 0.0268423 | 1803 | dipeptidyl-peptidase 4 |
| GO | peptidase activity | 43 | 465 | 0.0268423 | 255738 | proprotein convertase subtilisin/kexin type 9 |
| GO | peptidase activity | 43 | 465 | 0.0268423 | 25825 | beta-site APP-cleaving enzyme 2 |
| GO | peptidase activity | 43 | 465 | 0.0268423 | 25862 | ubiquitin specific peptidase 49 |
| GO | peptidase activity | 43 | 465 | 0.0268423 | 388743 | calpain 8 |
| GO | peptidase activity | 43 | 465 | 0.0268423 | 4316 | matrix metallopeptidase 7 (matrilysin, uterine) |
| GO | peptidase activity | 43 | 465 | 0.0268423 | 5046 | proprotein convertase subtilisin/kexin type 6 |
| GO | peptidase activity | 43 | 465 | 0.0268423 | 5122 | proprotein convertase subtilisin/kexin type 1 |
| GO | peptidase activity | 43 | 465 | 0.0268423 | 51279 | complement component 1, r subcomponent-like |
| GO | peptidase activity | 43 | 465 | 0.0268423 | 5327 | plasminogen activator, tissue |
| GO | peptidase activity | 43 | 465 | 0.0268423 | 54504 | carboxypeptidase, vitellogenic-like |
| GO | peptidase activity | 43 | 465 | 0.0268423 | 54933 | rhomboid, veinlet-like 2 (Drosophila) |
| GO | peptidase activity | 43 | 465 | 0.0268423 | 55432 | YOD1 OTU deubiquinating enzyme 1 homolog (S. cerevisiae) |
| GO | peptidase activity | 43 | 465 | 0.0268423 | 5648 | mannan-binding lectin serine peptidase 1 (C4/C2 activating componen |
| GO | peptidase activity | 43 | 465 | 0.0268423 | 56547 | matrix metallopeptidase 26 |
| GO | peptidase activity | 43 | 465 | 0.0268423 | 5655 | kallikrein-related peptidase 10 |
| GO | peptidase activity | 43 | 465 | 0.0268423 | 56649 | transmembrane protease, serine 4 |
| GO | peptidase activity | 43 | 465 | 0.0268423 | 5696 | proteasome (prosome, macropain) subunit, beta type, 8 (large multifu |
| GO | peptidase activity | 43 | 465 | 0.0268423 | 5698 | proteasome (prosome, macropain) subunit, beta type, 9 (large multifu |
| GO | peptidase activity | 43 | 465 | 0.0268423 | 5699 | proteasome (prosome, macropain) subunit, beta type, 10 |
| GO | peptidase activity | 43 | 465 | 0.0268423 | 57094 | carboxypeptidase A6 |
| GO | peptidase activity | 43 | 465 | 0.0268423 | 5972 | renin |
| GO | peptidase activity | 43 | 465 | 0.0268423 | 629 | complement factor B |
| GO | peptidase activity | 43 | 465 | 0.0268423 | 64699 | transmembrane protease, serine 3 |
| GO | peptidase activity | 43 | 465 | 0.0268423 | 7092 | tolloid-like 1 |
| GO | peptidase activity | 43 | 465 | 0.0268423 | 715 | complement component 1, r subcomponent |
| GO | peptidase activity | 43 | 465 | 0.0268423 | 717 | complement component 2 |
| GO | peptidase activity | 43 | 465 | 0.0268423 | 726 | calpain 5 |
| GO | peptidase activity | 43 | 465 | 0.0268423 | 79956 | endoplasmic reticulum metallopeptidase 1 |
| GO | peptidase activity | 43 | 465 | 0.0268423 | 834 | caspase 1, apoptosis-related cysteine peptidase (interleukin 1, beta, co |
| GO | peptidase activity | 43 | 465 | 0.0268423 | 837 | caspase 4, apoptosis-related cysteine peptidase |

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|---|---|---|---|---|---|---|
| GO | peptidase activity | 43 | 465 | 0.0268423 | 8722 | cathepsin F |
| GO | peptidase activity | 43 | 465 | 0.0268423 | 8751 | ADAM metallopeptidase domain 15 |
| GO | peptidase activity | 43 | 465 | 0.0268423 | 9510 | ADAM metallopeptidase with thrombospondin type 1 motif, 1 |
| GO | sugar binding | 18 | 161 | 0.0268651 | 124220 | zymogen granule protein 16 homolog B (rat) |
| GO | sugar binding | 18 | 161 | 0.0268651 | 1462 | versican |
| GO | sugar binding | 18 | 161 | 0.0268651 | 202 | absent in melanoma 1 |
| GO | sugar binding | 18 | 161 | 0.0268651 | 22859 | latrophilin 1 |
| GO | sugar binding | 18 | 161 | 0.0268651 | 22925 | phospholipase A2 receptor 1, 180kDa |
| GO | sugar binding | 18 | 161 | 0.0268651 | 23266 | latrophilin 2 |
| GO | sugar binding | 18 | 161 | 0.0268651 | 23284 | latrophilin 3 |
| GO | sugar binding | 18 | 161 | 0.0268651 | 2517 | fucosidase, alpha-L- 1, tissue |
| GO | sugar binding | 18 | 161 | 0.0268651 | 2589 | UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosami |
| GO | sugar binding | 18 | 161 | 0.0268651 | 374378 | UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosami |
| GO | sugar binding | 18 | 161 | 0.0268651 | 3823 | killer cell lectin-like receptor subfamily C, member 3 |
| GO | sugar binding | 18 | 161 | 0.0268651 | 3958 | lectin, galactoside-binding, soluble, 3 |
| GO | sugar binding | 18 | 161 | 0.0268651 | 4065 | lymphocyte antigen 75 |
| GO | sugar binding | 18 | 161 | 0.0268651 | 55600 | intelectin 1 (galactofuranose binding) |
| GO | sugar binding | 18 | 161 | 0.0268651 | 59271 | chromosome 21 open reading frame 63 |
| GO | sugar binding | 18 | 161 | 0.0268651 | 6402 | selectin L |
| GO | sugar binding | 18 | 161 | 0.0268651 | 682 | basigin (Ok blood group) |
| GO | sugar binding | 18 | 161 | 0.0268651 | 79695 | UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosami |
| GO | protein binding | 459 | 6249 | 0.0278374 | 10014 | histone deacetylase 5 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 10076 | protein tyrosine phosphatase, receptor type, U |
| GO | protein binding | 459 | 6249 | 0.0278374 | 1009 | cadherin 11, type 2, OB-cadherin (osteoblast) |
| GO | protein binding | 459 | 6249 | 0.0278374 | 10116 | fem-1 homolog b (C. elegans) |
| GO | protein binding | 459 | 6249 | 0.0278374 | 10140 | transducer of ERBB2, 1 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 10216 | proteoglycan 4 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 10221 | tribbles homolog 1 (Drosophila) |
| GO | protein binding | 459 | 6249 | 0.0278374 | 10252 | sprouty homolog 1, antagonist of FGF signaling (Drosophila) |
| GO | protein binding | 459 | 6249 | 0.0278374 | 10253 | sprouty homolog 2 (Drosophila) |
| GO | protein binding | 459 | 6249 | 0.0278374 | 10282 | blocked early in transport 1 homolog (S. cerevisiae) |
| GO | protein binding | 459 | 6249 | 0.0278374 | 10346 | tripartite motif-containing 22 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 10397 | N-myc downstream regulated 1 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 10418 | spondin 1, extracellular matrix protein |
| GO | protein binding | 459 | 6249 | 0.0278374 | 10435 | CDC42 effector protein (Rho GTPase binding) 2 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 10439 | olfactomedin 1 |

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|---|---|---|---|---|---|---|
| GO | protein binding | 459 | 6249 | 0.0278374 | 10481 | homeobox B13 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 10628 | thioredoxin interacting protein |
| GO | protein binding | 459 | 6249 | 0.0278374 | 10769 | polo-like kinase 2 (Drosophila) |
| GO | protein binding | 459 | 6249 | 0.0278374 | 1080 | cystic fibrosis transmembrane conductance regulator (ATP-binding cas |
| GO | protein binding | 459 | 6249 | 0.0278374 | 10811 | NADPH oxidase activator 1 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 10891 | peroxisome proliferator-activated receptor gamma, coactivator 1 alph |
| GO | protein binding | 459 | 6249 | 0.0278374 | 10906 | TRAF-type zinc finger domain containing 1 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 10912 | growth arrest and DNA-damage-inducible, gamma |
| GO | protein binding | 459 | 6249 | 0.0278374 | 10913 | ectodysplasin A receptor |
| GO | protein binding | 459 | 6249 | 0.0278374 | 11030 | RNA binding protein with multiple splicing |
| GO | protein binding | 459 | 6249 | 0.0278374 | 11043 | midline 2 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 11074 | tripartite motif-containing 31 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 11078 | TRIO and F-actin binding protein |
| GO | protein binding | 459 | 6249 | 0.0278374 | 1114 | chromogranin B (secretogranin 1) |
| GO | protein binding | 459 | 6249 | 0.0278374 | 11147 | HERV-H LTR-associating 3 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 11155 | LIM domain binding 3 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 11156 | protein tyrosine phosphatase type IVA, member 3 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 112 | adenylate cyclase 6 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 11200 | CHK2 checkpoint homolog (S. pombe) |
| GO | protein binding | 459 | 6249 | 0.0278374 | 11202 | kallikrein-related peptidase 8 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 11213 | interleukin-1 receptor-associated kinase 3 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 1124 | chimerin (chimaerin) 2 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 112574 | sorting nexin 18 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 113263 | glucocorticoid induced transcript 1 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 113278 | chromosome 20 open reading frame 54 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 1139 | cholinergic receptor, nicotinic, alpha 7 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 114569 | mal, T-cell differentiation protein 2 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 1152 | creatine kinase, brain |
| GO | protein binding | 459 | 6249 | 0.0278374 | 1154 | cytokine inducible SH2-containing protein |
| GO | protein binding | 459 | 6249 | 0.0278374 | 116071 | basic leucine zipper transcription factor, ATF-like 2 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 116844 | leucine-rich alpha-2-glycoprotein 1 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 117157 | SH2 domain containing 1B |
| GO | protein binding | 459 | 6249 | 0.0278374 | 118429 | anthrax toxin receptor 2 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 118987 | PDZ domain containing 8 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 121227 | leucine-rich repeats and immunoglobulin-like domains 3 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 123 | perilipin 2 |

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|---|---|---|---|---|---|---|
| GO | protein binding | 459 | 6249 | 0.0278374 | 124 | alcohol dehydrogenase 1A (class I), alpha polypeptide |
| GO | protein binding | 459 | 6249 | 0.0278374 | 126147 | netrin 5 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 127933 | U2AF homology motif (UHM) kinase 1 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 135112 | nuclear receptor coactivator 7 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 135644 | tripartite motif-containing 40 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 1363 | carboxypeptidase E |
| GO | protein binding | 459 | 6249 | 0.0278374 | 1373 | carbamoyl-phosphate synthetase 1, mitochondrial |
| GO | protein binding | 459 | 6249 | 0.0278374 | 143098 | membrane protein, palmitoylated 7 (MAGUK p55 subfamily member 7 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 143425 | synaptotagmin IX |
| GO | protein binding | 459 | 6249 | 0.0278374 | 1435 | colony stimulating factor 1 (macrophage) |
| GO | protein binding | 459 | 6249 | 0.0278374 | 144699 | F-box and leucine-rich repeat protein 14 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 145581 | leucine rich repeat and fibronectin type III domain containing 5 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 147945 | NLR family, pyrin domain containing 4 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 148170 | CDC42 effector protein (Rho GTPase binding) 5 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 150094 | salt-inducible kinase 1 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 1508 | cathepsin B |
| GO | protein binding | 459 | 6249 | 0.0278374 | 151636 | deltex 3-like (Drosophila) |
| GO | protein binding | 459 | 6249 | 0.0278374 | 151827 | leucine rich repeat containing 34 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 154 | adrenergic, beta-2-, receptor, surface |
| GO | protein binding | 459 | 6249 | 0.0278374 | 1540 | cylindromatosis (turban tumor syndrome) |
| GO | protein binding | 459 | 6249 | 0.0278374 | 154043 | CNKSR family member 3 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 154810 | angiomotin like 1 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 157638 | family with sequence similarity 84, member B |
| GO | protein binding | 459 | 6249 | 0.0278374 | 158038 | leucine rich repeat and Ig domain containing 2 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 159195 | ubiquitin specific peptidase 54 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 1612 | death-associated protein kinase 1 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 163590 | torsin A interacting protein 2 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 165679 | chromosome 3 open reading frame 57 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 168667 | BMP binding endothelial regulator |
| GO | protein binding | 459 | 6249 | 0.0278374 | 1741 | discs, large homolog 3 (Drosophila) |
| GO | protein binding | 459 | 6249 | 0.0278374 | 1785 | dynamin 2 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 1803 | dipeptidyl-peptidase 4 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 1813 | dopamine receptor D2 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 1815 | dopamine receptor D4 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 1820 | AT rich interactive domain 3A (BRIGHT-like) |
| GO | protein binding | 459 | 6249 | 0.0278374 | 1821 | dystrophin related protein 2 |

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| GO | protein binding | 459 | 6249 | 0.0278374 | 1822 | atrophin 1 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 1843 | dual specificity phosphatase 1 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 1902 | lysophosphatidic acid receptor 1 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 1915 | eukaryotic translation elongation factor 1 alpha 1 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 1958 | early growth response 1 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 1959 | early growth response 2 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 1969 | EPH receptor A2 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 197259 | mixed lineage kinase domain-like |
| GO | protein binding | 459 | 6249 | 0.0278374 | 1999 | E74-like factor 3 (ets domain transcription factor, epithelial-specific ) |
| GO | protein binding | 459 | 6249 | 0.0278374 | 201501 | zinc finger and BTB domain containing 7C |
| GO | protein binding | 459 | 6249 | 0.0278374 | 201895 | chromosome 4 open reading frame 34 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 2033 | E1A binding protein p300 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 2040 | stomatin |
| GO | protein binding | 459 | 6249 | 0.0278374 | 2044 | EPH receptor A5 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 2066 | v-erb-a erythroblastic leukemia viral oncogene homolog 4 (avian) |
| GO | protein binding | 459 | 6249 | 0.0278374 | 2114 | v-ets erythroblastosis virus E26 oncogene homolog 2 (avian) |
| GO | protein binding | 459 | 6249 | 0.0278374 | 2117 | ets variant 3 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 2122 | MDS1 and EVI1 complex locus |
| GO | protein binding | 459 | 6249 | 0.0278374 | 2200 | fibrillin 1 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 220441 | ring finger protein 152 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 222223 | KIAA1324-like |
| GO | protein binding | 459 | 6249 | 0.0278374 | 222546 | regulatory factor X, 6 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 2263 | fibroblast growth factor receptor 2 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 22795 | nidogen 2 (osteonidogen) |
| GO | protein binding | 459 | 6249 | 0.0278374 | 22859 | latrophilin 1 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 2290 | forkhead box G1 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 22906 | trafficking protein, kinesin binding 1 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 2296 | forkhead box C1 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 23035 | PH domain and leucine rich repeat protein phosphatase 2 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 23043 | TRAF2 and NCK interacting kinase |
| GO | protein binding | 459 | 6249 | 0.0278374 | 23048 | formin binding protein 1 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 23081 | lysine (K)-specific demethylase 4C |
| GO | protein binding | 459 | 6249 | 0.0278374 | 23092 | Rho GTPase activating protein 26 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 23095 | kinesin family member 1B |
| GO | protein binding | 459 | 6249 | 0.0278374 | 23099 | zinc finger and BTB domain containing 43 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 23179 | ral guanine nucleotide dissociation stimulator-like 1 |

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| GO | protein binding | 459 | 6249 | 0.0278374 | 23199 | KIAA0182 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 23208 | synaptotagmin XI |
| GO | protein binding | 459 | 6249 | 0.0278374 | 23248 | regulation of nuclear pre-mRNA domain containing 2 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 23303 | kinesin family member 13B |
| GO | protein binding | 459 | 6249 | 0.0278374 | 2331 | fibromodulin |
| GO | protein binding | 459 | 6249 | 0.0278374 | 23338 | PHD finger protein 15 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 23365 | Rho guanine nucleotide exchange factor (GEF) 12 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 23368 | protein phosphatase 1, regulatory (inhibitor) subunit 13B |
| GO | protein binding | 459 | 6249 | 0.0278374 | 23371 | tensin like C1 domain containing phosphatase (tensin 2) |
| GO | protein binding | 459 | 6249 | 0.0278374 | 23373 | CREB regulated transcription coactivator 1 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 23387 | SIK family kinase 3 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 23476 | bromodomain containing 4 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 23492 | chromobox homolog 7 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 2353 | FBJ murine osteosarcoma viral oncogene homolog |
| GO | protein binding | 459 | 6249 | 0.0278374 | 23650 | tripartite motif-containing 29 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 23654 | plexin B2 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 23774 | bromodomain containing 1 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 240 | arachidonate 5-lipoxygenase |
| GO | protein binding | 459 | 6249 | 0.0278374 | 2521 | fused in sarcoma |
| GO | protein binding | 459 | 6249 | 0.0278374 | 255488 | ring finger protein 144B |
| GO | protein binding | 459 | 6249 | 0.0278374 | 2571 | glutamate decarboxylase 1 (brain, 67kDa) |
| GO | protein binding | 459 | 6249 | 0.0278374 | 25837 | RAB26, member RAS oncogene family |
| GO | protein binding | 459 | 6249 | 0.0278374 | 25946 | zinc finger protein 385A |
| GO | protein binding | 459 | 6249 | 0.0278374 | 26050 | SLIT and NTRK-like family, member 5 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 26119 | low density lipoprotein receptor adaptor protein 1 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 2615 | leucine rich repeat containing 32 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 26191 | protein tyrosine phosphatase, non-receptor type 22 (lymphoid) |
| GO | protein binding | 459 | 6249 | 0.0278374 | 26232 | F-box protein 2 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 2624 | GATA binding protein 2 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 26270 | F-box protein 6 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 26468 | LIM homeobox 6 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 27035 | NADPH oxidase 1 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 2706 | gap junction protein, beta 2, 26kDa |
| GO | protein binding | 459 | 6249 | 0.0278374 | 2707 | gap junction protein, beta 3, 31kDa |
| GO | protein binding | 459 | 6249 | 0.0278374 | 27134 | tight junction protein 3 (zona occludens 3) |
| GO | protein binding | 459 | 6249 | 0.0278374 | 27165 | glutaminase 2 (liver, mitochondrial) |

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| GO | protein binding | 459 | 6249 | 0.0278374 | 27242 | tumor necrosis factor receptor superfamily, member 21 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 27246 | ring finger protein 115 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 27345 | potassium large conductance calcium-activated channel, subfamily M, |
| GO | protein binding | 459 | 6249 | 0.0278374 | 2737 | GLI family zinc finger 3 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 2801 | golgin A2 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 286133 | scavenger receptor class A, member 5 (putative) |
| GO | protein binding | 459 | 6249 | 0.0278374 | 28996 | homeodomain interacting protein kinase 2 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 29108 | PYD and CARD domain containing |
| GO | protein binding | 459 | 6249 | 0.0278374 | 2911 | glutamate receptor, metabotropic 1 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 29116 | myosin regulatory light chain interacting protein |
| GO | protein binding | 459 | 6249 | 0.0278374 | 29126 | CD274 molecule |
| GO | protein binding | 459 | 6249 | 0.0278374 | 2947 | glutathione S-transferase mu 3 (brain) |
| GO | protein binding | 459 | 6249 | 0.0278374 | 29760 | B-cell linker |
| GO | protein binding | 459 | 6249 | 0.0278374 | 30008 | EGF-containing fibulin-like extracellular matrix protein 2 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 311 | annexin A11 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 3164 | nuclear receptor subfamily 4, group A, member 1 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 3192 | heterogeneous nuclear ribonucleoprotein U (scaffold attachment facto |
| GO | protein binding | 459 | 6249 | 0.0278374 | 3400 | inhibitor of DNA binding 4, dominant negative helix-loop-helix protein |
| GO | protein binding | 459 | 6249 | 0.0278374 | 3428 | interferon, gamma-inducible protein 16 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 3479 | insulin-like growth factor 1 (somatomedin C) |
| GO | protein binding | 459 | 6249 | 0.0278374 | 3486 | insulin-like growth factor binding protein 3 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 3488 | insulin-like growth factor binding protein 5 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 3561 | interleukin 2 receptor, gamma (severe combined immunodeficiency) |
| GO | protein binding | 459 | 6249 | 0.0278374 | 3570 | interleukin 6 receptor |
| GO | protein binding | 459 | 6249 | 0.0278374 | 358 | aquaporin 1 (Colton blood group) |
| GO | protein binding | 459 | 6249 | 0.0278374 | 3587 | interleukin 10 receptor, alpha |
| GO | protein binding | 459 | 6249 | 0.0278374 | 3601 | interleukin 15 receptor, alpha |
| GO | protein binding | 459 | 6249 | 0.0278374 | 3604 | tumor necrosis factor receptor superfamily, member 9 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 3643 | insulin receptor |
| GO | protein binding | 459 | 6249 | 0.0278374 | 3678 | integrin, alpha 5 (fibronectin receptor, alpha polypeptide) |
| GO | protein binding | 459 | 6249 | 0.0278374 | 3687 | integrin, alpha X (complement component 3 receptor 4 subunit) |
| GO | protein binding | 459 | 6249 | 0.0278374 | 3689 | integrin, beta 2 (complement component 3 receptor 3 and 4 subunit) |
| GO | protein binding | 459 | 6249 | 0.0278374 | 3691 | integrin, beta 4 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 3696 | integrin, beta 8 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 3725 | jun oncogene |
| GO | protein binding | 459 | 6249 | 0.0278374 | 3732 | CD82 molecule |

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| GO | protein binding | 459 | 6249 | 0.0278374 | 375056 | melanoma inhibitory activity family, member 3 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 375449 | microtubule associated serine/threonine kinase family member 4 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 375790 | agrin |
| GO | protein binding | 459 | 6249 | 0.0278374 | 3759 | potassium inwardly-rectifying channel, subfamily J, member 2 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 378925 | ring finger protein 148 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 3790 | potassium voltage-gated channel, delayed-rectifier, subfamily S, memb |
| GO | protein binding | 459 | 6249 | 0.0278374 | 3814 | KiSS-1 metastasis-suppressor |
| GO | protein binding | 459 | 6249 | 0.0278374 | 3815 | v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog |
| GO | protein binding | 459 | 6249 | 0.0278374 | 3845 | v-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog |
| GO | protein binding | 459 | 6249 | 0.0278374 | 387496 | RAS-like, family 11, member A |
| GO | protein binding | 459 | 6249 | 0.0278374 | 388591 | ring finger protein 207 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 389337 | Rho guanine nucleotide exchange factor (GEF) 37 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 3914 | laminin, beta 3 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 3949 | low density lipoprotein receptor |
| GO | protein binding | 459 | 6249 | 0.0278374 | 3958 | lectin, galactoside-binding, soluble, 3 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 3959 | lectin, galactoside-binding, soluble, 3 binding protein |
| GO | protein binding | 459 | 6249 | 0.0278374 | 3983 | actin binding LIM protein 1 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 4005 | LIM domain only 2 (rhombotin-like 1) |
| GO | protein binding | 459 | 6249 | 0.0278374 | 4007 | prickle homolog 3 (Drosophila) |
| GO | protein binding | 459 | 6249 | 0.0278374 | 4008 | LIM domain 7 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 4015 | lysyl oxidase |
| GO | protein binding | 459 | 6249 | 0.0278374 | 4056 | leukotriene C4 synthase |
| GO | protein binding | 459 | 6249 | 0.0278374 | 4087 | SMAD family member 2 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 4128 | monoamine oxidase A |
| GO | protein binding | 459 | 6249 | 0.0278374 | 415116 | pim-3 oncogene |
| GO | protein binding | 459 | 6249 | 0.0278374 | 4163 | mutated in colorectal cancers |
| GO | protein binding | 459 | 6249 | 0.0278374 | 4170 | myeloid cell leukemia sequence 1 (BCL2-related) |
| GO | protein binding | 459 | 6249 | 0.0278374 | 4194 | Mdm4 p53 binding protein homolog (mouse) |
| GO | protein binding | 459 | 6249 | 0.0278374 | 4204 | methyl CpG binding protein 2 (Rett syndrome) |
| GO | protein binding | 459 | 6249 | 0.0278374 | 4209 | myocyte enhancer factor 2D |
| GO | protein binding | 459 | 6249 | 0.0278374 | 4223 | mesenchyme homeobox 2 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 4254 | KIT ligand |
| GO | protein binding | 459 | 6249 | 0.0278374 | 429 | achaete-scute complex homolog 1 (Drosophila) |
| GO | protein binding | 459 | 6249 | 0.0278374 | 4306 | nuclear receptor subfamily 3, group C, member 2 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 4359 | myelin protein zero |
| GO | protein binding | 459 | 6249 | 0.0278374 | 4486 | macrophage stimulating 1 receptor (c-met-related tyrosine kinase) |

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| GO | protein binding | 459 | 6249 | 0.0278374 | 4524 | 5,10-methylenetetrahydrofolate reductase (NADPH) |
| GO | protein binding | 459 | 6249 | 0.0278374 | 4599 | myxovirus (influenza virus) resistance 1, interferon-inducible protein p |
| GO | protein binding | 459 | 6249 | 0.0278374 | 4613 | v-myc myelocytomatosis viral related oncogene, neuroblastoma derive |
| GO | protein binding | 459 | 6249 | 0.0278374 | 4616 | growth arrest and DNA-damage-inducible, beta |
| GO | protein binding | 459 | 6249 | 0.0278374 | 4638 | myosin light chain kinase |
| GO | protein binding | 459 | 6249 | 0.0278374 | 467 | activating transcription factor 3 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 4692 | necdin homolog (mouse) |
| GO | protein binding | 459 | 6249 | 0.0278374 | 4791 | nuclear factor of kappa light polypeptide gene enhancer in B-cells 2 (p |
| GO | protein binding | 459 | 6249 | 0.0278374 | 4792 | nuclear factor of kappa light polypeptide gene enhancer in B-cells inhi |
| GO | protein binding | 459 | 6249 | 0.0278374 | 4794 | nuclear factor of kappa light polypeptide gene enhancer in B-cells inhi |
| GO | protein binding | 459 | 6249 | 0.0278374 | 4795 | nuclear factor of kappa light polypeptide gene enhancer in B-cells inhi |
| GO | protein binding | 459 | 6249 | 0.0278374 | 48 | aconitase 1, soluble |
| GO | protein binding | 459 | 6249 | 0.0278374 | 4802 | nuclear transcription factor Y, gamma |
| GO | protein binding | 459 | 6249 | 0.0278374 | 4842 | nitric oxide synthase 1 (neuronal) |
| GO | protein binding | 459 | 6249 | 0.0278374 | 4849 | CCR4-NOT transcription complex, subunit 3 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 4851 | Notch homolog 1, translocation-associated (Drosophila) |
| GO | protein binding | 459 | 6249 | 0.0278374 | 4853 | Notch homolog 2 (Drosophila) |
| GO | protein binding | 459 | 6249 | 0.0278374 | 4886 | neuropeptide Y receptor Y1 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 4915 | neurotrophic tyrosine kinase, receptor, type 2 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 4929 | nuclear receptor subfamily 4, group A, member 2 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 493 | ATPase, Ca++ transporting, plasma membrane 4 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 498 | ATP synthase, H+ transporting, mitochondrial F1 complex, alpha subun |
| GO | protein binding | 459 | 6249 | 0.0278374 | 50617 | ATPase, H+ transporting, lysosomal V0 subunit a4 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 5066 | peptidylglycine alpha-amidating monooxygenase |
| GO | protein binding | 459 | 6249 | 0.0278374 | 5071 | Parkinson disease (autosomal recessive, juvenile) 2, parkin |
| GO | protein binding | 459 | 6249 | 0.0278374 | 5083 | paired box 9 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 50937 | Cdon homolog (mouse) |
| GO | protein binding | 459 | 6249 | 0.0278374 | 51168 | myosin XVA |
| GO | protein binding | 459 | 6249 | 0.0278374 | 5129 | cyclin-dependent kinase 18 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 5152 | phosphodiesterase 9A |
| GO | protein binding | 459 | 6249 | 0.0278374 | 51621 | Kruppel-like factor 13 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 51655 | RAS, dexamethasone-induced 1 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 51710 | zinc finger protein 44 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 51754 | transmembrane protein 8B |
| GO | protein binding | 459 | 6249 | 0.0278374 | 5187 | period homolog 1 (Drosophila) |
| GO | protein binding | 459 | 6249 | 0.0278374 | 5218 | cyclin-dependent kinase 14 |

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| GO | protein binding | 459 | 6249 | 0.0278374 | 5239 | phosphoglucomutase 5 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 5243 | ATP-binding cassette, sub-family B (MDR/TAP), member 1 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 5244 | ATP-binding cassette, sub-family B (MDR/TAP), member 4 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 5284 | polymeric immunoglobulin receptor |
| GO | protein binding | 459 | 6249 | 0.0278374 | 5295 | phosphoinositide-3-kinase, regulatory subunit 1 (alpha) |
| GO | protein binding | 459 | 6249 | 0.0278374 | 5304 | prolactin-induced protein |
| GO | protein binding | 459 | 6249 | 0.0278374 | 5308 | paired-like homeodomain 2 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 5325 | pleiomorphic adenoma gene-like 1 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 5327 | plasminogen activator, tissue |
| GO | protein binding | 459 | 6249 | 0.0278374 | 53405 | chloride intracellular channel 5 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 5346 | perilipin 1 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 5371 | promyelocytic leukemia |
| GO | protein binding | 459 | 6249 | 0.0278374 | 54361 | wingless-type MMTV integration site family, member 4 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 54504 | carboxypeptidase, vitellogenic-like |
| GO | protein binding | 459 | 6249 | 0.0278374 | 5460 | POU class 5 homeobox 1 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 5465 | peroxisome proliferator-activated receptor alpha |
| GO | protein binding | 459 | 6249 | 0.0278374 | 54877 | zinc finger, CCHC domain containing 2 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 54894 | ring finger protein 43 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 54904 | Wolf-Hirschhorn syndrome candidate 1-like 1 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 54932 | exonuclease 3'-5' domain containing 3 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 55124 | piwi-like 2 (Drosophila) |
| GO | protein binding | 459 | 6249 | 0.0278374 | 55140 | elongation protein 3 homolog (S. cerevisiae) |
| GO | protein binding | 459 | 6249 | 0.0278374 | 55249 | YY1 associated protein 1 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 55432 | YOD1 OTU deubiquinating enzyme 1 homolog (S. cerevisiae) |
| GO | protein binding | 459 | 6249 | 0.0278374 | 55705 | importin 9 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 55824 | phosphoprotein associated with glycosphingolipid microdomains 1 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 55867 | solute carrier family 22 (organic anion/urate transporter), member 11 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 55870 | ash1 (absent, small, or homeotic)-like (Drosophila) |
| GO | protein binding | 459 | 6249 | 0.0278374 | 55909 | bridging integrator 3 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 5608 | mitogen-activated protein kinase kinase 6 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 56256 | SERTA domain containing 4 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 56288 | par-3 partitioning defective 3 homolog (C. elegans) |
| GO | protein binding | 459 | 6249 | 0.0278374 | 5648 | mannan-binding lectin serine peptidase 1 (C4/C2 activating componen |
| GO | protein binding | 459 | 6249 | 0.0278374 | 5696 | proteasome (prosome, macropain) subunit, beta type, 8 (large multifu |
| GO | protein binding | 459 | 6249 | 0.0278374 | 57132 | chromatin modifying protein 1B |
| GO | protein binding | 459 | 6249 | 0.0278374 | 57139 | ral guanine nucleotide dissociation stimulator-like 3 |

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| GO | protein binding | 459 | 6249 | 0.0278374 | 57147 | SCY1-like 3 (S. cerevisiae) |
| GO | protein binding | 459 | 6249 | 0.0278374 | 57161 | pellino homolog 2 (Drosophila) |
| GO | protein binding | 459 | 6249 | 0.0278374 | 573 | BCL2-associated athanogene |
| GO | protein binding | 459 | 6249 | 0.0278374 | 57379 | activation-induced cytidine deaminase |
| GO | protein binding | 459 | 6249 | 0.0278374 | 57459 | GATA zinc finger domain containing 2B |
| GO | protein binding | 459 | 6249 | 0.0278374 | 57535 | KIAA1324 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 57619 | shroom family member 3 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 57620 | stromal interaction molecule 2 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 57636 | Rho GTPase activating protein 23 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 5774 | protein tyrosine phosphatase, non-receptor type 3 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 5787 | protein tyrosine phosphatase, receptor type, B |
| GO | protein binding | 459 | 6249 | 0.0278374 | 5789 | protein tyrosine phosphatase, receptor type, D |
| GO | protein binding | 459 | 6249 | 0.0278374 | 5791 | protein tyrosine phosphatase, receptor type, E |
| GO | protein binding | 459 | 6249 | 0.0278374 | 5794 | protein tyrosine phosphatase, receptor type, H |
| GO | protein binding | 459 | 6249 | 0.0278374 | 5799 | protein tyrosine phosphatase, receptor type, N polypeptide 2 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 5801 | protein tyrosine phosphatase, receptor type, R |
| GO | protein binding | 459 | 6249 | 0.0278374 | 5873 | RAB27A, member RAS oncogene family |
| GO | protein binding | 459 | 6249 | 0.0278374 | 5950 | retinol binding protein 4, plasma |
| GO | protein binding | 459 | 6249 | 0.0278374 | 604 | B-cell CLL/lymphoma 6 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 60485 | salvador homolog 1 (Drosophila) |
| GO | protein binding | 459 | 6249 | 0.0278374 | 6096 | RAR-related orphan receptor B |
| GO | protein binding | 459 | 6249 | 0.0278374 | 6256 | retinoid X receptor, alpha |
| GO | protein binding | 459 | 6249 | 0.0278374 | 627 | brain-derived neurotrophic factor |
| GO | protein binding | 459 | 6249 | 0.0278374 | 6402 | selectin L |
| GO | protein binding | 459 | 6249 | 0.0278374 | 64083 | golgi phosphoprotein 3 (coat-protein) |
| GO | protein binding | 459 | 6249 | 0.0278374 | 64108 | receptor (chemosensory) transporter protein 4 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 64127 | nucleotide-binding oligomerization domain containing 2 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 64135 | interferon induced with helicase C domain 1 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 6446 | serum/glucocorticoid regulated kinase 1 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 6452 | SH3-domain binding protein 2 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 64798 | DEP domain containing 6 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 6505 | solute carrier family 1 (neuronal/epithelial high affinity glutamate tran |
| GO | protein binding | 459 | 6249 | 0.0278374 | 652 | bone morphogenetic protein 4 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 6521 | solute carrier family 4, anion exchanger, member 1 (erythrocyte mem |
| GO | protein binding | 459 | 6249 | 0.0278374 | 6565 | solute carrier family 15 (H+/peptide transporter), member 2 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 65999 | leucine rich repeat containing 61 |

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|---|---|---|---|---|---|---|
| GO | protein binding | 459 | 6249 | 0.0278374 | 6604 | SWI/SNF related, matrix associated, actin dependent regulator of chro |
| GO | protein binding | 459 | 6249 | 0.0278374 | 6622 | synuclein, alpha (non A4 component of amyloid precursor) |
| GO | protein binding | 459 | 6249 | 0.0278374 | 6690 | serine peptidase inhibitor, Kazal type 1 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 6692 | serine peptidase inhibitor, Kunitz type 1 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 6710 | spectrin, beta, erythrocytic |
| GO | protein binding | 459 | 6249 | 0.0278374 | 6778 | signal transducer and activator of transcription 6, interleukin-4 induce |
| GO | protein binding | 459 | 6249 | 0.0278374 | 682 | basigin (Ok blood group) |
| GO | protein binding | 459 | 6249 | 0.0278374 | 6850 | spleen tyrosine kinase |
| GO | protein binding | 459 | 6249 | 0.0278374 | 6857 | synaptotagmin I |
| GO | protein binding | 459 | 6249 | 0.0278374 | 6921 | transcription elongation factor B (SIII), polypeptide 1 (15kDa, elongin C |
| GO | protein binding | 459 | 6249 | 0.0278374 | 6941 | transcription factor 19 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 7001 | peroxiredoxin 2 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 7022 | transcription factor AP-2 gamma (activating enhancer binding protein |
| GO | protein binding | 459 | 6249 | 0.0278374 | 7026 | nuclear receptor subfamily 2, group F, member 2 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 7049 | transforming growth factor, beta receptor III |
| GO | protein binding | 459 | 6249 | 0.0278374 | 7069 | thyroid hormone responsive (SPOT14 homolog, rat) |
| GO | protein binding | 459 | 6249 | 0.0278374 | 7071 | Kruppel-like factor 10 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 7076 | TIMP metallopeptidase inhibitor 1 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 7089 | transducin-like enhancer of split 2 (E(sp1) homolog, Drosophila) |
| GO | protein binding | 459 | 6249 | 0.0278374 | 7090 | transducin-like enhancer of split 3 (E(sp1) homolog, Drosophila) |
| GO | protein binding | 459 | 6249 | 0.0278374 | 7097 | toll-like receptor 2 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 7098 | toll-like receptor 3 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 7099 | toll-like receptor 4 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 7100 | toll-like receptor 5 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 7106 | tetraspanin 4 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 7133 | tumor necrosis factor receptor superfamily, member 1B |
| GO | protein binding | 459 | 6249 | 0.0278374 | 7170 | tropomyosin 3 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 718 | complement component 3 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 722 | complement component 4 binding protein, alpha |
| GO | protein binding | 459 | 6249 | 0.0278374 | 7223 | transient receptor potential cation channel, subfamily C, member 4 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 7227 | trichorhinophalangeal syndrome I |
| GO | protein binding | 459 | 6249 | 0.0278374 | 7474 | wingless-type MMTV integration site family, member 5A |
| GO | protein binding | 459 | 6249 | 0.0278374 | 7538 | zinc finger protein 36, C3H type, homolog (mouse) |
| GO | protein binding | 459 | 6249 | 0.0278374 | 7546 | Zic family member 2 (odd-paired homolog, Drosophila) |
| GO | protein binding | 459 | 6249 | 0.0278374 | 7597 | zinc finger and BTB domain containing 25 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 760 | carbonic anhydrase II |

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| GO | protein binding | 459 | 6249 | 0.0278374 | 7706 | tripartite motif-containing 25 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 783 | calcium channel, voltage-dependent, beta 2 subunit |
| GO | protein binding | 459 | 6249 | 0.0278374 | 7852 | chemokine (C-X-C motif) receptor 4 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 79092 | caspase recruitment domain family, member 14 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 79132 | DEXH (Asp-Glu-X-His) box polypeptide 58 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 79180 | EF-hand domain family, member D2 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 79444 | baculoviral IAP repeat-containing 7 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 79782 | leucine rich repeat containing 31 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 79820 | cation channel, sperm-associated, beta |
| GO | protein binding | 459 | 6249 | 0.0278374 | 7984 | Rho guanine nucleotide exchange factor (GEF) 5 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 79872 | Cas-Br-M (murine) ecotropic retroviral transforming sequence-like 1 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 799 | calcitonin receptor |
| GO | protein binding | 459 | 6249 | 0.0278374 | 80125 | coiled-coil domain containing 33 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 80169 | chromosome 17 open reading frame 68 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 80223 | RAB11 family interacting protein 1 (class I) |
| GO | protein binding | 459 | 6249 | 0.0278374 | 80311 | kelch-like 15 (Drosophila) |
| GO | protein binding | 459 | 6249 | 0.0278374 | 81603 | tripartite motif-containing 8 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 81844 | tripartite motif-containing 56 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 819 | calcium modulating ligand |
| GO | protein binding | 459 | 6249 | 0.0278374 | 831 | calpastatin |
| GO | protein binding | 459 | 6249 | 0.0278374 | 834 | caspase 1, apoptosis-related cysteine peptidase (interleukin 1, beta, co |
| GO | protein binding | 459 | 6249 | 0.0278374 | 83593 | Ras association (RalGDS/AF-6) domain family member 5 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 83666 | poly (ADP-ribose) polymerase family, member 9 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 837 | caspase 4, apoptosis-related cysteine peptidase |
| GO | protein binding | 459 | 6249 | 0.0278374 | 8382 | non-metastatic cells 5, protein expressed in (nucleoside-diphosphate k |
| GO | protein binding | 459 | 6249 | 0.0278374 | 83937 | Ras association (RalGDS/AF-6) domain family member 4 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 84033 | obscurin, cytoskeletal calmodulin and titin-interacting RhoGEF |
| GO | protein binding | 459 | 6249 | 0.0278374 | 84171 | lysyl oxidase-like 4 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 84674 | caspase recruitment domain family, member 6 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 84941 | hematopoietic SH2 domain containing |
| GO | protein binding | 459 | 6249 | 0.0278374 | 8519 | interferon induced transmembrane protein 1 (9-27) |
| GO | protein binding | 459 | 6249 | 0.0278374 | 8531 | cold shock domain protein A |
| GO | protein binding | 459 | 6249 | 0.0278374 | 8542 | apolipoprotein L, 1 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 8553 | basic helix-loop-helix family, member e40 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 8556 | CDC14 cell division cycle 14 homolog A (S. cerevisiae) |
| GO | protein binding | 459 | 6249 | 0.0278374 | 8600 | tumor necrosis factor (ligand) superfamily, member 11 |

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| GO | protein binding | 459 | 6249 | 0.0278374 | 862 | runt-related transcription factor 1; translocated to, 1 (cyclin D-related) |
| GO | protein binding | 459 | 6249 | 0.0278374 | 8631 | src kinase associated phosphoprotein 1 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 8646 | chordin |
| GO | protein binding | 459 | 6249 | 0.0278374 | 8660 | insulin receptor substrate 2 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 8673 | vesicle-associated membrane protein 8 (endobrevin) |
| GO | protein binding | 459 | 6249 | 0.0278374 | 8740 | tumor necrosis factor (ligand) superfamily, member 14 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 8751 | ADAM metallopeptidase domain 15 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 8793 | tumor necrosis factor receptor superfamily, member 10d, decoy with t |
| GO | protein binding | 459 | 6249 | 0.0278374 | 8796 | sciellin |
| GO | protein binding | 459 | 6249 | 0.0278374 | 8848 | TSC22 domain family, member 1 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 885 | cholecystokinin |
| GO | protein binding | 459 | 6249 | 0.0278374 | 8857 | Fc fragment of IgG binding protein |
| GO | protein binding | 459 | 6249 | 0.0278374 | 8864 | period homolog 2 (Drosophila) |
| GO | protein binding | 459 | 6249 | 0.0278374 | 8900 | cyclin A1 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 8911 | calcium channel, voltage-dependent, T type, alpha 1I subunit |
| GO | protein binding | 459 | 6249 | 0.0278374 | 8938 | BAI1-associated protein 3 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 8973 | cholinergic receptor, nicotinic, alpha 6 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 89870 | tripartite motif-containing 15 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 8996 | nucleolar protein 3 (apoptosis repressor with CARD domain) |
| GO | protein binding | 459 | 6249 | 0.0278374 | 9019 | myelin protein zero-like 1 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 9021 | suppressor of cytokine signaling 3 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 9060 | 3'-phosphoadenosine 5'-phosphosulfate synthase 2 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 9064 | mitogen-activated protein kinase kinase kinase 6 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 90865 | interleukin 33 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 91 | activin A receptor, type IB |
| GO | protein binding | 459 | 6249 | 0.0278374 | 91404 | SEC14 and spectrin domains 1 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 91653 | Boc homolog (mouse) |
| GO | protein binding | 459 | 6249 | 0.0278374 | 9182 | Ras association (RalGDS/AF-6) domain family (N-terminal) member 9 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 9185 | RALBP1 associated Eps domain containing 2 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 9271 | piwi-like 1 (Drosophila) |
| GO | protein binding | 459 | 6249 | 0.0278374 | 929 | CD14 molecule |
| GO | protein binding | 459 | 6249 | 0.0278374 | 9324 | high mobility group nucleosomal binding domain 3 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 94 | activin A receptor type II-like 1 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 94025 | mucin 16, cell surface associated |
| GO | protein binding | 459 | 6249 | 0.0278374 | 9414 | tight junction protein 2 (zona occludens 2) |
| GO | protein binding | 459 | 6249 | 0.0278374 | 9452 | integral membrane protein 2A |

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| GO | protein binding | 459 | 6249 | 0.0278374 | 9510 | ADAM metallopeptidase with thrombospondin type 1 motif, 1 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 9595 | cytohesin 1 interacting protein |
| GO | protein binding | 459 | 6249 | 0.0278374 | 961 | CD47 molecule |
| GO | protein binding | 459 | 6249 | 0.0278374 | 9615 | guanine deaminase |
| GO | protein binding | 459 | 6249 | 0.0278374 | 9722 | nitric oxide synthase 1 (neuronal) adaptor protein |
| GO | protein binding | 459 | 6249 | 0.0278374 | 9734 | histone deacetylase 9 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 9749 | phosphatase and actin regulator 2 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 9804 | translocase of outer mitochondrial membrane 20 homolog (yeast) |
| GO | protein binding | 459 | 6249 | 0.0278374 | 9875 | URB1 ribosome biogenesis 1 homolog (S. cerevisiae) |
| GO | protein binding | 459 | 6249 | 0.0278374 | 9935 | v-maf musculoaponeurotic fibrosarcoma oncogene homolog B (avian) |
| GO | protein binding | 459 | 6249 | 0.0278374 | 9971 | nuclear receptor subfamily 1, group H, member 4 |
| GO | protein binding | 459 | 6249 | 0.0278374 | 9985 | REC8 homolog (yeast) |
| GO | brush border membrane | 5 | 26 | 0.02922 | 10568 | solute carrier family 34 (sodium phosphate), member 2 |
| GO | brush border membrane | 5 | 26 | 0.02922 | 358 | aquaporin 1 (Colton blood group) |
| GO | brush border membrane | 5 | 26 | 0.02922 | 3775 | potassium channel, subfamily K, member 1 |
| GO | brush border membrane | 5 | 26 | 0.02922 | 50617 | ATPase, H+ transporting, lysosomal V0 subunit a4 |
| GO | brush border membrane | 5 | 26 | 0.02922 | 55600 | intelectin 1 (galactofuranose binding) |
| GO | endopeptidase inhibitor activity | 5 | 26 | 0.02922 | 6590 | secretory leukocyte peptidase inhibitor |
| GO | endopeptidase inhibitor activity | 5 | 26 | 0.02922 | 6690 | serine peptidase inhibitor, Kazal type 1 |
| GO | endopeptidase inhibitor activity | 5 | 26 | 0.02922 | 718 | complement component 3 |
| GO | endopeptidase inhibitor activity | 5 | 26 | 0.02922 | 831 | calpastatin |
| GO | endopeptidase inhibitor activity | 5 | 26 | 0.02922 | 8434 | reversion-inducing-cysteine-rich protein with kazal motifs |
| GO | neuropeptide signaling pathway | 11 | 85 | 0.0297185 | 1363 | carboxypeptidase E |
| GO | neuropeptide signaling pathway | 11 | 85 | 0.0297185 | 2015 | egf-like module containing, mucin-like, hormone receptor-like 1 |
| GO | neuropeptide signaling pathway | 11 | 85 | 0.0297185 | 22859 | latrophilin 1 |
| GO | neuropeptide signaling pathway | 11 | 85 | 0.0297185 | 23266 | latrophilin 2 |
| GO | neuropeptide signaling pathway | 11 | 85 | 0.0297185 | 23284 | latrophilin 3 |
| GO | neuropeptide signaling pathway | 11 | 85 | 0.0297185 | 283383 | G protein-coupled receptor 133 |
| GO | neuropeptide signaling pathway | 11 | 85 | 0.0297185 | 5367 | pro-melanin-concentrating hormone |
| GO | neuropeptide signaling pathway | 11 | 85 | 0.0297185 | 56923 | neuromedin U receptor 2 |
| GO | neuropeptide signaling pathway | 11 | 85 | 0.0297185 | 57537 | sortilin-related VPS10 domain containing receptor 2 |
| GO | neuropeptide signaling pathway | 11 | 85 | 0.0297185 | 6751 | somatostatin receptor 1 |
| GO | neuropeptide signaling pathway | 11 | 85 | 0.0297185 | 84059 | G protein-coupled receptor 98 |
| GO | apoptosis | 41 | 444 | 0.0306553 | 10081 | programmed cell death 7 |
| GO | apoptosis | 41 | 444 | 0.0306553 | 10912 | growth arrest and DNA-damage-inducible, gamma |
| GO | apoptosis | 41 | 444 | 0.0306553 | 10913 | ectodysplasin A receptor |

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| GO | apoptosis | 41 | 444 | 0.0306553 | 1969 | EPH receptor A2 |
| GO | apoptosis | 41 | 444 | 0.0306553 | 2033 | E1A binding protein p300 |
| GO | apoptosis | 41 | 444 | 0.0306553 | 2122 | MDS1 and EVI1 complex locus |
| GO | apoptosis | 41 | 444 | 0.0306553 | 23151 | GRAM domain containing 4 |
| GO | apoptosis | 41 | 444 | 0.0306553 | 23263 | MCF.2 cell line derived transforming sequence-like |
| GO | apoptosis | 41 | 444 | 0.0306553 | 23365 | Rho guanine nucleotide exchange factor (GEF) 12 |
| GO | apoptosis | 41 | 444 | 0.0306553 | 23368 | protein phosphatase 1, regulatory (inhibitor) subunit 13B |
| GO | apoptosis | 41 | 444 | 0.0306553 | 23604 | death-associated protein kinase 2 |
| GO | apoptosis | 41 | 444 | 0.0306553 | 255488 | ring finger protein 144B |
| GO | apoptosis | 41 | 444 | 0.0306553 | 28996 | homeodomain interacting protein kinase 2 |
| GO | apoptosis | 41 | 444 | 0.0306553 | 3689 | integrin, beta 2 (complement component 3 receptor 3 and 4 subunit) |
| GO | apoptosis | 41 | 444 | 0.0306553 | 4170 | myeloid cell leukemia sequence 1 (BCL2-related) |
| GO | apoptosis | 41 | 444 | 0.0306553 | 4194 | Mdm4 p53 binding protein homolog (mouse) |
| GO | apoptosis | 41 | 444 | 0.0306553 | 4209 | myocyte enhancer factor 2D |
| GO | apoptosis | 41 | 444 | 0.0306553 | 440603 | BCL2-like 15 |
| GO | apoptosis | 41 | 444 | 0.0306553 | 4616 | growth arrest and DNA-damage-inducible, beta |
| GO | apoptosis | 41 | 444 | 0.0306553 | 4792 | nuclear factor of kappa light polypeptide gene enhancer in B-cells inhib |
| GO | apoptosis | 41 | 444 | 0.0306553 | 54739 | XIAP associated factor 1 |
| GO | apoptosis | 41 | 444 | 0.0306553 | 55332 | DNA-damage regulated autophagy modulator 1 |
| GO | apoptosis | 41 | 444 | 0.0306553 | 573 | BCL2-associated athanogene |
| GO | apoptosis | 41 | 444 | 0.0306553 | 5794 | protein tyrosine phosphatase, receptor type, H |
| GO | apoptosis | 41 | 444 | 0.0306553 | 6446 | serum/glucocorticoid regulated kinase 1 |
| GO | apoptosis | 41 | 444 | 0.0306553 | 64651 | cysteine-serine-rich nuclear protein 1 |
| GO | apoptosis | 41 | 444 | 0.0306553 | 7133 | tumor necrosis factor receptor superfamily, member 1B |
| GO | apoptosis | 41 | 444 | 0.0306553 | 7852 | chemokine (C-X-C motif) receptor 4 |
| GO | apoptosis | 41 | 444 | 0.0306553 | 79444 | baculoviral IAP repeat-containing 7 |
| GO | apoptosis | 41 | 444 | 0.0306553 | 834 | caspase 1, apoptosis-related cysteine peptidase (interleukin 1, beta, co |
| GO | apoptosis | 41 | 444 | 0.0306553 | 83593 | Ras association (RalGDS/AF-6) domain family member 5 |
| GO | apoptosis | 41 | 444 | 0.0306553 | 837 | caspase 4, apoptosis-related cysteine peptidase |
| GO | apoptosis | 41 | 444 | 0.0306553 | 84033 | obscurin, cytoskeletal calmodulin and titin-interacting RhoGEF |
| GO | apoptosis | 41 | 444 | 0.0306553 | 8462 | Kruppel-like factor 11 |
| GO | apoptosis | 41 | 444 | 0.0306553 | 8744 | tumor necrosis factor (ligand) superfamily, member 9 |
| GO | apoptosis | 41 | 444 | 0.0306553 | 8793 | tumor necrosis factor receptor superfamily, member 10d, decoy with t |
| GO | apoptosis | 41 | 444 | 0.0306553 | 8794 | tumor necrosis factor receptor superfamily, member 10c, decoy withou |
| GO | apoptosis | 41 | 444 | 0.0306553 | 9263 | serine/threonine kinase 17a |
| GO | apoptosis | 41 | 444 | 0.0306553 | 929 | CD14 molecule |

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|---|---|---|---|---|---|---|
| GO | apoptosis | 41 | 444 | 0.0306553 | 9445 | integral membrane protein 2B |
| GO | apoptosis | 41 | 444 | 0.0306553 | 9459 | Rac/Cdc42 guanine nucleotide exchange factor (GEF) 6 |
| GO | platelet-derived growth factor recept | 4 | 18 | 0.0307275 | 10628 | thioredoxin interacting protein |
| GO | platelet-derived growth factor recept | 4 | 18 | 0.0307275 | 5327 | plasminogen activator, tissue |
| GO | platelet-derived growth factor recept | 4 | 18 | 0.0307275 | 64651 | cysteine-serine-rich nuclear protein 1 |
| GO | platelet-derived growth factor recept | 4 | 18 | 0.0307275 | 84159 | AT rich interactive domain 5B (MRF1-like) |
| GO | protein ubiquitination involved in ubi | 4 | 18 | 0.0307275 | 154214 | ring finger protein 217 |
| GO | protein ubiquitination involved in ubi | 4 | 18 | 0.0307275 | 255488 | ring finger protein 144B |
| GO | protein ubiquitination involved in ubi | 4 | 18 | 0.0307275 | 29116 | myosin regulatory light chain interacting protein |
| GO | protein ubiquitination involved in ubi | 4 | 18 | 0.0307275 | 5071 | Parkinson disease (autosomal recessive, juvenile) 2, parkin |
| GO | endocrine pancreas development | 4 | 18 | 0.0307275 | 222546 | regulatory factor X, 6 |
| GO | endocrine pancreas development | 4 | 18 | 0.0307275 | 3175 | one cut homeobox 1 |
| GO | endocrine pancreas development | 4 | 18 | 0.0307275 | 3569 | interleukin 6 (interferon, beta 2) |
| GO | endocrine pancreas development | 4 | 18 | 0.0307275 | 3570 | interleukin 6 receptor |
| GO | response to corticosterone stimulus | 4 | 18 | 0.0307275 | 2353 | FBJ murine osteosarcoma viral oncogene homolog |
| GO | response to corticosterone stimulus | 4 | 18 | 0.0307275 | 3726 | jun B proto-oncogene |
| GO | response to corticosterone stimulus | 4 | 18 | 0.0307275 | 4129 | monoamine oxidase B |
| GO | response to corticosterone stimulus | 4 | 18 | 0.0307275 | 5742 | prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase a |
| GO | pituitary gland development | 4 | 18 | 0.0307275 | 2624 | GATA binding protein 2 |
| GO | pituitary gland development | 4 | 18 | 0.0307275 | 5122 | proprotein convertase subtilisin/kexin type 1 |
| GO | pituitary gland development | 4 | 18 | 0.0307275 | 5307 | paired-like homeodomain 1 |
| GO | pituitary gland development | 4 | 18 | 0.0307275 | 652 | bone morphogenetic protein 4 |
| GO | cellular process | 4 | 18 | 0.0307275 | 3725 | jun oncogene |
| GO | cellular process | 4 | 18 | 0.0307275 | 3726 | jun B proto-oncogene |
| GO | cellular process | 4 | 18 | 0.0307275 | 5066 | peptidylglycine alpha-amidating monooxygenase |
| GO | cellular process | 4 | 18 | 0.0307275 | 8509 | N-deacetylase/N-sulfotransferase (heparan glucosaminyl) 2 |
| GO | cortical cytoskeleton | 4 | 18 | 0.0307275 | 6521 | solute carrier family 4, anion exchanger, member 1 (erythrocyte memb |
| GO | cortical cytoskeleton | 4 | 18 | 0.0307275 | 7111 | tropomodulin 1 |
| GO | cortical cytoskeleton | 4 | 18 | 0.0307275 | 7170 | tropomyosin 3 |
| GO | cortical cytoskeleton | 4 | 18 | 0.0307275 | 7223 | transient receptor potential cation channel, subfamily C, member 4 |
| GO | protein amino acid glycosylation | 9 | 65 | 0.031965 | 10317 | UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase, polypeptide 5 |
| GO | protein amino acid glycosylation | 9 | 65 | 0.031965 | 192134 | UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 6 (core |
| GO | protein amino acid glycosylation | 9 | 65 | 0.031965 | 2525 | fucosyltransferase 3 (galactoside 3(4)-L-fucosyltransferase, Lewis blooc |
| GO | protein amino acid glycosylation | 9 | 65 | 0.031965 | 2526 | fucosyltransferase 4 (alpha (1,3) fucosyltransferase, myeloid-specific) |
| GO | protein amino acid glycosylation | 9 | 65 | 0.031965 | 27090 | ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1,3)-N-acetylgalact |
| GO | protein amino acid glycosylation | 9 | 65 | 0.031965 | 55808 | ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1,3)-N-acetylgalact |

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|---|---|---|---|---|---|---|
| GO | protein amino acid glycosylation | 9 | 65 | 0.031965 | 6484 | ST3 beta-galactoside alpha-2,3-sialyltransferase 4 |
| GO | protein amino acid glycosylation | 9 | 65 | 0.031965 | 6489 | ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 1 |
| GO | protein amino acid glycosylation | 9 | 65 | 0.031965 | 8706 | beta-1,3-N-acetylgalactosaminyltransferase 1 (globoside blood group) |
| GO | iron ion binding | 9 | 65 | 0.031965 | 10826 | chromosome 5 open reading frame 4 |
| GO | iron ion binding | 9 | 65 | 0.031965 | 240 | arachidonate 5-lipoxygenase |
| GO | iron ion binding | 9 | 65 | 0.031965 | 27035 | NADPH oxidase 1 |
| GO | iron ion binding | 9 | 65 | 0.031965 | 316 | aldehyde oxidase 1 |
| GO | iron ion binding | 9 | 65 | 0.031965 | 5053 | phenylalanine hydroxylase |
| GO | iron ion binding | 9 | 65 | 0.031965 | 5351 | procollagen-lysine 1, 2-oxoglutarate 5-dioxygenase 1 |
| GO | iron ion binding | 9 | 65 | 0.031965 | 54681 | prolyl 4-hydroxylase, transmembrane (endoplasmic reticulum) |
| GO | iron ion binding | 9 | 65 | 0.031965 | 59344 | arachidonate lipoxygenase 3 |
| GO | iron ion binding | 9 | 65 | 0.031965 | 79689 | STEAP family member 4 |
| GO | transforming growth factor beta rece | 8 | 55 | 0.0323494 | 2353 | FBJ murine osteosarcoma viral oncogene homolog |
| GO | transforming growth factor beta rece | 8 | 55 | 0.0323494 | 3725 | jun oncogene |
| GO | transforming growth factor beta rece | 8 | 55 | 0.0323494 | 4087 | SMAD family member 2 |
| GO | transforming growth factor beta rece | 8 | 55 | 0.0323494 | 5371 | promyelocytic leukemia |
| GO | transforming growth factor beta rece | 8 | 55 | 0.0323494 | 7049 | transforming growth factor, beta receptor III |
| GO | transforming growth factor beta rece | 8 | 55 | 0.0323494 | 7071 | Kruppel-like factor 10 |
| GO | transforming growth factor beta rece | 8 | 55 | 0.0323494 | 94 | activin A receptor type II-like 1 |
| GO | transforming growth factor beta rece | 8 | 55 | 0.0323494 | 9518 | growth differentiation factor 15 |
| GO | transmembrane receptor activity | 13 | 108 | 0.0326637 | 10913 | ectodysplasin A receptor |
| GO | transmembrane receptor activity | 13 | 108 | 0.0326637 | 1364 | claudin 4 |
| GO | transmembrane receptor activity | 13 | 108 | 0.0326637 | 1380 | complement component (3d/Epstein Barr virus) receptor 2 |
| GO | transmembrane receptor activity | 13 | 108 | 0.0326637 | 30008 | EGF-containing fibulin-like extracellular matrix protein 2 |
| GO | transmembrane receptor activity | 13 | 108 | 0.0326637 | 3823 | killer cell lectin-like receptor subfamily C, member 3 |
| GO | transmembrane receptor activity | 13 | 108 | 0.0326637 | 3949 | low density lipoprotein receptor |
| GO | transmembrane receptor activity | 13 | 108 | 0.0326637 | 6653 | sortilin-related receptor, L(DLR class) A repeats-containing |
| GO | transmembrane receptor activity | 13 | 108 | 0.0326637 | 7097 | toll-like receptor 2 |
| GO | transmembrane receptor activity | 13 | 108 | 0.0326637 | 7098 | toll-like receptor 3 |
| GO | transmembrane receptor activity | 13 | 108 | 0.0326637 | 7099 | toll-like receptor 4 |
| GO | transmembrane receptor activity | 13 | 108 | 0.0326637 | 7100 | toll-like receptor 5 |
| GO | transmembrane receptor activity | 13 | 108 | 0.0326637 | 8793 | tumor necrosis factor receptor superfamily, member 10d, decoy with t |
| GO | transmembrane receptor activity | 13 | 108 | 0.0326637 | 8794 | tumor necrosis factor receptor superfamily, member 10c, decoy withou |
| GO | odontogenesis of dentine-containing | 6 | 36 | 0.0336095 | 2296 | forkhead box C1 |
| GO | odontogenesis of dentine-containing | 6 | 36 | 0.0336095 | 2737 | GLI family zinc finger 3 |
| GO | odontogenesis of dentine-containing | 6 | 36 | 0.0336095 | 3911 | laminin, alpha 5 |

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|---|---|---|---|---|---|---|
| GO | odontogenesis of dentine-containing | 6 | 36 | 0.0336095 | 652 | bone morphogenetic protein 4 |
| GO | odontogenesis of dentine-containing | 6 | 36 | 0.0336095 | 682 | basigin (Ok blood group) |
| GO | odontogenesis of dentine-containing | 6 | 36 | 0.0336095 | 760 | carbonic anhydrase II |
| GO | response to cold | 5 | 27 | 0.0339066 | 154 | adrenergic, beta-2-, receptor, surface |
| GO | response to cold | 5 | 27 | 0.0339066 | 183 | angiotensinogen (serpin peptidase inhibitor, clade A, member 8) |
| GO | response to cold | 5 | 27 | 0.0339066 | 2353 | FBJ murine osteosarcoma viral oncogene homolog |
| GO | response to cold | 5 | 27 | 0.0339066 | 5367 | pro-melanin-concentrating hormone |
| GO | response to cold | 5 | 27 | 0.0339066 | 8531 | cold shock domain protein A |
| GO | retinol dehydrogenase activity | 3 | 11 | 0.0347288 | 10170 | dehydrogenase/reductase (SDR family) member 9 |
| GO | retinol dehydrogenase activity | 3 | 11 | 0.0347288 | 157506 | retinol dehydrogenase 10 (all-trans) |
| GO | retinol dehydrogenase activity | 3 | 11 | 0.0347288 | 195814 | short chain dehydrogenase/reductase family 16C, member 5 |
| GO | negative regulation of osteoclast diff | 3 | 11 | 0.0347288 | 10766 | transducer of ERBB2, 2 |
| GO | negative regulation of osteoclast diff | 3 | 11 | 0.0347288 | 7098 | toll-like receptor 3 |
| GO | negative regulation of osteoclast diff | 3 | 11 | 0.0347288 | 7099 | toll-like receptor 4 |
| GO | sphingolipid biosynthetic process | 3 | 11 | 0.0347288 | 123099 | degenerative spermatocyte homolog 2, lipid desaturase (Drosophila) |
| GO | sphingolipid biosynthetic process | 3 | 11 | 0.0347288 | 165679 | chromosome 3 open reading frame 57 |
| GO | sphingolipid biosynthetic process | 3 | 11 | 0.0347288 | 55304 | serine palmitoyltransferase, long chain base subunit 3 |
| GO | transforming growth factor beta rece | 3 | 11 | 0.0347288 | 130399 | activin A receptor, type IC |
| GO | transforming growth factor beta rece | 3 | 11 | 0.0347288 | 7049 | transforming growth factor, beta receptor III |
| GO | transforming growth factor beta rece | 3 | 11 | 0.0347288 | 94 | activin A receptor type II-like 1 |
| GO | positive regulation of cellular protein | 3 | 11 | 0.0347288 | 1435 | colony stimulating factor 1 (macrophage) |
| GO | positive regulation of cellular protein | 3 | 11 | 0.0347288 | 183 | angiotensinogen (serpin peptidase inhibitor, clade A, member 8) |
| GO | positive regulation of cellular protein | 3 | 11 | 0.0347288 | 4792 | nuclear factor of kappa light polypeptide gene enhancer in B-cells inhib |
| GO | arachidonic acid secretion | 3 | 11 | 0.0347288 | 1813 | dopamine receptor D2 |
| GO | arachidonic acid secretion | 3 | 11 | 0.0347288 | 1815 | dopamine receptor D4 |
| GO | arachidonic acid secretion | 3 | 11 | 0.0347288 | 56923 | neuromedin U receptor 2 |
| GO | peptide hormone processing | 3 | 11 | 0.0347288 | 25825 | beta-site APP-cleaving enzyme 2 |
| GO | peptide hormone processing | 3 | 11 | 0.0347288 | 5046 | proprotein convertase subtilisin/kexin type 6 |
| GO | peptide hormone processing | 3 | 11 | 0.0347288 | 5122 | proprotein convertase subtilisin/kexin type 1 |
| GO | positive regulation of interleukin-1 be | 3 | 11 | 0.0347288 | 29108 | PYD and CARD domain containing |
| GO | positive regulation of interleukin-1 be | 3 | 11 | 0.0347288 | 64127 | nucleotide-binding oligomerization domain containing 2 |
| GO | positive regulation of interleukin-1 be | 3 | 11 | 0.0347288 | 834 | caspase 1, apoptosis-related cysteine peptidase (interleukin 1, beta, co |
| GO | basal lamina | 3 | 11 | 0.0347288 | 375790 | agrin |
| GO | basal lamina | 3 | 11 | 0.0347288 | 3911 | laminin, alpha 5 |
| GO | basal lamina | 3 | 11 | 0.0347288 | 3913 | laminin, beta 2 (laminin S) |
| GO | I-kappaB phosphorylation | 3 | 11 | 0.0347288 | 7097 | toll-like receptor 2 |

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|---|---|---|---|---|---|---|
| GO | I-kappaB phosphorylation | 3 | 11 | 0.0347288 | 7098 | toll-like receptor 3 |
| GO | I-kappaB phosphorylation | 3 | 11 | 0.0347288 | 7099 | toll-like receptor 4 |
| GO | cellular response to insulin stimulus | 7 | 46 | 0.0353627 | 10014 | histone deacetylase 5 |
| GO | cellular response to insulin stimulus | 7 | 46 | 0.0353627 | 255738 | proprotein convertase subtilisin/kexin type 9 |
| GO | cellular response to insulin stimulus | 7 | 46 | 0.0353627 | 3643 | insulin receptor |
| GO | cellular response to insulin stimulus | 7 | 46 | 0.0353627 | 51703 | acyl-CoA synthetase long-chain family member 5 |
| GO | cellular response to insulin stimulus | 7 | 46 | 0.0353627 | 6256 | retinoid X receptor, alpha |
| GO | cellular response to insulin stimulus | 7 | 46 | 0.0353627 | 8660 | insulin receptor substrate 2 |
| GO | cellular response to insulin stimulus | 7 | 46 | 0.0353627 | 9734 | histone deacetylase 9 |
| GO | external side of plasma membrane | 14 | 121 | 0.0366976 | 1508 | cathepsin B |
| GO | external side of plasma membrane | 14 | 121 | 0.0366976 | 2205 | Fc fragment of IgE, high affinity I, receptor for; alpha polypeptide |
| GO | external side of plasma membrane | 14 | 121 | 0.0366976 | 29126 | CD274 molecule |
| GO | external side of plasma membrane | 14 | 121 | 0.0366976 | 3561 | interleukin 2 receptor, gamma (severe combined immunodeficiency) |
| GO | external side of plasma membrane | 14 | 121 | 0.0366976 | 3678 | integrin, alpha 5 (fibronectin receptor, alpha polypeptide) |
| GO | external side of plasma membrane | 14 | 121 | 0.0366976 | 3687 | integrin, alpha X (complement component 3 receptor 4 subunit) |
| GO | external side of plasma membrane | 14 | 121 | 0.0366976 | 3815 | v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog |
| GO | external side of plasma membrane | 14 | 121 | 0.0366976 | 4684 | neural cell adhesion molecule 1 |
| GO | external side of plasma membrane | 14 | 121 | 0.0366976 | 55867 | solute carrier family 22 (organic anion/urate transporter), member 11 |
| GO | external side of plasma membrane | 14 | 121 | 0.0366976 | 6402 | selectin L |
| GO | external side of plasma membrane | 14 | 121 | 0.0366976 | 7049 | transforming growth factor, beta receptor III |
| GO | external side of plasma membrane | 14 | 121 | 0.0366976 | 7097 | toll-like receptor 2 |
| GO | external side of plasma membrane | 14 | 121 | 0.0366976 | 7099 | toll-like receptor 4 |
| GO | external side of plasma membrane | 14 | 121 | 0.0366976 | 9619 | ATP-binding cassette, sub-family G (WHITE), member 1 |
| GO | neutrophil chemotaxis | 4 | 19 | 0.0368754 | 1906 | endothelin 1 |
| GO | neutrophil chemotaxis | 4 | 19 | 0.0368754 | 2921 | chemokine (C-X-C motif) ligand 3 |
| GO | neutrophil chemotaxis | 4 | 19 | 0.0368754 | 3689 | integrin, beta 2 (complement component 3 receptor 3 and 4 subunit) |
| GO | neutrophil chemotaxis | 4 | 19 | 0.0368754 | 6850 | spleen tyrosine kinase |
| GO | positive regulation of MAP kinase act | 4 | 19 | 0.0368754 | 1906 | endothelin 1 |
| GO | positive regulation of MAP kinase act | 4 | 19 | 0.0368754 | 3815 | v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog |
| GO | positive regulation of MAP kinase act | 4 | 19 | 0.0368754 | 3845 | v-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog |
| GO | positive regulation of MAP kinase act | 4 | 19 | 0.0368754 | 4254 | KIT ligand |
| GO | positive regulation of JNK cascade | 4 | 19 | 0.0368754 | 28996 | homeodomain interacting protein kinase 2 |
| GO | positive regulation of JNK cascade | 4 | 19 | 0.0368754 | 64127 | nucleotide-binding oligomerization domain containing 2 |
| GO | positive regulation of JNK cascade | 4 | 19 | 0.0368754 | 7098 | toll-like receptor 3 |
| GO | positive regulation of JNK cascade | 4 | 19 | 0.0368754 | 7099 | toll-like receptor 4 |
| GO | serine-type endopeptidase activity | 16 | 144 | 0.0371879 | 10942 | protease, serine, 21 (testisin) |

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|---|---|---|---|---|---|---|
| GO | serine-type endopeptidase activity | 16 | 144 | 0.0371879 | 11202 | kallikrein-related peptidase 8 |
| GO | serine-type endopeptidase activity | 16 | 144 | 0.0371879 | 1803 | dipeptidyl-peptidase 4 |
| GO | serine-type endopeptidase activity | 16 | 144 | 0.0371879 | 255738 | proprotein convertase subtilisin/kexin type 9 |
| GO | serine-type endopeptidase activity | 16 | 144 | 0.0371879 | 5046 | proprotein convertase subtilisin/kexin type 6 |
| GO | serine-type endopeptidase activity | 16 | 144 | 0.0371879 | 5122 | proprotein convertase subtilisin/kexin type 1 |
| GO | serine-type endopeptidase activity | 16 | 144 | 0.0371879 | 51279 | complement component 1, r subcomponent-like |
| GO | serine-type endopeptidase activity | 16 | 144 | 0.0371879 | 5327 | plasminogen activator, tissue |
| GO | serine-type endopeptidase activity | 16 | 144 | 0.0371879 | 54933 | rhomboid, veinlet-like 2 (Drosophila) |
| GO | serine-type endopeptidase activity | 16 | 144 | 0.0371879 | 5648 | mannan-binding lectin serine peptidase 1 (C4/C2 activating component |
| GO | serine-type endopeptidase activity | 16 | 144 | 0.0371879 | 5655 | kallikrein-related peptidase 10 |
| GO | serine-type endopeptidase activity | 16 | 144 | 0.0371879 | 56649 | transmembrane protease, serine 4 |
| GO | serine-type endopeptidase activity | 16 | 144 | 0.0371879 | 629 | complement factor B |
| GO | serine-type endopeptidase activity | 16 | 144 | 0.0371879 | 64699 | transmembrane protease, serine 3 |
| GO | serine-type endopeptidase activity | 16 | 144 | 0.0371879 | 715 | complement component 1, r subcomponent |
| GO | serine-type endopeptidase activity | 16 | 144 | 0.0371879 | 717 | complement component 2 |
| GO | integrin complex | 5 | 28 | 0.0390333 | 3678 | integrin, alpha 5 (fibronectin receptor, alpha polypeptide) |
| GO | integrin complex | 5 | 28 | 0.0390333 | 3687 | integrin, alpha X (complement component 3 receptor 4 subunit) |
| GO | integrin complex | 5 | 28 | 0.0390333 | 3689 | integrin, beta 2 (complement component 3 receptor 3 and 4 subunit) |
| GO | integrin complex | 5 | 28 | 0.0390333 | 3691 | integrin, beta 4 |
| GO | integrin complex | 5 | 28 | 0.0390333 | 3696 | integrin, beta 8 |
| GO | lung morphogenesis | 2 | 5 | 0.0406292 | 10253 | sprouty homolog 2 (Drosophila) |
| GO | lung morphogenesis | 2 | 5 | 0.0406292 | 652 | bone morphogenetic protein 4 |
| GO | activation of MAPKKK activity | 2 | 5 | 0.0406292 | 10912 | growth arrest and DNA-damage-inducible, gamma |
| GO | activation of MAPKKK activity | 2 | 5 | 0.0406292 | 4616 | growth arrest and DNA-damage-inducible, beta |
| GO | branching involved in mammary glan | 2 | 5 | 0.0406292 | 1435 | colony stimulating factor 1 (macrophage) |
| GO | branching involved in mammary glan | 2 | 5 | 0.0406292 | 5371 | promyelocytic leukemia |
| GO | positive regulation of sodium ion trar | 2 | 5 | 0.0406292 | 154 | adrenergic, beta-2-, receptor, surface |
| GO | positive regulation of sodium ion trar | 2 | 5 | 0.0406292 | 154043 | CNKSR family member 3 |
| GO | monoterpenoid metabolic process | 2 | 5 | 0.0406292 | 1559 | cytochrome P450, family 2, subfamily C, polypeptide 9 |
| GO | monoterpenoid metabolic process | 2 | 5 | 0.0406292 | 1571 | cytochrome P450, family 2, subfamily E, polypeptide 1 |
| GO | serine C-palmitoyltransferase activity | 2 | 5 | 0.0406292 | 165679 | chromosome 3 open reading frame 57 |
| GO | serine C-palmitoyltransferase activity | 2 | 5 | 0.0406292 | 55304 | serine palmitoyltransferase, long chain base subunit 3 |
| GO | serine C-palmitoyltransferase comple | 2 | 5 | 0.0406292 | 165679 | chromosome 3 open reading frame 57 |
| GO | serine C-palmitoyltransferase comple | 2 | 5 | 0.0406292 | 55304 | serine palmitoyltransferase, long chain base subunit 3 |
| GO | pattern recognition receptor activity | 2 | 5 | 0.0406292 | 1755 | deleted in malignant brain tumors 1 |
| GO | pattern recognition receptor activity | 2 | 5 | 0.0406292 | 7097 | toll-like receptor 2 |

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|---|---|---|---|---|---|---|
| GO | inhibition of adenylate cyclase activit | 2 | 5 | 0.0406292 | 1813 | dopamine receptor D2 |
| GO | inhibition of adenylate cyclase activit | 2 | 5 | 0.0406292 | 1815 | dopamine receptor D4 |
| GO | nerve-nerve synaptic transmission | 2 | 5 | 0.0406292 | 1813 | dopamine receptor D2 |
| GO | nerve-nerve synaptic transmission | 2 | 5 | 0.0406292 | 23095 | kinesin family member 1B |
| GO | fear response | 2 | 5 | 0.0406292 | 1815 | dopamine receptor D4 |
| GO | fear response | 2 | 5 | 0.0406292 | 627 | brain-derived neurotrophic factor |
| GO | protein tyrosine/threonine phosphat | 2 | 5 | 0.0406292 | 1843 | dual specificity phosphatase 1 |
| GO | protein tyrosine/threonine phosphat | 2 | 5 | 0.0406292 | 1844 | dual specificity phosphatase 2 |
| GO | mitogen-activated protein kinase bin | 2 | 5 | 0.0406292 | 1844 | dual specificity phosphatase 2 |
| GO | mitogen-activated protein kinase bin | 2 | 5 | 0.0406292 | 2033 | E1A binding protein p300 |
| GO | microfibril | 2 | 5 | 0.0406292 | 2200 | fibrillin 1 |
| GO | microfibril | 2 | 5 | 0.0406292 | 8076 | microfibrillar associated protein 5 |
| GO | paraxial mesoderm formation | 2 | 5 | 0.0406292 | 2296 | forkhead box C1 |
| GO | paraxial mesoderm formation | 2 | 5 | 0.0406292 | 2303 | forkhead box C2 (MFH-1, mesenchyme forkhead 1) |
| GO | neutrophil mediated immunity | 2 | 5 | 0.0406292 | 3569 | interleukin 6 (interferon, beta 2) |
| GO | neutrophil mediated immunity | 2 | 5 | 0.0406292 | 3570 | interleukin 6 receptor |
| GO | positive regulation of immunoglobuli | 2 | 5 | 0.0406292 | 3569 | interleukin 6 (interferon, beta 2) |
| GO | positive regulation of immunoglobuli | 2 | 5 | 0.0406292 | 5950 | retinol binding protein 4, plasma |
| GO | negative regulation of transporter ac | 2 | 5 | 0.0406292 | 3643 | insulin receptor |
| GO | negative regulation of transporter ac | 2 | 5 | 0.0406292 | 6622 | synuclein, alpha (non A4 component of amyloid precursor) |
| GO | negative regulation of focal adhesion | 2 | 5 | 0.0406292 | 395 | Rho GTPase activating protein 6 |
| GO | negative regulation of focal adhesion | 2 | 5 | 0.0406292 | 94 | activin A receptor type II-like 1 |
| GO | response to cholesterol | 2 | 5 | 0.0406292 | 4087 | SMAD family member 2 |
| GO | response to cholesterol | 2 | 5 | 0.0406292 | 51703 | acyl-CoA synthetase long-chain family member 5 |
| GO | amine oxidase activity | 2 | 5 | 0.0406292 | 4128 | monoamine oxidase A |
| GO | amine oxidase activity | 2 | 5 | 0.0406292 | 4129 | monoamine oxidase B |
| GO | regulation of cardiac muscle contract | 2 | 5 | 0.0406292 | 4842 | nitric oxide synthase 1 (neuronal) |
| GO | regulation of cardiac muscle contract | 2 | 5 | 0.0406292 | 5025 | purinergic receptor P2X, ligand-gated ion channel, 4 |
| GO | entrainment of circadian clock | 2 | 5 | 0.0406292 | 5187 | period homolog 1 (Drosophila) |
| GO | entrainment of circadian clock | 2 | 5 | 0.0406292 | 8553 | basic helix-loop-helix family, member e40 |
| GO | prostaglandin E receptor activity | 2 | 5 | 0.0406292 | 5732 | prostaglandin E receptor 2 (subtype EP2), 53kDa |
| GO | prostaglandin E receptor activity | 2 | 5 | 0.0406292 | 5734 | prostaglandin E receptor 4 (subtype EP4) |
| GO | negative regulation of growth of sym | 2 | 5 | 0.0406292 | 64127 | nucleotide-binding oligomerization domain containing 2 |
| GO | negative regulation of growth of sym | 2 | 5 | 0.0406292 | 7097 | toll-like receptor 2 |
| GO | cell-matrix adhesion | 9 | 68 | 0.0411625 | 10516 | fibulin 5 |
| GO | cell-matrix adhesion | 9 | 68 | 0.0411625 | 183 | angiotensinogen (serpin peptidase inhibitor, clade A, member 8) |

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|---|---|---|---|---|---|---|
| GO | cell-matrix adhesion | 9 | 68 | 0.0411625 | 22795 | nidogen 2 (osteonidogen) |
| GO | cell-matrix adhesion | 9 | 68 | 0.0411625 | 27076 | LY6/PLAUR domain containing 3 |
| GO | cell-matrix adhesion | 9 | 68 | 0.0411625 | 3689 | integrin, beta 2 (complement component 3 receptor 3 and 4 subunit) |
| GO | cell-matrix adhesion | 9 | 68 | 0.0411625 | 3691 | integrin, beta 4 |
| GO | cell-matrix adhesion | 9 | 68 | 0.0411625 | 3696 | integrin, beta 8 |
| GO | cell-matrix adhesion | 9 | 68 | 0.0411625 | 51754 | transmembrane protein 8B |
| GO | cell-matrix adhesion | 9 | 68 | 0.0411625 | 8751 | ADAM metallopeptidase domain 15 |
| GO | protein homodimerization activity | 34 | 365 | 0.0411734 | 11213 | interleukin-1 receptor-associated kinase 3 |
| GO | protein homodimerization activity | 34 | 365 | 0.0411734 | 1139 | cholinergic receptor, nicotinic, alpha 7 |
| GO | protein homodimerization activity | 34 | 365 | 0.0411734 | 116113 | forkhead box P4 |
| GO | protein homodimerization activity | 34 | 365 | 0.0411734 | 127343 | diencephalon/mesencephalon homeobox 1 |
| GO | protein homodimerization activity | 34 | 365 | 0.0411734 | 1380 | complement component (3d/Epstein Barr virus) receptor 2 |
| GO | protein homodimerization activity | 34 | 365 | 0.0411734 | 1435 | colony stimulating factor 1 (macrophage) |
| GO | protein homodimerization activity | 34 | 365 | 0.0411734 | 154 | adrenergic, beta-2-, receptor, surface |
| GO | protein homodimerization activity | 34 | 365 | 0.0411734 | 1803 | dipeptidyl-peptidase 4 |
| GO | protein homodimerization activity | 34 | 365 | 0.0411734 | 1820 | AT rich interactive domain 3A (BRIGHT-like) |
| GO | protein homodimerization activity | 34 | 365 | 0.0411734 | 2026 | enolase 2 (gamma, neuronal) |
| GO | protein homodimerization activity | 34 | 365 | 0.0411734 | 2122 | MDS1 and EVI1 complex locus |
| GO | protein homodimerization activity | 34 | 365 | 0.0411734 | 22807 | IKAROS family zinc finger 2 (Helios) |
| GO | protein homodimerization activity | 34 | 365 | 0.0411734 | 29108 | PYD and CARD domain containing |
| GO | protein homodimerization activity | 34 | 365 | 0.0411734 | 3164 | nuclear receptor subfamily 4, group A, member 1 |
| GO | protein homodimerization activity | 34 | 365 | 0.0411734 | 3570 | interleukin 6 receptor |
| GO | protein homodimerization activity | 34 | 365 | 0.0411734 | 4129 | monoamine oxidase B |
| GO | protein homodimerization activity | 34 | 365 | 0.0411734 | 429 | achaete-scute complex homolog 1 (Drosophila) |
| GO | protein homodimerization activity | 34 | 365 | 0.0411734 | 4293 | mitogen-activated protein kinase kinase kinase 9 |
| GO | protein homodimerization activity | 34 | 365 | 0.0411734 | 4692 | necdin homolog (mouse) |
| GO | protein homodimerization activity | 34 | 365 | 0.0411734 | 5025 | purinergic receptor P2X, ligand-gated ion channel, 4 |
| GO | protein homodimerization activity | 34 | 365 | 0.0411734 | 5053 | phenylalanine hydroxylase |
| GO | protein homodimerization activity | 34 | 365 | 0.0411734 | 51085 | MLX interacting protein-like |
| GO | protein homodimerization activity | 34 | 365 | 0.0411734 | 5351 | procollagen-lysine 1, 2-oxoglutarate 5-dioxygenase 1 |
| GO | protein homodimerization activity | 34 | 365 | 0.0411734 | 5371 | promyelocytic leukemia |
| GO | protein homodimerization activity | 34 | 365 | 0.0411734 | 5648 | mannan-binding lectin serine peptidase 1 (C4/C2 activating component |
| GO | protein homodimerization activity | 34 | 365 | 0.0411734 | 57453 | Down syndrome cell adhesion molecule like 1 |
| GO | protein homodimerization activity | 34 | 365 | 0.0411734 | 57863 | cell adhesion molecule 3 |
| GO | protein homodimerization activity | 34 | 365 | 0.0411734 | 5791 | protein tyrosine phosphatase, receptor type, E |
| GO | protein homodimerization activity | 34 | 365 | 0.0411734 | 652 | bone morphogenetic protein 4 |

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|---|---|---|---|---|---|---|
| GO | protein homodimerization activity | 34 | 365 | 0.0411734 | 6521 | solute carrier family 4, anion exchanger, member 1 (erythrocyte memb |
| GO | protein homodimerization activity | 34 | 365 | 0.0411734 | 7026 | nuclear receptor subfamily 2, group F, member 2 |
| GO | protein homodimerization activity | 34 | 365 | 0.0411734 | 81603 | tripartite motif-containing 8 |
| GO | protein homodimerization activity | 34 | 365 | 0.0411734 | 8527 | diacylglycerol kinase, delta 130kDa |
| GO | protein homodimerization activity | 34 | 365 | 0.0411734 | 9619 | ATP-binding cassette, sub-family G (WHITE), member 1 |
| GO | negative regulation of cell migration | 6 | 38 | 0.0424786 | 10076 | protein tyrosine phosphatase, receptor type, U |
| GO | negative regulation of cell migration | 6 | 38 | 0.0424786 | 1813 | dopamine receptor D2 |
| GO | negative regulation of cell migration | 6 | 38 | 0.0424786 | 3488 | insulin-like growth factor binding protein 5 |
| GO | negative regulation of cell migration | 6 | 38 | 0.0424786 | 375056 | melanoma inhibitory activity family, member 3 |
| GO | negative regulation of cell migration | 6 | 38 | 0.0424786 | 8646 | chordin |
| GO | negative regulation of cell migration | 6 | 38 | 0.0424786 | 94 | activin A receptor type II-like 1 |
| GO | response to mechanical stimulus | 6 | 38 | 0.0424786 | 10628 | thioredoxin interacting protein |
| GO | response to mechanical stimulus | 6 | 38 | 0.0424786 | 1508 | cathepsin B |
| GO | response to mechanical stimulus | 6 | 38 | 0.0424786 | 2353 | FBJ murine osteosarcoma viral oncogene homolog |
| GO | response to mechanical stimulus | 6 | 38 | 0.0424786 | 3725 | jun oncogene |
| GO | response to mechanical stimulus | 6 | 38 | 0.0424786 | 3726 | jun B proto-oncogene |
| GO | response to mechanical stimulus | 6 | 38 | 0.0424786 | 652 | bone morphogenetic protein 4 |
| GO | transcription factor binding | 18 | 170 | 0.0427318 | 10014 | histone deacetylase 5 |
| GO | transcription factor binding | 18 | 170 | 0.0427318 | 10221 | tribbles homolog 1 (Drosophila) |
| GO | transcription factor binding | 18 | 170 | 0.0427318 | 10891 | peroxisome proliferator-activated receptor gamma, coactivator 1 alpha |
| GO | transcription factor binding | 18 | 170 | 0.0427318 | 2033 | E1A binding protein p300 |
| GO | transcription factor binding | 18 | 170 | 0.0427318 | 2296 | forkhead box C1 |
| GO | transcription factor binding | 18 | 170 | 0.0427318 | 2354 | FBJ murine osteosarcoma viral oncogene homolog B |
| GO | transcription factor binding | 18 | 170 | 0.0427318 | 2624 | GATA binding protein 2 |
| GO | transcription factor binding | 18 | 170 | 0.0427318 | 28951 | tribbles homolog 2 (Drosophila) |
| GO | transcription factor binding | 18 | 170 | 0.0427318 | 3725 | jun oncogene |
| GO | transcription factor binding | 18 | 170 | 0.0427318 | 4087 | SMAD family member 2 |
| GO | transcription factor binding | 18 | 170 | 0.0427318 | 4792 | nuclear factor of kappa light polypeptide gene enhancer in B-cells inhib |
| GO | transcription factor binding | 18 | 170 | 0.0427318 | 51085 | MLX interacting protein-like |
| GO | transcription factor binding | 18 | 170 | 0.0427318 | 5308 | paired-like homeodomain 2 |
| GO | transcription factor binding | 18 | 170 | 0.0427318 | 5460 | POU class 5 homeobox 1 |
| GO | transcription factor binding | 18 | 170 | 0.0427318 | 6604 | SWI/SNF related, matrix associated, actin dependent regulator of chro |
| GO | transcription factor binding | 18 | 170 | 0.0427318 | 8543 | LIM domain only 4 |
| GO | transcription factor binding | 18 | 170 | 0.0427318 | 9734 | histone deacetylase 9 |
| GO | transcription factor binding | 18 | 170 | 0.0427318 | 9935 | v-maf musculoaponeurotic fibrosarcoma oncogene homolog B (avian) |
| GO | cytokine-mediated signaling pathway | 7 | 48 | 0.0432871 | 11213 | interleukin-1 receptor-associated kinase 3 |

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|---|---|---|---|---|---|---|
| GO | cytokine-mediated signaling pathway | 7 | 48 | 0.0432871 | 23529 | cardiotrophin-like cytokine factor 1 |
| GO | cytokine-mediated signaling pathway | 7 | 48 | 0.0432871 | 3569 | interleukin 6 (interferon, beta 2) |
| GO | cytokine-mediated signaling pathway | 7 | 48 | 0.0432871 | 3570 | interleukin 6 receptor |
| GO | cytokine-mediated signaling pathway | 7 | 48 | 0.0432871 | 3815 | v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog |
| GO | cytokine-mediated signaling pathway | 7 | 48 | 0.0432871 | 3845 | v-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog |
| GO | cytokine-mediated signaling pathway | 7 | 48 | 0.0432871 | 6778 | signal transducer and activator of transcription 6, interleukin-4 induced |
| GO | retina development in camera-type e | 4 | 20 | 0.0436781 | 2055 | ceroid-lipofuscinosis, neuronal 8 (epilepsy, progressive with mental ret |
| GO | retina development in camera-type e | 4 | 20 | 0.0436781 | 4802 | nuclear transcription factor Y, gamma |
| GO | retina development in camera-type e | 4 | 20 | 0.0436781 | 5950 | retinol binding protein 4, plasma |
| GO | retina development in camera-type e | 4 | 20 | 0.0436781 | 652 | bone morphogenetic protein 4 |
| GO | tumor necrosis factor receptor bindir | 4 | 20 | 0.0436781 | 8600 | tumor necrosis factor (ligand) superfamily, member 11 |
| GO | tumor necrosis factor receptor bindir | 4 | 20 | 0.0436781 | 8740 | tumor necrosis factor (ligand) superfamily, member 14 |
| GO | tumor necrosis factor receptor bindir | 4 | 20 | 0.0436781 | 8744 | tumor necrosis factor (ligand) superfamily, member 9 |
| GO | tumor necrosis factor receptor bindir | 4 | 20 | 0.0436781 | 9966 | tumor necrosis factor (ligand) superfamily, member 15 |
| GO | drug metabolic process | 3 | 12 | 0.0440067 | 1558 | cytochrome P450, family 2, subfamily C, polypeptide 8 |
| GO | drug metabolic process | 3 | 12 | 0.0440067 | 1559 | cytochrome P450, family 2, subfamily C, polypeptide 9 |
| GO | drug metabolic process | 3 | 12 | 0.0440067 | 1571 | cytochrome P450, family 2, subfamily E, polypeptide 1 |
| GO | photoreceptor inner segment | 3 | 12 | 0.0440067 | 2026 | enolase 2 (gamma, neuronal) |
| GO | photoreceptor inner segment | 3 | 12 | 0.0440067 | 4842 | nitric oxide synthase 1 (neuronal) |
| GO | photoreceptor inner segment | 3 | 12 | 0.0440067 | 5132 | phosducin |
| GO | response to pH | 3 | 12 | 0.0440067 | 27035 | NADPH oxidase 1 |
| GO | response to pH | 3 | 12 | 0.0440067 | 412 | steroid sulfatase (microsomal), isozyme S |
| GO | response to pH | 3 | 12 | 0.0440067 | 760 | carbonic anhydrase II |
| GO | negative regulation of macrophage d | 3 | 12 | 0.0440067 | 4792 | nuclear factor of kappa light polypeptide gene enhancer in B-cells inhib |
| GO | negative regulation of macrophage d | 3 | 12 | 0.0440067 | 5465 | peroxisome proliferator-activated receptor alpha |
| GO | negative regulation of macrophage d | 3 | 12 | 0.0440067 | 9619 | ATP-binding cassette, sub-family G (WHITE), member 1 |
| GO | positive regulation of interferon-beta | 3 | 12 | 0.0440067 | 7097 | toll-like receptor 2 |
| GO | positive regulation of interferon-beta | 3 | 12 | 0.0440067 | 7098 | toll-like receptor 3 |
| GO | positive regulation of interferon-beta | 3 | 12 | 0.0440067 | 7099 | toll-like receptor 4 |
| GO | metanephros development | 5 | 29 | 0.0446065 | 10252 | sprouty homolog 1, antagonist of FGF signaling (Drosophila) |
| GO | metanephros development | 5 | 29 | 0.0446065 | 157506 | retinol dehydrogenase 10 (all-trans) |
| GO | metanephros development | 5 | 29 | 0.0446065 | 2303 | forkhead box C2 (MFH-1, mesenchyme forkhead 1) |
| GO | metanephros development | 5 | 29 | 0.0446065 | 2737 | GLI family zinc finger 3 |
| GO | metanephros development | 5 | 29 | 0.0446065 | 652 | bone morphogenetic protein 4 |
| GO | protein targeting | 5 | 29 | 0.0446065 | 22906 | trafficking protein, kinesin binding 1 |
| GO | protein targeting | 5 | 29 | 0.0446065 | 23303 | kinesin family member 13B |

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|---|---|---|---|---|---|---|
| GO | protein targeting | 5 | 29 | 0.0446065 | 5371 | promyelocytic leukemia |
| GO | protein targeting | 5 | 29 | 0.0446065 | 5873 | RAB27A, member RAS oncogene family |
| GO | protein targeting | 5 | 29 | 0.0446065 | 9182 | Ras association (RalGDS/AF-6) domain family (N-terminal) member 9 |
| GO | in utero embryonic development | 15 | 136 | 0.045041 | 10568 | solute carrier family 34 (sodium phosphate), member 2 |
| GO | in utero embryonic development | 15 | 136 | 0.045041 | 157506 | retinol dehydrogenase 10 (all-trans) |
| GO | in utero embryonic development | 15 | 136 | 0.045041 | 1906 | endothelin 1 |
| GO | in utero embryonic development | 15 | 136 | 0.045041 | 2296 | forkhead box C1 |
| GO | in utero embryonic development | 15 | 136 | 0.045041 | 2707 | gap junction protein, beta 3, 31kDa |
| GO | in utero embryonic development | 15 | 136 | 0.045041 | 2737 | GLI family zinc finger 3 |
| GO | in utero embryonic development | 15 | 136 | 0.045041 | 28982 | feline leukemia virus subgroup C cellular receptor 1 |
| GO | in utero embryonic development | 15 | 136 | 0.045041 | 29123 | ankyrin repeat domain 11 |
| GO | in utero embryonic development | 15 | 136 | 0.045041 | 3726 | jun B proto-oncogene |
| GO | in utero embryonic development | 15 | 136 | 0.045041 | 4087 | SMAD family member 2 |
| GO | in utero embryonic development | 15 | 136 | 0.045041 | 4851 | Notch homolog 1, translocation-associated (Drosophila) |
| GO | in utero embryonic development | 15 | 136 | 0.045041 | 5801 | protein tyrosine phosphatase, receptor type, R |
| GO | in utero embryonic development | 15 | 136 | 0.045041 | 8531 | cold shock domain protein A |
| GO | in utero embryonic development | 15 | 136 | 0.045041 | 91 | activin A receptor, type IB |
| GO | in utero embryonic development | 15 | 136 | 0.045041 | 94 | activin A receptor type II-like 1 |
| GO | Golgi membrane | 32 | 343 | 0.0456553 | 10090 | uronyl-2-sulfotransferase |
| GO | Golgi membrane | 32 | 343 | 0.0456553 | 10282 | blocked early in transport 1 homolog (S. cerevisiae) |
| GO | Golgi membrane | 32 | 343 | 0.0456553 | 10317 | UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase, polypeptide 5 |
| GO | Golgi membrane | 32 | 343 | 0.0456553 | 127845 | golgi transport 1 homolog A (S. cerevisiae) |
| GO | Golgi membrane | 32 | 343 | 0.0456553 | 1571 | cytochrome P450, family 2, subfamily E, polypeptide 1 |
| GO | Golgi membrane | 32 | 343 | 0.0456553 | 166929 | sphingomyelin synthase 2 |
| GO | Golgi membrane | 32 | 343 | 0.0456553 | 192134 | UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 6 (core |
| GO | Golgi membrane | 32 | 343 | 0.0456553 | 26035 | glucuronic acid epimerase |
| GO | Golgi membrane | 32 | 343 | 0.0456553 | 2706 | gap junction protein, beta 2, 26kDa |
| GO | Golgi membrane | 32 | 343 | 0.0456553 | 27090 | ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1,3)-N-acetylgalact |
| GO | Golgi membrane | 32 | 343 | 0.0456553 | 3601 | interleukin 15 receptor, alpha |
| GO | Golgi membrane | 32 | 343 | 0.0456553 | 374378 | UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosami |
| GO | Golgi membrane | 32 | 343 | 0.0456553 | 4121 | mannosidase, alpha, class 1A, member 1 |
| GO | Golgi membrane | 32 | 343 | 0.0456553 | 51272 | blocked early in transport 1 homolog (S. cerevisiae)-like |
| GO | Golgi membrane | 32 | 343 | 0.0456553 | 51313 | family with sequence similarity 198, member B |
| GO | Golgi membrane | 32 | 343 | 0.0456553 | 5244 | ATP-binding cassette, sub-family B (MDR/TAP), member 4 |
| GO | Golgi membrane | 32 | 343 | 0.0456553 | 53947 | alpha 1,4-galactosyltransferase |
| GO | Golgi membrane | 32 | 343 | 0.0456553 | 54947 | lysophosphatidylcholine acyltransferase 2 |

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| GO | Golgi membrane | 32 | 343 | 0.0456553 | 55638 | Golgi-localized protein |
| GO | Golgi membrane | 32 | 343 | 0.0456553 | 55808 | ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1,3)-N-acetylgalact |
| GO | Golgi membrane | 32 | 343 | 0.0456553 | 57134 | mannosidase, alpha, class 1C, member 1 |
| GO | Golgi membrane | 32 | 343 | 0.0456553 | 5768 | quiescin Q6 sulfhydryl oxidase 1 |
| GO | Golgi membrane | 32 | 343 | 0.0456553 | 6489 | ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 1 |
| GO | Golgi membrane | 32 | 343 | 0.0456553 | 682 | basigin (Ok blood group) |
| GO | Golgi membrane | 32 | 343 | 0.0456553 | 79689 | STEAP family member 4 |
| GO | Golgi membrane | 32 | 343 | 0.0456553 | 79695 | UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosami |
| GO | Golgi membrane | 32 | 343 | 0.0456553 | 79971 | wntless homolog (Drosophila) |
| GO | Golgi membrane | 32 | 343 | 0.0456553 | 8509 | N-deacetylase/N-sulfotransferase (heparan glucosaminyl) 2 |
| GO | Golgi membrane | 32 | 343 | 0.0456553 | 8706 | beta-1,3-N-acetylgalactosaminyltransferase 1 (globoside blood group) |
| GO | Golgi membrane | 32 | 343 | 0.0456553 | 89866 | SEC16 homolog B (S. cerevisiae) |
| GO | Golgi membrane | 32 | 343 | 0.0456553 | 9445 | integral membrane protein 2B |
| GO | Golgi membrane | 32 | 343 | 0.0456553 | 9619 | ATP-binding cassette, sub-family G (WHITE), member 1 |
| GO | transport vesicle | 6 | 39 | 0.0474143 | 5016 | oviductal glycoprotein 1, 120kDa |
| GO | transport vesicle | 6 | 39 | 0.0474143 | 5122 | proprotein convertase subtilisin/kexin type 1 |
| GO | transport vesicle | 6 | 39 | 0.0474143 | 5284 | polymeric immunoglobulin receptor |
| GO | transport vesicle | 6 | 39 | 0.0474143 | 6494 | signal-induced proliferation-associated 1 |
| GO | transport vesicle | 6 | 39 | 0.0474143 | 80763 | chromosome 12 open reading frame 39 |
| GO | transport vesicle | 6 | 39 | 0.0474143 | 8082 | sarcospan (Kras oncogene-associated gene) |
| GO | calcium ion transport | 13 | 114 | 0.0474416 | 1139 | cholinergic receptor, nicotinic, alpha 7 |
| GO | calcium ion transport | 13 | 114 | 0.0474416 | 3709 | inositol 1,4,5-triphosphate receptor, type 2 |
| GO | calcium ion transport | 13 | 114 | 0.0474416 | 493 | ATPase, Ca++ transporting, plasma membrane 4 |
| GO | calcium ion transport | 13 | 114 | 0.0474416 | 53373 | two pore segment channel 1 |
| GO | calcium ion transport | 13 | 114 | 0.0474416 | 55799 | calcium channel, voltage-dependent, alpha 2/delta subunit 3 |
| GO | calcium ion transport | 13 | 114 | 0.0474416 | 56923 | neuromedin U receptor 2 |
| GO | calcium ion transport | 13 | 114 | 0.0474416 | 7223 | transient receptor potential cation channel, subfamily C, member 4 |
| GO | calcium ion transport | 13 | 114 | 0.0474416 | 774 | calcium channel, voltage-dependent, N type, alpha 1B subunit |
| GO | calcium ion transport | 13 | 114 | 0.0474416 | 783 | calcium channel, voltage-dependent, beta 2 subunit |
| GO | calcium ion transport | 13 | 114 | 0.0474416 | 8911 | calcium channel, voltage-dependent, T type, alpha 1I subunit |
| GO | calcium ion transport | 13 | 114 | 0.0474416 | 8912 | calcium channel, voltage-dependent, T type, alpha 1H subunit |
| GO | calcium ion transport | 13 | 114 | 0.0474416 | 93589 | calcium channel, voltage-dependent, alpha 2/delta subunit 4 |
| GO | calcium ion transport | 13 | 114 | 0.0474416 | 9914 | ATPase, Ca++ transporting, type 2C, member 2 |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 10076 | protein tyrosine phosphatase, receptor type, U |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 10268 | receptor (G protein-coupled) activity modifying protein 3 |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 10288 | leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITI |

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|---|---|---|---|---|---|---|
| GO | receptor activity | 93 | 1148 | 0.0476856 | 10507 | sema domain, immunoglobulin domain (Ig), transmembrane domain (T |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 10913 | ectodysplasin A receptor |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 115330 | G protein-coupled receptor 146 |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 118429 | anthrax toxin receptor 2 |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 121130 | olfactory receptor, family 10, subfamily P, member 1 |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 130399 | activin A receptor, type IC |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 143503 | olfactory receptor, family 51, subfamily E, member 1 |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 154 | adrenergic, beta-2-, receptor, surface |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 1803 | dipeptidyl-peptidase 4 |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 1813 | dopamine receptor D2 |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 1815 | dopamine receptor D4 |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 1839 | heparin-binding EGF-like growth factor |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 1901 | sphingosine-1-phosphate receptor 1 |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 1902 | lysophosphatidic acid receptor 1 |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 1969 | EPH receptor A2 |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 2044 | EPH receptor A5 |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 2066 | v-erb-a erythroblastic leukemia viral oncogene homolog 4 (avian) |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 2205 | Fc fragment of IgE, high affinity I, receptor for; alpha polypeptide |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 222545 | G protein-coupled receptor, family C, group 6, member A |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 223117 | sema domain, immunoglobulin domain (Ig), short basic domain, secret |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 2263 | fibroblast growth factor receptor 2 |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 22925 | phospholipase A2 receptor 1, 180kDa |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 23654 | plexin B2 |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 27202 | G protein-coupled receptor 77 |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 27242 | tumor necrosis factor receptor superfamily, member 21 |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 2861 | G protein-coupled receptor 37 (endothelin receptor type B-like) |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 286133 | scavenger receptor class A, member 5 (putative) |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 2865 | free fatty acid receptor 3 |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 2867 | free fatty acid receptor 2 |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 28982 | feline leukemia virus subgroup C cellular receptor 1 |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 2911 | glutamate receptor, metabotropic 1 |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 29126 | CD274 molecule |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 3355 | 5-hydroxytryptamine (serotonin) receptor 1F |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 338557 | G protein-coupled receptor 120 |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 353345 | G protein-coupled receptor 141 |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 3561 | interleukin 2 receptor, gamma (severe combined immunodeficiency) |

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| GO | receptor activity | 93 | 1148 | 0.0476856 | 3570 | interleukin 6 receptor |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 3587 | interleukin 10 receptor, alpha |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 3601 | interleukin 15 receptor, alpha |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 3604 | tumor necrosis factor receptor superfamily, member 9 |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 3643 | insulin receptor |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 3678 | integrin, alpha 5 (fibronectin receptor, alpha polypeptide) |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 3687 | integrin, alpha X (complement component 3 receptor 4 subunit) |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 3689 | integrin, beta 2 (complement component 3 receptor 3 and 4 subunit) |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 3691 | integrin, beta 4 |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 3696 | integrin, beta 8 |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 3815 | v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 387509 | G protein-coupled receptor 153 |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 388633 | low density lipoprotein receptor class A domain containing 1 |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 3911 | laminin, alpha 5 |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 392392 | olfactory receptor, family 1, subfamily K, member 1 |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 4038 | low density lipoprotein receptor-related protein 4 |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 4065 | lymphocyte antigen 75 |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 4163 | mutated in colorectal cancers |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 4179 | CD46 molecule, complement regulatory protein |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 4306 | nuclear receptor subfamily 3, group C, member 2 |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 4486 | macrophage stimulating 1 receptor (c-met-related tyrosine kinase) |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 4851 | Notch homolog 1, translocation-associated (Drosophila) |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 4853 | Notch homolog 2 (Drosophila) |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 4886 | neuropeptide Y receptor Y1 |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 4889 | neuropeptide Y receptor Y5 |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 5025 | purinergic receptor P2X, ligand-gated ion channel, 4 |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 5362 | plexin A2 |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 54852 | progestin and adipoQ receptor family member V |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 56923 | neuromedin U receptor 2 |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 5724 | platelet-activating factor receptor |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 5732 | prostaglandin E receptor 2 (subtype EP2), 53kDa |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 5734 | prostaglandin E receptor 4 (subtype EP4) |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 5737 | prostaglandin F receptor (FP) |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 57512 | G protein-coupled receptor 158 |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 5789 | protein tyrosine phosphatase, receptor type, D |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 5799 | protein tyrosine phosphatase, receptor type, N polypeptide 2 |

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| GO | receptor activity | 93 | 1148 | 0.0476856 | 5801 | protein tyrosine phosphatase, receptor type, R |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 6238 | ribosome binding protein 1 homolog 180kDa (dog) |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 6751 | somatostatin receptor 1 |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 7097 | toll-like receptor 2 |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 7098 | toll-like receptor 3 |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 7099 | toll-like receptor 4 |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 7133 | tumor necrosis factor receptor superfamily, member 1B |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 7869 | sema domain, immunoglobulin domain (Ig), short basic domain, secret |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 79098 | chromosome 1 open reading frame 116 |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 79957 | progestin and adipoQ receptor family member VI |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 81285 | olfactory receptor, family 51, subfamily E, member 2 |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 81470 | olfactory receptor, family 2, subfamily G, member 2 |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 83661 | membrane-spanning 4-domains, subfamily A, member 8B |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 8600 | tumor necrosis factor (ligand) superfamily, member 11 |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 8973 | cholinergic receptor, nicotinic, alpha 6 |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 91 | activin A receptor, type IB |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 94 | activin A receptor type II-like 1 |
| GO | receptor activity | 93 | 1148 | 0.0476856 | 952 | CD38 molecule |
| GO | elevation of cytosolic calcium ion con | 11 | 92 | 0.0488474 | 1604 | CD55 molecule, decay accelerating factor for complement (Cromer blo |
| GO | elevation of cytosolic calcium ion con | 11 | 92 | 0.0488474 | 1902 | lysophosphatidic acid receptor 1 |
| GO | elevation of cytosolic calcium ion con | 11 | 92 | 0.0488474 | 1906 | endothelin 1 |
| GO | elevation of cytosolic calcium ion con | 11 | 92 | 0.0488474 | 2769 | guanine nucleotide binding protein (G protein), alpha 15 (Gq class) |
| GO | elevation of cytosolic calcium ion con | 11 | 92 | 0.0488474 | 3827 | kininogen 1 |
| GO | elevation of cytosolic calcium ion con | 11 | 92 | 0.0488474 | 5367 | pro-melanin-concentrating hormone |
| GO | elevation of cytosolic calcium ion con | 11 | 92 | 0.0488474 | 56477 | chemokine (C-C motif) ligand 28 |
| GO | elevation of cytosolic calcium ion con | 11 | 92 | 0.0488474 | 56923 | neuromedin U receptor 2 |
| GO | elevation of cytosolic calcium ion con | 11 | 92 | 0.0488474 | 7852 | chemokine (C-X-C motif) receptor 4 |
| GO | elevation of cytosolic calcium ion con | 11 | 92 | 0.0488474 | 799 | calcitonin receptor |
| GO | elevation of cytosolic calcium ion con | 11 | 92 | 0.0488474 | 952 | CD38 molecule |
| GO | brain development | 13 | 115 | 0.0502916 | 1152 | creatine kinase, brain |
| GO | brain development | 13 | 115 | 0.0502916 | 127343 | diencephalon/mesencephalon homeobox 1 |
| GO | brain development | 13 | 115 | 0.0502916 | 1959 | early growth response 2 |
| GO | brain development | 13 | 115 | 0.0502916 | 22859 | latrophilin 1 |
| GO | brain development | 13 | 115 | 0.0502916 | 2290 | forkhead box G1 |
| GO | brain development | 13 | 115 | 0.0502916 | 2296 | forkhead box C1 |
| GO | brain development | 13 | 115 | 0.0502916 | 3400 | inhibitor of DNA binding 4, dominant negative helix-loop-helix protein |

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| GO | brain development | 13 | 115 | 0.0502916 | 5463 | POU class 6 homeobox 1 |
| GO | brain development | 13 | 115 | 0.0502916 | 57453 | Down syndrome cell adhesion molecule like 1 |
| GO | brain development | 13 | 115 | 0.0502916 | 6096 | RAR-related orphan receptor B |
| GO | brain development | 13 | 115 | 0.0502916 | 7170 | tropomyosin 3 |
| GO | brain development | 13 | 115 | 0.0502916 | 7546 | Zic family member 2 (odd-paired homolog, Drosophila) |
| GO | brain development | 13 | 115 | 0.0502916 | 8660 | insulin receptor substrate 2 |
| GO | negative regulation of gene-specific t | 8 | 60 | 0.0505689 | 10014 | histone deacetylase 5 |
| GO | negative regulation of gene-specific t | 8 | 60 | 0.0505689 | 4784 | nuclear factor I/X (CCAAT-binding transcription factor) |
| GO | negative regulation of gene-specific t | 8 | 60 | 0.0505689 | 5187 | period homolog 1 (Drosophila) |
| GO | negative regulation of gene-specific t | 8 | 60 | 0.0505689 | 5465 | peroxisome proliferator-activated receptor alpha |
| GO | negative regulation of gene-specific t | 8 | 60 | 0.0505689 | 6256 | retinoid X receptor, alpha |
| GO | negative regulation of gene-specific t | 8 | 60 | 0.0505689 | 652 | bone morphogenetic protein 4 |
| GO | negative regulation of gene-specific t | 8 | 60 | 0.0505689 | 8864 | period homolog 2 (Drosophila) |
| GO | negative regulation of gene-specific t | 8 | 60 | 0.0505689 | 9734 | histone deacetylase 9 |
| GO | adult locomotory behavior | 5 | 30 | 0.0506306 | 127343 | diencephalon/mesencephalon homeobox 1 |
| GO | adult locomotory behavior | 5 | 30 | 0.0506306 | 1815 | dopamine receptor D4 |
| GO | adult locomotory behavior | 5 | 30 | 0.0506306 | 4929 | nuclear receptor subfamily 4, group A, member 2 |
| GO | adult locomotory behavior | 5 | 30 | 0.0506306 | 5071 | Parkinson disease (autosomal recessive, juvenile) 2, parkin |
| GO | adult locomotory behavior | 5 | 30 | 0.0506306 | 6622 | synuclein, alpha (non A4 component of amyloid precursor) |
| GO | dorsal/ventral pattern formation | 5 | 30 | 0.0506306 | 1906 | endothelin 1 |
| GO | dorsal/ventral pattern formation | 5 | 30 | 0.0506306 | 2290 | forkhead box G1 |
| GO | dorsal/ventral pattern formation | 5 | 30 | 0.0506306 | 57453 | Down syndrome cell adhesion molecule like 1 |
| GO | dorsal/ventral pattern formation | 5 | 30 | 0.0506306 | 84976 | dispatched homolog 1 (Drosophila) |
| GO | dorsal/ventral pattern formation | 5 | 30 | 0.0506306 | 8646 | chordin |
| GO | positive regulation of inflammatory r | 4 | 21 | 0.0511354 | 183 | angiotensinogen (serpin peptidase inhibitor, clade A, member 8) |
| GO | positive regulation of inflammatory r | 4 | 21 | 0.0511354 | 7097 | toll-like receptor 2 |
| GO | positive regulation of inflammatory r | 4 | 21 | 0.0511354 | 7098 | toll-like receptor 3 |
| GO | positive regulation of inflammatory r | 4 | 21 | 0.0511354 | 7099 | toll-like receptor 4 |
| GO | ventricular cardiac muscle tissue mor | 4 | 21 | 0.0511354 | 2296 | forkhead box C1 |
| GO | ventricular cardiac muscle tissue mor | 4 | 21 | 0.0511354 | 2303 | forkhead box C2 (MFH-1, mesenchyme forkhead 1) |
| GO | ventricular cardiac muscle tissue mor | 4 | 21 | 0.0511354 | 6256 | retinoid X receptor, alpha |
| GO | ventricular cardiac muscle tissue mor | 4 | 21 | 0.0511354 | 7049 | transforming growth factor, beta receptor III |
| GO | negative regulation of gene-specific t | 4 | 21 | 0.0511354 | 429 | achaete-scute complex homolog 1 (Drosophila) |
| GO | negative regulation of gene-specific t | 4 | 21 | 0.0511354 | 4851 | Notch homolog 1, translocation-associated (Drosophila) |
| GO | negative regulation of gene-specific t | 4 | 21 | 0.0511354 | 652 | bone morphogenetic protein 4 |
| GO | negative regulation of gene-specific t | 4 | 21 | 0.0511354 | 7026 | nuclear receptor subfamily 2, group F, member 2 |

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| GO | proteolysis | 38 | 423 | 0.0513137 | 10942 | protease, serine, 21 (testisin) |
| GO | proteolysis | 38 | 423 | 0.0513137 | 11202 | kallikrein-related peptidase 8 |
| GO | proteolysis | 38 | 423 | 0.0513137 | 1363 | carboxypeptidase E |
| GO | proteolysis | 38 | 423 | 0.0513137 | 1368 | carboxypeptidase M |
| GO | proteolysis | 38 | 423 | 0.0513137 | 1508 | cathepsin B |
| GO | proteolysis | 38 | 423 | 0.0513137 | 1519 | cathepsin O |
| GO | proteolysis | 38 | 423 | 0.0513137 | 170692 | ADAM metallopeptidase with thrombospondin type 1 motif, 18 |
| GO | proteolysis | 38 | 423 | 0.0513137 | 1803 | dipeptidyl-peptidase 4 |
| GO | proteolysis | 38 | 423 | 0.0513137 | 255738 | proprotein convertase subtilisin/kexin type 9 |
| GO | proteolysis | 38 | 423 | 0.0513137 | 25825 | beta-site APP-cleaving enzyme 2 |
| GO | proteolysis | 38 | 423 | 0.0513137 | 26232 | F-box protein 2 |
| GO | proteolysis | 38 | 423 | 0.0513137 | 26270 | F-box protein 6 |
| GO | proteolysis | 38 | 423 | 0.0513137 | 29108 | PYD and CARD domain containing |
| GO | proteolysis | 38 | 423 | 0.0513137 | 388743 | calpain 8 |
| GO | proteolysis | 38 | 423 | 0.0513137 | 4316 | matrix metallopeptidase 7 (matrilysin, uterine) |
| GO | proteolysis | 38 | 423 | 0.0513137 | 5046 | proprotein convertase subtilisin/kexin type 6 |
| GO | proteolysis | 38 | 423 | 0.0513137 | 5122 | proprotein convertase subtilisin/kexin type 1 |
| GO | proteolysis | 38 | 423 | 0.0513137 | 51279 | complement component 1, r subcomponent-like |
| GO | proteolysis | 38 | 423 | 0.0513137 | 5327 | plasminogen activator, tissue |
| GO | proteolysis | 38 | 423 | 0.0513137 | 54504 | carboxypeptidase, vitellogenic-like |
| GO | proteolysis | 38 | 423 | 0.0513137 | 5648 | mannan-binding lectin serine peptidase 1 (C4/C2 activating componen |
| GO | proteolysis | 38 | 423 | 0.0513137 | 56547 | matrix metallopeptidase 26 |
| GO | proteolysis | 38 | 423 | 0.0513137 | 5655 | kallikrein-related peptidase 10 |
| GO | proteolysis | 38 | 423 | 0.0513137 | 56649 | transmembrane protease, serine 4 |
| GO | proteolysis | 38 | 423 | 0.0513137 | 57094 | carboxypeptidase A6 |
| GO | proteolysis | 38 | 423 | 0.0513137 | 5972 | renin |
| GO | proteolysis | 38 | 423 | 0.0513137 | 629 | complement factor B |
| GO | proteolysis | 38 | 423 | 0.0513137 | 64699 | transmembrane protease, serine 3 |
| GO | proteolysis | 38 | 423 | 0.0513137 | 7092 | tolloid-like 1 |
| GO | proteolysis | 38 | 423 | 0.0513137 | 715 | complement component 1, r subcomponent |
| GO | proteolysis | 38 | 423 | 0.0513137 | 717 | complement component 2 |
| GO | proteolysis | 38 | 423 | 0.0513137 | 726 | calpain 5 |
| GO | proteolysis | 38 | 423 | 0.0513137 | 79956 | endoplasmic reticulum metallopeptidase 1 |
| GO | proteolysis | 38 | 423 | 0.0513137 | 834 | caspase 1, apoptosis-related cysteine peptidase (interleukin 1, beta, co |
| GO | proteolysis | 38 | 423 | 0.0513137 | 837 | caspase 4, apoptosis-related cysteine peptidase |
| GO | proteolysis | 38 | 423 | 0.0513137 | 8722 | cathepsin F |

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| GO | proteolysis | 38 | 423 | 0.0513137 | 8751 | ADAM metallopeptidase domain 15 |
| GO | proteolysis | 38 | 423 | 0.0513137 | 9510 | ADAM metallopeptidase with thrombospondin type 1 motif, 1 |
| GO | response to hydrogen peroxide | 6 | 40 | 0.0526898 | 10628 | thioredoxin interacting protein |
| GO | response to hydrogen peroxide | 6 | 40 | 0.0526898 | 1843 | dual specificity phosphatase 1 |
| GO | response to hydrogen peroxide | 6 | 40 | 0.0526898 | 2066 | v-erb-a erythroblastic leukemia viral oncogene homolog 4 (avian) |
| GO | response to hydrogen peroxide | 6 | 40 | 0.0526898 | 3725 | jun oncogene |
| GO | response to hydrogen peroxide | 6 | 40 | 0.0526898 | 4151 | myoglobin |
| GO | response to hydrogen peroxide | 6 | 40 | 0.0526898 | 84919 | protein phosphatase 1, regulatory (inhibitor) subunit 15B |
| GO | negative regulation of smooth muscl | 3 | 13 | 0.0543804 | 10221 | tribbles homolog 1 (Drosophila) |
| GO | negative regulation of smooth muscl | 3 | 13 | 0.0543804 | 3486 | insulin-like growth factor binding protein 3 |
| GO | negative regulation of smooth muscl | 3 | 13 | 0.0543804 | 3488 | insulin-like growth factor binding protein 5 |
| GO | hormone metabolic process | 3 | 13 | 0.0543804 | 183 | angiotensinogen (serpin peptidase inhibitor, clade A, member 8) |
| GO | hormone metabolic process | 3 | 13 | 0.0543804 | 3169 | forkhead box A1 |
| GO | hormone metabolic process | 3 | 13 | 0.0543804 | 54361 | wingless-type MMTV integration site family, member 4 |
| GO | MAP kinase tyrosine/serine/threonin | 3 | 13 | 0.0543804 | 1843 | dual specificity phosphatase 1 |
| GO | MAP kinase tyrosine/serine/threonin | 3 | 13 | 0.0543804 | 1844 | dual specificity phosphatase 2 |
| GO | MAP kinase tyrosine/serine/threonin | 3 | 13 | 0.0543804 | 1847 | dual specificity phosphatase 5 |
| GO | regulation of inflammatory response | 3 | 13 | 0.0543804 | 22904 | strawberry notch homolog 2 (Drosophila) |
| GO | regulation of inflammatory response | 3 | 13 | 0.0543804 | 50604 | interleukin 20 |
| GO | regulation of inflammatory response | 3 | 13 | 0.0543804 | 604 | B-cell CLL/lymphoma 6 |
| GO | negative regulation of Wnt receptor | 3 | 13 | 0.0543804 | 2737 | GLI family zinc finger 3 |
| GO | negative regulation of Wnt receptor | 3 | 13 | 0.0543804 | 4163 | mutated in colorectal cancers |
| GO | negative regulation of Wnt receptor | 3 | 13 | 0.0543804 | 7474 | wingless-type MMTV integration site family, member 5A |
| GO | embryonic cranial skeleton morphog | 3 | 13 | 0.0543804 | 4087 | SMAD family member 2 |
| GO | embryonic cranial skeleton morphog | 3 | 13 | 0.0543804 | 5396 | paired related homeobox 1 |
| GO | embryonic cranial skeleton morphog | 3 | 13 | 0.0543804 | 652 | bone morphogenetic protein 4 |
| GO | inorganic anion exchanger activity | 3 | 13 | 0.0543804 | 55867 | solute carrier family 22 (organic anion/urate transporter), member 11 |
| GO | inorganic anion exchanger activity | 3 | 13 | 0.0543804 | 6521 | solute carrier family 4, anion exchanger, member 1 (erythrocyte memb |
| GO | inorganic anion exchanger activity | 3 | 13 | 0.0543804 | 8671 | solute carrier family 4, sodium bicarbonate cotransporter, member 4 |
| GO | activation of NF-kappaB-inducing kin | 3 | 13 | 0.0543804 | 7098 | toll-like receptor 3 |
| GO | activation of NF-kappaB-inducing kin | 3 | 13 | 0.0543804 | 79092 | caspase recruitment domain family, member 14 |
| GO | activation of NF-kappaB-inducing kin | 3 | 13 | 0.0543804 | 9966 | tumor necrosis factor (ligand) superfamily, member 15 |
| GO | intracellular protein kinase cascade | 11 | 94 | 0.0555645 | 150094 | salt-inducible kinase 1 |
| GO | intracellular protein kinase cascade | 11 | 94 | 0.0555645 | 1612 | death-associated protein kinase 1 |
| GO | intracellular protein kinase cascade | 11 | 94 | 0.0555645 | 1813 | dopamine receptor D2 |
| GO | intracellular protein kinase cascade | 11 | 94 | 0.0555645 | 1906 | endothelin 1 |

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| GO | intracellular protein kinase cascade | 11 | 94 | 0.0555645 | 23043 | TRAF2 and NCK interacting kinase |
| GO | intracellular protein kinase cascade | 11 | 94 | 0.0555645 | 23604 | death-associated protein kinase 2 |
| GO | intracellular protein kinase cascade | 11 | 94 | 0.0555645 | 3815 | v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog |
| GO | intracellular protein kinase cascade | 11 | 94 | 0.0555645 | 51085 | MLX interacting protein-like |
| GO | intracellular protein kinase cascade | 11 | 94 | 0.0555645 | 7049 | transforming growth factor, beta receptor III |
| GO | intracellular protein kinase cascade | 11 | 94 | 0.0555645 | 7538 | zinc finger protein 36, C3H type, homolog (mouse) |
| GO | intracellular protein kinase cascade | 11 | 94 | 0.0555645 | 9263 | serine/threonine kinase 17a |
| GO | embryonic development | 9 | 72 | 0.0559856 | 1999 | E74-like factor 3 (ets domain transcription factor, epithelial-specific ) |
| GO | embryonic development | 9 | 72 | 0.0559856 | 3911 | laminin, alpha 5 |
| GO | embryonic development | 9 | 72 | 0.0559856 | 4851 | Notch homolog 1, translocation-associated (Drosophila) |
| GO | embryonic development | 9 | 72 | 0.0559856 | 498 | ATP synthase, H+ transporting, mitochondrial F1 complex, alpha subun |
| GO | embryonic development | 9 | 72 | 0.0559856 | 5122 | proprotein convertase subtilisin/kexin type 1 |
| GO | embryonic development | 9 | 72 | 0.0559856 | 5950 | retinol binding protein 4, plasma |
| GO | embryonic development | 9 | 72 | 0.0559856 | 7474 | wingless-type MMTV integration site family, member 5A |
| GO | embryonic development | 9 | 72 | 0.0559856 | 8796 | sciellin |
| GO | embryonic development | 9 | 72 | 0.0559856 | 91 | activin A receptor, type IB |
| GO | positive regulation of MAPKKK cascac | 5 | 31 | 0.0571075 | 154 | adrenergic, beta-2-, receptor, surface |
| GO | positive regulation of MAPKKK cascac | 5 | 31 | 0.0571075 | 183 | angiotensinogen (serpin peptidase inhibitor, clade A, member 8) |
| GO | positive regulation of MAPKKK cascac | 5 | 31 | 0.0571075 | 3569 | interleukin 6 (interferon, beta 2) |
| GO | positive regulation of MAPKKK cascac | 5 | 31 | 0.0571075 | 3570 | interleukin 6 receptor |
| GO | positive regulation of MAPKKK cascac | 5 | 31 | 0.0571075 | 3643 | insulin receptor |
| GO | heart morphogenesis | 5 | 31 | 0.0571075 | 2296 | forkhead box C1 |
| GO | heart morphogenesis | 5 | 31 | 0.0571075 | 2303 | forkhead box C2 (MFH-1, mesenchyme forkhead 1) |
| GO | heart morphogenesis | 5 | 31 | 0.0571075 | 3643 | insulin receptor |
| GO | heart morphogenesis | 5 | 31 | 0.0571075 | 6604 | SWI/SNF related, matrix associated, actin dependent regulator of chroı |
| GO | heart morphogenesis | 5 | 31 | 0.0571075 | 7049 | transforming growth factor, beta receptor III |
| GO | negative regulation of Ras protein sig | 2 | 6 | 0.0582206 | 10252 | sprouty homolog 1, antagonist of FGF signaling (Drosophila) |
| GO | negative regulation of Ras protein sig | 2 | 6 | 0.0582206 | 10253 | sprouty homolog 2 (Drosophila) |
| GO | prostate epithelial cord arborization i | 2 | 6 | 0.0582206 | 10481 | homeobox B13 |
| GO | prostate epithelial cord arborization i | 2 | 6 | 0.0582206 | 3479 | insulin-like growth factor 1 (somatomedin C) |
| GO | negative regulation of interleukin-12 | 2 | 6 | 0.0582206 | 11213 | interleukin-1 receptor-associated kinase 3 |
| GO | negative regulation of interleukin-12 | 2 | 6 | 0.0582206 | 64127 | nucleotide-binding oligomerization domain containing 2 |
| GO | response to amine stimulus | 2 | 6 | 0.0582206 | 1373 | carbamoyl-phosphate synthetase 1, mitochondrial |
| GO | response to amine stimulus | 2 | 6 | 0.0582206 | 1508 | cathepsin B |
| GO | negative regulation of protein secreti | 2 | 6 | 0.0582206 | 1813 | dopamine receptor D2 |
| GO | negative regulation of protein secreti | 2 | 6 | 0.0582206 | 1815 | dopamine receptor D4 |

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| GO | peristalsis | 2 | 6 | 0.0582206 | 1813 | dopamine receptor D2 |
| GO | peristalsis | 2 | 6 | 0.0582206 | 183 | angiotensinogen (serpin peptidase inhibitor, clade A, member 8) |
| GO | regulation of synaptic transmission, | 2 | 6 | 0.0582206 | 1813 | dopamine receptor D2 |
| GO | regulation of synaptic transmission, | 2 | 6 | 0.0582206 | 3845 | v-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog |
| GO | regulation of dopamine metabolic pr | 2 | 6 | 0.0582206 | 1815 | dopamine receptor D4 |
| GO | regulation of dopamine metabolic pr | 2 | 6 | 0.0582206 | 4929 | nuclear receptor subfamily 4, group A, member 2 |
| GO | positive regulation of fatty acid biosy | 2 | 6 | 0.0582206 | 183 | angiotensinogen (serpin peptidase inhibitor, clade A, member 8) |
| GO | positive regulation of fatty acid biosy | 2 | 6 | 0.0582206 | 51085 | MLX interacting protein-like |
| GO | inositol phosphate-mediated signalin | 2 | 6 | 0.0582206 | 1906 | endothelin 1 |
| GO | inositol phosphate-mediated signalin | 2 | 6 | 0.0582206 | 56923 | neuromedin U receptor 2 |
| GO | mitochondrial membrane organizati | 2 | 6 | 0.0582206 | 2055 | ceroid-lipofuscinosis, neuronal 8 (epilepsy, progressive with mental ret |
| GO | mitochondrial membrane organizati | 2 | 6 | 0.0582206 | 6622 | synuclein, alpha (non A4 component of amyloid precursor) |
| GO | positive regulation of mast cell degra | 2 | 6 | 0.0582206 | 2205 | Fc fragment of IgE, high affinity I, receptor for; alpha polypeptide |
| GO | positive regulation of mast cell degra | 2 | 6 | 0.0582206 | 6850 | spleen tyrosine kinase |
| GO | leukotriene metabolic process | 2 | 6 | 0.0582206 | 240 | arachidonate 5-lipoxygenase |
| GO | leukotriene metabolic process | 2 | 6 | 0.0582206 | 4056 | leukotriene C4 synthase |
| GO | lipoxygenase activity | 2 | 6 | 0.0582206 | 240 | arachidonate 5-lipoxygenase |
| GO | lipoxygenase activity | 2 | 6 | 0.0582206 | 59344 | arachidonate lipoxygenase 3 |
| GO | glycosaminoglycan catabolic process | 2 | 6 | 0.0582206 | 2517 | fucosidase, alpha-L- 1, tissue |
| GO | glycosaminoglycan catabolic process | 2 | 6 | 0.0582206 | 2990 | glucuronidase, beta |
| GO | heparan sulfate proteoglycan biosynt | 2 | 6 | 0.0582206 | 26035 | glucuronic acid epimerase |
| GO | heparan sulfate proteoglycan biosynt | 2 | 6 | 0.0582206 | 8509 | N-deacetylase/N-sulfotransferase (heparan glucosaminyl) 2 |
| GO | neuron fate specification | 2 | 6 | 0.0582206 | 3169 | forkhead box A1 |
| GO | neuron fate specification | 2 | 6 | 0.0582206 | 429 | achaete-scute complex homolog 1 (Drosophila) |
| GO | exocrine pancreas development | 2 | 6 | 0.0582206 | 3479 | insulin-like growth factor 1 (somatomedin C) |
| GO | exocrine pancreas development | 2 | 6 | 0.0582206 | 3643 | insulin receptor |
| GO | positive regulation of myoblast differ | 2 | 6 | 0.0582206 | 3486 | insulin-like growth factor binding protein 3 |
| GO | positive regulation of myoblast differ | 2 | 6 | 0.0582206 | 91653 | Boc homolog (mouse) |
| GO | interleukin-6 receptor binding | 2 | 6 | 0.0582206 | 3569 | interleukin 6 (interferon, beta 2) |
| GO | interleukin-6 receptor binding | 2 | 6 | 0.0582206 | 3570 | interleukin 6 receptor |
| GO | positive regulation of acute inflamm | 2 | 6 | 0.0582206 | 3569 | interleukin 6 (interferon, beta 2) |
| GO | positive regulation of acute inflamm | 2 | 6 | 0.0582206 | 4889 | neuropeptide Y receptor Y5 |
| GO | water transmembrane transporter a | 2 | 6 | 0.0582206 | 358 | aquaporin 1 (Colton blood group) |
| GO | water transmembrane transporter a | 2 | 6 | 0.0582206 | 6563 | solute carrier family 14 (urea transporter), member 1 (Kidd blood grou |
| GO | SMAD protein nuclear translocation | 2 | 6 | 0.0582206 | 3725 | jun oncogene |
| GO | SMAD protein nuclear translocation | 2 | 6 | 0.0582206 | 5371 | promyelocytic leukemia |

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|---|---|---|---|---|---|---|
| GO | somatic stem cell division | 2 | 6 | 0.0582206 | 3815 | v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog |
| GO | somatic stem cell division | 2 | 6 | 0.0582206 | 4851 | Notch homolog 1, translocation-associated (Drosophila) |
| GO | negative regulation of erythrocyte di | 2 | 6 | 0.0582206 | 4005 | LIM domain only 2 (rhombotin-like 1) |
| GO | negative regulation of erythrocyte di | 2 | 6 | 0.0582206 | 9935 | v-maf musculoaponeurotic fibrosarcoma oncogene homolog B (avian) |
| GO | maintenance of gastrointestinal epit | 2 | 6 | 0.0582206 | 4588 | mucin 6, oligomeric mucus/gel-forming |
| GO | maintenance of gastrointestinal epit | 2 | 6 | 0.0582206 | 5950 | retinol binding protein 4, plasma |
| GO | dopamine biosynthetic process | 2 | 6 | 0.0582206 | 4929 | nuclear receptor subfamily 4, group A, member 2 |
| GO | dopamine biosynthetic process | 2 | 6 | 0.0582206 | 6622 | synuclein, alpha (non A4 component of amyloid precursor) |
| GO | negative regulation of cholesterol st | 2 | 6 | 0.0582206 | 5465 | peroxisome proliferator-activated receptor alpha |
| GO | negative regulation of cholesterol st | 2 | 6 | 0.0582206 | 9619 | ATP-binding cassette, sub-family G (WHITE), member 1 |
| GO | protein thiol-disulfide exchange | 2 | 6 | 0.0582206 | 56605 | ERO1-like beta (S. cerevisiae) |
| GO | protein thiol-disulfide exchange | 2 | 6 | 0.0582206 | 5768 | quiescin Q6 sulfhydryl oxidase 1 |
| GO | regulation of branching involved in p | 2 | 6 | 0.0582206 | 6256 | retinoid X receptor, alpha |
| GO | regulation of branching involved in p | 2 | 6 | 0.0582206 | 652 | bone morphogenetic protein 4 |
| GO | branching involved in embryonic plac | 2 | 6 | 0.0582206 | 6692 | serine peptidase inhibitor, Kunitz type 1 |
| GO | branching involved in embryonic plac | 2 | 6 | 0.0582206 | 9021 | suppressor of cytokine signaling 3 |
| GO | cobalt ion transport | 2 | 6 | 0.0582206 | 6947 | transcobalamin I (vitamin B12 binding protein, R binder family) |
| GO | cobalt ion transport | 2 | 6 | 0.0582206 | 6948 | transcobalamin II; macrocytic anemia |
| GO | Rho GTPase activator activity | 4 | 22 | 0.0592421 | 10435 | CDC42 effector protein (Rho GTPase binding) 2 |
| GO | Rho GTPase activator activity | 4 | 22 | 0.0592421 | 23092 | Rho GTPase activating protein 26 |
| GO | Rho GTPase activator activity | 4 | 22 | 0.0592421 | 3725 | jun oncogene |
| GO | Rho GTPase activator activity | 4 | 22 | 0.0592421 | 395 | Rho GTPase activating protein 6 |
| GO | gluconeogenesis | 4 | 22 | 0.0592421 | 10891 | peroxisome proliferator-activated receptor gamma, coactivator 1 alph |
| GO | gluconeogenesis | 4 | 22 | 0.0592421 | 2026 | enolase 2 (gamma, neuronal) |
| GO | gluconeogenesis | 4 | 22 | 0.0592421 | 467 | activating transcription factor 3 |
| GO | gluconeogenesis | 4 | 22 | 0.0592421 | 5950 | retinol binding protein 4, plasma |
| GO | negative regulation of NF-kappaB tra | 4 | 22 | 0.0592421 | 11213 | interleukin-1 receptor-associated kinase 3 |
| GO | negative regulation of NF-kappaB tra | 4 | 22 | 0.0592421 | 4792 | nuclear factor of kappa light polypeptide gene enhancer in B-cells inhi |
| GO | negative regulation of NF-kappaB tra | 4 | 22 | 0.0592421 | 64127 | nucleotide-binding oligomerization domain containing 2 |
| GO | negative regulation of NF-kappaB tra | 4 | 22 | 0.0592421 | 7001 | peroxiredoxin 2 |
| GO | cysteine-type endopeptidase inhibit | 4 | 22 | 0.0592421 | 1469 | cystatin SN |
| GO | cysteine-type endopeptidase inhibit | 4 | 22 | 0.0592421 | 1471 | cystatin C |
| GO | cysteine-type endopeptidase inhibit | 4 | 22 | 0.0592421 | 26998 | fetuin B |
| GO | cysteine-type endopeptidase inhibit | 4 | 22 | 0.0592421 | 3827 | kininogen 1 |
| GO | blood vessel remodeling | 4 | 22 | 0.0592421 | 183 | angiotensinogen (serpin peptidase inhibitor, clade A, member 8) |
| GO | blood vessel remodeling | 4 | 22 | 0.0592421 | 2296 | forkhead box C1 |

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|---|---|---|---|---|---|---|
| GO | blood vessel remodeling | 4 | 22 | 0.0592421 | 2303 | forkhead box C2 (MFH-1, mesenchyme forkhead 1) |
| GO | blood vessel remodeling | 4 | 22 | 0.0592421 | 3479 | insulin-like growth factor 1 (somatomedin C) |
| GO | activation of phospholipase C activity | 4 | 22 | 0.0592421 | 1902 | lysophosphatidic acid receptor 1 |
| GO | activation of phospholipase C activity | 4 | 22 | 0.0592421 | 2769 | guanine nucleotide binding protein (G protein), alpha 15 (Gq class) |
| GO | activation of phospholipase C activity | 4 | 22 | 0.0592421 | 395 | Rho GTPase activating protein 6 |
| GO | activation of phospholipase C activity | 4 | 22 | 0.0592421 | 799 | calcitonin receptor |
| GO | basal plasma membrane | 4 | 22 | 0.0592421 | 26119 | low density lipoprotein receptor adaptor protein 1 |
| GO | basal plasma membrane | 4 | 22 | 0.0592421 | 358 | aquaporin 1 (Colton blood group) |
| GO | basal plasma membrane | 4 | 22 | 0.0592421 | 3691 | integrin, beta 4 |
| GO | basal plasma membrane | 4 | 22 | 0.0592421 | 9962 | solute carrier family 23 (nucleobase transporters), member 2 |
| GO | voltage-gated calcium channel compl | 4 | 22 | 0.0592421 | 774 | calcium channel, voltage-dependent, N type, alpha 1B subunit |
| GO | voltage-gated calcium channel compl | 4 | 22 | 0.0592421 | 783 | calcium channel, voltage-dependent, beta 2 subunit |
| GO | voltage-gated calcium channel compl | 4 | 22 | 0.0592421 | 8911 | calcium channel, voltage-dependent, T type, alpha 1I subunit |
| GO | voltage-gated calcium channel compl | 4 | 22 | 0.0592421 | 8912 | calcium channel, voltage-dependent, T type, alpha 1H subunit |
| GO | positive regulation of cell migration | 8 | 62 | 0.0594006 | 1435 | colony stimulating factor 1 (macrophage) |
| GO | positive regulation of cell migration | 8 | 62 | 0.0594006 | 1906 | endothelin 1 |
| GO | positive regulation of cell migration | 8 | 62 | 0.0594006 | 2066 | v-erb-a erythroblastic leukemia viral oncogene homolog 4 (avian) |
| GO | positive regulation of cell migration | 8 | 62 | 0.0594006 | 3175 | one cut homeobox 1 |
| GO | positive regulation of cell migration | 8 | 62 | 0.0594006 | 3643 | insulin receptor |
| GO | positive regulation of cell migration | 8 | 62 | 0.0594006 | 3815 | v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog |
| GO | positive regulation of cell migration | 8 | 62 | 0.0594006 | 79872 | Cas-Br-M (murine) ecotropic retroviral transforming sequence-like 1 |
| GO | positive regulation of cell migration | 8 | 62 | 0.0594006 | 8660 | insulin receptor substrate 2 |
| GO | extracellular matrix organization | 8 | 62 | 0.0594006 | 183 | angiotensinogen (serpin peptidase inhibitor, clade A, member 8) |
| GO | extracellular matrix organization | 8 | 62 | 0.0594006 | 1999 | E74-like factor 3 (ets domain transcription factor, epithelial-specific ) |
| GO | extracellular matrix organization | 8 | 62 | 0.0594006 | 27035 | NADPH oxidase 1 |
| GO | extracellular matrix organization | 8 | 62 | 0.0594006 | 3491 | cysteine-rich, angiogenic inducer, 61 |
| GO | extracellular matrix organization | 8 | 62 | 0.0594006 | 3958 | lectin, galactoside-binding, soluble, 3 |
| GO | extracellular matrix organization | 8 | 62 | 0.0594006 | 4791 | nuclear factor of kappa light polypeptide gene enhancer in B-cells 2 (p |
| GO | extracellular matrix organization | 8 | 62 | 0.0594006 | 6692 | serine peptidase inhibitor, Kunitz type 1 |
| GO | extracellular matrix organization | 8 | 62 | 0.0594006 | 8434 | reversion-inducing-cysteine-rich protein with kazal motifs |
| GO | G-protein coupled receptor activity | 32 | 352 | 0.0607328 | 115330 | G protein-coupled receptor 146 |
| GO | G-protein coupled receptor activity | 32 | 352 | 0.0607328 | 154 | adrenergic, beta-2-, receptor, surface |
| GO | G-protein coupled receptor activity | 32 | 352 | 0.0607328 | 1813 | dopamine receptor D2 |
| GO | G-protein coupled receptor activity | 32 | 352 | 0.0607328 | 1815 | dopamine receptor D4 |
| GO | G-protein coupled receptor activity | 32 | 352 | 0.0607328 | 1901 | sphingosine-1-phosphate receptor 1 |
| GO | G-protein coupled receptor activity | 32 | 352 | 0.0607328 | 1902 | lysophosphatidic acid receptor 1 |

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|---|---|---|---|---|---|---|
| GO | G-protein coupled receptor activity | 32 | 352 | 0.0607328 | 2015 | egf-like module containing, mucin-like, hormone receptor-like 1 |
| GO | G-protein coupled receptor activity | 32 | 352 | 0.0607328 | 222545 | G protein-coupled receptor, family C, group 6, member A |
| GO | G-protein coupled receptor activity | 32 | 352 | 0.0607328 | 22859 | latrophilin 1 |
| GO | G-protein coupled receptor activity | 32 | 352 | 0.0607328 | 23266 | latrophilin 2 |
| GO | G-protein coupled receptor activity | 32 | 352 | 0.0607328 | 23284 | latrophilin 3 |
| GO | G-protein coupled receptor activity | 32 | 352 | 0.0607328 | 27202 | G protein-coupled receptor 77 |
| GO | G-protein coupled receptor activity | 32 | 352 | 0.0607328 | 283383 | G protein-coupled receptor 133 |
| GO | G-protein coupled receptor activity | 32 | 352 | 0.0607328 | 2861 | G protein-coupled receptor 37 (endothelin receptor type B-like) |
| GO | G-protein coupled receptor activity | 32 | 352 | 0.0607328 | 2865 | free fatty acid receptor 3 |
| GO | G-protein coupled receptor activity | 32 | 352 | 0.0607328 | 2867 | free fatty acid receptor 2 |
| GO | G-protein coupled receptor activity | 32 | 352 | 0.0607328 | 2911 | glutamate receptor, metabotropic 1 |
| GO | G-protein coupled receptor activity | 32 | 352 | 0.0607328 | 3355 | 5-hydroxytryptamine (serotonin) receptor 1F |
| GO | G-protein coupled receptor activity | 32 | 352 | 0.0607328 | 338557 | G protein-coupled receptor 120 |
| GO | G-protein coupled receptor activity | 32 | 352 | 0.0607328 | 353345 | G protein-coupled receptor 141 |
| GO | G-protein coupled receptor activity | 32 | 352 | 0.0607328 | 387509 | G protein-coupled receptor 153 |
| GO | G-protein coupled receptor activity | 32 | 352 | 0.0607328 | 4886 | neuropeptide Y receptor Y1 |
| GO | G-protein coupled receptor activity | 32 | 352 | 0.0607328 | 4889 | neuropeptide Y receptor Y5 |
| GO | G-protein coupled receptor activity | 32 | 352 | 0.0607328 | 56923 | neuromedin U receptor 2 |
| GO | G-protein coupled receptor activity | 32 | 352 | 0.0607328 | 5724 | platelet-activating factor receptor |
| GO | G-protein coupled receptor activity | 32 | 352 | 0.0607328 | 5732 | prostaglandin E receptor 2 (subtype EP2), 53kDa |
| GO | G-protein coupled receptor activity | 32 | 352 | 0.0607328 | 5734 | prostaglandin E receptor 4 (subtype EP4) |
| GO | G-protein coupled receptor activity | 32 | 352 | 0.0607328 | 5737 | prostaglandin F receptor (FP) |
| GO | G-protein coupled receptor activity | 32 | 352 | 0.0607328 | 57512 | G protein-coupled receptor 158 |
| GO | G-protein coupled receptor activity | 32 | 352 | 0.0607328 | 6751 | somatostatin receptor 1 |
| GO | G-protein coupled receptor activity | 32 | 352 | 0.0607328 | 7852 | chemokine (C-X-C motif) receptor 4 |
| GO | G-protein coupled receptor activity | 32 | 352 | 0.0607328 | 84059 | G protein-coupled receptor 98 |
| GO | anti-apoptosis | 18 | 178 | 0.061715 | 10507 | sema domain, immunoglobulin domain (Ig), transmembrane domain ( |
| GO | anti-apoptosis | 18 | 178 | 0.061715 | 1612 | death-associated protein kinase 1 |
| GO | anti-apoptosis | 18 | 178 | 0.061715 | 2296 | forkhead box C1 |
| GO | anti-apoptosis | 18 | 178 | 0.061715 | 2303 | forkhead box C2 (MFH-1, mesenchyme forkhead 1) |
| GO | anti-apoptosis | 18 | 178 | 0.061715 | 3479 | insulin-like growth factor 1 (somatomedin C) |
| GO | anti-apoptosis | 18 | 178 | 0.061715 | 4170 | myeloid cell leukemia sequence 1 (BCL2-related) |
| GO | anti-apoptosis | 18 | 178 | 0.061715 | 4792 | nuclear factor of kappa light polypeptide gene enhancer in B-cells inhi |
| GO | anti-apoptosis | 18 | 178 | 0.061715 | 4853 | Notch homolog 2 (Drosophila) |
| GO | anti-apoptosis | 18 | 178 | 0.061715 | 573 | BCL2-associated athanogene |
| GO | anti-apoptosis | 18 | 178 | 0.061715 | 627 | brain-derived neurotrophic factor |

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|---|---|---|---|---|---|---|
| GO | anti-apoptosis | 18 | 178 | 0.061715 | 6622 | synuclein, alpha (non A4 component of amyloid precursor) |
| GO | anti-apoptosis | 18 | 178 | 0.061715 | 7001 | peroxiredoxin 2 |
| GO | anti-apoptosis | 18 | 178 | 0.061715 | 79444 | baculoviral IAP repeat-containing 7 |
| GO | anti-apoptosis | 18 | 178 | 0.061715 | 8382 | non-metastatic cells 5, protein expressed in (nucleoside-diphosphate k |
| GO | anti-apoptosis | 18 | 178 | 0.061715 | 8793 | tumor necrosis factor receptor superfamily, member 10d, decoy with t |
| GO | anti-apoptosis | 18 | 178 | 0.061715 | 8996 | nucleolar protein 3 (apoptosis repressor with CARD domain) |
| GO | anti-apoptosis | 18 | 178 | 0.061715 | 9021 | suppressor of cytokine signaling 3 |
| GO | anti-apoptosis | 18 | 178 | 0.061715 | 9214 | Fas apoptotic inhibitory molecule 3 |
| GO | positive regulation of anti-apoptosis | 5 | 32 | 0.0640368 | 1843 | dual specificity phosphatase 1 |
| GO | positive regulation of anti-apoptosis | 5 | 32 | 0.0640368 | 2066 | v-erb-a erythroblastic leukemia viral oncogene homolog 4 (avian) |
| GO | positive regulation of anti-apoptosis | 5 | 32 | 0.0640368 | 3569 | interleukin 6 (interferon, beta 2) |
| GO | positive regulation of anti-apoptosis | 5 | 32 | 0.0640368 | 3570 | interleukin 6 receptor |
| GO | positive regulation of anti-apoptosis | 5 | 32 | 0.0640368 | 4889 | neuropeptide Y receptor Y5 |
| GO | spermatid development | 5 | 32 | 0.0640368 | 3306 | heat shock 70kDa protein 2 |
| GO | spermatid development | 5 | 32 | 0.0640368 | 3815 | v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog |
| GO | spermatid development | 5 | 32 | 0.0640368 | 8382 | non-metastatic cells 5, protein expressed in (nucleoside-diphosphate k |
| GO | spermatid development | 5 | 32 | 0.0640368 | 9271 | piwi-like 1 (Drosophila) |
| GO | spermatid development | 5 | 32 | 0.0640368 | 9985 | REC8 homolog (yeast) |
| GO | apical part of cell | 6 | 42 | 0.0642702 | 358 | aquaporin 1 (Colton blood group) |
| GO | apical part of cell | 6 | 42 | 0.0642702 | 5025 | purinergic receptor P2X, ligand-gated ion channel, 4 |
| GO | apical part of cell | 6 | 42 | 0.0642702 | 50617 | ATPase, H+ transporting, lysosomal V0 subunit a4 |
| GO | apical part of cell | 6 | 42 | 0.0642702 | 5327 | plasminogen activator, tissue |
| GO | apical part of cell | 6 | 42 | 0.0642702 | 760 | carbonic anhydrase II |
| GO | apical part of cell | 6 | 42 | 0.0642702 | 81693 | amnionless homolog (mouse) |
| GO | cytokine activity | 15 | 143 | 0.0644498 | 10447 | family with sequence similarity 3, member C |
| GO | cytokine activity | 15 | 143 | 0.0644498 | 1435 | colony stimulating factor 1 (macrophage) |
| GO | cytokine activity | 15 | 143 | 0.0644498 | 23529 | cardiotrophin-like cytokine factor 1 |
| GO | cytokine activity | 15 | 143 | 0.0644498 | 3569 | interleukin 6 (interferon, beta 2) |
| GO | cytokine activity | 15 | 143 | 0.0644498 | 4254 | KIT ligand |
| GO | cytokine activity | 15 | 143 | 0.0644498 | 50604 | interleukin 20 |
| GO | cytokine activity | 15 | 143 | 0.0644498 | 64388 | gremlin 2, cysteine knot superfamily, homolog (Xenopus laevis) |
| GO | cytokine activity | 15 | 143 | 0.0644498 | 652 | bone morphogenetic protein 4 |
| GO | cytokine activity | 15 | 143 | 0.0644498 | 8600 | tumor necrosis factor (ligand) superfamily, member 11 |
| GO | cytokine activity | 15 | 143 | 0.0644498 | 8740 | tumor necrosis factor (ligand) superfamily, member 14 |
| GO | cytokine activity | 15 | 143 | 0.0644498 | 8744 | tumor necrosis factor (ligand) superfamily, member 9 |
| GO | cytokine activity | 15 | 143 | 0.0644498 | 90865 | interleukin 33 |

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|---|---|---|---|---|---|---|
| GO | cytokine activity | 15 | 143 | 0.0644498 | 92304 | secretoglobin, family 3A, member 1 |
| GO | cytokine activity | 15 | 143 | 0.0644498 | 9518 | growth differentiation factor 15 |
| GO | cytokine activity | 15 | 143 | 0.0644498 | 9966 | tumor necrosis factor (ligand) superfamily, member 15 |
| GO | transcription repressor binding | 3 | 14 | 0.0658037 | 10014 | histone deacetylase 5 |
| GO | transcription repressor binding | 3 | 14 | 0.0658037 | 2737 | GLI family zinc finger 3 |
| GO | transcription repressor binding | 3 | 14 | 0.0658037 | 9734 | histone deacetylase 9 |
| GO | response to starvation | 3 | 14 | 0.0658037 | 10891 | peroxisome proliferator-activated receptor gamma, coactivator 1 alpha |
| GO | response to starvation | 3 | 14 | 0.0658037 | 1373 | carbamoyl-phosphate synthetase 1, mitochondrial |
| GO | response to starvation | 3 | 14 | 0.0658037 | 35 | acyl-Coenzyme A dehydrogenase, C-2 to C-3 short chain |
| GO | regulation of sensory perception of p | 3 | 14 | 0.0658037 | 154 | adrenergic, beta-2-, receptor, surface |
| GO | regulation of sensory perception of p | 3 | 14 | 0.0658037 | 2911 | glutamate receptor, metabotropic 1 |
| GO | regulation of sensory perception of p | 3 | 14 | 0.0658037 | 885 | cholecystokinin |
| GO | regulation of vasoconstriction | 3 | 14 | 0.0658037 | 183 | angiotensinogen (serpin peptidase inhibitor, clade A, member 8) |
| GO | regulation of vasoconstriction | 3 | 14 | 0.0658037 | 1906 | endothelin 1 |
| GO | regulation of vasoconstriction | 3 | 14 | 0.0658037 | 27345 | potassium large conductance calcium-activated channel, subfamily M, |
| GO | regulation of neuronal synaptic plasti | 3 | 14 | 0.0658037 | 1959 | early growth response 2 |
| GO | regulation of neuronal synaptic plasti | 3 | 14 | 0.0658037 | 5367 | pro-melanin-concentrating hormone |
| GO | regulation of neuronal synaptic plasti | 3 | 14 | 0.0658037 | 8553 | basic helix-loop-helix family, member e40 |
| GO | positive regulation of protein secretic | 3 | 14 | 0.0658037 | 2033 | E1A binding protein p300 |
| GO | positive regulation of protein secretic | 3 | 14 | 0.0658037 | 3783 | potassium intermediate/small conductance calcium-activated channel, |
| GO | positive regulation of protein secretic | 3 | 14 | 0.0658037 | 5122 | proprotein convertase subtilisin/kexin type 1 |
| GO | artery morphogenesis | 3 | 14 | 0.0658037 | 2296 | forkhead box C1 |
| GO | artery morphogenesis | 3 | 14 | 0.0658037 | 2303 | forkhead box C2 (MFH-1, mesenchyme forkhead 1) |
| GO | artery morphogenesis | 3 | 14 | 0.0658037 | 5396 | paired related homeobox 1 |
| GO | eye development | 3 | 14 | 0.0658037 | 2296 | forkhead box C1 |
| GO | eye development | 3 | 14 | 0.0658037 | 4212 | Meis homeobox 2 |
| GO | eye development | 3 | 14 | 0.0658037 | 5950 | retinol binding protein 4, plasma |
| GO | negative regulation of mitotic cell cyc | 3 | 14 | 0.0658037 | 2296 | forkhead box C1 |
| GO | negative regulation of mitotic cell cyc | 3 | 14 | 0.0658037 | 5371 | promyelocytic leukemia |
| GO | negative regulation of mitotic cell cyc | 3 | 14 | 0.0658037 | 5774 | protein tyrosine phosphatase, non-receptor type 3 |
| GO | sialyltransferase activity | 3 | 14 | 0.0658037 | 27090 | ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1,3)-N-acetylgalact |
| GO | sialyltransferase activity | 3 | 14 | 0.0658037 | 55808 | ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1,3)-N-acetylgalact |
| GO | sialyltransferase activity | 3 | 14 | 0.0658037 | 6489 | ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 1 |
| GO | DNA damage response, signal transdu | 3 | 14 | 0.0658037 | 28996 | homeodomain interacting protein kinase 2 |
| GO | DNA damage response, signal transdu | 3 | 14 | 0.0658037 | 3428 | interferon, gamma-inducible protein 16 |
| GO | DNA damage response, signal transdu | 3 | 14 | 0.0658037 | 5371 | promyelocytic leukemia |

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|---|---|---|---|---|---|---|
| GO | response to ATP | 3 | 14 | 0.0658037 | 5025 | purinergic receptor P2X, ligand-gated ion channel, 4 |
| GO | response to ATP | 3 | 14 | 0.0658037 | 6402 | selectin L |
| GO | response to ATP | 3 | 14 | 0.0658037 | 834 | caspase 1, apoptosis-related cysteine peptidase (interleukin 1, beta, co |
| GO | proteasome core complex | 3 | 14 | 0.0658037 | 5696 | proteasome (prosome, macropain) subunit, beta type, 8 (large multifu |
| GO | proteasome core complex | 3 | 14 | 0.0658037 | 5698 | proteasome (prosome, macropain) subunit, beta type, 9 (large multifu |
| GO | proteasome core complex | 3 | 14 | 0.0658037 | 5699 | proteasome (prosome, macropain) subunit, beta type, 10 |
| GO | guanyl-nucleotide exchange factor ac | 13 | 120 | 0.0663024 | 152273 | FYVE, RhoGEF and PH domain containing 5 |
| GO | guanyl-nucleotide exchange factor ac | 13 | 120 | 0.0663024 | 23179 | ral guanine nucleotide dissociation stimulator-like 1 |
| GO | guanyl-nucleotide exchange factor ac | 13 | 120 | 0.0663024 | 23263 | MCF.2 cell line derived transforming sequence-like |
| GO | guanyl-nucleotide exchange factor ac | 13 | 120 | 0.0663024 | 23348 | dedicator of cytokinesis 9 |
| GO | guanyl-nucleotide exchange factor ac | 13 | 120 | 0.0663024 | 23365 | Rho guanine nucleotide exchange factor (GEF) 12 |
| GO | guanyl-nucleotide exchange factor ac | 13 | 120 | 0.0663024 | 389337 | Rho guanine nucleotide exchange factor (GEF) 37 |
| GO | guanyl-nucleotide exchange factor ac | 13 | 120 | 0.0663024 | 54848 | Rho guanine nucleotide exchange factor (GEF) 38 |
| GO | guanyl-nucleotide exchange factor ac | 13 | 120 | 0.0663024 | 55160 | Rho guanine nucleotide exchange factor (GEF) 10-like |
| GO | guanyl-nucleotide exchange factor ac | 13 | 120 | 0.0663024 | 57139 | ral guanine nucleotide dissociation stimulator-like 3 |
| GO | guanyl-nucleotide exchange factor ac | 13 | 120 | 0.0663024 | 5900 | ral guanine nucleotide dissociation stimulator |
| GO | guanyl-nucleotide exchange factor ac | 13 | 120 | 0.0663024 | 7984 | Rho guanine nucleotide exchange factor (GEF) 5 |
| GO | guanyl-nucleotide exchange factor ac | 13 | 120 | 0.0663024 | 84033 | obscurin, cytoskeletal calmodulin and titin-interacting RhoGEF |
| GO | guanyl-nucleotide exchange factor ac | 13 | 120 | 0.0663024 | 9459 | Rac/Cdc42 guanine nucleotide exchange factor (GEF) 6 |
| GO | galactosyltransferase activity | 4 | 23 | 0.0679884 | 10317 | UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase, polypeptide 5 |
| GO | galactosyltransferase activity | 4 | 23 | 0.0679884 | 192134 | UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 6 (core |
| GO | galactosyltransferase activity | 4 | 23 | 0.0679884 | 53947 | alpha 1,4-galactosyltransferase |
| GO | galactosyltransferase activity | 4 | 23 | 0.0679884 | 8706 | beta-1,3-N-acetylgalactosaminyltransferase 1 (globoside blood group) |
| GO | activation of MAPKK activity | 4 | 23 | 0.0679884 | 10912 | growth arrest and DNA-damage-inducible, gamma |
| GO | activation of MAPKK activity | 4 | 23 | 0.0679884 | 2911 | glutamate receptor, metabotropic 1 |
| GO | activation of MAPKK activity | 4 | 23 | 0.0679884 | 4616 | growth arrest and DNA-damage-inducible, beta |
| GO | activation of MAPKK activity | 4 | 23 | 0.0679884 | 652 | bone morphogenetic protein 4 |
| GO | voltage-gated calcium channel activit | 4 | 23 | 0.0679884 | 55799 | calcium channel, voltage-dependent, alpha 2/delta subunit 3 |
| GO | voltage-gated calcium channel activit | 4 | 23 | 0.0679884 | 774 | calcium channel, voltage-dependent, N type, alpha 1B subunit |
| GO | voltage-gated calcium channel activit | 4 | 23 | 0.0679884 | 783 | calcium channel, voltage-dependent, beta 2 subunit |
| GO | voltage-gated calcium channel activit | 4 | 23 | 0.0679884 | 8911 | calcium channel, voltage-dependent, T type, alpha 1I subunit |
| GO | negative regulation of cell migration | 1 | 1 | 0.0683482 | 10014 | histone deacetylase 5 |
| GO | 3-alpha(17-beta)-hydroxysteroid deh | 1 | 1 | 0.0683482 | 10170 | dehydrogenase/reductase (SDR family) member 9 |
| GO | racemase and epimerase activity | 1 | 1 | 0.0683482 | 10170 | dehydrogenase/reductase (SDR family) member 9 |
| GO | lung growth | 1 | 1 | 0.0683482 | 10253 | sprouty homolog 2 (Drosophila) |
| GO | ATP-binding and phosphorylation-de | 1 | 1 | 0.0683482 | 1080 | cystic fibrosis transmembrane conductance regulator (ATP-binding cas |

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|---|---|---|---|---|---|---|
| GO | channel-conductance-controlling ATP | 1 | 1 | 0.0683482 | 1080 | cystic fibrosis transmembrane conductance regulator (ATP-binding cas |
| GO | actin modification | 1 | 1 | 0.0683482 | 11078 | TRIO and F-actin binding protein |
| GO | myosin II binding | 1 | 1 | 0.0683482 | 11078 | TRIO and F-actin binding protein |
| GO | regulation of synapse organization | 1 | 1 | 0.0683482 | 11202 | kallikrein-related peptidase 8 |
| GO | negative regulation of innate immun | 1 | 1 | 0.0683482 | 11213 | interleukin-1 receptor-associated kinase 3 |
| GO | negative regulation of macrophage c | 1 | 1 | 0.0683482 | 11213 | interleukin-1 receptor-associated kinase 3 |
| GO | positive regulation of macrophage to | 1 | 1 | 0.0683482 | 11213 | interleukin-1 receptor-associated kinase 3 |
| GO | regulation of protein complex disasse | 1 | 1 | 0.0683482 | 11213 | interleukin-1 receptor-associated kinase 3 |
| GO | acyl carnitine transport | 1 | 1 | 0.0683482 | 123096 | solute carrier family 25, member 29 |
| GO | sphinganine metabolic process | 1 | 1 | 0.0683482 | 123099 | degenerative spermatocyte homolog 2, lipid desaturase (Drosophila) |
| GO | sphingolipid delta-4 desaturase activi | 1 | 1 | 0.0683482 | 123099 | degenerative spermatocyte homolog 2, lipid desaturase (Drosophila) |
| GO | sphingosine hydroxylase activity | 1 | 1 | 0.0683482 | 123099 | degenerative spermatocyte homolog 2, lipid desaturase (Drosophila) |
| GO | neuronal RNA granule | 1 | 1 | 0.0683482 | 127933 | U2AF homology motif (UHM) kinase 1 |
| GO | collagen type VIII | 1 | 1 | 0.0683482 | 1295 | collagen, type VIII, alpha 1 |
| GO | carbamoyl phosphate biosynthetic pr | 1 | 1 | 0.0683482 | 1373 | carbamoyl-phosphate synthetase 1, mitochondrial |
| GO | carbamoyl-phosphate synthase (amm | 1 | 1 | 0.0683482 | 1373 | carbamoyl-phosphate synthetase 1, mitochondrial |
| GO | carbamoyl-phosphate synthase activi | 1 | 1 | 0.0683482 | 1373 | carbamoyl-phosphate synthetase 1, mitochondrial |
| GO | citrulline biosynthetic process | 1 | 1 | 0.0683482 | 1373 | carbamoyl-phosphate synthetase 1, mitochondrial |
| GO | nitric oxide metabolic process | 1 | 1 | 0.0683482 | 1373 | carbamoyl-phosphate synthetase 1, mitochondrial |
| GO | mammary gland fat development | 1 | 1 | 0.0683482 | 1435 | colony stimulating factor 1 (macrophage) |
| GO | positive regulation of mononuclear c | 1 | 1 | 0.0683482 | 1435 | colony stimulating factor 1 (macrophage) |
| GO | regulation of macrophage derived fo | 1 | 1 | 0.0683482 | 1435 | colony stimulating factor 1 (macrophage) |
| GO | reproductive developmental process | 1 | 1 | 0.0683482 | 1435 | colony stimulating factor 1 (macrophage) |
| GO | negative regulation of blood vessel re | 1 | 1 | 0.0683482 | 1471 | cystatin C |
| GO | negative regulation of collagen catab | 1 | 1 | 0.0683482 | 1471 | cystatin C |
| GO | negative regulation of elastin catabol | 1 | 1 | 0.0683482 | 1471 | cystatin C |
| GO | negative regulation of histolysis | 1 | 1 | 0.0683482 | 1471 | cystatin C |
| GO | regulation of tissue remodeling | 1 | 1 | 0.0683482 | 1471 | cystatin C |
| GO | beta2-adrenergic receptor activity | 1 | 1 | 0.0683482 | 154 | adrenergic, beta-2-, receptor, surface |
| GO | cellular amide metabolic process | 1 | 1 | 0.0683482 | 1559 | cytochrome P450, family 2, subfamily C, polypeptide 9 |
| GO | urea metabolic process | 1 | 1 | 0.0683482 | 1559 | cytochrome P450, family 2, subfamily C, polypeptide 9 |
| GO | regulation of endothelial cell migrati | 1 | 1 | 0.0683482 | 168667 | BMP binding endothelial regulator |
| GO | induction of bacterial agglutination | 1 | 1 | 0.0683482 | 1755 | deleted in malignant brain tumors 1 |
| GO | zymogen binding | 1 | 1 | 0.0683482 | 1755 | deleted in malignant brain tumors 1 |
| GO | establishment of localization | 1 | 1 | 0.0683482 | 1803 | dipeptidyl-peptidase 4 |
| GO | invadopodium membrane | 1 | 1 | 0.0683482 | 1803 | dipeptidyl-peptidase 4 |

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|---|---|---|---|---|---|---|
| GO | regulation of T cell mediated immuni | 1 | 1 | 0.0683482 | 1803 | dipeptidyl-peptidase 4 |
| GO | dopamine D2 receptor activity | 1 | 1 | 0.0683482 | 1813 | dopamine receptor D2 |
| GO | dopamine D4 receptor activity | 1 | 1 | 0.0683482 | 1815 | dopamine receptor D4 |
| GO | toxin receptor binding | 1 | 1 | 0.0683482 | 1822 | atrophin 1 |
| GO | angiotensin mediated vasoconstrictic | 1 | 1 | 0.0683482 | 183 | angiotensinogen (serpin peptidase inhibitor, clade A, member 8) |
| GO | renal response to blood flow involvec | 1 | 1 | 0.0683482 | 183 | angiotensinogen (serpin peptidase inhibitor, clade A, member 8) |
| GO | response to muscle activity involved i | 1 | 1 | 0.0683482 | 183 | angiotensinogen (serpin peptidase inhibitor, clade A, member 8) |
| GO | type 2 angiotensin receptor binding | 1 | 1 | 0.0683482 | 183 | angiotensinogen (serpin peptidase inhibitor, clade A, member 8) |
| GO | negative regulation of elastin biosynt | 1 | 1 | 0.0683482 | 1839 | heparin-binding EGF-like growth factor |
| GO | activation of phospholipase D activity | 1 | 1 | 0.0683482 | 1906 | endothelin 1 |
| GO | endothelin A receptor binding | 1 | 1 | 0.0683482 | 1906 | endothelin 1 |
| GO | negative regulation of nitric-oxide syı | 1 | 1 | 0.0683482 | 1906 | endothelin 1 |
| GO | protein kinase C deactivation | 1 | 1 | 0.0683482 | 1906 | endothelin 1 |
| GO | O-glycan processing, core 3 | 1 | 1 | 0.0683482 | 192134 | UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 6 (core |
| GO | rhombomere 3 formation | 1 | 1 | 0.0683482 | 1959 | early growth response 2 |
| GO | rhombomere 5 formation | 1 | 1 | 0.0683482 | 1959 | early growth response 2 |
| GO | axial mesoderm formation | 1 | 1 | 0.0683482 | 1969 | EPH receptor A2 |
| GO | notochord cell development | 1 | 1 | 0.0683482 | 1969 | EPH receptor A2 |
| GO | negative regulation of cellular metab | 1 | 1 | 0.0683482 | 2033 | E1A binding protein p300 |
| GO | positive regulation of cellular metabc | 1 | 1 | 0.0683482 | 2033 | E1A binding protein p300 |
| GO | regulation of angiotensin metabolic p | 1 | 1 | 0.0683482 | 2033 | E1A binding protein p300 |
| GO | synapse maturation | 1 | 1 | 0.0683482 | 2066 | v-erb-a erythroblastic leukemia viral oncogene homolog 4 (avian) |
| GO | hemopoietic stem cell proliferation | 1 | 1 | 0.0683482 | 2122 | MDS1 and EVI1 complex locus |
| GO | positive regulation of type I hypersen | 1 | 1 | 0.0683482 | 2205 | Fc fragment of IgE, high affinity I, receptor for; alpha polypeptide |
| GO | pancreatic D cell differentiation | 1 | 1 | 0.0683482 | 222546 | regulatory factor X, 6 |
| GO | pancreatic E cell differentiation | 1 | 1 | 0.0683482 | 222546 | regulatory factor X, 6 |
| GO | cytoskeleton-dependent intracellular | 1 | 1 | 0.0683482 | 23095 | kinesin family member 1B |
| GO | latrotoxin receptor activity | 1 | 1 | 0.0683482 | 23266 | latrophilin 2 |
| GO | low-density lipoprotein receptor cata | 1 | 1 | 0.0683482 | 255738 | proprotein convertase subtilisin/kexin type 9 |
| GO | glutamate catabolic process | 1 | 1 | 0.0683482 | 2571 | glutamate decarboxylase 1 (brain, 67kDa) |
| GO | protein-pyridoxal-5-phosphate linkag | 1 | 1 | 0.0683482 | 2571 | glutamate decarboxylase 1 (brain, 67kDa) |
| GO | exocrine system development | 1 | 1 | 0.0683482 | 25837 | RAB26, member RAS oncogene family |
| GO | intrinsic to plasma membrane | 1 | 1 | 0.0683482 | 25837 | RAB26, member RAS oncogene family |
| GO | racemase and epimerase activity, act | 1 | 1 | 0.0683482 | 26035 | glucuronic acid epimerase |
| GO | UDP-glucuronate 5'-epimerase activit | 1 | 1 | 0.0683482 | 26035 | glucuronic acid epimerase |
| GO | vitamin transporter activity | 1 | 1 | 0.0683482 | 2638 | group-specific component (vitamin D binding protein) |

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|---|---|---|---|---|---|---|
| GO | vitamin transport | 1 | 1 | 0.0683482 | 2638 | group-specific component (vitamin D binding protein) |
| GO | FADH2 metabolic process | 1 | 1 | 0.0683482 | 27035 | NADPH oxidase 1 |
| GO | intracellular pH elevation | 1 | 1 | 0.0683482 | 27035 | NADPH oxidase 1 |
| GO | (alpha-N-acetylneuraminyl-2,3-beta-g | 1 | 1 | 0.0683482 | 27090 | ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1,3)-N-acetylgalact |
| GO | anterior semicircular canal developm | 1 | 1 | 0.0683482 | 2737 | GLI family zinc finger 3 |
| GO | lateral semicircular canal developme | 1 | 1 | 0.0683482 | 2737 | GLI family zinc finger 3 |
| GO | pallium development | 1 | 1 | 0.0683482 | 2737 | GLI family zinc finger 3 |
| GO | ferritin receptor activity | 1 | 1 | 0.0683482 | 286133 | scavenger receptor class A, member 5 (putative) |
| GO | iron ion transmembrane transport | 1 | 1 | 0.0683482 | 286133 | scavenger receptor class A, member 5 (putative) |
| GO | negative regulation of interleukin-10 | 1 | 1 | 0.0683482 | 28951 | tribbles homolog 2 (Drosophila) |
| GO | histidine ammonia-lyase activity | 1 | 1 | 0.0683482 | 3034 | histidine ammonia-lyase |
| GO | radial spoke | 1 | 1 | 0.0683482 | 345895 | radial spoke head 4 homolog A (Chlamydomonas) |
| GO | glycolate metabolic process | 1 | 1 | 0.0683482 | 3479 | insulin-like growth factor 1 (somatomedin C) |
| GO | muscle hypertrophy | 1 | 1 | 0.0683482 | 3479 | insulin-like growth factor 1 (somatomedin C) |
| GO | myotube cell development | 1 | 1 | 0.0683482 | 3479 | insulin-like growth factor 1 (somatomedin C) |
| GO | satellite cell maintenance involved in | 1 | 1 | 0.0683482 | 3479 | insulin-like growth factor 1 (somatomedin C) |
| GO | intussusceptive angiogenesis | 1 | 1 | 0.0683482 | 3491 | cysteine-rich, angiogenic inducer, 61 |
| GO | butyryl-CoA dehydrogenase activity | 1 | 1 | 0.0683482 | 35 | acyl-Coenzyme A dehydrogenase, C-2 to C-3 short chain |
| GO | glucagon secretion | 1 | 1 | 0.0683482 | 3569 | interleukin 6 (interferon, beta 2) |
| GO | positive regulation of B cell activation | 1 | 1 | 0.0683482 | 3569 | interleukin 6 (interferon, beta 2) |
| GO | ciliary neurotrophic factor binding | 1 | 1 | 0.0683482 | 3570 | interleukin 6 receptor |
| GO | positive regulation of activation of Ja | 1 | 1 | 0.0683482 | 3570 | interleukin 6 receptor |
| GO | carbon dioxide transmembrane trans | 1 | 1 | 0.0683482 | 358 | aquaporin 1 (Colton blood group) |
| GO | carbon dioxide transmembrane trans | 1 | 1 | 0.0683482 | 358 | aquaporin 1 (Colton blood group) |
| GO | cellular hyperosmotic response | 1 | 1 | 0.0683482 | 358 | aquaporin 1 (Colton blood group) |
| GO | cellular response to inorganic substa | 1 | 1 | 0.0683482 | 358 | aquaporin 1 (Colton blood group) |
| GO | cellular response to mechanical stimu | 1 | 1 | 0.0683482 | 358 | aquaporin 1 (Colton blood group) |
| GO | cellular response to nitric oxide | 1 | 1 | 0.0683482 | 358 | aquaporin 1 (Colton blood group) |
| GO | cellular response to salt stress | 1 | 1 | 0.0683482 | 358 | aquaporin 1 (Colton blood group) |
| GO | establishment or maintenance of acti | 1 | 1 | 0.0683482 | 358 | aquaporin 1 (Colton blood group) |
| GO | maintenance of symbiont-containing | 1 | 1 | 0.0683482 | 358 | aquaporin 1 (Colton blood group) |
| GO | nitric oxide transmembrane transpor | 1 | 1 | 0.0683482 | 358 | aquaporin 1 (Colton blood group) |
| GO | symbiont-containing vacuole membra | 1 | 1 | 0.0683482 | 358 | aquaporin 1 (Colton blood group) |
| GO | transepithelial water transport | 1 | 1 | 0.0683482 | 358 | aquaporin 1 (Colton blood group) |
| GO | insulin receptor activity | 1 | 1 | 0.0683482 | 3643 | insulin receptor |
| GO | positive regulation of developmental | 1 | 1 | 0.0683482 | 3643 | insulin receptor |

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|---|---|---|---|---|---|---|
| GO | transformation of host cell by virus | 1 | 1 | 0.0683482 | 3643 | insulin receptor |
| GO | leading edge cell differentiation | 1 | 1 | 0.0683482 | 3725 | jun oncogene |
| GO | regulation of synaptic growth at neur | 1 | 1 | 0.0683482 | 375790 | agrin |
| GO | stem cell factor receptor activity | 1 | 1 | 0.0683482 | 3815 | v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog |
| GO | GMP binding | 1 | 1 | 0.0683482 | 3845 | v-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog |
| GO | laminin-5 complex | 1 | 1 | 0.0683482 | 3911 | laminin, alpha 5 |
| GO | morphogenesis of a polarized epithel | 1 | 1 | 0.0683482 | 3911 | laminin, alpha 5 |
| GO | axon extension involved in regenerat | 1 | 1 | 0.0683482 | 3913 | laminin, beta 2 (laminin S) |
| GO | positive regulation of phospholipase | 1 | 1 | 0.0683482 | 395 | Rho GTPase activating protein 6 |
| GO | cellular response to vitamin A | 1 | 1 | 0.0683482 | 4056 | leukotriene C4 synthase |
| GO | steryl-sulfatase activity | 1 | 1 | 0.0683482 | 412 | steroid sulfatase (microsomal), isozyme S |
| GO | mannosidase activity | 1 | 1 | 0.0683482 | 4121 | mannosidase, alpha, class 1A, member 1 |
| GO | protein channel activity | 1 | 1 | 0.0683482 | 4170 | myeloid cell leukemia sequence 1 (BCL2-related) |
| GO | inner acrosomal membrane | 1 | 1 | 0.0683482 | 4179 | CD46 molecule, complement regulatory protein |
| GO | G0 to G1 transition | 1 | 1 | 0.0683482 | 4194 | Mdm4 p53 binding protein homolog (mouse) |
| GO | double-stranded methylated DNA bir | 1 | 1 | 0.0683482 | 4204 | methyl CpG binding protein 2 (Rett syndrome) |
| GO | positive regulation of myeloid leukoc | 1 | 1 | 0.0683482 | 4254 | KIT ligand |
| GO | cellular response to magnetism | 1 | 1 | 0.0683482 | 429 | achaete-scute complex homolog 1 (Drosophila) |
| GO | lung epithelial cell differentiation | 1 | 1 | 0.0683482 | 429 | achaete-scute complex homolog 1 (Drosophila) |
| GO | neuroblast fate determination | 1 | 1 | 0.0683482 | 429 | achaete-scute complex homolog 1 (Drosophila) |
| GO | noradrenergic neuron fate commitm | 1 | 1 | 0.0683482 | 429 | achaete-scute complex homolog 1 (Drosophila) |
| GO | oligodendrocyte cell fate commitmer | 1 | 1 | 0.0683482 | 429 | achaete-scute complex homolog 1 (Drosophila) |
| GO | regulation of timing of subpallium ne | 1 | 1 | 0.0683482 | 429 | achaete-scute complex homolog 1 (Drosophila) |
| GO | response to epidermal growth factor | 1 | 1 | 0.0683482 | 429 | achaete-scute complex homolog 1 (Drosophila) |
| GO | methylenetetrahydrofolate reductas | 1 | 1 | 0.0683482 | 4524 | 5,10-methylenetetrahydrofolate reductase (NADPH) |
| GO | nitrilase activity | 1 | 1 | 0.0683482 | 4817 | nitrilase 1 |
| GO | aortic valve morphogenesis | 1 | 1 | 0.0683482 | 4851 | Notch homolog 1, translocation-associated (Drosophila) |
| GO | endocardium morphogenesis | 1 | 1 | 0.0683482 | 4851 | Notch homolog 1, translocation-associated (Drosophila) |
| GO | foregut morphogenesis | 1 | 1 | 0.0683482 | 4851 | Notch homolog 1, translocation-associated (Drosophila) |
| GO | regulation of epithelial cell proliferati | 1 | 1 | 0.0683482 | 4851 | Notch homolog 1, translocation-associated (Drosophila) |
| GO | regulation of somitogenesis | 1 | 1 | 0.0683482 | 4851 | Notch homolog 1, translocation-associated (Drosophila) |
| GO | generation of ovulation cycle rhythm | 1 | 1 | 0.0683482 | 4889 | neuropeptide Y receptor Y5 |
| GO | 2'-5'-oligoadenylate synthetase activi | 1 | 1 | 0.0683482 | 4939 | 2'-5'-oligoadenylate synthetase 2, 69/71kDa |
| GO | relaxation of cardiac muscle | 1 | 1 | 0.0683482 | 5025 | purinergic receptor P2X, ligand-gated ion channel, 4 |
| GO | protein amino acid hydroxylation | 1 | 1 | 0.0683482 | 5053 | phenylalanine hydroxylase |
| GO | tetrahydrobiopterin metabolic proce | 1 | 1 | 0.0683482 | 5053 | phenylalanine hydroxylase |

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|---|---|---|---|---|---|---|
| GO | tyrosine biosynthetic process | 1 | 1 | 0.0683482 | 5053 | phenylalanine hydroxylase |
| GO | interleukin-20 receptor binding | 1 | 1 | 0.0683482 | 50604 | interleukin 20 |
| GO | positive regulation of epidermal cell | 1 | 1 | 0.0683482 | 50604 | interleukin 20 |
| GO | peptidylamidoglycolate lyase activity | 1 | 1 | 0.0683482 | 5066 | peptidylglycine alpha-amidating monooxygenase |
| GO | peptidylglycine monooxygenase activ | 1 | 1 | 0.0683482 | 5066 | peptidylglycine alpha-amidating monooxygenase |
| GO | carbohydrate response element bind | 1 | 1 | 0.0683482 | 51085 | MLX interacting protein-like |
| GO | glucose mediated signaling pathway | 1 | 1 | 0.0683482 | 51085 | MLX interacting protein-like |
| GO | negative regulation of oxidative phos | 1 | 1 | 0.0683482 | 51085 | MLX interacting protein-like |
| GO | spot adherens junction | 1 | 1 | 0.0683482 | 5239 | phosphoglucomutase 5 |
| GO | 1-phosphatidylinositol-4-phosphate | 1 | 1 | 0.0683482 | 5295 | phosphoinositide-3-kinase, regulatory subunit 1 (alpha) |
| GO | branchiomeric skeletal muscle devel | 1 | 1 | 0.0683482 | 5307 | paired-like homeodomain 1 |
| GO | hydroxylysine biosynthetic process | 1 | 1 | 0.0683482 | 5351 | procollagen-lysine 1, 2-oxoglutarate 5-dioxygenase 1 |
| GO | granule cell precursor tangential mig | 1 | 1 | 0.0683482 | 5362 | plexin A2 |
| GO | melanin-concentrating hormone acti | 1 | 1 | 0.0683482 | 5367 | pro-melanin-concentrating hormone |
| GO | type 1 melanin-concentrating hormo | 1 | 1 | 0.0683482 | 5367 | pro-melanin-concentrating hormone |
| GO | negative regulation of translation in | 1 | 1 | 0.0683482 | 5371 | promyelocytic leukemia |
| GO | negative regulation of calcium-depen | 1 | 1 | 0.0683482 | 53827 | FXYD domain containing ion transport regulator 5 |
| GO | lactosylceramide 4-alpha-galactosylt | 1 | 1 | 0.0683482 | 53947 | alpha 1,4-galactosyltransferase |
| GO | thyroid stimulating hormone secreti | 1 | 1 | 0.0683482 | 54361 | wingless-type MMTV integration site family, member 4 |
| GO | cell fate commitment involved in the | 1 | 1 | 0.0683482 | 5460 | POU class 5 homeobox 1 |
| GO | positive regulation of catenin protein | 1 | 1 | 0.0683482 | 5460 | POU class 5 homeobox 1 |
| GO | regulation of canonical Wnt receptor | 1 | 1 | 0.0683482 | 5460 | POU class 5 homeobox 1 |
| GO | regulation of methylation-dependent | 1 | 1 | 0.0683482 | 5460 | POU class 5 homeobox 1 |
| GO | RNA 5'-end processing | 1 | 1 | 0.0683482 | 55124 | piwi-like 2 (Drosophila) |
| GO | sphingoid biosynthetic process | 1 | 1 | 0.0683482 | 55304 | serine palmitoyltransferase, long chain base subunit 3 |
| GO | alpha-N-acetylgalactosaminide alpha | 1 | 1 | 0.0683482 | 55808 | ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1,3)-N-acetylgalac |
| GO | barrier septum formation | 1 | 1 | 0.0683482 | 55909 | bridging integrator 3 |
| GO | unidimensional cell growth | 1 | 1 | 0.0683482 | 55909 | bridging integrator 3 |
| GO | inorganic diphosphate transmembra | 1 | 1 | 0.0683482 | 56172 | ankylosis, progressive homolog (mouse) |
| GO | asymmetric cell division | 1 | 1 | 0.0683482 | 56288 | par-3 partitioning defective 3 homolog (C. elegans) |
| GO | negative regulation of complement a | 1 | 1 | 0.0683482 | 5648 | mannan-binding lectin serine peptidase 1 (C4/C2 activating componen |
| GO | glycoprotein-N-acetylgalactosamine | 1 | 1 | 0.0683482 | 56913 | core 1 synthase, glycoprotein-N-acetylgalactosamine 3-beta-galactosy |
| GO | neuromedin U binding | 1 | 1 | 0.0683482 | 56923 | neuromedin U receptor 2 |
| GO | columnar/cuboidal epithelial cell dev | 1 | 1 | 0.0683482 | 57619 | shroom family member 3 |
| GO | negative regulation of calcium ion tr | 1 | 1 | 0.0683482 | 57620 | stromal interaction molecule 2 |
| GO | flavin-linked sulfhydryl oxidase activi | 1 | 1 | 0.0683482 | 5768 | quiescin Q6 sulfhydryl oxidase 1 |

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|---|---|---|---|---|---|---|
| GO | regulation of mast cell activation | 1 | 1 | 0.0683482 | 5791 | protein tyrosine phosphatase, receptor type, E |
| GO | cytotoxic T cell degranulation | 1 | 1 | 0.0683482 | 5873 | RAB27A, member RAS oncogene family |
| GO | retinol transporter activity | 1 | 1 | 0.0683482 | 5950 | retinol binding protein 4, plasma |
| GO | retinol transport | 1 | 1 | 0.0683482 | 5950 | retinol binding protein 4, plasma |
| GO | spermatogonial cell division | 1 | 1 | 0.0683482 | 5950 | retinol binding protein 4, plasma |
| GO | response to cGMP | 1 | 1 | 0.0683482 | 5972 | renin |
| GO | regulation of germinal center formati | 1 | 1 | 0.0683482 | 604 | B-cell CLL/lymphoma 6 |
| GO | regulation of memory T cell different | 1 | 1 | 0.0683482 | 604 | B-cell CLL/lymphoma 6 |
| GO | complement binding | 1 | 1 | 0.0683482 | 629 | complement factor B |
| GO | regulation of mitochondrion organiza | 1 | 1 | 0.0683482 | 64083 | golgi phosphoprotein 3 (coat-protein) |
| GO | activation of immune response | 1 | 1 | 0.0683482 | 64127 | nucleotide-binding oligomerization domain containing 2 |
| GO | cytokine production involved in immu | 1 | 1 | 0.0683482 | 64127 | nucleotide-binding oligomerization domain containing 2 |
| GO | detection of muramyl dipeptide | 1 | 1 | 0.0683482 | 64127 | nucleotide-binding oligomerization domain containing 2 |
| GO | immunoglobulin production during ir | 1 | 1 | 0.0683482 | 64127 | nucleotide-binding oligomerization domain containing 2 |
| GO | macrophage inflammatory protein-1 | 1 | 1 | 0.0683482 | 64127 | nucleotide-binding oligomerization domain containing 2 |
| GO | muramyl dipeptide binding | 1 | 1 | 0.0683482 | 64127 | nucleotide-binding oligomerization domain containing 2 |
| GO | negative regulation of interleukin-18 | 1 | 1 | 0.0683482 | 64127 | nucleotide-binding oligomerization domain containing 2 |
| GO | negative regulation of toll-like recept | 1 | 1 | 0.0683482 | 64127 | nucleotide-binding oligomerization domain containing 2 |
| GO | glutamate:sodium symporter activity | 1 | 1 | 0.0683482 | 6505 | solute carrier family 1 (neuronal/epithelial high affinity glutamate trans |
| GO | branch elongation involved in ureteri | 1 | 1 | 0.0683482 | 652 | bone morphogenetic protein 4 |
| GO | bronchus development | 1 | 1 | 0.0683482 | 652 | bone morphogenetic protein 4 |
| GO | bud dilation involved in lung branchir | 1 | 1 | 0.0683482 | 652 | bone morphogenetic protein 4 |
| GO | epithelial cell proliferation involved ir | 1 | 1 | 0.0683482 | 652 | bone morphogenetic protein 4 |
| GO | intermediate mesodermal cell differe | 1 | 1 | 0.0683482 | 652 | bone morphogenetic protein 4 |
| GO | mammary gland formation | 1 | 1 | 0.0683482 | 652 | bone morphogenetic protein 4 |
| GO | negative regulation of branching invo | 1 | 1 | 0.0683482 | 652 | bone morphogenetic protein 4 |
| GO | negative regulation of glomerulus de | 1 | 1 | 0.0683482 | 652 | bone morphogenetic protein 4 |
| GO | trachea formation | 1 | 1 | 0.0683482 | 652 | bone morphogenetic protein 4 |
| GO | creatine transporter activity | 1 | 1 | 0.0683482 | 6535 | solute carrier family 6 (neurotransmitter transporter, creatine), membe |
| GO | creatine transport | 1 | 1 | 0.0683482 | 6535 | solute carrier family 6 (neurotransmitter transporter, creatine), membe |
| GO | creatine:sodium symporter activity | 1 | 1 | 0.0683482 | 6535 | solute carrier family 6 (neurotransmitter transporter, creatine), membe |
| GO | channel inhibitor activity | 1 | 1 | 0.0683482 | 6564 | solute carrier family 15 (oligopeptide transporter), member 1 |
| GO | negative regulation of amino acid tra | 1 | 1 | 0.0683482 | 6564 | solute carrier family 15 (oligopeptide transporter), member 1 |
| GO | oligopeptide transporter activity | 1 | 1 | 0.0683482 | 6564 | solute carrier family 15 (oligopeptide transporter), member 1 |
| GO | antibiotic transporter activity | 1 | 1 | 0.0683482 | 6565 | solute carrier family 15 (H+/peptide transporter), member 2 |
| GO | antibiotic transport | 1 | 1 | 0.0683482 | 6565 | solute carrier family 15 (H+/peptide transporter), member 2 |

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|---|---|---|---|---|---|---|
| GO | dipeptide transporter activity | 1 | 1 | 0.0683482 | 6565 | solute carrier family 15 (H+/peptide transporter), member 2 |
| GO | dipeptide transport | 1 | 1 | 0.0683482 | 6565 | solute carrier family 15 (H+/peptide transporter), member 2 |
| GO | high affinity oligopeptide transporter | 1 | 1 | 0.0683482 | 6565 | solute carrier family 15 (H+/peptide transporter), member 2 |
| GO | negative regulation of dopamine upta | 1 | 1 | 0.0683482 | 6622 | synuclein, alpha (non A4 component of amyloid precursor) |
| GO | negative regulation of monooxygenas | 1 | 1 | 0.0683482 | 6622 | synuclein, alpha (non A4 component of amyloid precursor) |
| GO | negative regulation of norepinephrin | 1 | 1 | 0.0683482 | 6622 | synuclein, alpha (non A4 component of amyloid precursor) |
| GO | negative regulation of serotonin upta | 1 | 1 | 0.0683482 | 6622 | synuclein, alpha (non A4 component of amyloid precursor) |
| GO | negative regulation of thrombin rece | 1 | 1 | 0.0683482 | 6622 | synuclein, alpha (non A4 component of amyloid precursor) |
| GO | neutral lipid metabolic process | 1 | 1 | 0.0683482 | 6622 | synuclein, alpha (non A4 component of amyloid precursor) |
| GO | phospholipase D inhibitor activity | 1 | 1 | 0.0683482 | 6622 | synuclein, alpha (non A4 component of amyloid precursor) |
| GO | regulation of acyl-CoA biosynthetic p | 1 | 1 | 0.0683482 | 6622 | synuclein, alpha (non A4 component of amyloid precursor) |
| GO | regulation of phospholipase activity | 1 | 1 | 0.0683482 | 6622 | synuclein, alpha (non A4 component of amyloid precursor) |
| GO | regulation of synaptic vesicle priming | 1 | 1 | 0.0683482 | 6812 | syntaxin binding protein 1 |
| GO | thromboxane-A synthase activity | 1 | 1 | 0.0683482 | 6916 | thromboxane A synthase 1 (platelet) |
| GO | respiratory burst involved in inflamm | 1 | 1 | 0.0683482 | 7001 | peroxiredoxin 2 |
| GO | radial pattern formation | 1 | 1 | 0.0683482 | 7026 | nuclear receptor subfamily 2, group F, member 2 |
| GO | definitive erythrocyte differentiation | 1 | 1 | 0.0683482 | 7049 | transforming growth factor, beta receptor III |
| GO | response to luteinizing hormone stim | 1 | 1 | 0.0683482 | 7049 | transforming growth factor, beta receptor III |
| GO | transforming growth factor beta rece | 1 | 1 | 0.0683482 | 7049 | transforming growth factor, beta receptor III |
| GO | cellular response to bacterial lipopep | 1 | 1 | 0.0683482 | 7097 | toll-like receptor 2 |
| GO | chloramphenicol transport | 1 | 1 | 0.0683482 | 7097 | toll-like receptor 2 |
| GO | triacylated lipopeptide binding | 1 | 1 | 0.0683482 | 7097 | toll-like receptor 2 |
| GO | detection of virus | 1 | 1 | 0.0683482 | 7098 | toll-like receptor 3 |
| GO | detection of fungus | 1 | 1 | 0.0683482 | 7099 | toll-like receptor 4 |
| GO | innate immune response-activating s | 1 | 1 | 0.0683482 | 7099 | toll-like receptor 4 |
| GO | intestinal epithelial structure mainter | 1 | 1 | 0.0683482 | 7099 | toll-like receptor 4 |
| GO | negative regulation of interleukin-17 | 1 | 1 | 0.0683482 | 7099 | toll-like receptor 4 |
| GO | negative regulation of interleukin-23 | 1 | 1 | 0.0683482 | 7099 | toll-like receptor 4 |
| GO | positive regulation of interleukin-1 pr | 1 | 1 | 0.0683482 | 7099 | toll-like receptor 4 |
| GO | positive regulation of nucleotide-binc | 1 | 1 | 0.0683482 | 7099 | toll-like receptor 4 |
| GO | positive regulation of nucleotide-binc | 1 | 1 | 0.0683482 | 7099 | toll-like receptor 4 |
| GO | production of nitric oxide involved in | 1 | 1 | 0.0683482 | 7099 | toll-like receptor 4 |
| GO | positive regulation of type IIa hyperse | 1 | 1 | 0.0683482 | 718 | complement component 3 |
| GO | ionotropic glutamate receptor compl | 1 | 1 | 0.0683482 | 729993 | shisa homolog 9 (Xenopus laevis) |
| GO | negative regulation of mesenchymal | 1 | 1 | 0.0683482 | 7474 | wingless-type MMTV integration site family, member 5A |
| GO | positive regulation of cytokine secret | 1 | 1 | 0.0683482 | 7474 | wingless-type MMTV integration site family, member 5A |

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| GO | receptor tyrosine kinase-like orphan | 1 | 1 | 0.0683482 | 7474 | wingless-type MMTV integration site family, member 5A |
| GO | positive regulation of nuclear-transcr | 1 | 1 | 0.0683482 | 7538 | zinc finger protein 36, C3H type, homolog (mouse) |
| GO | negative regulation of nuclease activi | 1 | 1 | 0.0683482 | 79661 | nei endonuclease VIII-like 1 (E. coli) |
| GO | oxidoreductase activity, acting on the | 1 | 1 | 0.0683482 | 79802 | HHIP-like 2 |
| GO | calcitonin binding | 1 | 1 | 0.0683482 | 799 | calcitonin receptor |
| GO | semicircular canal morphogenesis | 1 | 1 | 0.0683482 | 8013 | nuclear receptor subfamily 4, group A, member 3 |
| GO | vestibular reflex | 1 | 1 | 0.0683482 | 8013 | nuclear receptor subfamily 4, group A, member 3 |
| GO | hydroxypyruvate isomerase activity | 1 | 1 | 0.0683482 | 81888 | hydroxypyruvate isomerase homolog (E. coli) |
| GO | calcium-dependent cysteine-type end | 1 | 1 | 0.0683482 | 831 | calpastatin |
| GO | CMP-N-acetylneuraminate monooxyg | 1 | 1 | 0.0683482 | 8418 | cytidine monophosphate-N-acetylneuraminic acid hydroxylase (CMP-N |
| GO | patched ligand maturation | 1 | 1 | 0.0683482 | 84976 | dispatched homolog 1 (Drosophila) |
| GO | negative regulation of skeletal muscle | 1 | 1 | 0.0683482 | 8531 | cold shock domain protein A |
| GO | ribonuclease T2 activity | 1 | 1 | 0.0683482 | 8635 | ribonuclease T2 |
| GO | BMP signaling pathway involved in sp | 1 | 1 | 0.0683482 | 8646 | chordin |
| GO | floor plate development | 1 | 1 | 0.0683482 | 8646 | chordin |
| GO | galactosylgalactosylglucosylceramide | 1 | 1 | 0.0683482 | 8706 | beta-1,3-N-acetylgalactosaminyltransferase 1 (globoside blood group) |
| GO | positive regulation of protein oligome | 1 | 1 | 0.0683482 | 885 | cholecystokinin |
| GO | phosphatidic acid binding | 1 | 1 | 0.0683482 | 91404 | SEC14 and spectrin domains 1 |
| GO | negative regulation of Golgi to plasm | 1 | 1 | 0.0683482 | 91461 | protein kinase domain containing, cytoplasmic homolog (mouse) |
| GO | trans-Golgi network transport vesicle | 1 | 1 | 0.0683482 | 9182 | Ras association (RalGDS/AF-6) domain family (N-terminal) member 9 |
| GO | pyruvate secondary active transmem | 1 | 1 | 0.0683482 | 9194 | solute carrier family 16, member 7 (monocarboxylic acid transporter 2) |
| GO | pyruvate transport | 1 | 1 | 0.0683482 | 9194 | solute carrier family 16, member 7 (monocarboxylic acid transporter 2) |
| GO | opsonin receptor activity | 1 | 1 | 0.0683482 | 929 | CD14 molecule |
| GO | nicotinate phosphoribosyltransferase | 1 | 1 | 0.0683482 | 93100 | nicotinate phosphoribosyltransferase domain containing 1 |
| GO | phosphorus-oxygen lyase activity | 1 | 1 | 0.0683482 | 952 | CD38 molecule |
| GO | glucose 1-dehydrogenase activity | 1 | 1 | 0.0683482 | 9563 | hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase) |
| GO | guanine deaminase activity | 1 | 1 | 0.0683482 | 9615 | guanine deaminase |
| GO | detection of hormone stimulus | 1 | 1 | 0.0683482 | 9619 | ATP-binding cassette, sub-family G (WHITE), member 1 |
| GO | glycoprotein transporter activity | 1 | 1 | 0.0683482 | 9619 | ATP-binding cassette, sub-family G (WHITE), member 1 |
| GO | glycoprotein transport | 1 | 1 | 0.0683482 | 9619 | ATP-binding cassette, sub-family G (WHITE), member 1 |
| GO | regulation of cholesterol esterificatio | 1 | 1 | 0.0683482 | 9619 | ATP-binding cassette, sub-family G (WHITE), member 1 |
| GO | sterol-transporting ATPase activity | 1 | 1 | 0.0683482 | 9619 | ATP-binding cassette, sub-family G (WHITE), member 1 |
| GO | regulation of striated muscle cell diffe | 1 | 1 | 0.0683482 | 9734 | histone deacetylase 9 |
| GO | rhombomere 6 development | 1 | 1 | 0.0683482 | 9935 | v-maf musculoaponeurotic fibrosarcoma oncogene homolog B (avian) |
| GO | cytokine metabolic process | 1 | 1 | 0.0683482 | 9966 | tumor necrosis factor (ligand) superfamily, member 15 |
| GO | meiotic cohesin complex | 1 | 1 | 0.0683482 | 9985 | REC8 homolog (yeast) |

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|---|---|---|---|---|---|---|
| GO | positive regulation of I-kappaB kinase | 12 | 109 | 0.0686347 | 10769 | polo-like kinase 2 (Drosophila) |
| GO | positive regulation of I-kappaB kinase | 12 | 109 | 0.0686347 | 1902 | lysophosphatidic acid receptor 1 |
| GO | positive regulation of I-kappaB kinase | 12 | 109 | 0.0686347 | 5071 | Parkinson disease (autosomal recessive, juvenile) 2, parkin |
| GO | positive regulation of I-kappaB kinase | 12 | 109 | 0.0686347 | 51523 | CXXC finger 5 |
| GO | positive regulation of I-kappaB kinase | 12 | 109 | 0.0686347 | 64127 | nucleotide-binding oligomerization domain containing 2 |
| GO | positive regulation of I-kappaB kinase | 12 | 109 | 0.0686347 | 684 | bone marrow stromal cell antigen 2 |
| GO | positive regulation of I-kappaB kinase | 12 | 109 | 0.0686347 | 7098 | toll-like receptor 3 |
| GO | positive regulation of I-kappaB kinase | 12 | 109 | 0.0686347 | 7099 | toll-like receptor 4 |
| GO | positive regulation of I-kappaB kinase | 12 | 109 | 0.0686347 | 79971 | wntless homolog (Drosophila) |
| GO | positive regulation of I-kappaB kinase | 12 | 109 | 0.0686347 | 80833 | apolipoprotein L, 3 |
| GO | positive regulation of I-kappaB kinase | 12 | 109 | 0.0686347 | 834 | caspase 1, apoptosis-related cysteine peptidase (interleukin 1, beta, co |
| GO | positive regulation of I-kappaB kinase | 12 | 109 | 0.0686347 | 8600 | tumor necrosis factor (ligand) superfamily, member 11 |
| GO | cell cortex | 9 | 75 | 0.0691174 | 2263 | fibroblast growth factor receptor 2 |
| GO | cell cortex | 9 | 75 | 0.0691174 | 23048 | formin binding protein 1 |
| GO | cell cortex | 9 | 75 | 0.0691174 | 3709 | inositol 1,4,5-triphosphate receptor, type 2 |
| GO | cell cortex | 9 | 75 | 0.0691174 | 53405 | chloride intracellular channel 5 |
| GO | cell cortex | 9 | 75 | 0.0691174 | 56288 | par-3 partitioning defective 3 homolog (C. elegans) |
| GO | cell cortex | 9 | 75 | 0.0691174 | 6622 | synuclein, alpha (non A4 component of amyloid precursor) |
| GO | cell cortex | 9 | 75 | 0.0691174 | 6710 | spectrin, beta, erythrocytic |
| GO | cell cortex | 9 | 75 | 0.0691174 | 85477 | scinderin |
| GO | cell cortex | 9 | 75 | 0.0691174 | 9595 | cytohesin 1 interacting protein |
| GO | calcium-mediated signaling | 5 | 33 | 0.0714159 | 10231 | regulator of calcineurin 2 |
| GO | calcium-mediated signaling | 5 | 33 | 0.0714159 | 1906 | endothelin 1 |
| GO | calcium-mediated signaling | 5 | 33 | 0.0714159 | 222545 | G protein-coupled receptor, family C, group 6, member A |
| GO | calcium-mediated signaling | 5 | 33 | 0.0714159 | 2911 | glutamate receptor, metabotropic 1 |
| GO | calcium-mediated signaling | 5 | 33 | 0.0714159 | 56923 | neuromedin U receptor 2 |
| GO | learning or memory | 5 | 33 | 0.0714159 | 1958 | early growth response 1 |
| GO | learning or memory | 5 | 33 | 0.0714159 | 1959 | early growth response 2 |
| GO | learning or memory | 5 | 33 | 0.0714159 | 2182 | acyl-CoA synthetase long-chain family member 4 |
| GO | learning or memory | 5 | 33 | 0.0714159 | 412 | steroid sulfatase (microsomal), isozyme S |
| GO | learning or memory | 5 | 33 | 0.0714159 | 627 | brain-derived neurotrophic factor |
| GO | lipid metabolic process | 20 | 206 | 0.0714555 | 11343 | monoglyceride lipase |
| GO | lipid metabolic process | 20 | 206 | 0.0714555 | 166929 | sphingomyelin synthase 2 |
| GO | lipid metabolic process | 20 | 206 | 0.0714555 | 2182 | acyl-CoA synthetase long-chain family member 4 |
| GO | lipid metabolic process | 20 | 206 | 0.0714555 | 23780 | apolipoprotein L, 2 |
| GO | lipid metabolic process | 20 | 206 | 0.0714555 | 256987 | serine incorporator 5 |

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|---|---|---|---|---|---|---|
| GO | lipid metabolic process | 20 | 206 | 0.0714555 | 35 | acyl-Coenzyme A dehydrogenase, C-2 to C-3 short chain |
| GO | lipid metabolic process | 20 | 206 | 0.0714555 | 3949 | low density lipoprotein receptor |
| GO | lipid metabolic process | 20 | 206 | 0.0714555 | 498 | ATP synthase, H+ transporting, mitochondrial F1 complex, alpha subun |
| GO | lipid metabolic process | 20 | 206 | 0.0714555 | 51703 | acyl-CoA synthetase long-chain family member 5 |
| GO | lipid metabolic process | 20 | 206 | 0.0714555 | 5244 | ATP-binding cassette, sub-family B (MDR/TAP), member 4 |
| GO | lipid metabolic process | 20 | 206 | 0.0714555 | 5346 | perilipin 1 |
| GO | lipid metabolic process | 20 | 206 | 0.0714555 | 5465 | peroxisome proliferator-activated receptor alpha |
| GO | lipid metabolic process | 20 | 206 | 0.0714555 | 55268 | enoyl Coenzyme A hydratase domain containing 2 |
| GO | lipid metabolic process | 20 | 206 | 0.0714555 | 56261 | glycerophosphocholine phosphodiesterase GDE1 homolog (S. cerevisia |
| GO | lipid metabolic process | 20 | 206 | 0.0714555 | 5742 | prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase a |
| GO | lipid metabolic process | 20 | 206 | 0.0714555 | 6489 | ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 1 |
| GO | lipid metabolic process | 20 | 206 | 0.0714555 | 7026 | nuclear receptor subfamily 2, group F, member 2 |
| GO | lipid metabolic process | 20 | 206 | 0.0714555 | 7069 | thyroid hormone responsive (SPOT14 homolog, rat) |
| GO | lipid metabolic process | 20 | 206 | 0.0714555 | 7941 | phospholipase A2, group VII (platelet-activating factor acetylhydrolase, |
| GO | lipid metabolic process | 20 | 206 | 0.0714555 | 81544 | glycerophosphodiester phosphodiesterase domain containing 5 |
| GO | chloride channel complex | 7 | 54 | 0.073533 | 1080 | cystic fibrosis transmembrane conductance regulator (ATP-binding cas |
| GO | chloride channel complex | 7 | 54 | 0.073533 | 1193 | chloride intracellular channel 2 |
| GO | chloride channel complex | 7 | 54 | 0.073533 | 2564 | gamma-aminobutyric acid (GABA) A receptor, epsilon |
| GO | chloride channel complex | 7 | 54 | 0.073533 | 266675 | bestrophin 4 |
| GO | chloride channel complex | 7 | 54 | 0.073533 | 53405 | chloride intracellular channel 5 |
| GO | chloride channel complex | 7 | 54 | 0.073533 | 5349 | FXYD domain containing ion transport regulator 3 |
| GO | chloride channel complex | 7 | 54 | 0.073533 | 63982 | anoctamin 3 |
| GO | oxidation reduction | 44 | 515 | 0.0741864 | 10170 | dehydrogenase/reductase (SDR family) member 9 |
| GO | oxidation reduction | 44 | 515 | 0.0741864 | 10826 | chromosome 5 open reading frame 4 |
| GO | oxidation reduction | 44 | 515 | 0.0741864 | 112724 | retinol dehydrogenase 13 (all-trans/9-cis) |
| GO | oxidation reduction | 44 | 515 | 0.0741864 | 123099 | degenerative spermatocyte homolog 2, lipid desaturase (Drosophila) |
| GO | oxidation reduction | 44 | 515 | 0.0741864 | 124 | alcohol dehydrogenase 1A (class I), alpha polypeptide |
| GO | oxidation reduction | 44 | 515 | 0.0741864 | 125 | alcohol dehydrogenase 1B (class I), beta polypeptide |
| GO | oxidation reduction | 44 | 515 | 0.0741864 | 1558 | cytochrome P450, family 2, subfamily C, polypeptide 8 |
| GO | oxidation reduction | 44 | 515 | 0.0741864 | 1559 | cytochrome P450, family 2, subfamily C, polypeptide 9 |
| GO | oxidation reduction | 44 | 515 | 0.0741864 | 1571 | cytochrome P450, family 2, subfamily E, polypeptide 1 |
| GO | oxidation reduction | 44 | 515 | 0.0741864 | 157506 | retinol dehydrogenase 10 (all-trans) |
| GO | oxidation reduction | 44 | 515 | 0.0741864 | 195814 | short chain dehydrogenase/reductase family 16C, member 5 |
| GO | oxidation reduction | 44 | 515 | 0.0741864 | 2153 | coagulation factor V (proaccelerin, labile factor) |
| GO | oxidation reduction | 44 | 515 | 0.0741864 | 23081 | lysine (K)-specific demethylase 4C |
| GO | oxidation reduction | 44 | 515 | 0.0741864 | 240 | arachidonate 5-lipoxygenase |

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|---|---|---|---|---|---|---|
| GO | oxidation reduction | 44 | 515 | 0.0741864 | 254295 | phytanoyl-CoA dioxygenase domain containing 1 |
| GO | oxidation reduction | 44 | 515 | 0.0741864 | 27035 | NADPH oxidase 1 |
| GO | oxidation reduction | 44 | 515 | 0.0741864 | 316 | aldehyde oxidase 1 |
| GO | oxidation reduction | 44 | 515 | 0.0741864 | 3294 | hydroxysteroid (17-beta) dehydrogenase 2 |
| GO | oxidation reduction | 44 | 515 | 0.0741864 | 345275 | hydroxysteroid (17-beta) dehydrogenase 13 |
| GO | oxidation reduction | 44 | 515 | 0.0741864 | 35 | acyl-Coenzyme A dehydrogenase, C-2 to C-3 short chain |
| GO | oxidation reduction | 44 | 515 | 0.0741864 | 4015 | lysyl oxidase |
| GO | oxidation reduction | 44 | 515 | 0.0741864 | 4128 | monoamine oxidase A |
| GO | oxidation reduction | 44 | 515 | 0.0741864 | 4129 | monoamine oxidase B |
| GO | oxidation reduction | 44 | 515 | 0.0741864 | 4524 | 5,10-methylenetetrahydrofolate reductase (NADPH) |
| GO | oxidation reduction | 44 | 515 | 0.0741864 | 4842 | nitric oxide synthase 1 (neuronal) |
| GO | oxidation reduction | 44 | 515 | 0.0741864 | 5053 | phenylalanine hydroxylase |
| GO | oxidation reduction | 44 | 515 | 0.0741864 | 5066 | peptidylglycine alpha-amidating monooxygenase |
| GO | oxidation reduction | 44 | 515 | 0.0741864 | 5351 | procollagen-lysine 1, 2-oxoglutarate 5-dioxygenase 1 |
| GO | oxidation reduction | 44 | 515 | 0.0741864 | 54681 | prolyl 4-hydroxylase, transmembrane (endoplasmic reticulum) |
| GO | oxidation reduction | 44 | 515 | 0.0741864 | 55693 | lysine (K)-specific demethylase 4D |
| GO | oxidation reduction | 44 | 515 | 0.0741864 | 5742 | prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase a |
| GO | oxidation reduction | 44 | 515 | 0.0741864 | 5768 | quiescin Q6 sulfhydryl oxidase 1 |
| GO | oxidation reduction | 44 | 515 | 0.0741864 | 59344 | arachidonate lipoxygenase 3 |
| GO | oxidation reduction | 44 | 515 | 0.0741864 | 622 | 3-hydroxybutyrate dehydrogenase, type 1 |
| GO | oxidation reduction | 44 | 515 | 0.0741864 | 64359 | nucleoredoxin |
| GO | oxidation reduction | 44 | 515 | 0.0741864 | 6916 | thromboxane A synthase 1 (platelet) |
| GO | oxidation reduction | 44 | 515 | 0.0741864 | 7001 | peroxiredoxin 2 |
| GO | oxidation reduction | 44 | 515 | 0.0741864 | 7404 | ubiquitously transcribed tetratricopeptide repeat gene, Y-linked |
| GO | oxidation reduction | 44 | 515 | 0.0741864 | 79689 | STEAP family member 4 |
| GO | oxidation reduction | 44 | 515 | 0.0741864 | 84171 | lysyl oxidase-like 4 |
| GO | oxidation reduction | 44 | 515 | 0.0741864 | 8418 | cytidine monophosphate-N-acetylneuraminic acid hydroxylase (CMP-N |
| GO | oxidation reduction | 44 | 515 | 0.0741864 | 84795 | pyridine nucleotide-disulphide oxidoreductase domain 2 |
| GO | oxidation reduction | 44 | 515 | 0.0741864 | 8514 | potassium voltage-gated channel, shaker-related subfamily, beta mem |
| GO | oxidation reduction | 44 | 515 | 0.0741864 | 9563 | hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase) |
| GO | ubiquitin protein ligase binding | 6 | 44 | 0.0772264 | 10221 | tribbles homolog 1 (Drosophila) |
| GO | ubiquitin protein ligase binding | 6 | 44 | 0.0772264 | 28951 | tribbles homolog 2 (Drosophila) |
| GO | ubiquitin protein ligase binding | 6 | 44 | 0.0772264 | 4087 | SMAD family member 2 |
| GO | ubiquitin protein ligase binding | 6 | 44 | 0.0772264 | 4792 | nuclear factor of kappa light polypeptide gene enhancer in B-cells inhik |
| GO | ubiquitin protein ligase binding | 6 | 44 | 0.0772264 | 5371 | promyelocytic leukemia |
| GO | ubiquitin protein ligase binding | 6 | 44 | 0.0772264 | 91 | activin A receptor, type IB |

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|---|---|---|---|---|---|---|
| GO | drug binding | 6 | 44 | 0.0772264 | 154 | adrenergic, beta-2-, receptor, surface |
| GO | drug binding | 6 | 44 | 0.0772264 | 1559 | cytochrome P450, family 2, subfamily C, polypeptide 9 |
| GO | drug binding | 6 | 44 | 0.0772264 | 1813 | dopamine receptor D2 |
| GO | drug binding | 6 | 44 | 0.0772264 | 1815 | dopamine receptor D4 |
| GO | drug binding | 6 | 44 | 0.0772264 | 5025 | purinergic receptor P2X, ligand-gated ion channel, 4 |
| GO | drug binding | 6 | 44 | 0.0772264 | 5465 | peroxisome proliferator-activated receptor alpha |
| GO | hydrolase activity, acting on glycosyl | 6 | 44 | 0.0772264 | 2517 | fucosidase, alpha-L- 1, tissue |
| GO | hydrolase activity, acting on glycosyl | 6 | 44 | 0.0772264 | 3373 | hyaluronoglucosaminidase 1 |
| GO | hydrolase activity, acting on glycosyl | 6 | 44 | 0.0772264 | 4121 | mannosidase, alpha, class 1A, member 1 |
| GO | hydrolase activity, acting on glycosyl | 6 | 44 | 0.0772264 | 57134 | mannosidase, alpha, class 1C, member 1 |
| GO | hydrolase activity, acting on glycosyl | 6 | 44 | 0.0772264 | 79661 | nei endonuclease VIII-like 1 (E. coli) |
| GO | hydrolase activity, acting on glycosyl | 6 | 44 | 0.0772264 | 952 | CD38 molecule |
| GO | response to interleukin-1 | 4 | 24 | 0.0773606 | 11213 | interleukin-1 receptor-associated kinase 3 |
| GO | response to interleukin-1 | 4 | 24 | 0.0773606 | 5122 | proprotein convertase subtilisin/kexin type 1 |
| GO | response to interleukin-1 | 4 | 24 | 0.0773606 | 6622 | synuclein, alpha (non A4 component of amyloid precursor) |
| GO | response to interleukin-1 | 4 | 24 | 0.0773606 | 952 | CD38 molecule |
| GO | defense response to Gram-positive b | 4 | 24 | 0.0773606 | 3569 | interleukin 6 (interferon, beta 2) |
| GO | defense response to Gram-positive b | 4 | 24 | 0.0773606 | 3570 | interleukin 6 receptor |
| GO | defense response to Gram-positive b | 4 | 24 | 0.0773606 | 64127 | nucleotide-binding oligomerization domain containing 2 |
| GO | defense response to Gram-positive b | 4 | 24 | 0.0773606 | 7097 | toll-like receptor 2 |
| GO | response to metal ion | 2 | 7 | 0.0778892 | 10397 | N-myc downstream regulated 1 |
| GO | response to metal ion | 2 | 7 | 0.0778892 | 9633 | metallothionein-like 5, testis-specific (tesmin) |
| GO | positive regulation of ossification | 2 | 7 | 0.0778892 | 10766 | transducer of ERBB2, 2 |
| GO | positive regulation of ossification | 2 | 7 | 0.0778892 | 652 | bone morphogenetic protein 4 |
| GO | chitin catabolic process | 2 | 7 | 0.0778892 | 1117 | chitinase 3-like 2 |
| GO | chitin catabolic process | 2 | 7 | 0.0778892 | 5016 | oviductal glycoprotein 1, 120kDa |
| GO | chitinase activity | 2 | 7 | 0.0778892 | 1117 | chitinase 3-like 2 |
| GO | chitinase activity | 2 | 7 | 0.0778892 | 5016 | oviductal glycoprotein 1, 120kDa |
| GO | retinoic acid binding | 2 | 7 | 0.0778892 | 1382 | cellular retinoic acid binding protein 2 |
| GO | retinoic acid binding | 2 | 7 | 0.0778892 | 7026 | nuclear receptor subfamily 2, group F, member 2 |
| GO | axon regeneration | 2 | 7 | 0.0778892 | 1462 | versican |
| GO | axon regeneration | 2 | 7 | 0.0778892 | 6256 | retinoid X receptor, alpha |
| GO | fibril organization | 2 | 7 | 0.0778892 | 1471 | cystatin C |
| GO | fibril organization | 2 | 7 | 0.0778892 | 4586 | mucin 5AC, oligomeric mucus/gel-forming |
| GO | dopamine binding | 2 | 7 | 0.0778892 | 154 | adrenergic, beta-2-, receptor, surface |
| GO | dopamine binding | 2 | 7 | 0.0778892 | 1815 | dopamine receptor D4 |

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|---|---|---|---|---|---|---|
| GO | negative regulation of peptidyl-serine | 2 | 7 | 0.0778892 | 154043 | CNKSR family member 3 |
| GO | negative regulation of peptidyl-serine | 2 | 7 | 0.0778892 | 51085 | MLX interacting protein-like |
| GO | exogenous drug catabolic process | 2 | 7 | 0.0778892 | 1558 | cytochrome P450, family 2, subfamily C, polypeptide 8 |
| GO | exogenous drug catabolic process | 2 | 7 | 0.0778892 | 1559 | cytochrome P450, family 2, subfamily C, polypeptide 9 |
| GO | negative regulation of cAMP biosynth | 2 | 7 | 0.0778892 | 1815 | dopamine receptor D4 |
| GO | negative regulation of cAMP biosynth | 2 | 7 | 0.0778892 | 1906 | endothelin 1 |
| GO | smooth muscle cell differentiation | 2 | 7 | 0.0778892 | 183 | angiotensinogen (serpin peptidase inhibitor, clade A, member 8) |
| GO | smooth muscle cell differentiation | 2 | 7 | 0.0778892 | 54361 | wingless-type MMTV integration site family, member 4 |
| GO | detection of light stimulus involved i | 2 | 7 | 0.0778892 | 195814 | short chain dehydrogenase/reductase family 16C, member 5 |
| GO | detection of light stimulus involved i | 2 | 7 | 0.0778892 | 5950 | retinol binding protein 4, plasma |
| GO | bHLH transcription factor binding | 2 | 7 | 0.0778892 | 2033 | E1A binding protein p300 |
| GO | bHLH transcription factor binding | 2 | 7 | 0.0778892 | 429 | achaete-scute complex homolog 1 (Drosophila) |
| GO | embryonic process involved in female | 2 | 7 | 0.0778892 | 2182 | acyl-CoA synthetase long-chain family member 4 |
| GO | embryonic process involved in female | 2 | 7 | 0.0778892 | 3726 | jun B proto-oncogene |
| GO | central nervous system neuron devel | 2 | 7 | 0.0778892 | 2290 | forkhead box G1 |
| GO | central nervous system neuron devel | 2 | 7 | 0.0778892 | 429 | achaete-scute complex homolog 1 (Drosophila) |
| GO | negative regulation of T cell receptor | 2 | 7 | 0.0778892 | 26191 | protein tyrosine phosphatase, non-receptor type 22 (lymphoid) |
| GO | negative regulation of T cell receptor | 2 | 7 | 0.0778892 | 53347 | ubiquitin associated and SH3 domain containing, A |
| GO | cellular homeostasis | 2 | 7 | 0.0778892 | 358 | aquaporin 1 (Colton blood group) |
| GO | cellular homeostasis | 2 | 7 | 0.0778892 | 4170 | myeloid cell leukemia sequence 1 (BCL2-related) |
| GO | pancreatic juice secretion | 2 | 7 | 0.0778892 | 358 | aquaporin 1 (Colton blood group) |
| GO | pancreatic juice secretion | 2 | 7 | 0.0778892 | 6343 | secretin |
| GO | positive regulation of interleukin-12 | 2 | 7 | 0.0778892 | 3659 | interferon regulatory factor 1 |
| GO | positive regulation of interleukin-12 | 2 | 7 | 0.0778892 | 7099 | toll-like receptor 4 |
| GO | wound healing, spreading of epiderm | 2 | 7 | 0.0778892 | 3678 | integrin, alpha 5 (fibronectin receptor, alpha polypeptide) |
| GO | wound healing, spreading of epiderm | 2 | 7 | 0.0778892 | 94 | activin A receptor type II-like 1 |
| GO | positive regulation of Notch signaling | 2 | 7 | 0.0778892 | 3815 | v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog |
| GO | positive regulation of Notch signaling | 2 | 7 | 0.0778892 | 429 | achaete-scute complex homolog 1 (Drosophila) |
| GO | response to selenium ion | 2 | 7 | 0.0778892 | 4129 | monoamine oxidase B |
| GO | response to selenium ion | 2 | 7 | 0.0778892 | 6256 | retinoid X receptor, alpha |
| GO | negative regulation of myoblast diffe | 2 | 7 | 0.0778892 | 4851 | Notch homolog 1, translocation-associated (Drosophila) |
| GO | negative regulation of myoblast diffe | 2 | 7 | 0.0778892 | 652 | bone morphogenetic protein 4 |
| GO | negative regulation of synaptic trans | 2 | 7 | 0.0778892 | 4889 | neuropeptide Y receptor Y5 |
| GO | negative regulation of synaptic trans | 2 | 7 | 0.0778892 | 6812 | syntaxin binding protein 1 |
| GO | aggresome | 2 | 7 | 0.0778892 | 5071 | Parkinson disease (autosomal recessive, juvenile) 2, parkin |
| GO | aggresome | 2 | 7 | 0.0778892 | 79092 | caspase recruitment domain family, member 14 |

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|---|---|---|---|---|---|---|
| GO | 3',5'-cyclic-GMP phosphodiesterase a | 2 | 7 | 0.0778892 | 5152 | phosphodiesterase 9A |
| GO | 3',5'-cyclic-GMP phosphodiesterase a | 2 | 7 | 0.0778892 | 5158 | phosphodiesterase 6B, cGMP-specific, rod, beta |
| GO | phototransduction, visible light | 2 | 7 | 0.0778892 | 5158 | phosphodiesterase 6B, cGMP-specific, rod, beta |
| GO | phototransduction, visible light | 2 | 7 | 0.0778892 | 6101 | retinitis pigmentosa 1 (autosomal dominant) |
| GO | chromatoid body | 2 | 7 | 0.0778892 | 55124 | piwi-like 2 (Drosophila) |
| GO | chromatoid body | 2 | 7 | 0.0778892 | 9271 | piwi-like 1 (Drosophila) |
| GO | CARD domain binding | 2 | 7 | 0.0778892 | 64127 | nucleotide-binding oligomerization domain containing 2 |
| GO | CARD domain binding | 2 | 7 | 0.0778892 | 79092 | caspase recruitment domain family, member 14 |
| GO | negative regulation of interferon-gan | 2 | 7 | 0.0778892 | 64127 | nucleotide-binding oligomerization domain containing 2 |
| GO | negative regulation of interferon-gan | 2 | 7 | 0.0778892 | 7099 | toll-like receptor 4 |
| GO | hyperosmotic response | 2 | 7 | 0.0778892 | 6750 | somatostatin |
| GO | hyperosmotic response | 2 | 7 | 0.0778892 | 7098 | toll-like receptor 3 |
| GO | positive regulation of chemokine bios | 2 | 7 | 0.0778892 | 7098 | toll-like receptor 3 |
| GO | positive regulation of chemokine bios | 2 | 7 | 0.0778892 | 7474 | wingless-type MMTV integration site family, member 5A |
| GO | positive regulation of interferon-beta | 2 | 7 | 0.0778892 | 7098 | toll-like receptor 3 |
| GO | positive regulation of interferon-beta | 2 | 7 | 0.0778892 | 7099 | toll-like receptor 4 |
| GO | regulation of mRNA stability | 2 | 7 | 0.0778892 | 7538 | zinc finger protein 36, C3H type, homolog (mouse) |
| GO | regulation of mRNA stability | 2 | 7 | 0.0778892 | 799 | calcitonin receptor |
| GO | transmembrane receptor protein ser | 2 | 7 | 0.0778892 | 91 | activin A receptor, type IB |
| GO | transmembrane receptor protein ser | 2 | 7 | 0.0778892 | 94 | activin A receptor type II-like 1 |
| GO | response to biotic stimulus | 3 | 15 | 0.0782215 | 10410 | interferon induced transmembrane protein 3 (1-8U) |
| GO | response to biotic stimulus | 3 | 15 | 0.0782215 | 646658 | transmembrane protein 90A |
| GO | response to biotic stimulus | 3 | 15 | 0.0782215 | 8519 | interferon induced transmembrane protein 1 (9-27) |
| GO | water transport | 3 | 15 | 0.0782215 | 1080 | cystic fibrosis transmembrane conductance regulator (ATP-binding cas |
| GO | water transport | 3 | 15 | 0.0782215 | 358 | aquaporin 1 (Colton blood group) |
| GO | water transport | 3 | 15 | 0.0782215 | 6563 | solute carrier family 14 (urea transporter), member 1 (Kidd blood grou |
| GO | cellular response to heat | 3 | 15 | 0.0782215 | 113278 | chromosome 20 open reading frame 54 |
| GO | cellular response to heat | 3 | 15 | 0.0782215 | 286133 | scavenger receptor class A, member 5 (putative) |
| GO | cellular response to heat | 3 | 15 | 0.0782215 | 6489 | ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 1 |
| GO | positive regulation of phagocytosis | 3 | 15 | 0.0782215 | 2624 | GATA binding protein 2 |
| GO | positive regulation of phagocytosis | 3 | 15 | 0.0782215 | 64127 | nucleotide-binding oligomerization domain containing 2 |
| GO | positive regulation of phagocytosis | 3 | 15 | 0.0782215 | 718 | complement component 3 |
| GO | response to vitamin D | 3 | 15 | 0.0782215 | 3643 | insulin receptor |
| GO | response to vitamin D | 3 | 15 | 0.0782215 | 6256 | retinoid X receptor, alpha |
| GO | response to vitamin D | 3 | 15 | 0.0782215 | 7706 | tripartite motif-containing 25 |
| GO | polysome | 3 | 15 | 0.0782215 | 55124 | piwi-like 2 (Drosophila) |

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|---|---|---|---|---|---|---|
| GO | polysome | 3 | 15 | 0.0782215 | 8531 | cold shock domain protein A |
| GO | polysome | 3 | 15 | 0.0782215 | 9271 | piwi-like 1 (Drosophila) |
| GO | phosphatidylinositol-4,5-bisphosphat | 3 | 15 | 0.0782215 | 56288 | par-3 partitioning defective 3 homolog (C. elegans) |
| GO | phosphatidylinositol-4,5-bisphosphat | 3 | 15 | 0.0782215 | 85477 | scinderin |
| GO | phosphatidylinositol-4,5-bisphosphat | 3 | 15 | 0.0782215 | 91404 | SEC14 and spectrin domains 1 |
| GO | extrinsic to membrane | 5 | 34 | 0.0792402 | 1755 | deleted in malignant brain tumors 1 |
| GO | extrinsic to membrane | 5 | 34 | 0.0792402 | 257019 | FERM domain containing 3 |
| GO | extrinsic to membrane | 5 | 34 | 0.0792402 | 29116 | myosin regulatory light chain interacting protein |
| GO | extrinsic to membrane | 5 | 34 | 0.0792402 | 5774 | protein tyrosine phosphatase, non-receptor type 3 |
| GO | extrinsic to membrane | 5 | 34 | 0.0792402 | 94025 | mucin 16, cell surface associated |
| GO | perikaryon | 5 | 34 | 0.0792402 | 2026 | enolase 2 (gamma, neuronal) |
| GO | perikaryon | 5 | 34 | 0.0792402 | 4692 | necdin homolog (mouse) |
| GO | perikaryon | 5 | 34 | 0.0792402 | 5152 | phosphodiesterase 9A |
| GO | perikaryon | 5 | 34 | 0.0792402 | 885 | cholecystokinin |
| GO | perikaryon | 5 | 34 | 0.0792402 | 8912 | calcium channel, voltage-dependent, T type, alpha 1H subunit |
| GO | lipid transport | 8 | 66 | 0.0798135 | 2055 | ceroid-lipofuscinosis, neuronal 8 (epilepsy, progressive with mental ret |
| GO | lipid transport | 8 | 66 | 0.0798135 | 23780 | apolipoprotein L, 2 |
| GO | lipid transport | 8 | 66 | 0.0798135 | 3949 | low density lipoprotein receptor |
| GO | lipid transport | 8 | 66 | 0.0798135 | 6653 | sortilin-related receptor, L(DLR class) A repeats-containing |
| GO | lipid transport | 8 | 66 | 0.0798135 | 80830 | apolipoprotein L, 6 |
| GO | lipid transport | 8 | 66 | 0.0798135 | 80833 | apolipoprotein L, 3 |
| GO | lipid transport | 8 | 66 | 0.0798135 | 8542 | apolipoprotein L, 1 |
| GO | lipid transport | 8 | 66 | 0.0798135 | 9619 | ATP-binding cassette, sub-family G (WHITE), member 1 |
| GO | anatomical structure morphogenesis | 11 | 101 | 0.083773 | 10205 | myelin protein zero-like 2 |
| GO | anatomical structure morphogenesis | 11 | 101 | 0.083773 | 1368 | carboxypeptidase M |
| GO | anatomical structure morphogenesis | 11 | 101 | 0.083773 | 1948 | ephrin-B2 |
| GO | anatomical structure morphogenesis | 11 | 101 | 0.083773 | 1999 | E74-like factor 3 (ets domain transcription factor, epithelial-specific ) |
| GO | anatomical structure morphogenesis | 11 | 101 | 0.083773 | 2201 | fibrillin 2 |
| GO | anatomical structure morphogenesis | 11 | 101 | 0.083773 | 2239 | glypican 4 |
| GO | anatomical structure morphogenesis | 11 | 101 | 0.083773 | 3175 | one cut homeobox 1 |
| GO | anatomical structure morphogenesis | 11 | 101 | 0.083773 | 3491 | cysteine-rich, angiogenic inducer, 61 |
| GO | anatomical structure morphogenesis | 11 | 101 | 0.083773 | 51085 | MLX interacting protein-like |
| GO | anatomical structure morphogenesis | 11 | 101 | 0.083773 | 5307 | paired-like homeodomain 1 |
| GO | anatomical structure morphogenesis | 11 | 101 | 0.083773 | 5460 | POU class 5 homeobox 1 |
| GO | glucose homeostasis | 6 | 45 | 0.084217 | 222546 | regulatory factor X, 6 |
| GO | glucose homeostasis | 6 | 45 | 0.084217 | 3169 | forkhead box A1 |

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|---|---|---|---|---|---|---|
| GO | glucose homeostasis | 6 | 45 | 0.084217 | 3643 | insulin receptor |
| GO | glucose homeostasis | 6 | 45 | 0.084217 | 51085 | MLX interacting protein-like |
| GO | glucose homeostasis | 6 | 45 | 0.084217 | 5367 | pro-melanin-concentrating hormone |
| GO | glucose homeostasis | 6 | 45 | 0.084217 | 5950 | retinol binding protein 4, plasma |
| GO | GTPase activity | 19 | 198 | 0.0845246 | 1785 | dynamin 2 |
| GO | GTPase activity | 19 | 198 | 0.0845246 | 1915 | eukaryotic translation elongation factor 1 alpha 1 |
| GO | GTPase activity | 19 | 198 | 0.0845246 | 1983 | eukaryotic translation initiation factor 5 |
| GO | GTPase activity | 19 | 198 | 0.0845246 | 23682 | RAB38, member RAS oncogene family |
| GO | GTPase activity | 19 | 198 | 0.0845246 | 2633 | guanylate binding protein 1, interferon-inducible, 67kDa |
| GO | GTPase activity | 19 | 198 | 0.0845246 | 2634 | guanylate binding protein 2, interferon-inducible |
| GO | GTPase activity | 19 | 198 | 0.0845246 | 2635 | guanylate binding protein 3 |
| GO | GTPase activity | 19 | 198 | 0.0845246 | 2769 | guanine nucleotide binding protein (G protein), alpha 15 (Gq class) |
| GO | GTPase activity | 19 | 198 | 0.0845246 | 379 | ADP-ribosylation factor-like 4D |
| GO | GTPase activity | 19 | 198 | 0.0845246 | 3845 | v-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog |
| GO | GTPase activity | 19 | 198 | 0.0845246 | 387496 | RAS-like, family 11, member A |
| GO | GTPase activity | 19 | 198 | 0.0845246 | 4599 | myxovirus (influenza virus) resistance 1, interferon-inducible protein p |
| GO | GTPase activity | 19 | 198 | 0.0845246 | 4600 | myxovirus (influenza virus) resistance 2 (mouse) |
| GO | GTPase activity | 19 | 198 | 0.0845246 | 51285 | RAS-like, family 12 |
| GO | GTPase activity | 19 | 198 | 0.0845246 | 51655 | RAS, dexamethasone-induced 1 |
| GO | GTPase activity | 19 | 198 | 0.0845246 | 54769 | DIRAS family, GTP-binding RAS-like 2 |
| GO | GTPase activity | 19 | 198 | 0.0845246 | 5873 | RAB27A, member RAS oncogene family |
| GO | GTPase activity | 19 | 198 | 0.0845246 | 85004 | RAS-like, estrogen-regulated, growth inhibitor |
| GO | GTPase activity | 19 | 198 | 0.0845246 | 9567 | GTP binding protein 1 |
| GO | epidermal growth factor receptor sig | 4 | 25 | 0.0873408 | 1839 | heparin-binding EGF-like growth factor |
| GO | epidermal growth factor receptor sig | 4 | 25 | 0.0873408 | 819 | calcium modulating ligand |
| GO | epidermal growth factor receptor sig | 4 | 25 | 0.0873408 | 8527 | diacylglycerol kinase, delta 130kDa |
| GO | epidermal growth factor receptor sig | 4 | 25 | 0.0873408 | 9185 | RALBP1 associated Eps domain containing 2 |
| GO | mammary gland development | 4 | 25 | 0.0873408 | 2066 | v-erb-a erythroblastic leukemia viral oncogene homolog 4 (avian) |
| GO | mammary gland development | 4 | 25 | 0.0873408 | 2737 | GLI family zinc finger 3 |
| GO | mammary gland development | 4 | 25 | 0.0873408 | 3479 | insulin-like growth factor 1 (somatomedin C) |
| GO | mammary gland development | 4 | 25 | 0.0873408 | 8660 | insulin receptor substrate 2 |
| GO | skeletal system morphogenesis | 4 | 25 | 0.0873408 | 29123 | ankyrin repeat domain 11 |
| GO | skeletal system morphogenesis | 4 | 25 | 0.0873408 | 64651 | cysteine-serine-rich nuclear protein 1 |
| GO | skeletal system morphogenesis | 4 | 25 | 0.0873408 | 84159 | AT rich interactive domain 5B (MRF1-like) |
| GO | skeletal system morphogenesis | 4 | 25 | 0.0873408 | 9496 | T-box 4 |
| GO | feeding behavior | 4 | 25 | 0.0873408 | 4886 | neuropeptide Y receptor Y1 |

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| GO | feeding behavior | 4 | 25 | 0.0873408 | 5367 | pro-melanin-concentrating hormone |
| GO | feeding behavior | 4 | 25 | 0.0873408 | 56923 | neuromedin U receptor 2 |
| GO | feeding behavior | 4 | 25 | 0.0873408 | 627 | brain-derived neurotrophic factor |
| GO | positive regulation of B cell proliferat | 4 | 25 | 0.0873408 | 604 | B-cell CLL/lymphoma 6 |
| GO | positive regulation of B cell proliferat | 4 | 25 | 0.0873408 | 7099 | toll-like receptor 4 |
| GO | positive regulation of B cell proliferat | 4 | 25 | 0.0873408 | 8660 | insulin receptor substrate 2 |
| GO | positive regulation of B cell proliferat | 4 | 25 | 0.0873408 | 952 | CD38 molecule |
| GO | positive regulation of protein amino a | 5 | 35 | 0.0875028 | 2033 | E1A binding protein p300 |
| GO | positive regulation of protein amino a | 5 | 35 | 0.0875028 | 3643 | insulin receptor |
| GO | positive regulation of protein amino a | 5 | 35 | 0.0875028 | 55600 | intelectin 1 (galactofuranose binding) |
| GO | positive regulation of protein amino a | 5 | 35 | 0.0875028 | 652 | bone morphogenetic protein 4 |
| GO | positive regulation of protein amino a | 5 | 35 | 0.0875028 | 79092 | caspase recruitment domain family, member 14 |
| GO | steroid metabolic process | 8 | 68 | 0.0914049 | 1559 | cytochrome P450, family 2, subfamily C, polypeptide 9 |
| GO | steroid metabolic process | 8 | 68 | 0.0914049 | 1571 | cytochrome P450, family 2, subfamily E, polypeptide 1 |
| GO | steroid metabolic process | 8 | 68 | 0.0914049 | 1577 | cytochrome P450, family 3, subfamily A, polypeptide 5 |
| GO | steroid metabolic process | 8 | 68 | 0.0914049 | 255738 | proprotein convertase subtilisin/kexin type 9 |
| GO | steroid metabolic process | 8 | 68 | 0.0914049 | 26119 | low density lipoprotein receptor adaptor protein 1 |
| GO | steroid metabolic process | 8 | 68 | 0.0914049 | 3949 | low density lipoprotein receptor |
| GO | steroid metabolic process | 8 | 68 | 0.0914049 | 6653 | sortilin-related receptor, L(DLR class) A repeats-containing |
| GO | steroid metabolic process | 8 | 68 | 0.0914049 | 8542 | apolipoprotein L, 1 |
| GO | regulation of small GTPase mediated | 6 | 46 | 0.0915452 | 10156 | RAS p21 protein activator 4 |
| GO | regulation of small GTPase mediated | 6 | 46 | 0.0915452 | 23179 | ral guanine nucleotide dissociation stimulator-like 1 |
| GO | regulation of small GTPase mediated | 6 | 46 | 0.0915452 | 57139 | ral guanine nucleotide dissociation stimulator-like 3 |
| GO | regulation of small GTPase mediated | 6 | 46 | 0.0915452 | 57186 | Ral GTPase activating protein, alpha subunit 2 (catalytic) |
| GO | regulation of small GTPase mediated | 6 | 46 | 0.0915452 | 5900 | ral guanine nucleotide dissociation stimulator |
| GO | regulation of small GTPase mediated | 6 | 46 | 0.0915452 | 6494 | signal-induced proliferation-associated 1 |
| GO | carbonate dehydratase activity | 3 | 16 | 0.0915718 | 11238 | carbonic anhydrase VB, mitochondrial |
| GO | carbonate dehydratase activity | 3 | 16 | 0.0915718 | 760 | carbonic anhydrase II |
| GO | carbonate dehydratase activity | 3 | 16 | 0.0915718 | 771 | carbonic anhydrase XII |
| GO | glycosaminoglycan binding | 3 | 16 | 0.0915718 | 1462 | versican |
| GO | glycosaminoglycan binding | 3 | 16 | 0.0915718 | 50859 | sparc/osteonectin, cwcv and kazal-like domains proteoglycan (testican) |
| GO | glycosaminoglycan binding | 3 | 16 | 0.0915718 | 7049 | transforming growth factor, beta receptor III |
| GO | negative regulation of blood pressure | 3 | 16 | 0.0915718 | 1813 | dopamine receptor D2 |
| GO | negative regulation of blood pressure | 3 | 16 | 0.0915718 | 5367 | pro-melanin-concentrating hormone |
| GO | negative regulation of blood pressure | 3 | 16 | 0.0915718 | 5465 | peroxisome proliferator-activated receptor alpha |
| GO | antigen binding | 3 | 16 | 0.0915718 | 2033 | E1A binding protein p300 |

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| GO | antigen binding | 3 | 16 | 0.0915718 | 3512 | immunoglobulin J polypeptide, linker protein for immunoglobulin alph |
| GO | antigen binding | 3 | 16 | 0.0915718 | 8631 | src kinase associated phosphoprotein 1 |
| GO | neurogenesis | 3 | 16 | 0.0915718 | 255738 | proprotein convertase subtilisin/kexin type 9 |
| GO | neurogenesis | 3 | 16 | 0.0915718 | 429 | achaete-scute complex homolog 1 (Drosophila) |
| GO | neurogenesis | 3 | 16 | 0.0915718 | 5122 | proprotein convertase subtilisin/kexin type 1 |
| GO | carbohydrate binding | 3 | 16 | 0.0915718 | 26270 | F-box protein 6 |
| GO | carbohydrate binding | 3 | 16 | 0.0915718 | 56261 | glycerophosphocholine phosphodiesterase GDE1 homolog (S. cerevisia |
| GO | carbohydrate binding | 3 | 16 | 0.0915718 | 6402 | selectin L |
| GO | gap junction | 3 | 16 | 0.0915718 | 2707 | gap junction protein, beta 3, 31kDa |
| GO | gap junction | 3 | 16 | 0.0915718 | 8531 | cold shock domain protein A |
| GO | gap junction | 3 | 16 | 0.0915718 | 9414 | tight junction protein 2 (zona occludens 2) |
| GO | neuron fate commitment | 3 | 16 | 0.0915718 | 2737 | GLI family zinc finger 3 |
| GO | neuron fate commitment | 3 | 16 | 0.0915718 | 4851 | Notch homolog 1, translocation-associated (Drosophila) |
| GO | neuron fate commitment | 3 | 16 | 0.0915718 | 652 | bone morphogenetic protein 4 |
| GO | negative regulation of protein amino | 3 | 16 | 0.0915718 | 3486 | insulin-like growth factor binding protein 3 |
| GO | negative regulation of protein amino | 3 | 16 | 0.0915718 | 3643 | insulin receptor |
| GO | negative regulation of protein amino | 3 | 16 | 0.0915718 | 5071 | Parkinson disease (autosomal recessive, juvenile) 2, parkin |
| GO | negative regulation of endothelial cel | 3 | 16 | 0.0915718 | 498 | ATP synthase, H+ transporting, mitochondrial F1 complex, alpha subun |
| GO | negative regulation of endothelial cel | 3 | 16 | 0.0915718 | 7026 | nuclear receptor subfamily 2, group F, member 2 |
| GO | negative regulation of endothelial cel | 3 | 16 | 0.0915718 | 9966 | tumor necrosis factor (ligand) superfamily, member 15 |
| GO | regulation of cell growth | 7 | 57 | 0.0923766 | 1154 | cytokine inducible SH2-containing protein |
| GO | regulation of cell growth | 7 | 57 | 0.0923766 | 183 | angiotensinogen (serpin peptidase inhibitor, clade A, member 8) |
| GO | regulation of cell growth | 7 | 57 | 0.0923766 | 3486 | insulin-like growth factor binding protein 3 |
| GO | regulation of cell growth | 7 | 57 | 0.0923766 | 3488 | insulin-like growth factor binding protein 5 |
| GO | regulation of cell growth | 7 | 57 | 0.0923766 | 3491 | cysteine-rich, angiogenic inducer, 61 |
| GO | regulation of cell growth | 7 | 57 | 0.0923766 | 4856 | nephroblastoma overexpressed gene |
| GO | regulation of cell growth | 7 | 57 | 0.0923766 | 8839 | WNT1 inducible signaling pathway protein 2 |
| GO | liver development | 7 | 57 | 0.0923766 | 2033 | E1A binding protein p300 |
| GO | liver development | 7 | 57 | 0.0923766 | 255738 | proprotein convertase subtilisin/kexin type 9 |
| GO | liver development | 7 | 57 | 0.0923766 | 3142 | H2.0-like homeobox |
| GO | liver development | 7 | 57 | 0.0923766 | 3175 | one cut homeobox 1 |
| GO | liver development | 7 | 57 | 0.0923766 | 4851 | Notch homolog 1, translocation-associated (Drosophila) |
| GO | liver development | 7 | 57 | 0.0923766 | 6256 | retinoid X receptor, alpha |
| GO | liver development | 7 | 57 | 0.0923766 | 7049 | transforming growth factor, beta receptor III |
| GO | ion channel activity | 15 | 151 | 0.0927128 | 1080 | cystic fibrosis transmembrane conductance regulator (ATP-binding cas |
| GO | ion channel activity | 15 | 151 | 0.0927128 | 1139 | cholinergic receptor, nicotinic, alpha 7 |

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| GO | ion channel activity | 15 | 151 | 0.0927128 | 2564 | gamma-aminobutyric acid (GABA) A receptor, epsilon |
| GO | ion channel activity | 15 | 151 | 0.0927128 | 266675 | bestrophin 4 |
| GO | ion channel activity | 15 | 151 | 0.0927128 | 27345 | potassium large conductance calcium-activated channel, subfamily M, |
| GO | ion channel activity | 15 | 151 | 0.0927128 | 343450 | potassium channel, subfamily T, member 2 |
| GO | ion channel activity | 15 | 151 | 0.0927128 | 3709 | inositol 1,4,5-triphosphate receptor, type 2 |
| GO | ion channel activity | 15 | 151 | 0.0927128 | 3782 | potassium intermediate/small conductance calcium-activated channel, |
| GO | ion channel activity | 15 | 151 | 0.0927128 | 3783 | potassium intermediate/small conductance calcium-activated channel, |
| GO | ion channel activity | 15 | 151 | 0.0927128 | 5025 | purinergic receptor P2X, ligand-gated ion channel, 4 |
| GO | ion channel activity | 15 | 151 | 0.0927128 | 5349 | FXYD domain containing ion transport regulator 3 |
| GO | ion channel activity | 15 | 151 | 0.0927128 | 53827 | FXYD domain containing ion transport regulator 5 |
| GO | ion channel activity | 15 | 151 | 0.0927128 | 63982 | anoctamin 3 |
| GO | ion channel activity | 15 | 151 | 0.0927128 | 7223 | transient receptor potential cation channel, subfamily C, member 4 |
| GO | ion channel activity | 15 | 151 | 0.0927128 | 8973 | cholinergic receptor, nicotinic, alpha 6 |
| GO | calcium ion binding | 50 | 605 | 0.0935166 | 1004 | cadherin 6, type 2, K-cadherin (fetal kidney) |
| GO | calcium ion binding | 50 | 605 | 0.0935166 | 10085 | EGF-like repeats and discoidin I-like domains 3 |
| GO | calcium ion binding | 50 | 605 | 0.0935166 | 1009 | cadherin 11, type 2, OB-cadherin (osteoblast) |
| GO | calcium ion binding | 50 | 605 | 0.0935166 | 1014 | cadherin 16, KSP-cadherin |
| GO | calcium ion binding | 50 | 605 | 0.0935166 | 1016 | cadherin 18, type 2 |
| GO | calcium ion binding | 50 | 605 | 0.0935166 | 10516 | fibulin 5 |
| GO | calcium ion binding | 50 | 605 | 0.0935166 | 11199 | annexin A10 |
| GO | calcium ion binding | 50 | 605 | 0.0935166 | 126638 | repetin |
| GO | calcium ion binding | 50 | 605 | 0.0935166 | 1462 | versican |
| GO | calcium ion binding | 50 | 605 | 0.0935166 | 1821 | dystrophin related protein 2 |
| GO | calcium ion binding | 50 | 605 | 0.0935166 | 1953 | multiple EGF-like-domains 6 |
| GO | calcium ion binding | 50 | 605 | 0.0935166 | 2015 | egf-like module containing, mucin-like, hormone receptor-like 1 |
| GO | calcium ion binding | 50 | 605 | 0.0935166 | 2200 | fibrillin 1 |
| GO | calcium ion binding | 50 | 605 | 0.0935166 | 2201 | fibrillin 2 |
| GO | calcium ion binding | 50 | 605 | 0.0935166 | 22795 | nidogen 2 (osteonidogen) |
| GO | calcium ion binding | 50 | 605 | 0.0935166 | 23208 | synaptotagmin XI |
| GO | calcium ion binding | 50 | 605 | 0.0935166 | 23418 | crumbs homolog 1 (Drosophila) |
| GO | calcium ion binding | 50 | 605 | 0.0935166 | 255743 | nephronectin |
| GO | calcium ion binding | 50 | 605 | 0.0935166 | 29943 | peptidyl arginine deiminase, type I |
| GO | calcium ion binding | 50 | 605 | 0.0935166 | 30008 | EGF-containing fibulin-like extracellular matrix protein 2 |
| GO | calcium ion binding | 50 | 605 | 0.0935166 | 311 | annexin A11 |
| GO | calcium ion binding | 50 | 605 | 0.0935166 | 388743 | calpain 8 |
| GO | calcium ion binding | 50 | 605 | 0.0935166 | 3949 | low density lipoprotein receptor |

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| GO | calcium ion binding | 50 | 605 | 0.0935166 | 4038 | low density lipoprotein receptor-related protein 4 |
| GO | calcium ion binding | 50 | 605 | 0.0935166 | 4121 | mannosidase, alpha, class 1A, member 1 |
| GO | calcium ion binding | 50 | 605 | 0.0935166 | 4851 | Notch homolog 1, translocation-associated (Drosophila) |
| GO | calcium ion binding | 50 | 605 | 0.0935166 | 4853 | Notch homolog 2 (Drosophila) |
| GO | calcium ion binding | 50 | 605 | 0.0935166 | 50859 | sparc/osteonectin, cwcv and kazal-like domains proteoglycan (testican |
| GO | calcium ion binding | 50 | 605 | 0.0935166 | 5099 | protocadherin 7 |
| GO | calcium ion binding | 50 | 605 | 0.0935166 | 54681 | prolyl 4-hydroxylase, transmembrane (endoplasmic reticulum) |
| GO | calcium ion binding | 50 | 605 | 0.0935166 | 54947 | lysophosphatidylcholine acyltransferase 2 |
| GO | calcium ion binding | 50 | 605 | 0.0935166 | 5648 | mannan-binding lectin serine peptidase 1 (C4/C2 activating componen |
| GO | calcium ion binding | 50 | 605 | 0.0935166 | 57134 | mannosidase, alpha, class 1C, member 1 |
| GO | calcium ion binding | 50 | 605 | 0.0935166 | 57493 | HEG homolog 1 (zebrafish) |
| GO | calcium ion binding | 50 | 605 | 0.0935166 | 57620 | stromal interaction molecule 2 |
| GO | calcium ion binding | 50 | 605 | 0.0935166 | 64093 | SPARC related modular calcium binding 1 |
| GO | calcium ion binding | 50 | 605 | 0.0935166 | 6622 | synuclein, alpha (non A4 component of amyloid precursor) |
| GO | calcium ion binding | 50 | 605 | 0.0935166 | 6778 | signal transducer and activator of transcription 6, interleukin-4 induce |
| GO | calcium ion binding | 50 | 605 | 0.0935166 | 6857 | synaptotagmin I |
| GO | calcium ion binding | 50 | 605 | 0.0935166 | 7092 | tolloid-like 1 |
| GO | calcium ion binding | 50 | 605 | 0.0935166 | 715 | complement component 1, r subcomponent |
| GO | calcium ion binding | 50 | 605 | 0.0935166 | 7447 | visinin-like 1 |
| GO | calcium ion binding | 50 | 605 | 0.0935166 | 79180 | EF-hand domain family, member D2 |
| GO | calcium ion binding | 50 | 605 | 0.0935166 | 79987 | sushi, von Willebrand factor type A, EGF and pentraxin domain contain |
| GO | calcium ion binding | 50 | 605 | 0.0935166 | 80258 | EF-hand domain (C-terminal) containing 2 |
| GO | calcium ion binding | 50 | 605 | 0.0935166 | 83394 | PITPNM family member 3 |
| GO | calcium ion binding | 50 | 605 | 0.0935166 | 83872 | hemicentin 1 |
| GO | calcium ion binding | 50 | 605 | 0.0935166 | 84059 | G protein-coupled receptor 98 |
| GO | calcium ion binding | 50 | 605 | 0.0935166 | 85477 | scinderin |
| GO | calcium ion binding | 50 | 605 | 0.0935166 | 9185 | RALBP1 associated Eps domain containing 2 |
| GO | skeletal muscle tissue development | 5 | 36 | 0.0961953 | 1508 | cathepsin B |
| GO | skeletal muscle tissue development | 5 | 36 | 0.0961953 | 2033 | E1A binding protein p300 |
| GO | skeletal muscle tissue development | 5 | 36 | 0.0961953 | 3142 | H2.0-like homeobox |
| GO | skeletal muscle tissue development | 5 | 36 | 0.0961953 | 4223 | mesenchyme homeobox 2 |
| GO | skeletal muscle tissue development | 5 | 36 | 0.0961953 | 7026 | nuclear receptor subfamily 2, group F, member 2 |
| GO | ovarian follicle development | 5 | 36 | 0.0961953 | 2296 | forkhead box C1 |
| GO | ovarian follicle development | 5 | 36 | 0.0961953 | 4254 | KIT ligand |
| GO | ovarian follicle development | 5 | 36 | 0.0961953 | 652 | bone morphogenetic protein 4 |
| GO | ovarian follicle development | 5 | 36 | 0.0961953 | 726 | calpain 5 |

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| GO | ovarian follicle development | 5 | 36 | 0.0961953 | 79956 | endoplasmic reticulum metallopeptidase 1 |
| GO | insulin receptor signaling pathway | 5 | 36 | 0.0961953 | 2303 | forkhead box C2 (MFH-1, mesenchyme forkhead 1) |
| GO | insulin receptor signaling pathway | 5 | 36 | 0.0961953 | 3484 | insulin-like growth factor binding protein 1 |
| GO | insulin receptor signaling pathway | 5 | 36 | 0.0961953 | 3643 | insulin receptor |
| GO | insulin receptor signaling pathway | 5 | 36 | 0.0961953 | 5295 | phosphoinositide-3-kinase, regulatory subunit 1 (alpha) |
| GO | insulin receptor signaling pathway | 5 | 36 | 0.0961953 | 8660 | insulin receptor substrate 2 |
| GO | extracellular matrix structural constit | 8 | 69 | 0.0975449 | 2200 | fibrillin 1 |
| GO | extracellular matrix structural constit | 8 | 69 | 0.0975449 | 2201 | fibrillin 2 |
| GO | extracellular matrix structural constit | 8 | 69 | 0.0975449 | 30008 | EGF-containing fibulin-like extracellular matrix protein 2 |
| GO | extracellular matrix structural constit | 8 | 69 | 0.0975449 | 4586 | mucin 5AC, oligomeric mucus/gel-forming |
| GO | extracellular matrix structural constit | 8 | 69 | 0.0975449 | 4588 | mucin 6, oligomeric mucus/gel-forming |
| GO | extracellular matrix structural constit | 8 | 69 | 0.0975449 | 54361 | wingless-type MMTV integration site family, member 4 |
| GO | extracellular matrix structural constit | 8 | 69 | 0.0975449 | 7477 | wingless-type MMTV integration site family, member 7B |
| GO | extracellular matrix structural constit | 8 | 69 | 0.0975449 | 8076 | microfibrillar associated protein 5 |
| GO | negative regulation of apoptosis | 14 | 140 | 0.0976595 | 2055 | ceroid-lipofuscinosis, neuronal 8 (epilepsy, progressive with mental ret |
| GO | negative regulation of apoptosis | 14 | 140 | 0.0976595 | 23529 | cardiotrophin-like cytokine factor 1 |
| GO | negative regulation of apoptosis | 14 | 140 | 0.0976595 | 3569 | interleukin 6 (interferon, beta 2) |
| GO | negative regulation of apoptosis | 14 | 140 | 0.0976595 | 358 | aquaporin 1 (Colton blood group) |
| GO | negative regulation of apoptosis | 14 | 140 | 0.0976595 | 415116 | pim-3 oncogene |
| GO | negative regulation of apoptosis | 14 | 140 | 0.0976595 | 4254 | KIT ligand |
| GO | negative regulation of apoptosis | 14 | 140 | 0.0976595 | 4286 | microphthalmia-associated transcription factor |
| GO | negative regulation of apoptosis | 14 | 140 | 0.0976595 | 429 | achaete-scute complex homolog 1 (Drosophila) |
| GO | negative regulation of apoptosis | 14 | 140 | 0.0976595 | 4851 | Notch homolog 1, translocation-associated (Drosophila) |
| GO | negative regulation of apoptosis | 14 | 140 | 0.0976595 | 604 | B-cell CLL/lymphoma 6 |
| GO | negative regulation of apoptosis | 14 | 140 | 0.0976595 | 652 | bone morphogenetic protein 4 |
| GO | negative regulation of apoptosis | 14 | 140 | 0.0976595 | 7474 | wingless-type MMTV integration site family, member 5A |
| GO | negative regulation of apoptosis | 14 | 140 | 0.0976595 | 81788 | NUAK family, SNF1-like kinase, 2 |
| GO | negative regulation of apoptosis | 14 | 140 | 0.0976595 | 8531 | cold shock domain protein A |
| GO | cell differentiation | 40 | 474 | 0.0978325 | 10076 | protein tyrosine phosphatase, receptor type, U |
| GO | cell differentiation | 40 | 474 | 0.0978325 | 10507 | sema domain, immunoglobulin domain (Ig), transmembrane domain (T |
| GO | cell differentiation | 40 | 474 | 0.0978325 | 10752 | cell adhesion molecule with homology to L1CAM (close homolog of L1) |
| GO | cell differentiation | 40 | 474 | 0.0978325 | 10912 | growth arrest and DNA-damage-inducible, gamma |
| GO | cell differentiation | 40 | 474 | 0.0978325 | 10913 | ectodysplasin A receptor |
| GO | cell differentiation | 40 | 474 | 0.0978325 | 130399 | activin A receptor, type IC |
| GO | cell differentiation | 40 | 474 | 0.0978325 | 1435 | colony stimulating factor 1 (macrophage) |
| GO | cell differentiation | 40 | 474 | 0.0978325 | 143689 | piwi-like 4 (Drosophila) |

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| GO | cell differentiation | 40 | 474 | 0.0978325 | 1948 | ephrin-B2 |
| GO | cell differentiation | 40 | 474 | 0.0978325 | 2122 | MDS1 and EVI1 complex locus |
| GO | cell differentiation | 40 | 474 | 0.0978325 | 223117 | sema domain, immunoglobulin domain (Ig), short basic domain, secret |
| GO | cell differentiation | 40 | 474 | 0.0978325 | 255743 | nephronectin |
| GO | cell differentiation | 40 | 474 | 0.0978325 | 26281 | fibroblast growth factor 20 |
| GO | cell differentiation | 40 | 474 | 0.0978325 | 26468 | LIM homeobox 6 |
| GO | cell differentiation | 40 | 474 | 0.0978325 | 28959 | transmembrane protein 176B |
| GO | cell differentiation | 40 | 474 | 0.0978325 | 3142 | H2.0-like homeobox |
| GO | cell differentiation | 40 | 474 | 0.0978325 | 342035 | gliomedin |
| GO | cell differentiation | 40 | 474 | 0.0978325 | 3911 | laminin, alpha 5 |
| GO | cell differentiation | 40 | 474 | 0.0978325 | 3958 | lectin, galactoside-binding, soluble, 3 |
| GO | cell differentiation | 40 | 474 | 0.0978325 | 4170 | myeloid cell leukemia sequence 1 (BCL2-related) |
| GO | cell differentiation | 40 | 474 | 0.0978325 | 4616 | growth arrest and DNA-damage-inducible, beta |
| GO | cell differentiation | 40 | 474 | 0.0978325 | 4853 | Notch homolog 2 (Drosophila) |
| GO | cell differentiation | 40 | 474 | 0.0978325 | 4915 | neurotrophic tyrosine kinase, receptor, type 2 |
| GO | cell differentiation | 40 | 474 | 0.0978325 | 51314 | thioredoxin domain containing 3 (spermatozoa) |
| GO | cell differentiation | 40 | 474 | 0.0978325 | 5367 | pro-melanin-concentrating hormone |
| GO | cell differentiation | 40 | 474 | 0.0978325 | 54852 | progestin and adipoQ receptor family member V |
| GO | cell differentiation | 40 | 474 | 0.0978325 | 54904 | Wolf-Hirschhorn syndrome candidate 1-like 1 |
| GO | cell differentiation | 40 | 474 | 0.0978325 | 55124 | piwi-like 2 (Drosophila) |
| GO | cell differentiation | 40 | 474 | 0.0978325 | 56913 | core 1 synthase, glycoprotein-N-acetylgalactosamine 3-beta-galactosyl |
| GO | cell differentiation | 40 | 474 | 0.0978325 | 64359 | nucleoredoxin |
| GO | cell differentiation | 40 | 474 | 0.0978325 | 7092 | tolloid-like 1 |
| GO | cell differentiation | 40 | 474 | 0.0978325 | 7546 | Zic family member 2 (odd-paired homolog, Drosophila) |
| GO | cell differentiation | 40 | 474 | 0.0978325 | 79820 | cation channel, sperm-associated, beta |
| GO | cell differentiation | 40 | 474 | 0.0978325 | 83890 | spermatogenesis associated 9 |
| GO | cell differentiation | 40 | 474 | 0.0978325 | 84033 | obscurin, cytoskeletal calmodulin and titin-interacting RhoGEF |
| GO | cell differentiation | 40 | 474 | 0.0978325 | 85416 | Zic family member 5 (odd-paired homolog, Drosophila) |
| GO | cell differentiation | 40 | 474 | 0.0978325 | 8600 | tumor necrosis factor (ligand) superfamily, member 11 |
| GO | cell differentiation | 40 | 474 | 0.0978325 | 91461 | protein kinase domain containing, cytoplasmic homolog (mouse) |
| GO | cell differentiation | 40 | 474 | 0.0978325 | 9271 | piwi-like 1 (Drosophila) |
| GO | cell differentiation | 40 | 474 | 0.0978325 | 9633 | metallothionein-like 5, testis-specific (tesmin) |
| GO | cellular response to hormone stimulu | 4 | 26 | 0.0979082 | 1080 | cystic fibrosis transmembrane conductance regulator (ATP-binding cas |
| GO | cellular response to hormone stimulu | 4 | 26 | 0.0979082 | 1843 | dual specificity phosphatase 1 |
| GO | cellular response to hormone stimulu | 4 | 26 | 0.0979082 | 2353 | FBJ murine osteosarcoma viral oncogene homolog |
| GO | cellular response to hormone stimulu | 4 | 26 | 0.0979082 | 3726 | jun B proto-oncogene |

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|---|---|---|---|---|---|---|
| GO | branching involved in ureteric bud m | 4 | 26 | 0.0979082 | 183 | angiotensinogen (serpin peptidase inhibitor, clade A, member 8) |
| GO | branching involved in ureteric bud m | 4 | 26 | 0.0979082 | 2737 | GLI family zinc finger 3 |
| GO | branching involved in ureteric bud m | 4 | 26 | 0.0979082 | 3911 | laminin, alpha 5 |
| GO | branching involved in ureteric bud m | 4 | 26 | 0.0979082 | 652 | bone morphogenetic protein 4 |
| GO | negative regulation of epithelial cell | 4 | 26 | 0.0979082 | 4163 | mutated in colorectal cancers |
| GO | negative regulation of epithelial cell | 4 | 26 | 0.0979082 | 652 | bone morphogenetic protein 4 |
| GO | negative regulation of epithelial cell | 4 | 26 | 0.0979082 | 7049 | transforming growth factor, beta receptor III |
| GO | negative regulation of epithelial cell | 4 | 26 | 0.0979082 | 7474 | wingless-type MMTV integration site family, member 5A |
| GO | chloride channel activity | 7 | 58 | 0.0992041 | 1080 | cystic fibrosis transmembrane conductance regulator (ATP-binding cas |
| GO | chloride channel activity | 7 | 58 | 0.0992041 | 1193 | chloride intracellular channel 2 |
| GO | chloride channel activity | 7 | 58 | 0.0992041 | 2564 | gamma-aminobutyric acid (GABA) A receptor, epsilon |
| GO | chloride channel activity | 7 | 58 | 0.0992041 | 266675 | bestrophin 4 |
| GO | chloride channel activity | 7 | 58 | 0.0992041 | 5349 | FXYD domain containing ion transport regulator 3 |
| GO | chloride channel activity | 7 | 58 | 0.0992041 | 63982 | anoctamin 3 |
| GO | chloride channel activity | 7 | 58 | 0.0992041 | 8542 | apolipoprotein L, 1 |
| GO | oxidoreductase activity, acting on sin | 7 | 58 | 0.0992041 | 23081 | lysine (K)-specific demethylase 4C |
| GO | oxidoreductase activity, acting on sin | 7 | 58 | 0.0992041 | 254295 | phytanoyl-CoA dioxygenase domain containing 1 |
| GO | oxidoreductase activity, acting on sin | 7 | 58 | 0.0992041 | 5351 | procollagen-lysine 1, 2-oxoglutarate 5-dioxygenase 1 |
| GO | oxidoreductase activity, acting on sin | 7 | 58 | 0.0992041 | 54681 | prolyl 4-hydroxylase, transmembrane (endoplasmic reticulum) |
| GO | oxidoreductase activity, acting on sin | 7 | 58 | 0.0992041 | 55693 | lysine (K)-specific demethylase 4D |
| GO | oxidoreductase activity, acting on sin | 7 | 58 | 0.0992041 | 5742 | prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase a |
| GO | oxidoreductase activity, acting on sin | 7 | 58 | 0.0992041 | 7404 | ubiquitously transcribed tetratricopeptide repeat gene, Y-linked |
| GO | UDP-galactose:beta-N-acetylglucosa | 2 | 8 | 0.0992693 | 10317 | UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase, polypeptide 5 |
| GO | UDP-galactose:beta-N-acetylglucosa | 2 | 8 | 0.0992693 | 8706 | beta-1,3-N-acetylgalactosaminyltransferase 1 (globoside blood group) |
| GO | phosphate transport | 2 | 8 | 0.0992693 | 10568 | solute carrier family 34 (sodium phosphate), member 2 |
| GO | phosphate transport | 2 | 8 | 0.0992693 | 56172 | ankylosis, progressive homolog (mouse) |
| GO | regulation of calcium ion-dependent | 2 | 8 | 0.0992693 | 143425 | synaptotagmin IX |
| GO | regulation of calcium ion-dependent | 2 | 8 | 0.0992693 | 6857 | synaptotagmin I |
| GO | secretory granule membrane | 2 | 8 | 0.0992693 | 143425 | synaptotagmin IX |
| GO | secretory granule membrane | 2 | 8 | 0.0992693 | 5873 | RAB27A, member RAS oncogene family |
| GO | embryonic viscerocranium morphoge | 2 | 8 | 0.0992693 | 157506 | retinol dehydrogenase 10 (all-trans) |
| GO | embryonic viscerocranium morphoge | 2 | 8 | 0.0992693 | 2303 | forkhead box C2 (MFH-1, mesenchyme forkhead 1) |
| GO | behavioral response to cocaine | 2 | 8 | 0.0992693 | 1813 | dopamine receptor D2 |
| GO | behavioral response to cocaine | 2 | 8 | 0.0992693 | 1815 | dopamine receptor D4 |
| GO | positive regulation of neuroblast prol | 2 | 8 | 0.0992693 | 1813 | dopamine receptor D2 |
| GO | positive regulation of neuroblast prol | 2 | 8 | 0.0992693 | 2290 | forkhead box G1 |

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|---|---|---|---|---|---|---|
| GO | regulation of heart rate | 2 | 8 | 0.0992693 | 1813 | dopamine receptor D2 |
| GO | regulation of heart rate | 2 | 8 | 0.0992693 | 5367 | pro-melanin-concentrating hormone |
| GO | regulation of sodium ion transport | 2 | 8 | 0.0992693 | 1813 | dopamine receptor D2 |
| GO | regulation of sodium ion transport | 2 | 8 | 0.0992693 | 5025 | purinergic receptor P2X, ligand-gated ion channel, 4 |
| GO | phosphoinositide 3-kinase cascade | 2 | 8 | 0.0992693 | 1906 | endothelin 1 |
| GO | phosphoinositide 3-kinase cascade | 2 | 8 | 0.0992693 | 5295 | phosphoinositide-3-kinase, regulatory subunit 1 (alpha) |
| GO | cellular response to hydrogen peroxi | 2 | 8 | 0.0992693 | 2033 | E1A binding protein p300 |
| GO | cellular response to hydrogen peroxi | 2 | 8 | 0.0992693 | 358 | aquaporin 1 (Colton blood group) |
| GO | histone acetyltransferase complex | 2 | 8 | 0.0992693 | 2033 | E1A binding protein p300 |
| GO | histone acetyltransferase complex | 2 | 8 | 0.0992693 | 23338 | PHD finger protein 15 |
| GO | negative regulation of programmed c | 2 | 8 | 0.0992693 | 2122 | MDS1 and EVI1 complex locus |
| GO | negative regulation of programmed c | 2 | 8 | 0.0992693 | 3815 | v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog |
| GO | protein autoprocessing | 2 | 8 | 0.0992693 | 255738 | proprotein convertase subtilisin/kexin type 9 |
| GO | protein autoprocessing | 2 | 8 | 0.0992693 | 5122 | proprotein convertase subtilisin/kexin type 1 |
| GO | positive regulation of chondrocyte di | 2 | 8 | 0.0992693 | 2737 | GLI family zinc finger 3 |
| GO | positive regulation of chondrocyte di | 2 | 8 | 0.0992693 | 91461 | protein kinase domain containing, cytoplasmic homolog (mouse) |
| GO | positive regulation of leukocyte chem | 2 | 8 | 0.0992693 | 3569 | interleukin 6 (interferon, beta 2) |
| GO | positive regulation of leukocyte chem | 2 | 8 | 0.0992693 | 3570 | interleukin 6 receptor |
| GO | regulation of embryonic developmen | 2 | 8 | 0.0992693 | 3643 | insulin receptor |
| GO | regulation of embryonic developmen | 2 | 8 | 0.0992693 | 3911 | laminin, alpha 5 |
| GO | positive regulation of leukocyte migra | 2 | 8 | 0.0992693 | 375056 | melanoma inhibitory activity family, member 3 |
| GO | positive regulation of leukocyte migra | 2 | 8 | 0.0992693 | 7097 | toll-like receptor 2 |
| GO | mannosyl-oligosaccharide 1,2-alpha-r | 2 | 8 | 0.0992693 | 4121 | mannosidase, alpha, class 1A, member 1 |
| GO | mannosyl-oligosaccharide 1,2-alpha-r | 2 | 8 | 0.0992693 | 57134 | mannosidase, alpha, class 1C, member 1 |
| GO | glycosphingolipid biosynthetic proces | 2 | 8 | 0.0992693 | 53947 | alpha 1,4-galactosyltransferase |
| GO | glycosphingolipid biosynthetic proces | 2 | 8 | 0.0992693 | 6489 | ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 1 |
| GO | glycerophosphodiester phosphodiest | 2 | 8 | 0.0992693 | 56261 | glycerophosphocholine phosphodiesterase GDE1 homolog (S. cerevisia |
| GO | glycerophosphodiester phosphodiest | 2 | 8 | 0.0992693 | 81544 | glycerophosphodiester phosphodiesterase domain containing 5 |
| GO | phosphatidylinositol-3-phosphate bir | 2 | 8 | 0.0992693 | 56288 | par-3 partitioning defective 3 homolog (C. elegans) |
| GO | phosphatidylinositol-3-phosphate bir | 2 | 8 | 0.0992693 | 91404 | SEC14 and spectrin domains 1 |
| GO | mesonephros development | 2 | 8 | 0.0992693 | 5972 | renin |
| GO | mesonephros development | 2 | 8 | 0.0992693 | 652 | bone morphogenetic protein 4 |
| GO | peptidoglycan binding | 2 | 8 | 0.0992693 | 64127 | nucleotide-binding oligomerization domain containing 2 |
| GO | peptidoglycan binding | 2 | 8 | 0.0992693 | 7097 | toll-like receptor 2 |
| GO | positive regulation of endocytosis | 2 | 8 | 0.0992693 | 6622 | synuclein, alpha (non A4 component of amyloid precursor) |
| GO | positive regulation of endocytosis | 2 | 8 | 0.0992693 | 79872 | Cas-Br-M (murine) ecotropic retroviral transforming sequence-like 1 |

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|---|---|---|---|---|---|---|
| GO | regulation of dopamine secretion | 2 | 8 | 0.0992693 | 6622 | synuclein, alpha (non A4 component of amyloid precursor) |
| GO | regulation of dopamine secretion | 2 | 8 | 0.0992693 | 8973 | cholinergic receptor, nicotinic, alpha 6 |
| GO | syntaxin-1 binding | 2 | 8 | 0.0992693 | 6812 | syntaxin binding protein 1 |
| GO | syntaxin-1 binding | 2 | 8 | 0.0992693 | 6857 | synaptotagmin I |
| GO | cobalamin binding | 2 | 8 | 0.0992693 | 6947 | transcobalamin I (vitamin B12 binding protein, R binder family) |
| GO | cobalamin binding | 2 | 8 | 0.0992693 | 6948 | transcobalamin II; macrocytic anemia |
| GO | negative regulation of endothelial cel | 2 | 8 | 0.0992693 | 7026 | nuclear receptor subfamily 2, group F, member 2 |
| GO | negative regulation of endothelial cel | 2 | 8 | 0.0992693 | 94 | activin A receptor type II-like 1 |
| GO | calcium channel complex | 2 | 8 | 0.0992693 | 7223 | transient receptor potential cation channel, subfamily C, member 4 |
| GO | calcium channel complex | 2 | 8 | 0.0992693 | 91404 | SEC14 and spectrin domains 1 |
| GO | protein amino acid phosphorylation | 41 | 488 | 0.099532 | 10221 | tribbles homolog 1 (Drosophila) |
| GO | protein amino acid phosphorylation | 41 | 488 | 0.099532 | 10769 | polo-like kinase 2 (Drosophila) |
| GO | protein amino acid phosphorylation | 41 | 488 | 0.099532 | 11200 | CHK2 checkpoint homolog (S. pombe) |
| GO | protein amino acid phosphorylation | 41 | 488 | 0.099532 | 11213 | interleukin-1 receptor-associated kinase 3 |
| GO | protein amino acid phosphorylation | 41 | 488 | 0.099532 | 130399 | activin A receptor, type IC |
| GO | protein amino acid phosphorylation | 41 | 488 | 0.099532 | 140901 | serine/threonine kinase 35 |
| GO | protein amino acid phosphorylation | 41 | 488 | 0.099532 | 150094 | salt-inducible kinase 1 |
| GO | protein amino acid phosphorylation | 41 | 488 | 0.099532 | 1612 | death-associated protein kinase 1 |
| GO | protein amino acid phosphorylation | 41 | 488 | 0.099532 | 1969 | EPH receptor A2 |
| GO | protein amino acid phosphorylation | 41 | 488 | 0.099532 | 197259 | mixed lineage kinase domain-like |
| GO | protein amino acid phosphorylation | 41 | 488 | 0.099532 | 2044 | EPH receptor A5 |
| GO | protein amino acid phosphorylation | 41 | 488 | 0.099532 | 2263 | fibroblast growth factor receptor 2 |
| GO | protein amino acid phosphorylation | 41 | 488 | 0.099532 | 23043 | TRAF2 and NCK interacting kinase |
| GO | protein amino acid phosphorylation | 41 | 488 | 0.099532 | 23387 | SIK family kinase 3 |
| GO | protein amino acid phosphorylation | 41 | 488 | 0.099532 | 23476 | bromodomain containing 4 |
| GO | protein amino acid phosphorylation | 41 | 488 | 0.099532 | 23604 | death-associated protein kinase 2 |
| GO | protein amino acid phosphorylation | 41 | 488 | 0.099532 | 28951 | tribbles homolog 2 (Drosophila) |
| GO | protein amino acid phosphorylation | 41 | 488 | 0.099532 | 28996 | homeodomain interacting protein kinase 2 |
| GO | protein amino acid phosphorylation | 41 | 488 | 0.099532 | 3486 | insulin-like growth factor binding protein 3 |
| GO | protein amino acid phosphorylation | 41 | 488 | 0.099532 | 375449 | microtubule associated serine/threonine kinase family member 4 |
| GO | protein amino acid phosphorylation | 41 | 488 | 0.099532 | 415116 | pim-3 oncogene |
| GO | protein amino acid phosphorylation | 41 | 488 | 0.099532 | 4293 | mitogen-activated protein kinase kinase kinase 9 |
| GO | protein amino acid phosphorylation | 41 | 488 | 0.099532 | 4486 | macrophage stimulating 1 receptor (c-met-related tyrosine kinase) |
| GO | protein amino acid phosphorylation | 41 | 488 | 0.099532 | 4638 | myosin light chain kinase |
| GO | protein amino acid phosphorylation | 41 | 488 | 0.099532 | 4915 | neurotrophic tyrosine kinase, receptor, type 2 |
| GO | protein amino acid phosphorylation | 41 | 488 | 0.099532 | 5063 | p21 protein (Cdc42/Rac)-activated kinase 3 |

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|---|---|---|---|---|---|---|
| GO | protein amino acid phosphorylation | 41 | 488 | 0.099532 | 5129 | cyclin-dependent kinase 18 |
| GO | protein amino acid phosphorylation | 41 | 488 | 0.099532 | 5218 | cyclin-dependent kinase 14 |
| GO | protein amino acid phosphorylation | 41 | 488 | 0.099532 | 57118 | calcium/calmodulin-dependent protein kinase ID |
| GO | protein amino acid phosphorylation | 41 | 488 | 0.099532 | 57147 | SCY1-like 3 (S. cerevisiae) |
| GO | protein amino acid phosphorylation | 41 | 488 | 0.099532 | 5791 | protein tyrosine phosphatase, receptor type, E |
| GO | protein amino acid phosphorylation | 41 | 488 | 0.099532 | 6446 | serum/glucocorticoid regulated kinase 1 |
| GO | protein amino acid phosphorylation | 41 | 488 | 0.099532 | 6850 | spleen tyrosine kinase |
| GO | protein amino acid phosphorylation | 41 | 488 | 0.099532 | 7474 | wingless-type MMTV integration site family, member 5A |
| GO | protein amino acid phosphorylation | 41 | 488 | 0.099532 | 81788 | NUAK family, SNF1-like kinase, 2 |
| GO | protein amino acid phosphorylation | 41 | 488 | 0.099532 | 84033 | obscurin, cytoskeletal calmodulin and titin-interacting RhoGEF |
| GO | protein amino acid phosphorylation | 41 | 488 | 0.099532 | 9064 | mitogen-activated protein kinase kinase kinase 6 |
| GO | protein amino acid phosphorylation | 41 | 488 | 0.099532 | 91 | activin A receptor, type IB |
| GO | protein amino acid phosphorylation | 41 | 488 | 0.099532 | 91461 | protein kinase domain containing, cytoplasmic homolog (mouse) |
| GO | protein amino acid phosphorylation | 41 | 488 | 0.099532 | 9263 | serine/threonine kinase 17a |
| GO | protein amino acid phosphorylation | 41 | 488 | 0.099532 | 94 | activin A receptor type II-like 1 |
| GO | endoplasmic reticulum | 70 | 880 | 0.1021424 | 10162 | lysophosphatidylcholine acyltransferase 3 |
| GO | endoplasmic reticulum | 70 | 880 | 0.1021424 | 10170 | dehydrogenase/reductase (SDR family) member 9 |
| GO | endoplasmic reticulum | 70 | 880 | 0.1021424 | 10282 | blocked early in transport 1 homolog (S. cerevisiae) |
| GO | endoplasmic reticulum | 70 | 880 | 0.1021424 | 10317 | UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase, polypeptide 5 |
| GO | endoplasmic reticulum | 70 | 880 | 0.1021424 | 10439 | olfactomedin 1 |
| GO | endoplasmic reticulum | 70 | 880 | 0.1021424 | 10826 | chromosome 5 open reading frame 4 |
| GO | endoplasmic reticulum | 70 | 880 | 0.1021424 | 11322 | transmembrane channel-like 6 |
| GO | endoplasmic reticulum | 70 | 880 | 0.1021424 | 116844 | leucine-rich alpha-2-glycoprotein 1 |
| GO | endoplasmic reticulum | 70 | 880 | 0.1021424 | 118429 | anthrax toxin receptor 2 |
| GO | endoplasmic reticulum | 70 | 880 | 0.1021424 | 121506 | endoplasmic reticulum protein 27 |
| GO | endoplasmic reticulum | 70 | 880 | 0.1021424 | 123 | perilipin 2 |
| GO | endoplasmic reticulum | 70 | 880 | 0.1021424 | 123099 | degenerative spermatocyte homolog 2, lipid desaturase (Drosophila) |
| GO | endoplasmic reticulum | 70 | 880 | 0.1021424 | 130367 | sphingosine-1-phosphate phosphotase 2 |
| GO | endoplasmic reticulum | 70 | 880 | 0.1021424 | 147138 | transmembrane channel-like 8 |
| GO | endoplasmic reticulum | 70 | 880 | 0.1021424 | 1558 | cytochrome P450, family 2, subfamily C, polypeptide 8 |
| GO | endoplasmic reticulum | 70 | 880 | 0.1021424 | 1559 | cytochrome P450, family 2, subfamily C, polypeptide 9 |
| GO | endoplasmic reticulum | 70 | 880 | 0.1021424 | 1571 | cytochrome P450, family 2, subfamily E, polypeptide 1 |
| GO | endoplasmic reticulum | 70 | 880 | 0.1021424 | 157506 | retinol dehydrogenase 10 (all-trans) |
| GO | endoplasmic reticulum | 70 | 880 | 0.1021424 | 1577 | cytochrome P450, family 3, subfamily A, polypeptide 5 |
| GO | endoplasmic reticulum | 70 | 880 | 0.1021424 | 163590 | torsin A interacting protein 2 |
| GO | endoplasmic reticulum | 70 | 880 | 0.1021424 | 165679 | chromosome 3 open reading frame 57 |

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|---|---|---|---|---|---|---|
| GO | endoplasmic reticulum | 70 | 880 | 0.1021424 | 1803 | dipeptidyl-peptidase 4 |
| GO | endoplasmic reticulum | 70 | 880 | 0.1021424 | 195814 | short chain dehydrogenase/reductase family 16C, member 5 |
| GO | endoplasmic reticulum | 70 | 880 | 0.1021424 | 2055 | ceroid-lipofuscinosis, neuronal 8 (epilepsy, progressive with mental ret |
| GO | endoplasmic reticulum | 70 | 880 | 0.1021424 | 2182 | acyl-CoA synthetase long-chain family member 4 |
| GO | endoplasmic reticulum | 70 | 880 | 0.1021424 | 22901 | arylsulfatase G |
| GO | endoplasmic reticulum | 70 | 880 | 0.1021424 | 256987 | serine incorporator 5 |
| GO | endoplasmic reticulum | 70 | 880 | 0.1021424 | 25825 | beta-site APP-cleaving enzyme 2 |
| GO | endoplasmic reticulum | 70 | 880 | 0.1021424 | 25956 | SEC31 homolog B (S. cerevisiae) |
| GO | endoplasmic reticulum | 70 | 880 | 0.1021424 | 2861 | G protein-coupled receptor 37 (endothelin receptor type B-like) |
| GO | endoplasmic reticulum | 70 | 880 | 0.1021424 | 3601 | interleukin 15 receptor, alpha |
| GO | endoplasmic reticulum | 70 | 880 | 0.1021424 | 375056 | melanoma inhibitory activity family, member 3 |
| GO | endoplasmic reticulum | 70 | 880 | 0.1021424 | 387923 | stress-associated endoplasmic reticulum protein family member 2 |
| GO | endoplasmic reticulum | 70 | 880 | 0.1021424 | 3913 | laminin, beta 2 (laminin S) |
| GO | endoplasmic reticulum | 70 | 880 | 0.1021424 | 4056 | leukotriene C4 synthase |
| GO | endoplasmic reticulum | 70 | 880 | 0.1021424 | 405753 | dual oxidase maturation factor 2 |
| GO | endoplasmic reticulum | 70 | 880 | 0.1021424 | 407738 | family with sequence similarity 19 (chemokine (C-C motif)-like), memb |
| GO | endoplasmic reticulum | 70 | 880 | 0.1021424 | 412 | steroid sulfatase (microsomal), isozyme S |
| GO | endoplasmic reticulum | 70 | 880 | 0.1021424 | 4121 | mannosidase, alpha, class 1A, member 1 |
| GO | endoplasmic reticulum | 70 | 880 | 0.1021424 | 4306 | nuclear receptor subfamily 3, group C, member 2 |
| GO | endoplasmic reticulum | 70 | 880 | 0.1021424 | 48 | aconitase 1, soluble |
| GO | endoplasmic reticulum | 70 | 880 | 0.1021424 | 4939 | 2'-5'-oligoadenylate synthetase 2, 69/71kDa |
| GO | endoplasmic reticulum | 70 | 880 | 0.1021424 | 5046 | proprotein convertase subtilisin/kexin type 6 |
| GO | endoplasmic reticulum | 70 | 880 | 0.1021424 | 5071 | Parkinson disease (autosomal recessive, juvenile) 2, parkin |
| GO | endoplasmic reticulum | 70 | 880 | 0.1021424 | 5152 | phosphodiesterase 9A |
| GO | endoplasmic reticulum | 70 | 880 | 0.1021424 | 51703 | acyl-CoA synthetase long-chain family member 5 |
| GO | endoplasmic reticulum | 70 | 880 | 0.1021424 | 51754 | transmembrane protein 8B |
| GO | endoplasmic reticulum | 70 | 880 | 0.1021424 | 5351 | procollagen-lysine 1, 2-oxoglutarate 5-dioxygenase 1 |
| GO | endoplasmic reticulum | 70 | 880 | 0.1021424 | 54463 | family with sequence similarity 134, member B |
| GO | endoplasmic reticulum | 70 | 880 | 0.1021424 | 54681 | prolyl 4-hydroxylase, transmembrane (endoplasmic reticulum) |
| GO | endoplasmic reticulum | 70 | 880 | 0.1021424 | 54894 | ring finger protein 43 |
| GO | endoplasmic reticulum | 70 | 880 | 0.1021424 | 54947 | lysophosphatidylcholine acyltransferase 2 |
| GO | endoplasmic reticulum | 70 | 880 | 0.1021424 | 55080 | TAP binding protein-like |
| GO | endoplasmic reticulum | 70 | 880 | 0.1021424 | 55304 | serine palmitoyltransferase, long chain base subunit 3 |
| GO | endoplasmic reticulum | 70 | 880 | 0.1021424 | 56605 | ERO1-like beta (S. cerevisiae) |
| GO | endoplasmic reticulum | 70 | 880 | 0.1021424 | 5742 | prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase a |
| GO | endoplasmic reticulum | 70 | 880 | 0.1021424 | 57620 | stromal interaction molecule 2 |

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|---|---|---|---|---|---|---|
| GO | endoplasmic reticulum | 70 | 880 | 0.1021424 | 6238 | ribosome binding protein 1 homolog 180kDa (dog) |
| GO | endoplasmic reticulum | 70 | 880 | 0.1021424 | 6446 | serum/glucocorticoid regulated kinase 1 |
| GO | endoplasmic reticulum | 70 | 880 | 0.1021424 | 64699 | transmembrane protease, serine 3 |
| GO | endoplasmic reticulum | 70 | 880 | 0.1021424 | 7098 | toll-like receptor 3 |
| GO | endoplasmic reticulum | 70 | 880 | 0.1021424 | 7869 | sema domain, immunoglobulin domain (Ig), short basic domain, secret |
| GO | endoplasmic reticulum | 70 | 880 | 0.1021424 | 79152 | fatty acid 2-hydroxylase |
| GO | endoplasmic reticulum | 70 | 880 | 0.1021424 | 79956 | endoplasmic reticulum metallopeptidase 1 |
| GO | endoplasmic reticulum | 70 | 880 | 0.1021424 | 819 | calcium modulating ligand |
| GO | endoplasmic reticulum | 70 | 880 | 0.1021424 | 84879 | major facilitator superfamily domain containing 2A |
| GO | endoplasmic reticulum | 70 | 880 | 0.1021424 | 89866 | SEC16 homolog B (S. cerevisiae) |
| GO | endoplasmic reticulum | 70 | 880 | 0.1021424 | 90993 | cAMP responsive element binding protein 3-like 1 |
| GO | endoplasmic reticulum | 70 | 880 | 0.1021424 | 9563 | hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase) |
| GO | endoplasmic reticulum | 70 | 880 | 0.1021424 | 9619 | ATP-binding cassette, sub-family G (WHITE), member 1 |
| GO | heparin binding | 11 | 105 | 0.1032557 | 1839 | heparin-binding EGF-like growth factor |
| GO | heparin binding | 11 | 105 | 0.1032557 | 2263 | fibroblast growth factor receptor 2 |
| GO | heparin binding | 11 | 105 | 0.1032557 | 3491 | cysteine-rich, angiogenic inducer, 61 |
| GO | heparin binding | 11 | 105 | 0.1032557 | 3827 | kininogen 1 |
| GO | heparin binding | 11 | 105 | 0.1032557 | 5046 | proprotein convertase subtilisin/kexin type 6 |
| GO | heparin binding | 11 | 105 | 0.1032557 | 6372 | chemokine (C-X-C motif) ligand 6 (granulocyte chemotactic protein 2) |
| GO | heparin binding | 11 | 105 | 0.1032557 | 6402 | selectin L |
| GO | heparin binding | 11 | 105 | 0.1032557 | 652 | bone morphogenetic protein 4 |
| GO | heparin binding | 11 | 105 | 0.1032557 | 7049 | transforming growth factor, beta receptor III |
| GO | heparin binding | 11 | 105 | 0.1032557 | 8646 | chordin |
| GO | heparin binding | 11 | 105 | 0.1032557 | 9510 | ADAM metallopeptidase with thrombospondin type 1 motif, 1 |
| GO | response to ethanol | 8 | 70 | 0.1039122 | 1508 | cathepsin B |
| GO | response to ethanol | 8 | 70 | 0.1039122 | 1571 | cytochrome P450, family 2, subfamily E, polypeptide 1 |
| GO | response to ethanol | 8 | 70 | 0.1039122 | 2033 | E1A binding protein p300 |
| GO | response to ethanol | 8 | 70 | 0.1039122 | 3570 | interleukin 6 receptor |
| GO | response to ethanol | 8 | 70 | 0.1039122 | 3643 | insulin receptor |
| GO | response to ethanol | 8 | 70 | 0.1039122 | 4129 | monoamine oxidase B |
| GO | response to ethanol | 8 | 70 | 0.1039122 | 5950 | retinol binding protein 4, plasma |
| GO | response to ethanol | 8 | 70 | 0.1039122 | 7099 | toll-like receptor 4 |
| GO | oxygen binding | 5 | 37 | 0.1053072 | 1558 | cytochrome P450, family 2, subfamily C, polypeptide 8 |
| GO | oxygen binding | 5 | 37 | 0.1053072 | 1559 | cytochrome P450, family 2, subfamily C, polypeptide 9 |
| GO | oxygen binding | 5 | 37 | 0.1053072 | 1571 | cytochrome P450, family 2, subfamily E, polypeptide 1 |
| GO | oxygen binding | 5 | 37 | 0.1053072 | 1577 | cytochrome P450, family 3, subfamily A, polypeptide 5 |

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|---|---|---|---|---|---|---|
| GO | oxygen binding | 5 | 37 | 0.1053072 | 4151 | myoglobin |
| GO | positive regulation of pathway-restric | 3 | 17 | 0.1057881 | 11030 | RNA binding protein with multiple splicing |
| GO | positive regulation of pathway-restric | 3 | 17 | 0.1057881 | 652 | bone morphogenetic protein 4 |
| GO | positive regulation of pathway-restric | 3 | 17 | 0.1057881 | 91 | activin A receptor, type IB |
| GO | aspartic-type endopeptidase activity | 3 | 17 | 0.1057881 | 121665 | signal peptide peptidase 3 |
| GO | aspartic-type endopeptidase activity | 3 | 17 | 0.1057881 | 25825 | beta-site APP-cleaving enzyme 2 |
| GO | aspartic-type endopeptidase activity | 3 | 17 | 0.1057881 | 5972 | renin |
| GO | sphingolipid metabolic process | 3 | 17 | 0.1057881 | 166929 | sphingomyelin synthase 2 |
| GO | sphingolipid metabolic process | 3 | 17 | 0.1057881 | 6489 | ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 1 |
| GO | sphingolipid metabolic process | 3 | 17 | 0.1057881 | 79152 | fatty acid 2-hydroxylase |
| GO | social behavior | 3 | 17 | 0.1057881 | 1815 | dopamine receptor D4 |
| GO | social behavior | 3 | 17 | 0.1057881 | 2055 | ceroid-lipofuscinosis, neuronal 8 (epilepsy, progressive with mental ret |
| GO | social behavior | 3 | 17 | 0.1057881 | 3845 | v-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog |
| GO | actin filament capping | 3 | 17 | 0.1057881 | 2039 | erythrocyte membrane protein band 4.9 (dematin) |
| GO | actin filament capping | 3 | 17 | 0.1057881 | 6710 | spectrin, beta, erythrocytic |
| GO | actin filament capping | 3 | 17 | 0.1057881 | 85477 | scinderin |
| GO | negative regulation of osteoblast diff | 3 | 17 | 0.1057881 | 4851 | Notch homolog 1, translocation-associated (Drosophila) |
| GO | negative regulation of osteoblast diff | 3 | 17 | 0.1057881 | 8313 | axin 2 |
| GO | negative regulation of osteoblast diff | 3 | 17 | 0.1057881 | 8646 | chordin |
| GO | transcription corepressor activity | 14 | 142 | 0.106427 | 10346 | tripartite motif-containing 22 |
| GO | transcription corepressor activity | 14 | 142 | 0.106427 | 1822 | atrophin 1 |
| GO | transcription corepressor activity | 14 | 142 | 0.106427 | 28996 | homeodomain interacting protein kinase 2 |
| GO | transcription corepressor activity | 14 | 142 | 0.106427 | 3400 | inhibitor of DNA binding 4, dominant negative helix-loop-helix protein |
| GO | transcription corepressor activity | 14 | 142 | 0.106427 | 3726 | jun B proto-oncogene |
| GO | transcription corepressor activity | 14 | 142 | 0.106427 | 4204 | methyl CpG binding protein 2 (Rett syndrome) |
| GO | transcription corepressor activity | 14 | 142 | 0.106427 | 4212 | Meis homeobox 2 |
| GO | transcription corepressor activity | 14 | 142 | 0.106427 | 467 | activating transcription factor 3 |
| GO | transcription corepressor activity | 14 | 142 | 0.106427 | 4783 | nuclear factor, interleukin 3 regulated |
| GO | transcription corepressor activity | 14 | 142 | 0.106427 | 7026 | nuclear receptor subfamily 2, group F, member 2 |
| GO | transcription corepressor activity | 14 | 142 | 0.106427 | 8531 | cold shock domain protein A |
| GO | transcription corepressor activity | 14 | 142 | 0.106427 | 9572 | nuclear receptor subfamily 1, group D, member 1 |
| GO | transcription corepressor activity | 14 | 142 | 0.106427 | 9734 | histone deacetylase 9 |
| GO | transcription corepressor activity | 14 | 142 | 0.106427 | 9971 | nuclear receptor subfamily 1, group H, member 4 |
| GO | negative regulation of signal transduc | 6 | 48 | 0.1071947 | 115265 | DNA-damage-inducible transcript 4-like |
| GO | negative regulation of signal transduc | 6 | 48 | 0.1071947 | 1154 | cytokine inducible SH2-containing protein |
| GO | negative regulation of signal transduc | 6 | 48 | 0.1071947 | 3486 | insulin-like growth factor binding protein 3 |

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|---|---|---|---|---|---|---|
| GO | negative regulation of signal transdu | 6 | 48 | 0.1071947 | 6004 | regulator of G-protein signaling 16 |
| GO | negative regulation of signal transdu | 6 | 48 | 0.1071947 | 8786 | regulator of G-protein signaling 11 |
| GO | negative regulation of signal transdu | 6 | 48 | 0.1071947 | 9021 | suppressor of cytokine signaling 3 |
| GO | adherens junction | 4 | 27 | 0.109039 | 143098 | membrane protein, palmitoylated 7 (MAGUK p55 subfamily member 7 |
| GO | adherens junction | 4 | 27 | 0.109039 | 5318 | plakophilin 2 |
| GO | adherens junction | 4 | 27 | 0.109039 | 57619 | shroom family member 3 |
| GO | adherens junction | 4 | 27 | 0.109039 | 9414 | tight junction protein 2 (zona occludens 2) |
| GO | endocytic vesicle | 4 | 27 | 0.109039 | 1803 | dipeptidyl-peptidase 4 |
| GO | endocytic vesicle | 4 | 27 | 0.109039 | 1902 | lysophosphatidic acid receptor 1 |
| GO | endocytic vesicle | 4 | 27 | 0.109039 | 338557 | G protein-coupled receptor 120 |
| GO | endocytic vesicle | 4 | 27 | 0.109039 | 9788 | metastasis suppressor 1 |
| GO | positive regulation of fibroblast proli | 4 | 27 | 0.109039 | 183 | angiotensinogen (serpin peptidase inhibitor, clade A, member 8) |
| GO | positive regulation of fibroblast proli | 4 | 27 | 0.109039 | 3479 | insulin-like growth factor 1 (somatomedin C) |
| GO | positive regulation of fibroblast proli | 4 | 27 | 0.109039 | 358 | aquaporin 1 (Colton blood group) |
| GO | positive regulation of fibroblast proli | 4 | 27 | 0.109039 | 7474 | wingless-type MMTV integration site family, member 5A |
| GO | SH2 domain binding | 4 | 27 | 0.109039 | 3643 | insulin receptor |
| GO | SH2 domain binding | 4 | 27 | 0.109039 | 55824 | phosphoprotein associated with glycosphingolipid microdomains 1 |
| GO | SH2 domain binding | 4 | 27 | 0.109039 | 8631 | src kinase associated phosphoprotein 1 |
| GO | SH2 domain binding | 4 | 27 | 0.109039 | 9143 | synaptogyrin 3 |
| GO | transmembrane receptor protein tyr | 8 | 71 | 0.1105047 | 2044 | EPH receptor A5 |
| GO | transmembrane receptor protein tyr | 8 | 71 | 0.1105047 | 2066 | v-erb-a erythroblastic leukemia viral oncogene homolog 4 (avian) |
| GO | transmembrane receptor protein tyr | 8 | 71 | 0.1105047 | 3815 | v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog |
| GO | transmembrane receptor protein tyr | 8 | 71 | 0.1105047 | 4486 | macrophage stimulating 1 receptor (c-met-related tyrosine kinase) |
| GO | transmembrane receptor protein tyr | 8 | 71 | 0.1105047 | 4915 | neurotrophic tyrosine kinase, receptor, type 2 |
| GO | transmembrane receptor protein tyr | 8 | 71 | 0.1105047 | 55816 | docking protein 5 |
| GO | transmembrane receptor protein tyr | 8 | 71 | 0.1105047 | 9019 | myelin protein zero-like 1 |
| GO | transmembrane receptor protein tyr | 8 | 71 | 0.1105047 | 9788 | metastasis suppressor 1 |
| GO | GTPase activator activity | 15 | 156 | 0.1137977 | 10156 | RAS p21 protein activator 4 |
| GO | GTPase activator activity | 15 | 156 | 0.1137977 | 1124 | chimerin (chimaerin) 2 |
| GO | GTPase activator activity | 15 | 156 | 0.1137977 | 126432 | Ras and Rab interactor-like |
| GO | GTPase activator activity | 15 | 156 | 0.1137977 | 23092 | Rho GTPase activating protein 26 |
| GO | GTPase activator activity | 15 | 156 | 0.1137977 | 23365 | Rho guanine nucleotide exchange factor (GEF) 12 |
| GO | GTPase activator activity | 15 | 156 | 0.1137977 | 259173 | ALS2 C-terminal like |
| GO | GTPase activator activity | 15 | 156 | 0.1137977 | 395 | Rho GTPase activating protein 6 |
| GO | GTPase activator activity | 15 | 156 | 0.1137977 | 55200 | pleckstrin homology domain containing, family G (with RhoGef domain |
| GO | GTPase activator activity | 15 | 156 | 0.1137977 | 55357 | TBC1 domain family, member 2 |

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|---|---|---|---|---|---|---|
| GO | GTPase activator activity | 15 | 156 | 0.1137977 | 57186 | Ral GTPase activating protein, alpha subunit 2 (catalytic) |
| GO | GTPase activator activity | 15 | 156 | 0.1137977 | 57636 | Rho GTPase activating protein 23 |
| GO | GTPase activator activity | 15 | 156 | 0.1137977 | 6004 | regulator of G-protein signaling 16 |
| GO | GTPase activator activity | 15 | 156 | 0.1137977 | 6494 | signal-induced proliferation-associated 1 |
| GO | GTPase activator activity | 15 | 156 | 0.1137977 | 8786 | regulator of G-protein signaling 11 |
| GO | GTPase activator activity | 15 | 156 | 0.1137977 | 9459 | Rac/Cdc42 guanine nucleotide exchange factor (GEF) 6 |
| GO | positive regulation of angiogenesis | 5 | 38 | 0.1148267 | 1139 | cholinergic receptor, nicotinic, alpha 7 |
| GO | positive regulation of angiogenesis | 5 | 38 | 0.1148267 | 2624 | GATA binding protein 2 |
| GO | positive regulation of angiogenesis | 5 | 38 | 0.1148267 | 358 | aquaporin 1 (Colton blood group) |
| GO | positive regulation of angiogenesis | 5 | 38 | 0.1148267 | 718 | complement component 3 |
| GO | positive regulation of angiogenesis | 5 | 38 | 0.1148267 | 7474 | wingless-type MMTV integration site family, member 5A |
| GO | digestion | 6 | 49 | 0.1155039 | 10891 | peroxisome proliferator-activated receptor gamma, coactivator 1 alpha |
| GO | digestion | 6 | 49 | 0.1155039 | 4586 | mucin 5AC, oligomeric mucus/gel-forming |
| GO | digestion | 6 | 49 | 0.1155039 | 6564 | solute carrier family 15 (oligopeptide transporter), member 1 |
| GO | digestion | 6 | 49 | 0.1155039 | 6750 | somatostatin |
| GO | digestion | 6 | 49 | 0.1155039 | 6751 | somatostatin receptor 1 |
| GO | digestion | 6 | 49 | 0.1155039 | 7032 | trefoil factor 2 |
| GO | phospholipid binding | 6 | 49 | 0.1155039 | 1373 | carbamoyl-phosphate synthetase 1, mitochondrial |
| GO | phospholipid binding | 6 | 49 | 0.1155039 | 5724 | platelet-activating factor receptor |
| GO | phospholipid binding | 6 | 49 | 0.1155039 | 6857 | synaptotagmin I |
| GO | phospholipid binding | 6 | 49 | 0.1155039 | 7941 | phospholipase A2, group VII (platelet-activating factor acetylhydrolase, |
| GO | phospholipid binding | 6 | 49 | 0.1155039 | 9619 | ATP-binding cassette, sub-family G (WHITE), member 1 |
| GO | phospholipid binding | 6 | 49 | 0.1155039 | 9892 | synaptosomal-associated protein, 91kDa homolog (mouse) |
| GO | tight junction | 8 | 72 | 0.1173196 | 1364 | claudin 4 |
| GO | tight junction | 8 | 72 | 0.1173196 | 143098 | membrane protein, palmitoylated 7 (MAGUK p55 subfamily member 7 |
| GO | tight junction | 8 | 72 | 0.1173196 | 154810 | angiomotin like 1 |
| GO | tight junction | 8 | 72 | 0.1173196 | 27134 | tight junction protein 3 (zona occludens 3) |
| GO | tight junction | 8 | 72 | 0.1173196 | 55870 | ash1 (absent, small, or homeotic)-like (Drosophila) |
| GO | tight junction | 8 | 72 | 0.1173196 | 56288 | par-3 partitioning defective 3 homolog (C. elegans) |
| GO | tight junction | 8 | 72 | 0.1173196 | 9071 | claudin 10 |
| GO | tight junction | 8 | 72 | 0.1173196 | 9414 | tight junction protein 2 (zona occludens 2) |
| GO | actin filament organization | 4 | 28 | 0.1207066 | 10435 | CDC42 effector protein (Rho GTPase binding) 2 |
| GO | actin filament organization | 4 | 28 | 0.1207066 | 27295 | PDZ and LIM domain 3 |
| GO | actin filament organization | 4 | 28 | 0.1207066 | 395 | Rho GTPase activating protein 6 |
| GO | actin filament organization | 4 | 28 | 0.1207066 | 55909 | bridging integrator 3 |
| GO | memory | 4 | 28 | 0.1207066 | 11202 | kallikrein-related peptidase 8 |

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|---|---|---|---|---|---|---|
| GO | memory | 4 | 28 | 0.1207066 | 1139 | cholinergic receptor, nicotinic, alpha 7 |
| GO | memory | 4 | 28 | 0.1207066 | 3678 | integrin, alpha 5 (fibronectin receptor, alpha polypeptide) |
| GO | memory | 4 | 28 | 0.1207066 | 834 | caspase 1, apoptosis-related cysteine peptidase (interleukin 1, beta, co |
| GO | positive regulation of DNA replicatior | 4 | 28 | 0.1207066 | 3479 | insulin-like growth factor 1 (somatomedin C) |
| GO | positive regulation of DNA replicatior | 4 | 28 | 0.1207066 | 3643 | insulin receptor |
| GO | positive regulation of DNA replicatior | 4 | 28 | 0.1207066 | 3725 | jun oncogene |
| GO | positive regulation of DNA replicatior | 4 | 28 | 0.1207066 | 4254 | KIT ligand |
| GO | sensory perception of pain | 4 | 28 | 0.1207066 | 4692 | necdin homolog (mouse) |
| GO | sensory perception of pain | 4 | 28 | 0.1207066 | 4886 | neuropeptide Y receptor Y1 |
| GO | sensory perception of pain | 4 | 28 | 0.1207066 | 5025 | purinergic receptor P2X, ligand-gated ion channel, 4 |
| GO | sensory perception of pain | 4 | 28 | 0.1207066 | 54463 | family with sequence similarity 134, member B |
| GO | beta-amyloid binding | 3 | 18 | 0.1208002 | 1139 | cholinergic receptor, nicotinic, alpha 7 |
| GO | beta-amyloid binding | 3 | 18 | 0.1208002 | 1471 | cystatin C |
| GO | beta-amyloid binding | 3 | 18 | 0.1208002 | 9445 | integral membrane protein 2B |
| GO | cornified envelope | 3 | 18 | 0.1208002 | 126638 | repetin |
| GO | cornified envelope | 3 | 18 | 0.1208002 | 6706 | small proline-rich protein 2G |
| GO | cornified envelope | 3 | 18 | 0.1208002 | 8796 | sciellin |
| GO | integral to membrane of membrane f | 3 | 18 | 0.1208002 | 148229 | ATPase, class I, type 8B, member 3 |
| GO | integral to membrane of membrane f | 3 | 18 | 0.1208002 | 195814 | short chain dehydrogenase/reductase family 16C, member 5 |
| GO | integral to membrane of membrane f | 3 | 18 | 0.1208002 | 412 | steroid sulfatase (microsomal), isozyme S |
| GO | establishment or maintenance of cell | 3 | 18 | 0.1208002 | 23418 | crumbs homolog 1 (Drosophila) |
| GO | establishment or maintenance of cell | 3 | 18 | 0.1208002 | 56288 | par-3 partitioning defective 3 homolog (C. elegans) |
| GO | establishment or maintenance of cell | 3 | 18 | 0.1208002 | 9892 | synaptosomal-associated protein, 91kDa homolog (mouse) |
| GO | polypeptide N-acetylgalactosaminyltı | 3 | 18 | 0.1208002 | 2589 | UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosami |
| GO | polypeptide N-acetylgalactosaminyltı | 3 | 18 | 0.1208002 | 374378 | UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosami |
| GO | polypeptide N-acetylgalactosaminyltı | 3 | 18 | 0.1208002 | 79695 | UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosami |
| GO | inner ear development | 3 | 18 | 0.1208002 | 2737 | GLI family zinc finger 3 |
| GO | inner ear development | 3 | 18 | 0.1208002 | 627 | brain-derived neurotrophic factor |
| GO | inner ear development | 3 | 18 | 0.1208002 | 84059 | G protein-coupled receptor 98 |
| GO | inward rectifier potassium channel ac | 3 | 18 | 0.1208002 | 3759 | potassium inwardly-rectifying channel, subfamily J, member 2 |
| GO | inward rectifier potassium channel ac | 3 | 18 | 0.1208002 | 3773 | potassium inwardly-rectifying channel, subfamily J, member 16 |
| GO | inward rectifier potassium channel ac | 3 | 18 | 0.1208002 | 3775 | potassium channel, subfamily K, member 1 |
| GO | cytoskeleton organization | 7 | 61 | 0.1212818 | 152273 | FYVE, RhoGEF and PH domain containing 5 |
| GO | cytoskeleton organization | 7 | 61 | 0.1212818 | 2039 | erythrocyte membrane protein band 4.9 (dematin) |
| GO | cytoskeleton organization | 7 | 61 | 0.1212818 | 23043 | TRAF2 and NCK interacting kinase |
| GO | cytoskeleton organization | 7 | 61 | 0.1212818 | 3814 | KiSS-1 metastasis-suppressor |

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|---|---|---|---|---|---|---|
| GO | cytoskeleton organization | 7 | 61 | 0.1212818 | 3911 | laminin, alpha 5 |
| GO | cytoskeleton organization | 7 | 61 | 0.1212818 | 3983 | actin binding LIM protein 1 |
| GO | cytoskeleton organization | 7 | 61 | 0.1212818 | 6494 | signal-induced proliferation-associated 1 |
| GO | axonogenesis | 7 | 61 | 0.1212818 | 1813 | dopamine receptor D2 |
| GO | axonogenesis | 7 | 61 | 0.1212818 | 26050 | SLIT and NTRK-like family, member 5 |
| GO | axonogenesis | 7 | 61 | 0.1212818 | 4851 | Notch homolog 1, translocation-associated (Drosophila) |
| GO | axonogenesis | 7 | 61 | 0.1212818 | 56288 | par-3 partitioning defective 3 homolog (C. elegans) |
| GO | axonogenesis | 7 | 61 | 0.1212818 | 57453 | Down syndrome cell adhesion molecule like 1 |
| GO | axonogenesis | 7 | 61 | 0.1212818 | 885 | cholecystokinin |
| GO | axonogenesis | 7 | 61 | 0.1212818 | 9892 | synaptosomal-associated protein, 91kDa homolog (mouse) |
| GO | NADPH oxidase complex | 2 | 9 | 0.1220356 | 10811 | NADPH oxidase activator 1 |
| GO | NADPH oxidase complex | 2 | 9 | 0.1220356 | 27035 | NADPH oxidase 1 |
| GO | intracellular part | 2 | 9 | 0.1220356 | 112 | adenylate cyclase 6 |
| GO | intracellular part | 2 | 9 | 0.1220356 | 154 | adrenergic, beta-2-, receptor, surface |
| GO | negative regulation of interleukin-6 p | 2 | 9 | 0.1220356 | 11213 | interleukin-1 receptor-associated kinase 3 |
| GO | negative regulation of interleukin-6 p | 2 | 9 | 0.1220356 | 7099 | toll-like receptor 4 |
| GO | negative regulation of protein catabo | 2 | 9 | 0.1220356 | 11213 | interleukin-1 receptor-associated kinase 3 |
| GO | negative regulation of protein catabo | 2 | 9 | 0.1220356 | 4194 | Mdm4 p53 binding protein homolog (mouse) |
| GO | embryonic foregut morphogenesis | 2 | 9 | 0.1220356 | 116113 | forkhead box P4 |
| GO | embryonic foregut morphogenesis | 2 | 9 | 0.1220356 | 4087 | SMAD family member 2 |
| GO | retinal binding | 2 | 9 | 0.1220356 | 1382 | cellular retinoic acid binding protein 2 |
| GO | retinal binding | 2 | 9 | 0.1220356 | 5950 | retinol binding protein 4, plasma |
| GO | respiratory burst | 2 | 9 | 0.1220356 | 1604 | CD55 molecule, decay accelerating factor for complement (Cromer blo |
| GO | respiratory burst | 2 | 9 | 0.1220356 | 27035 | NADPH oxidase 1 |
| GO | associative learning | 2 | 9 | 0.1220356 | 1813 | dopamine receptor D2 |
| GO | associative learning | 2 | 9 | 0.1220356 | 2055 | ceroid-lipofuscinosis, neuronal 8 (epilepsy, progressive with mental ret |
| GO | phosphoinositide metabolic process | 2 | 9 | 0.1220356 | 1813 | dopamine receptor D2 |
| GO | phosphoinositide metabolic process | 2 | 9 | 0.1220356 | 83394 | PITPNM family member 3 |
| GO | low-density lipoprotein particle remo | 2 | 9 | 0.1220356 | 183 | angiotensinogen (serpin peptidase inhibitor, clade A, member 8) |
| GO | low-density lipoprotein particle remo | 2 | 9 | 0.1220356 | 9619 | ATP-binding cassette, sub-family G (WHITE), member 1 |
| GO | telencephalon development | 2 | 9 | 0.1220356 | 2066 | v-erb-a erythroblastic leukemia viral oncogene homolog 4 (avian) |
| GO | telencephalon development | 2 | 9 | 0.1220356 | 652 | bone morphogenetic protein 4 |
| GO | fucosyltransferase activity | 2 | 9 | 0.1220356 | 2525 | fucosyltransferase 3 (galactoside 3(4)-L-fucosyltransferase, Lewis blooc |
| GO | fucosyltransferase activity | 2 | 9 | 0.1220356 | 2526 | fucosyltransferase 4 (alpha (1,3) fucosyltransferase, myeloid-specific) |
| GO | detection of calcium ion | 2 | 9 | 0.1220356 | 27345 | potassium large conductance calcium-activated channel, subfamily M, |
| GO | detection of calcium ion | 2 | 9 | 0.1220356 | 6857 | synaptotagmin I |

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|---|---|---|---|---|---|---|
| GO | regulation of MAPKKK cascade | 2 | 9 | 0.1220356 | 2911 | glutamate receptor, metabotropic 1 |
| GO | regulation of MAPKKK cascade | 2 | 9 | 0.1220356 | 5972 | renin |
| GO | phospholipase binding | 2 | 9 | 0.1220356 | 395 | Rho GTPase activating protein 6 |
| GO | phospholipase binding | 2 | 9 | 0.1220356 | 6622 | synuclein, alpha (non A4 component of amyloid precursor) |
| GO | neuropeptide Y receptor activity | 2 | 9 | 0.1220356 | 4886 | neuropeptide Y receptor Y1 |
| GO | neuropeptide Y receptor activity | 2 | 9 | 0.1220356 | 4889 | neuropeptide Y receptor Y5 |
| GO | calcium-transporting ATPase activity | 2 | 9 | 0.1220356 | 493 | ATPase, Ca++ transporting, plasma membrane 4 |
| GO | calcium-transporting ATPase activity | 2 | 9 | 0.1220356 | 9914 | ATPase, Ca++ transporting, type 2C, member 2 |
| GO | ATP hydrolysis coupled proton transp | 2 | 9 | 0.1220356 | 50617 | ATPase, H+ transporting, lysosomal V0 subunit a4 |
| GO | ATP hydrolysis coupled proton transp | 2 | 9 | 0.1220356 | 8992 | ATPase, H+ transporting, lysosomal 9kDa, V0 subunit e1 |
| GO | GTP biosynthetic process | 2 | 9 | 0.1220356 | 51314 | thioredoxin domain containing 3 (spermatozoa) |
| GO | GTP biosynthetic process | 2 | 9 | 0.1220356 | 8382 | non-metastatic cells 5, protein expressed in (nucleoside-diphosphate k |
| GO | nucleoside diphosphate kinase activit | 2 | 9 | 0.1220356 | 51314 | thioredoxin domain containing 3 (spermatozoa) |
| GO | nucleoside diphosphate kinase activit | 2 | 9 | 0.1220356 | 8382 | non-metastatic cells 5, protein expressed in (nucleoside-diphosphate k |
| GO | UTP biosynthetic process | 2 | 9 | 0.1220356 | 51314 | thioredoxin domain containing 3 (spermatozoa) |
| GO | UTP biosynthetic process | 2 | 9 | 0.1220356 | 8382 | non-metastatic cells 5, protein expressed in (nucleoside-diphosphate k |
| GO | lipopolysaccharide binding | 2 | 9 | 0.1220356 | 7099 | toll-like receptor 4 |
| GO | lipopolysaccharide binding | 2 | 9 | 0.1220356 | 929 | CD14 molecule |
| GO | M band | 2 | 9 | 0.1220356 | 84033 | obscurin, cytoskeletal calmodulin and titin-interacting RhoGEF |
| GO | M band | 2 | 9 | 0.1220356 | 8736 | myomesin 1, 185kDa |
| GO | male meiosis I | 2 | 9 | 0.1220356 | 8900 | cyclin A1 |
| GO | male meiosis I | 2 | 9 | 0.1220356 | 9985 | REC8 homolog (yeast) |
| GO | RNA polymerase II transcription factc | 5 | 39 | 0.1247403 | 2296 | forkhead box C1 |
| GO | RNA polymerase II transcription factc | 5 | 39 | 0.1247403 | 2303 | forkhead box C2 (MFH-1, mesenchyme forkhead 1) |
| GO | RNA polymerase II transcription factc | 5 | 39 | 0.1247403 | 3725 | jun oncogene |
| GO | RNA polymerase II transcription factc | 5 | 39 | 0.1247403 | 4286 | microphthalmia-associated transcription factor |
| GO | RNA polymerase II transcription factc | 5 | 39 | 0.1247403 | 4784 | nuclear factor I/X (CCAAT-binding transcription factor) |
| GO | peptidase inhibitor activity | 9 | 85 | 0.1256783 | 1469 | cystatin SN |
| GO | peptidase inhibitor activity | 9 | 85 | 0.1256783 | 1471 | cystatin C |
| GO | peptidase inhibitor activity | 9 | 85 | 0.1256783 | 153218 | serine peptidase inhibitor, Kazal type 13 (putative) |
| GO | peptidase inhibitor activity | 9 | 85 | 0.1256783 | 23145 | SCO-spondin homolog (Bos taurus) |
| GO | peptidase inhibitor activity | 9 | 85 | 0.1256783 | 3827 | kininogen 1 |
| GO | peptidase inhibitor activity | 9 | 85 | 0.1256783 | 404203 | serine peptidase inhibitor, Kazal type 6 |
| GO | peptidase inhibitor activity | 9 | 85 | 0.1256783 | 6692 | serine peptidase inhibitor, Kunitz type 1 |
| GO | peptidase inhibitor activity | 9 | 85 | 0.1256783 | 80760 | inter-alpha (globulin) inhibitor H5 |
| GO | peptidase inhibitor activity | 9 | 85 | 0.1256783 | 89778 | serpin peptidase inhibitor, clade B (ovalbumin), member 11 (gene/pseu |

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| GO | Golgi apparatus | 62 | 784 | 0.1273212 | 10090 | uronyl-2-sulfotransferase |
| GO | Golgi apparatus | 62 | 784 | 0.1273212 | 10282 | blocked early in transport 1 homolog (S. cerevisiae) |
| GO | Golgi apparatus | 62 | 784 | 0.1273212 | 10317 | UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase, polypeptide 5 |
| GO | Golgi apparatus | 62 | 784 | 0.1273212 | 127845 | golgi transport 1 homolog A (S. cerevisiae) |
| GO | Golgi apparatus | 62 | 784 | 0.1273212 | 129049 | small G protein signaling modulator 1 |
| GO | Golgi apparatus | 62 | 784 | 0.1273212 | 152273 | FYVE, RhoGEF and PH domain containing 5 |
| GO | Golgi apparatus | 62 | 784 | 0.1273212 | 166929 | sphingomyelin synthase 2 |
| GO | Golgi apparatus | 62 | 784 | 0.1273212 | 1803 | dipeptidyl-peptidase 4 |
| GO | Golgi apparatus | 62 | 784 | 0.1273212 | 192134 | UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 6 (core |
| GO | Golgi apparatus | 62 | 784 | 0.1273212 | 2525 | fucosyltransferase 3 (galactoside 3(4)-L-fucosyltransferase, Lewis blooc |
| GO | Golgi apparatus | 62 | 784 | 0.1273212 | 2526 | fucosyltransferase 4 (alpha (1,3) fucosyltransferase, myeloid-specific) |
| GO | Golgi apparatus | 62 | 784 | 0.1273212 | 25825 | beta-site APP-cleaving enzyme 2 |
| GO | Golgi apparatus | 62 | 784 | 0.1273212 | 2589 | UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosami |
| GO | Golgi apparatus | 62 | 784 | 0.1273212 | 26035 | glucuronic acid epimerase |
| GO | Golgi apparatus | 62 | 784 | 0.1273212 | 27090 | ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1,3)-N-acetylgalact |
| GO | Golgi apparatus | 62 | 784 | 0.1273212 | 2752 | glutamate-ammonia ligase (glutamine synthetase) |
| GO | Golgi apparatus | 62 | 784 | 0.1273212 | 2801 | golgin A2 |
| GO | Golgi apparatus | 62 | 784 | 0.1273212 | 3601 | interleukin 15 receptor, alpha |
| GO | Golgi apparatus | 62 | 784 | 0.1273212 | 374378 | UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosami |
| GO | Golgi apparatus | 62 | 784 | 0.1273212 | 3790 | potassium voltage-gated channel, delayed-rectifier, subfamily S, memk |
| GO | Golgi apparatus | 62 | 784 | 0.1273212 | 388743 | calpain 8 |
| GO | Golgi apparatus | 62 | 784 | 0.1273212 | 412 | steroid sulfatase (microsomal), isozyme S |
| GO | Golgi apparatus | 62 | 784 | 0.1273212 | 4121 | mannosidase, alpha, class 1A, member 1 |
| GO | Golgi apparatus | 62 | 784 | 0.1273212 | 4794 | nuclear factor of kappa light polypeptide gene enhancer in B-cells inhik |
| GO | Golgi apparatus | 62 | 784 | 0.1273212 | 48 | aconitase 1, soluble |
| GO | Golgi apparatus | 62 | 784 | 0.1273212 | 4851 | Notch homolog 1, translocation-associated (Drosophila) |
| GO | Golgi apparatus | 62 | 784 | 0.1273212 | 5071 | Parkinson disease (autosomal recessive, juvenile) 2, parkin |
| GO | Golgi apparatus | 62 | 784 | 0.1273212 | 51272 | blocked early in transport 1 homolog (S. cerevisiae)-like |
| GO | Golgi apparatus | 62 | 784 | 0.1273212 | 51280 | golgi membrane protein 1 |
| GO | Golgi apparatus | 62 | 784 | 0.1273212 | 51313 | family with sequence similarity 198, member B |
| GO | Golgi apparatus | 62 | 784 | 0.1273212 | 5152 | phosphodiesterase 9A |
| GO | Golgi apparatus | 62 | 784 | 0.1273212 | 53405 | chloride intracellular channel 5 |
| GO | Golgi apparatus | 62 | 784 | 0.1273212 | 53947 | alpha 1,4-galactosyltransferase |
| GO | Golgi apparatus | 62 | 784 | 0.1273212 | 54361 | wingless-type MMTV integration site family, member 4 |
| GO | Golgi apparatus | 62 | 784 | 0.1273212 | 54463 | family with sequence similarity 134, member B |
| GO | Golgi apparatus | 62 | 784 | 0.1273212 | 54947 | lysophosphatidylcholine acyltransferase 2 |

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|---|---|---|---|---|---|---|
| GO | Golgi apparatus | 62 | 784 | 0.1273212 | 55275 | vacuolar protein sorting 53 homolog (S. cerevisiae) |
| GO | Golgi apparatus | 62 | 784 | 0.1273212 | 55638 | Golgi-localized protein |
| GO | Golgi apparatus | 62 | 784 | 0.1273212 | 55808 | ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1,3)-N-acetylgalact |
| GO | Golgi apparatus | 62 | 784 | 0.1273212 | 57134 | mannosidase, alpha, class 1C, member 1 |
| GO | Golgi apparatus | 62 | 784 | 0.1273212 | 57147 | SCY1-like 3 (S. cerevisiae) |
| GO | Golgi apparatus | 62 | 784 | 0.1273212 | 5742 | prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase a |
| GO | Golgi apparatus | 62 | 784 | 0.1273212 | 5768 | quiescin Q6 sulfhydryl oxidase 1 |
| GO | Golgi apparatus | 62 | 784 | 0.1273212 | 5801 | protein tyrosine phosphatase, receptor type, R |
| GO | Golgi apparatus | 62 | 784 | 0.1273212 | 5873 | RAB27A, member RAS oncogene family |
| GO | Golgi apparatus | 62 | 784 | 0.1273212 | 64083 | golgi phosphoprotein 3 (coat-protein) |
| GO | Golgi apparatus | 62 | 784 | 0.1273212 | 646658 | transmembrane protein 90A |
| GO | Golgi apparatus | 62 | 784 | 0.1273212 | 6484 | ST3 beta-galactoside alpha-2,3-sialyltransferase 4 |
| GO | Golgi apparatus | 62 | 784 | 0.1273212 | 6489 | ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 1 |
| GO | Golgi apparatus | 62 | 784 | 0.1273212 | 684 | bone marrow stromal cell antigen 2 |
| GO | Golgi apparatus | 62 | 784 | 0.1273212 | 79656 | BEN domain containing 5 |
| GO | Golgi apparatus | 62 | 784 | 0.1273212 | 79689 | STEAP family member 4 |
| GO | Golgi apparatus | 62 | 784 | 0.1273212 | 79695 | UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosami |
| GO | Golgi apparatus | 62 | 784 | 0.1273212 | 79971 | wntless homolog (Drosophila) |
| GO | Golgi apparatus | 62 | 784 | 0.1273212 | 8509 | N-deacetylase/N-sulfotransferase (heparan glucosaminyl) 2 |
| GO | Golgi apparatus | 62 | 784 | 0.1273212 | 8706 | beta-1,3-N-acetylgalactosaminyltransferase 1 (globoside blood group) |
| GO | Golgi apparatus | 62 | 784 | 0.1273212 | 89866 | SEC16 homolog B (S. cerevisiae) |
| GO | Golgi apparatus | 62 | 784 | 0.1273212 | 91461 | protein kinase domain containing, cytoplasmic homolog (mouse) |
| GO | Golgi apparatus | 62 | 784 | 0.1273212 | 9435 | carbohydrate (N-acetylglucosamine-6-O) sulfotransferase 2 |
| GO | Golgi apparatus | 62 | 784 | 0.1273212 | 9445 | integral membrane protein 2B |
| GO | Golgi apparatus | 62 | 784 | 0.1273212 | 9619 | ATP-binding cassette, sub-family G (WHITE), member 1 |
| GO | Golgi apparatus | 62 | 784 | 0.1273212 | 9832 | janus kinase and microtubule interacting protein 2 |
| GO | embryonic axis specification | 1 | 2 | 0.1320282 | 10023 | frequently rearranged in advanced T-cell lymphomas |
| GO | coreceptor, soluble ligand activity | 1 | 2 | 0.1320282 | 10268 | receptor (G protein-coupled) activity modifying protein 3 |
| GO | mast cell activation | 1 | 2 | 0.1320282 | 10397 | N-myc downstream regulated 1 |
| GO | endoplasmic reticulum Sec complex | 1 | 2 | 0.1320282 | 1080 | cystic fibrosis transmembrane conductance regulator (ATP-binding cas |
| GO | iodide transport | 1 | 2 | 0.1320282 | 1080 | cystic fibrosis transmembrane conductance regulator (ATP-binding cas |
| GO | superoxide-generating NADPH oxidas | 1 | 2 | 0.1320282 | 10811 | NADPH oxidase activator 1 |
| GO | positive regulation of gluconeogenes | 1 | 2 | 0.1320282 | 10891 | peroxisome proliferator-activated receptor gamma, coactivator 1 alpha |
| GO | prenylated protein tyrosine phospha | 1 | 2 | 0.1320282 | 11156 | protein tyrosine phosphatase type IVA, member 3 |
| GO | negative regulation of axon regenera | 1 | 2 | 0.1320282 | 11202 | kallikrein-related peptidase 8 |
| GO | negative regulation of protein compl | 1 | 2 | 0.1320282 | 11213 | interleukin-1 receptor-associated kinase 3 |

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|---|---|---|---|---|---|---|
| GO | negative regulation of toll-like recept | 1 | 2 | 0.1320282 | 11213 | interleukin-1 receptor-associated kinase 3 |
| GO | heme transport | 1 | 2 | 0.1320282 | 113235 | solute carrier family 46 (folate transporter), member 1 |
| GO | chloride channel regulator activity | 1 | 2 | 0.1320282 | 1139 | cholinergic receptor, nicotinic, alpha 7 |
| GO | acyl carnitine transporter activity | 1 | 2 | 0.1320282 | 123096 | solute carrier family 25, member 29 |
| GO | myosin II complex | 1 | 2 | 0.1320282 | 134549 | shroom family member 1 |
| GO | insulin processing | 1 | 2 | 0.1320282 | 1363 | carboxypeptidase E |
| GO | anion homeostasis | 1 | 2 | 0.1320282 | 1373 | carbamoyl-phosphate synthetase 1, mitochondrial |
| GO | response to oleic acid | 1 | 2 | 0.1320282 | 1373 | carbamoyl-phosphate synthetase 1, mitochondrial |
| GO | complement receptor activity | 1 | 2 | 0.1320282 | 1380 | complement component (3d/Epstein Barr virus) receptor 2 |
| GO | macrophage colony stimulating facto | 1 | 2 | 0.1320282 | 1435 | colony stimulating factor 1 (macrophage) |
| GO | positive regulation of odontogenesis | 1 | 2 | 0.1320282 | 1435 | colony stimulating factor 1 (macrophage) |
| GO | heat generation | 1 | 2 | 0.1320282 | 154 | adrenergic, beta-2-, receptor, surface |
| GO | negative regulation of smooth muscle | 1 | 2 | 0.1320282 | 154 | adrenergic, beta-2-, receptor, surface |
| GO | positive regulation of skeletal muscle | 1 | 2 | 0.1320282 | 154 | adrenergic, beta-2-, receptor, surface |
| GO | vasodilation by norepinephrine-epine | 1 | 2 | 0.1320282 | 154 | adrenergic, beta-2-, receptor, surface |
| GO | (S)-limonene 6-monooxygenase activ | 1 | 2 | 0.1320282 | 1559 | cytochrome P450, family 2, subfamily C, polypeptide 9 |
| GO | (S)-limonene 7-monooxygenase activ | 1 | 2 | 0.1320282 | 1559 | cytochrome P450, family 2, subfamily C, polypeptide 9 |
| GO | 4-hydroxyacetophenone monooxyge | 1 | 2 | 0.1320282 | 1559 | cytochrome P450, family 2, subfamily C, polypeptide 9 |
| GO | monocarboxylic acid metabolic proce | 1 | 2 | 0.1320282 | 1559 | cytochrome P450, family 2, subfamily C, polypeptide 9 |
| GO | primary lung bud formation | 1 | 2 | 0.1320282 | 157506 | retinol dehydrogenase 10 (all-trans) |
| GO | retinoic acid biosynthetic process | 1 | 2 | 0.1320282 | 157506 | retinol dehydrogenase 10 (all-trans) |
| GO | alkaloid catabolic process | 1 | 2 | 0.1320282 | 1577 | cytochrome P450, family 3, subfamily A, polypeptide 5 |
| GO | ceramide cholinephosphotransferase | 1 | 2 | 0.1320282 | 166929 | sphingomyelin synthase 2 |
| GO | sphingomyelin synthase activity | 1 | 2 | 0.1320282 | 166929 | sphingomyelin synthase 2 |
| GO | transferrin transport | 1 | 2 | 0.1320282 | 1785 | dynamin 2 |
| GO | negative regulation of dopamine rece | 1 | 2 | 0.1320282 | 1813 | dopamine receptor D2 |
| GO | neurological system process involved | 1 | 2 | 0.1320282 | 1813 | dopamine receptor D2 |
| GO | positive regulation of sodium:hydrog | 1 | 2 | 0.1320282 | 1815 | dopamine receptor D4 |
| GO | acetyltransferase activator activity | 1 | 2 | 0.1320282 | 183 | angiotensinogen (serpin peptidase inhibitor, clade A, member 8) |
| GO | brain renin-angiotensin system | 1 | 2 | 0.1320282 | 183 | angiotensinogen (serpin peptidase inhibitor, clade A, member 8) |
| GO | positive regulation of NAD(P)H oxidas | 1 | 2 | 0.1320282 | 183 | angiotensinogen (serpin peptidase inhibitor, clade A, member 8) |
| GO | regulation of blood vessel size by ren | 1 | 2 | 0.1320282 | 183 | angiotensinogen (serpin peptidase inhibitor, clade A, member 8) |
| GO | regulation of renal output by angiote | 1 | 2 | 0.1320282 | 183 | angiotensinogen (serpin peptidase inhibitor, clade A, member 8) |
| GO | renin-angiotensin regulation of aldos | 1 | 2 | 0.1320282 | 183 | angiotensinogen (serpin peptidase inhibitor, clade A, member 8) |
| GO | smooth muscle cell proliferation | 1 | 2 | 0.1320282 | 183 | angiotensinogen (serpin peptidase inhibitor, clade A, member 8) |
| GO | positive regulation of prostaglandin-e | 1 | 2 | 0.1320282 | 1906 | endothelin 1 |

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|---|---|---|---|---|---|---|
| GO | rhythmic excitation | 1 | 2 | 0.1320282 | 1906 | endothelin 1 |
| GO | beta-1,3-galactosyl-O-glycosyl-glycop | 1 | 2 | 0.1320282 | 192134 | UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 6 (core |
| GO | cellular response to heparin | 1 | 2 | 0.1320282 | 1958 | early growth response 1 |
| GO | cellular response to mycophenolic ac | 1 | 2 | 0.1320282 | 1958 | early growth response 1 |
| GO | rhythmic behavior | 1 | 2 | 0.1320282 | 1959 | early growth response 2 |
| GO | notochord formation | 1 | 2 | 0.1320282 | 1969 | EPH receptor A2 |
| GO | protein-DNA complex assembly | 1 | 2 | 0.1320282 | 2033 | E1A binding protein p300 |
| GO | cellular protein catabolic process | 1 | 2 | 0.1320282 | 2055 | ceroid-lipofuscinosis, neuronal 8 (epilepsy, progressive with mental ret |
| GO | glutamate uptake involved in synapti | 1 | 2 | 0.1320282 | 2055 | ceroid-lipofuscinosis, neuronal 8 (epilepsy, progressive with mental ret |
| GO | negative regulation of transferase act | 1 | 2 | 0.1320282 | 2055 | ceroid-lipofuscinosis, neuronal 8 (epilepsy, progressive with mental ret |
| GO | response to interleukin-15 | 1 | 2 | 0.1320282 | 2182 | acyl-CoA synthetase long-chain family member 4 |
| GO | IgE receptor activity | 1 | 2 | 0.1320282 | 2205 | Fc fragment of IgE, high affinity I, receptor for; alpha polypeptide |
| GO | pancreatic A cell differentiation | 1 | 2 | 0.1320282 | 222546 | regulatory factor X, 6 |
| GO | pancreatic B cell differentiation | 1 | 2 | 0.1320282 | 222546 | regulatory factor X, 6 |
| GO | dolichol kinase activity | 1 | 2 | 0.1320282 | 22901 | arylsulfatase G |
| GO | lacrimal gland development | 1 | 2 | 0.1320282 | 2296 | forkhead box C1 |
| GO | paraxial mesodermal cell fate commi | 1 | 2 | 0.1320282 | 2303 | forkhead box C2 (MFH-1, mesenchyme forkhead 1) |
| GO | arachidonate 5-lipoxygenase activity | 1 | 2 | 0.1320282 | 240 | arachidonate 5-lipoxygenase |
| GO | alpha-L-fucosidase activity | 1 | 2 | 0.1320282 | 2517 | fucosidase, alpha-L- 1, tissue |
| GO | negative regulation of receptor recyc | 1 | 2 | 0.1320282 | 255738 | proprotein convertase subtilisin/kexin type 9 |
| GO | glutamate decarboxylation to succina | 1 | 2 | 0.1320282 | 2571 | glutamate decarboxylase 1 (brain, 67kDa) |
| GO | negative regulation of amyloid precu | 1 | 2 | 0.1320282 | 25825 | beta-site APP-cleaving enzyme 2 |
| GO | glucagon receptor activity | 1 | 2 | 0.1320282 | 2642 | glucagon receptor |
| GO | forebrain neuron fate commitment | 1 | 2 | 0.1320282 | 26468 | LIM homeobox 6 |
| GO | hydrogen peroxide metabolic proces | 1 | 2 | 0.1320282 | 27035 | NADPH oxidase 1 |
| GO | positive regulation of integrin biosyn | 1 | 2 | 0.1320282 | 27035 | NADPH oxidase 1 |
| GO | voltage-gated proton channel activity | 1 | 2 | 0.1320282 | 27035 | NADPH oxidase 1 |
| GO | glycolipid metabolic process | 1 | 2 | 0.1320282 | 27090 | ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1,3)-N-acetylgalact |
| GO | purine nucleotide metabolic process | 1 | 2 | 0.1320282 | 271 | adenosine monophosphate deaminase 2 |
| GO | glutaminase activity | 1 | 2 | 0.1320282 | 27165 | glutaminase 2 (liver, mitochondrial) |
| GO | C5a anaphylatoxin receptor activity | 1 | 2 | 0.1320282 | 27202 | G protein-coupled receptor 77 |
| GO | artery development | 1 | 2 | 0.1320282 | 2737 | GLI family zinc finger 3 |
| GO | smoothened signaling pathway involv | 1 | 2 | 0.1320282 | 2737 | GLI family zinc finger 3 |
| GO | smoothened signaling pathway involv | 1 | 2 | 0.1320282 | 2737 | GLI family zinc finger 3 |
| GO | DNA nucleotidylexotransferase activi | 1 | 2 | 0.1320282 | 27434 | polymerase (DNA directed), mu |
| GO | glutamate-ammonia ligase activity | 1 | 2 | 0.1320282 | 2752 | glutamate-ammonia ligase (glutamine synthetase) |

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|---|---|---|---|---|---|---|
| GO | glutamine biosynthetic process | 1 | 2 | 0.1320282 | 2752 | glutamate-ammonia ligase (glutamine synthetase) |
| GO | voluntary musculoskeletal movemen | 1 | 2 | 0.1320282 | 28996 | homeodomain interacting protein kinase 2 |
| GO | Pyrin domain binding | 1 | 2 | 0.1320282 | 29108 | PYD and CARD domain containing |
| GO | cytokinesis, completion of separatior | 1 | 2 | 0.1320282 | 311 | annexin A11 |
| GO | aldehyde oxidase activity | 1 | 2 | 0.1320282 | 316 | aldehyde oxidase 1 |
| GO | xanthine dehydrogenase activity | 1 | 2 | 0.1320282 | 316 | aldehyde oxidase 1 |
| GO | epithelial-mesenchymal signaling inv | 1 | 2 | 0.1320282 | 3169 | forkhead box A1 |
| GO | 20-alpha-hydroxysteroid dehydrogen | 1 | 2 | 0.1320282 | 3294 | hydroxysteroid (17-beta) dehydrogenase 2 |
| GO | hyaluronan catabolic process | 1 | 2 | 0.1320282 | 3373 | hyaluronoglucosaminidase 1 |
| GO | hormone secretion | 1 | 2 | 0.1320282 | 338557 | G protein-coupled receptor 120 |
| GO | cilium movement | 1 | 2 | 0.1320282 | 345895 | radial spoke head 4 homolog A (Chlamydomonas) |
| GO | regulation of steroid hormone recept | 1 | 2 | 0.1320282 | 3479 | insulin-like growth factor 1 (somatomedin C) |
| GO | Type I pneumocyte differentiation | 1 | 2 | 0.1320282 | 3479 | insulin-like growth factor 1 (somatomedin C) |
| GO | protein tyrosine phosphatase activat | 1 | 2 | 0.1320282 | 3486 | insulin-like growth factor binding protein 3 |
| GO | interleukin-2 binding | 1 | 2 | 0.1320282 | 3561 | interleukin 2 receptor, gamma (severe combined immunodeficiency) |
| GO | interleukin-4 receptor activity | 1 | 2 | 0.1320282 | 3561 | interleukin 2 receptor, gamma (severe combined immunodeficiency) |
| GO | interleukin-7 receptor activity | 1 | 2 | 0.1320282 | 3561 | interleukin 2 receptor, gamma (severe combined immunodeficiency) |
| GO | neutrophil apoptosis | 1 | 2 | 0.1320282 | 3569 | interleukin 6 (interferon, beta 2) |
| GO | regulation of vascular endothelial grc | 1 | 2 | 0.1320282 | 3569 | interleukin 6 (interferon, beta 2) |
| GO | interleukin-6 binding | 1 | 2 | 0.1320282 | 3570 | interleukin 6 receptor |
| GO | interleukin-6 receptor activity | 1 | 2 | 0.1320282 | 3570 | interleukin 6 receptor |
| GO | cellular response to copper ion | 1 | 2 | 0.1320282 | 358 | aquaporin 1 (Colton blood group) |
| GO | cellular response to mercury ion | 1 | 2 | 0.1320282 | 358 | aquaporin 1 (Colton blood group) |
| GO | cerebrospinal fluid secretion | 1 | 2 | 0.1320282 | 358 | aquaporin 1 (Colton blood group) |
| GO | glycerol transmembrane transporter | 1 | 2 | 0.1320282 | 358 | aquaporin 1 (Colton blood group) |
| GO | intracellular cGMP activated cation cl | 1 | 2 | 0.1320282 | 358 | aquaporin 1 (Colton blood group) |
| GO | positive regulation of saliva secretion | 1 | 2 | 0.1320282 | 358 | aquaporin 1 (Colton blood group) |
| GO | renal water transport | 1 | 2 | 0.1320282 | 358 | aquaporin 1 (Colton blood group) |
| GO | interleukin-10 receptor activity | 1 | 2 | 0.1320282 | 3587 | interleukin 10 receptor, alpha |
| GO | 3-phosphoinositide-dependent prote | 1 | 2 | 0.1320282 | 3643 | insulin receptor |
| GO | positive regulation of respiratory bur | 1 | 2 | 0.1320282 | 3643 | insulin receptor |
| GO | ganglioside metabolic process | 1 | 2 | 0.1320282 | 3696 | integrin, beta 8 |
| GO | cellular response to potassium ion sta | 1 | 2 | 0.1320282 | 3725 | jun oncogene |
| GO | acetylcholine receptor regulator activ | 1 | 2 | 0.1320282 | 375790 | agrin |
| GO | lymphoid progenitor cell differentiati | 1 | 2 | 0.1320282 | 3815 | v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog |
| GO | positive regulation of transcription fr | 1 | 2 | 0.1320282 | 387496 | RAS-like, family 11, member A |

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|---|---|---|---|---|---|---|
| GO | laminin-3 complex | 1 | 2 | 0.1320282 | 3913 | laminin, beta 2 (laminin S) |
| GO | clathrin-coated endocytic vesicle mer | 1 | 2 | 0.1320282 | 3949 | low density lipoprotein receptor |
| GO | phospholipase activator activity | 1 | 2 | 0.1320282 | 395 | Rho GTPase activating protein 6 |
| GO | leukotriene-C4 synthase activity | 1 | 2 | 0.1320282 | 4056 | leukotriene C4 synthase |
| GO | paraxial mesoderm morphogenesis | 1 | 2 | 0.1320282 | 4087 | SMAD family member 2 |
| GO | cellular biogenic amine metabolic prc | 1 | 2 | 0.1320282 | 4128 | monoamine oxidase A |
| GO | negative regulation of serotonin secr | 1 | 2 | 0.1320282 | 4129 | monoamine oxidase B |
| GO | positive regulation of dopamine meta | 1 | 2 | 0.1320282 | 4129 | monoamine oxidase B |
| GO | response to aluminum ion | 1 | 2 | 0.1320282 | 4129 | monoamine oxidase B |
| GO | slow-twitch skeletal muscle fiber con | 1 | 2 | 0.1320282 | 4151 | myoglobin |
| GO | negative regulation of mast cell apop | 1 | 2 | 0.1320282 | 4254 | KIT ligand |
| GO | positive regulation of mast cell prolife | 1 | 2 | 0.1320282 | 4254 | KIT ligand |
| GO | cerebral cortex GABAergic interneurc | 1 | 2 | 0.1320282 | 429 | achaete-scute complex homolog 1 (Drosophila) |
| GO | olfactory pit development | 1 | 2 | 0.1320282 | 429 | achaete-scute complex homolog 1 (Drosophila) |
| GO | subpallium neuron fate commitment | 1 | 2 | 0.1320282 | 429 | achaete-scute complex homolog 1 (Drosophila) |
| GO | macrophage colony stimulating facto | 1 | 2 | 0.1320282 | 4486 | macrophage stimulating 1 receptor (c-met-related tyrosine kinase) |
| GO | Bcl3/NF-kappaB2 complex | 1 | 2 | 0.1320282 | 4791 | nuclear factor of kappa light polypeptide gene enhancer in B-cells 2 (p4 |
| GO | follicular dendritic cell differentiation | 1 | 2 | 0.1320282 | 4791 | nuclear factor of kappa light polypeptide gene enhancer in B-cells 2 (p4 |
| GO | nucleotide-binding oligomerization d | 1 | 2 | 0.1320282 | 4792 | nuclear factor of kappa light polypeptide gene enhancer in B-cells inhib |
| GO | D-serine transport | 1 | 2 | 0.1320282 | 4794 | nuclear factor of kappa light polypeptide gene enhancer in B-cells inhib |
| GO | aconitate hydratase activity | 1 | 2 | 0.1320282 | 48 | aconitase 1, soluble |
| GO | iron-responsive element binding | 1 | 2 | 0.1320282 | 48 | aconitase 1, soluble |
| GO | negative regulation of photoreceptor | 1 | 2 | 0.1320282 | 4851 | Notch homolog 1, translocation-associated (Drosophila) |
| GO | positive regulation of transcription of | 1 | 2 | 0.1320282 | 4851 | Notch homolog 1, translocation-associated (Drosophila) |
| GO | response to insecticide | 1 | 2 | 0.1320282 | 4929 | nuclear receptor subfamily 4, group A, member 2 |
| GO | nerve growth factor production | 1 | 2 | 0.1320282 | 5046 | proprotein convertase subtilisin/kexin type 6 |
| GO | dopamine uptake | 1 | 2 | 0.1320282 | 5071 | Parkinson disease (autosomal recessive, juvenile) 2, parkin |
| GO | negative regulation of actin filament | 1 | 2 | 0.1320282 | 5071 | Parkinson disease (autosomal recessive, juvenile) 2, parkin |
| GO | negative regulation of release of cytc | 1 | 2 | 0.1320282 | 5071 | Parkinson disease (autosomal recessive, juvenile) 2, parkin |
| GO | protein K63-linked ubiquitination | 1 | 2 | 0.1320282 | 5071 | Parkinson disease (autosomal recessive, juvenile) 2, parkin |
| GO | embryonic body morphogenesis | 1 | 2 | 0.1320282 | 50937 | Cdon homolog (mouse) |
| GO | response to chlorate | 1 | 2 | 0.1320282 | 5122 | proprotein convertase subtilisin/kexin type 1 |
| GO | detection of light stimulus | 1 | 2 | 0.1320282 | 5158 | phosphodiesterase 6B, cGMP-specific, rod, beta |
| GO | positive regulation of plasma membr | 1 | 2 | 0.1320282 | 51703 | acyl-CoA synthetase long-chain family member 5 |
| GO | cytoplasmic cyclin-dependent proteir | 1 | 2 | 0.1320282 | 5218 | cyclin-dependent kinase 14 |
| GO | myoblast cell fate commitment | 1 | 2 | 0.1320282 | 5307 | paired-like homeodomain 1 |

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|---|---|---|---|---|---|---|
| GO | PML body organization | 1 | 2 | 0.1320282 | 5371 | promyelocytic leukemia |
| GO | regulation of MHC class I biosynthetic | 1 | 2 | 0.1320282 | 5371 | promyelocytic leukemia |
| GO | anatomical structure development | 1 | 2 | 0.1320282 | 54361 | wingless-type MMTV integration site family, member 4 |
| GO | embryonic epithelial tube formation | 1 | 2 | 0.1320282 | 54361 | wingless-type MMTV integration site family, member 4 |
| GO | somatotropin secreting cell differenti | 1 | 2 | 0.1320282 | 54361 | wingless-type MMTV integration site family, member 4 |
| GO | hydroxymethylglutaryl-CoA lyase acti | 1 | 2 | 0.1320282 | 54511 | 3-hydroxymethyl-3-methylglutaryl-Coenzyme A lyase-like 1 |
| GO | BMP signaling pathway involved in he | 1 | 2 | 0.1320282 | 5460 | POU class 5 homeobox 1 |
| GO | cardiac cell fate determination | 1 | 2 | 0.1320282 | 5460 | POU class 5 homeobox 1 |
| GO | negative regulation of gene silencing | 1 | 2 | 0.1320282 | 5460 | POU class 5 homeobox 1 |
| GO | negative regulation of receptor biosy | 1 | 2 | 0.1320282 | 5465 | peroxisome proliferator-activated receptor alpha |
| GO | 1-alkylglycerophosphocholine O-acet | 1 | 2 | 0.1320282 | 54947 | lysophosphatidylcholine acyltransferase 2 |
| GO | germ-line stem cell maintenance | 1 | 2 | 0.1320282 | 55124 | piwi-like 2 (Drosophila) |
| GO | establishment of epithelial cell polari | 1 | 2 | 0.1320282 | 56288 | par-3 partitioning defective 3 homolog (C. elegans) |
| GO | oxidoreductase activity, acting on sul | 1 | 2 | 0.1320282 | 56605 | ERO1-like beta (S. cerevisiae) |
| GO | activation of phospholipase A2 activit | 1 | 2 | 0.1320282 | 56923 | neuromedin U receptor 2 |
| GO | neuromedin U receptor activity | 1 | 2 | 0.1320282 | 56923 | neuromedin U receptor 2 |
| GO | inositol trisphosphate biosynthetic pr | 1 | 2 | 0.1320282 | 5724 | platelet-activating factor receptor |
| GO | prostaglandin F receptor activity | 1 | 2 | 0.1320282 | 5737 | prostaglandin F receptor (FP) |
| GO | negative regulation of epinephrine se | 1 | 2 | 0.1320282 | 5742 | prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase a |
| GO | negative regulation of norepinephrin | 1 | 2 | 0.1320282 | 5742 | prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase a |
| GO | prostaglandin-endoperoxide synthase | 1 | 2 | 0.1320282 | 5742 | prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase a |
| GO | cellular pigment accumulation | 1 | 2 | 0.1320282 | 57619 | shroom family member 3 |
| GO | myosin V binding | 1 | 2 | 0.1320282 | 5873 | RAB27A, member RAS oncogene family |
| GO | natural killer cell degranulation | 1 | 2 | 0.1320282 | 5873 | RAB27A, member RAS oncogene family |
| GO | embryonic retina morphogenesis in c | 1 | 2 | 0.1320282 | 5950 | retinol binding protein 4, plasma |
| GO | female genitalia morphogenesis | 1 | 2 | 0.1320282 | 5950 | retinol binding protein 4, plasma |
| GO | angiotensin maturation | 1 | 2 | 0.1320282 | 5972 | renin |
| GO | negative regulation of isotype switch | 1 | 2 | 0.1320282 | 604 | B-cell CLL/lymphoma 6 |
| GO | negative regulation of mast cell cytok | 1 | 2 | 0.1320282 | 604 | B-cell CLL/lymphoma 6 |
| GO | regulation of Rho GTPase activity | 1 | 2 | 0.1320282 | 604 | B-cell CLL/lymphoma 6 |
| GO | 3-hydroxybutyrate dehydrogenase ac | 1 | 2 | 0.1320282 | 622 | 3-hydroxybutyrate dehydrogenase, type 1 |
| GO | vitamin metabolic process | 1 | 2 | 0.1320282 | 6256 | retinoid X receptor, alpha |
| GO | 3-oxoacid CoA-transferase activity | 1 | 2 | 0.1320282 | 64064 | 3-oxoacid CoA transferase 2 |
| GO | ketone body catabolic process | 1 | 2 | 0.1320282 | 64064 | 3-oxoacid CoA transferase 2 |
| GO | positive regulation of biosynthetic pr | 1 | 2 | 0.1320282 | 64127 | nucleotide-binding oligomerization domain containing 2 |
| GO | regulation of neutrophil chemotaxis | 1 | 2 | 0.1320282 | 64127 | nucleotide-binding oligomerization domain containing 2 |

|  |  |  |  |  |  |  |
|---|---|---|---|---|---|---|
| GO | protein-disulfide reductase activity | 1 | 2 | 0.1320282 | 64359 | nucleoredoxin |
| GO | cardiac septum development | 1 | 2 | 0.1320282 | 652 | bone morphogenetic protein 4 |
| GO | cloacal septation | 1 | 2 | 0.1320282 | 652 | bone morphogenetic protein 4 |
| GO | positive regulation of kidney develop | 1 | 2 | 0.1320282 | 652 | bone morphogenetic protein 4 |
| GO | telencephalon regionalization | 1 | 2 | 0.1320282 | 652 | bone morphogenetic protein 4 |
| GO | urea transmembrane transporter act | 1 | 2 | 0.1320282 | 6563 | solute carrier family 14 (urea transporter), member 1 (Kidd blood grou |
| GO | proton-dependent oligopeptide seco | 1 | 2 | 0.1320282 | 6564 | solute carrier family 15 (oligopeptide transporter), member 1 |
| GO | negative regulation of exocytosis | 1 | 2 | 0.1320282 | 6622 | synuclein, alpha (non A4 component of amyloid precursor) |
| GO | negative regulation of platelet-derive | 1 | 2 | 0.1320282 | 6622 | synuclein, alpha (non A4 component of amyloid precursor) |
| GO | positive regulation of inositol phosph | 1 | 2 | 0.1320282 | 6622 | synuclein, alpha (non A4 component of amyloid precursor) |
| GO | regulation of glutamate secretion | 1 | 2 | 0.1320282 | 6622 | synuclein, alpha (non A4 component of amyloid precursor) |
| GO | positive regulation of isotype switchi | 1 | 2 | 0.1320282 | 6778 | signal transducer and activator of transcription 6, interleukin-4 induce |
| GO | platelet degranulation | 1 | 2 | 0.1320282 | 6812 | syntaxin binding protein 1 |
| GO | syntaxin-2 binding | 1 | 2 | 0.1320282 | 6812 | syntaxin binding protein 1 |
| GO | lactate transmembrane transporter a | 1 | 2 | 0.1320282 | 682 | basigin (Ok blood group) |
| GO | B cell receptor complex | 1 | 2 | 0.1320282 | 6850 | spleen tyrosine kinase |
| GO | beta selection | 1 | 2 | 0.1320282 | 6850 | spleen tyrosine kinase |
| GO | homeostasis of number of cells | 1 | 2 | 0.1320282 | 7001 | peroxiredoxin 2 |
| GO | negative regulation of oxygen and re | 1 | 2 | 0.1320282 | 7001 | peroxiredoxin 2 |
| GO | negative regulation of T cell different | 1 | 2 | 0.1320282 | 7001 | peroxiredoxin 2 |
| GO | regulation of transcription involved i | 1 | 2 | 0.1320282 | 7026 | nuclear receptor subfamily 2, group F, member 2 |
| GO | response to follicle-stimulating horm | 1 | 2 | 0.1320282 | 7049 | transforming growth factor, beta receptor III |
| GO | cell surface pattern recognition recep | 1 | 2 | 0.1320282 | 7097 | toll-like receptor 2 |
| GO | cellular response to diacylated bacte | 1 | 2 | 0.1320282 | 7097 | toll-like receptor 2 |
| GO | cellular response to triacylated bacte | 1 | 2 | 0.1320282 | 7097 | toll-like receptor 2 |
| GO | detection of diacylated bacterial lipo | 1 | 2 | 0.1320282 | 7097 | toll-like receptor 2 |
| GO | detection of triacylated bacterial lipo | 1 | 2 | 0.1320282 | 7097 | toll-like receptor 2 |
| GO | positive regulation of interleukin-18 | 1 | 2 | 0.1320282 | 7097 | toll-like receptor 2 |
| GO | response to bacterial lipoprotein | 1 | 2 | 0.1320282 | 7097 | toll-like receptor 2 |
| GO | Toll-like receptor 1-Toll-like receptor | 1 | 2 | 0.1320282 | 7097 | toll-like receptor 2 |
| GO | response to lipoteichoic acid | 1 | 2 | 0.1320282 | 7099 | toll-like receptor 4 |
| GO | positive regulation of activation of m | 1 | 2 | 0.1320282 | 718 | complement component 3 |
| GO | cellular response to interferon-gamm | 1 | 2 | 0.1320282 | 7474 | wingless-type MMTV integration site family, member 5A |
| GO | hypophysis morphogenesis | 1 | 2 | 0.1320282 | 7474 | wingless-type MMTV integration site family, member 5A |
| GO | lateral sprouting involved in mamma | 1 | 2 | 0.1320282 | 7474 | wingless-type MMTV integration site family, member 5A |
| GO | positive regulation of response to cyt | 1 | 2 | 0.1320282 | 7474 | wingless-type MMTV integration site family, member 5A |

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|---|---|---|---|---|---|---|
| GO | myosin light chain binding | 1 | 2 | 0.1320282 | 7852 | chemokine (C-X-C motif) receptor 4 |
| GO | regulation of chemotaxis | 1 | 2 | 0.1320282 | 7852 | chemokine (C-X-C motif) receptor 4 |
| GO | Stn1-Ten1 complex | 1 | 2 | 0.1320282 | 80169 | chromosome 17 open reading frame 68 |
| GO | receptor recycling | 1 | 2 | 0.1320282 | 819 | calcium modulating ligand |
| GO | positive regulation of circadian sleep/ | 1 | 2 | 0.1320282 | 834 | caspase 1, apoptosis-related cysteine peptidase (interleukin 1, beta, co |
| GO | stereocilia ankle link complex | 1 | 2 | 0.1320282 | 84059 | G protein-coupled receptor 98 |
| GO | actin nucleation | 1 | 2 | 0.1320282 | 85477 | scinderin |
| GO | positive regulation of secretion | 1 | 2 | 0.1320282 | 85477 | scinderin |
| GO | two-component response regulator a | 1 | 2 | 0.1320282 | 8622 | phosphodiesterase 8B |
| GO | striated muscle thick filament | 1 | 2 | 0.1320282 | 8736 | myomesin 1, 185kDa |
| GO | initial segment | 1 | 2 | 0.1320282 | 885 | cholecystokinin |
| GO | pantothenate metabolic process | 1 | 2 | 0.1320282 | 8875 | vanin 2 |
| GO | ATPase activity, coupled to transmem | 1 | 2 | 0.1320282 | 8992 | ATPase, H+ transporting, lysosomal 9kDa, V0 subunit e1 |
| GO | adenylylsulfate kinase activity | 1 | 2 | 0.1320282 | 9060 | 3'-phosphoadenosine 5'-phosphosulfate synthase 2 |
| GO | sulfate adenylyltransferase (ATP) acti | 1 | 2 | 0.1320282 | 9060 | 3'-phosphoadenosine 5'-phosphosulfate synthase 2 |
| GO | activin receptor activity | 1 | 2 | 0.1320282 | 91 | activin A receptor, type IB |
| GO | development of primary female sexu | 1 | 2 | 0.1320282 | 91 | activin A receptor, type IB |
| GO | positive regulation of transporter act | 1 | 2 | 0.1320282 | 9143 | synaptogyrin 3 |
| GO | lipoteichoic acid binding | 1 | 2 | 0.1320282 | 929 | CD14 molecule |
| GO | nicotinamide metabolic process | 1 | 2 | 0.1320282 | 93100 | nicotinate phosphoribosyltransferase domain containing 1 |
| GO | leg morphogenesis | 1 | 2 | 0.1320282 | 9496 | T-box 4 |
| GO | 6-phosphogluconolactonase activity | 1 | 2 | 0.1320282 | 9563 | hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase) |
| GO | glucose-6-phosphate dehydrogenase | 1 | 2 | 0.1320282 | 9563 | hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase) |
| GO | positive regulation of cholesterol bio: | 1 | 2 | 0.1320282 | 9619 | ATP-binding cassette, sub-family G (WHITE), member 1 |
| GO | toxin transporter activity | 1 | 2 | 0.1320282 | 9619 | ATP-binding cassette, sub-family G (WHITE), member 1 |
| GO | regulation of skeletal muscle fiber de | 1 | 2 | 0.1320282 | 9734 | histone deacetylase 9 |
| GO | microspike assembly | 1 | 2 | 0.1320282 | 9788 | metastasis suppressor 1 |
| GO | clathrin heavy chain binding | 1 | 2 | 0.1320282 | 9892 | synaptosomal-associated protein, 91kDa homolog (mouse) |
| GO | positive regulation of embryonic dev | 1 | 2 | 0.1320282 | 9904 | RNA binding motif protein 19 |
| GO | sensory organ development | 1 | 2 | 0.1320282 | 9935 | v-maf musculoaponeurotic fibrosarcoma oncogene homolog B (avian) |
| GO | L-ascorbate:sodium symporter activit | 1 | 2 | 0.1320282 | 9962 | solute carrier family 23 (nucleobase transporters), member 2 |
| GO | L-ascorbic acid metabolic process | 1 | 2 | 0.1320282 | 9962 | solute carrier family 23 (nucleobase transporters), member 2 |
| GO | L-ascorbic acid transporter activity | 1 | 2 | 0.1320282 | 9962 | solute carrier family 23 (nucleobase transporters), member 2 |
| GO | L-ascorbic acid transport | 1 | 2 | 0.1320282 | 9962 | solute carrier family 23 (nucleobase transporters), member 2 |
| GO | molecular hydrogen transport | 1 | 2 | 0.1320282 | 9962 | solute carrier family 23 (nucleobase transporters), member 2 |
| GO | nucleobase transmembrane transpor | 1 | 2 | 0.1320282 | 9962 | solute carrier family 23 (nucleobase transporters), member 2 |

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|---|---|---|---|---|---|---|
| GO | nucleobase transport | 1 | 2 | 0.1320282 | 9962 | solute carrier family 23 (nucleobase transporters), member 2 |
| GO | sodium-dependent L-ascorbate trans | 1 | 2 | 0.1320282 | 9962 | solute carrier family 23 (nucleobase transporters), member 2 |
| GO | sodium-dependent multivitamin tran | 1 | 2 | 0.1320282 | 9962 | solute carrier family 23 (nucleobase transporters), member 2 |
| GO | transepithelial L-ascorbic acid transp | 1 | 2 | 0.1320282 | 9962 | solute carrier family 23 (nucleobase transporters), member 2 |
| GO | regulation of carbohydrate metabolic | 1 | 2 | 0.1320282 | 9971 | nuclear receptor subfamily 1, group H, member 4 |
| GO | respiratory gaseous exchange | 4 | 29 | 0.1328826 | 1080 | cystic fibrosis transmembrane conductance regulator (ATP-binding cas |
| GO | respiratory gaseous exchange | 4 | 29 | 0.1328826 | 1906 | endothelin 1 |
| GO | respiratory gaseous exchange | 4 | 29 | 0.1328826 | 4692 | necdin homolog (mouse) |
| GO | respiratory gaseous exchange | 4 | 29 | 0.1328826 | 9935 | v-maf musculoaponeurotic fibrosarcoma oncogene homolog B (avian) |
| GO | positive regulation of ERK1 and ERK2 | 4 | 29 | 0.1328826 | 168667 | BMP binding endothelial regulator |
| GO | positive regulation of ERK1 and ERK2 | 4 | 29 | 0.1328826 | 64127 | nucleotide-binding oligomerization domain containing 2 |
| GO | positive regulation of ERK1 and ERK2 | 4 | 29 | 0.1328826 | 652 | bone morphogenetic protein 4 |
| GO | positive regulation of ERK1 and ERK2 | 4 | 29 | 0.1328826 | 7099 | toll-like receptor 4 |
| GO | negative regulation of neuron apopt | 6 | 51 | 0.1330528 | 183 | angiotensinogen (serpin peptidase inhibitor, clade A, member 8) |
| GO | negative regulation of neuron apopt | 6 | 51 | 0.1330528 | 28996 | homeodomain interacting protein kinase 2 |
| GO | negative regulation of neuron apopt | 6 | 51 | 0.1330528 | 3845 | v-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog |
| GO | negative regulation of neuron apopt | 6 | 51 | 0.1330528 | 4929 | nuclear receptor subfamily 4, group A, member 2 |
| GO | negative regulation of neuron apopt | 6 | 51 | 0.1330528 | 627 | brain-derived neurotrophic factor |
| GO | negative regulation of neuron apopt | 6 | 51 | 0.1330528 | 6622 | synuclein, alpha (non A4 component of amyloid precursor) |
| GO | male gonad development | 5 | 40 | 0.1350332 | 54361 | wingless-type MMTV integration site family, member 4 |
| GO | male gonad development | 5 | 40 | 0.1350332 | 5950 | retinol binding protein 4, plasma |
| GO | male gonad development | 5 | 40 | 0.1350332 | 5972 | renin |
| GO | male gonad development | 5 | 40 | 0.1350332 | 7474 | wingless-type MMTV integration site family, member 5A |
| GO | male gonad development | 5 | 40 | 0.1350332 | 8531 | cold shock domain protein A |
| GO | regulation of signal transduction | 3 | 19 | 0.1365361 | 10252 | sprouty homolog 1, antagonist of FGF signaling (Drosophila) |
| GO | regulation of signal transduction | 3 | 19 | 0.1365361 | 10253 | sprouty homolog 2 (Drosophila) |
| GO | regulation of signal transduction | 3 | 19 | 0.1365361 | 154043 | CNKSR family member 3 |
| GO | lipid particle | 3 | 19 | 0.1365361 | 123 | perilipin 2 |
| GO | lipid particle | 3 | 19 | 0.1365361 | 5346 | perilipin 1 |
| GO | lipid particle | 3 | 19 | 0.1365361 | 57104 | patatin-like phospholipase domain containing 2 |
| GO | protein amino acid O-linked glycosyla | 3 | 19 | 0.1365361 | 22906 | trafficking protein, kinesin binding 1 |
| GO | protein amino acid O-linked glycosyla | 3 | 19 | 0.1365361 | 2589 | UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosami |
| GO | protein amino acid O-linked glycosyla | 3 | 19 | 0.1365361 | 3949 | low density lipoprotein receptor |
| GO | negative regulation of cell differentia | 3 | 19 | 0.1365361 | 2737 | GLI family zinc finger 3 |
| GO | negative regulation of cell differentia | 3 | 19 | 0.1365361 | 54361 | wingless-type MMTV integration site family, member 4 |
| GO | negative regulation of cell differentia | 3 | 19 | 0.1365361 | 604 | B-cell CLL/lymphoma 6 |

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|---|---|---|---|---|---|---|
| GO | spleen development | 3 | 19 | 0.1365361 | 28982 | feline leukemia virus subgroup C cellular receptor 1 |
| GO | spleen development | 3 | 19 | 0.1365361 | 3175 | one cut homeobox 1 |
| GO | spleen development | 3 | 19 | 0.1365361 | 4791 | nuclear factor of kappa light polypeptide gene enhancer in B-cells 2 (p4 |
| GO | protein heterodimerization activity | 18 | 199 | 0.1365571 | 11213 | interleukin-1 receptor-associated kinase 3 |
| GO | protein heterodimerization activity | 18 | 199 | 0.1365571 | 116113 | forkhead box P4 |
| GO | protein heterodimerization activity | 18 | 199 | 0.1365571 | 127343 | diencephalon/mesencephalon homeobox 1 |
| GO | protein heterodimerization activity | 18 | 199 | 0.1365571 | 2026 | enolase 2 (gamma, neuronal) |
| GO | protein heterodimerization activity | 18 | 199 | 0.1365571 | 22807 | IKAROS family zinc finger 2 (Helios) |
| GO | protein heterodimerization activity | 18 | 199 | 0.1365571 | 2353 | FBJ murine osteosarcoma viral oncogene homolog |
| GO | protein heterodimerization activity | 18 | 199 | 0.1365571 | 3164 | nuclear receptor subfamily 4, group A, member 1 |
| GO | protein heterodimerization activity | 18 | 199 | 0.1365571 | 3725 | jun oncogene |
| GO | protein heterodimerization activity | 18 | 199 | 0.1365571 | 4056 | leukotriene C4 synthase |
| GO | protein heterodimerization activity | 18 | 199 | 0.1365571 | 4170 | myeloid cell leukemia sequence 1 (BCL2-related) |
| GO | protein heterodimerization activity | 18 | 199 | 0.1365571 | 4929 | nuclear receptor subfamily 4, group A, member 2 |
| GO | protein heterodimerization activity | 18 | 199 | 0.1365571 | 5025 | purinergic receptor P2X, ligand-gated ion channel, 4 |
| GO | protein heterodimerization activity | 18 | 199 | 0.1365571 | 51085 | MLX interacting protein-like |
| GO | protein heterodimerization activity | 18 | 199 | 0.1365571 | 5371 | promyelocytic leukemia |
| GO | protein heterodimerization activity | 18 | 199 | 0.1365571 | 57186 | Ral GTPase activating protein, alpha subunit 2 (catalytic) |
| GO | protein heterodimerization activity | 18 | 199 | 0.1365571 | 7097 | toll-like receptor 2 |
| GO | protein heterodimerization activity | 18 | 199 | 0.1365571 | 8527 | diacylglycerol kinase, delta 130kDa |
| GO | protein heterodimerization activity | 18 | 199 | 0.1365571 | 9619 | ATP-binding cassette, sub-family G (WHITE), member 1 |
| GO | defense response | 7 | 63 | 0.1372825 | 1471 | cystatin C |
| GO | defense response | 7 | 63 | 0.1372825 | 3783 | potassium intermediate/small conductance calcium-activated channel, |
| GO | defense response | 7 | 63 | 0.1372825 | 4486 | macrophage stimulating 1 receptor (c-met-related tyrosine kinase) |
| GO | defense response | 7 | 63 | 0.1372825 | 4599 | myxovirus (influenza virus) resistance 1, interferon-inducible protein p |
| GO | defense response | 7 | 63 | 0.1372825 | 4600 | myxovirus (influenza virus) resistance 2 (mouse) |
| GO | defense response | 7 | 63 | 0.1372825 | 64127 | nucleotide-binding oligomerization domain containing 2 |
| GO | defense response | 7 | 63 | 0.1372825 | 819 | calcium modulating ligand |
| GO | cell surface receptor linked signaling | 15 | 161 | 0.1375077 | 10288 | leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM |
| GO | cell surface receptor linked signaling | 15 | 161 | 0.1375077 | 154 | adrenergic, beta-2-, receptor, surface |
| GO | cell surface receptor linked signaling | 15 | 161 | 0.1375077 | 1906 | endothelin 1 |
| GO | cell surface receptor linked signaling | 15 | 161 | 0.1375077 | 2205 | Fc fragment of IgE, high affinity I, receptor for; alpha polypeptide |
| GO | cell surface receptor linked signaling | 15 | 161 | 0.1375077 | 23529 | cardiotrophin-like cytokine factor 1 |
| GO | cell surface receptor linked signaling | 15 | 161 | 0.1375077 | 29126 | CD274 molecule |
| GO | cell surface receptor linked signaling | 15 | 161 | 0.1375077 | 4684 | neural cell adhesion molecule 1 |
| GO | cell surface receptor linked signaling | 15 | 161 | 0.1375077 | 5362 | plexin A2 |

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|---|---|---|---|---|---|---|
| GO | cell surface receptor linked signaling | 15 | 161 | 0.1375077 | 573 | BCL2-associated athanogene |
| GO | cell surface receptor linked signaling | 15 | 161 | 0.1375077 | 6750 | somatostatin |
| GO | cell surface receptor linked signaling | 15 | 161 | 0.1375077 | 6751 | somatostatin receptor 1 |
| GO | cell surface receptor linked signaling | 15 | 161 | 0.1375077 | 682 | basigin (Ok blood group) |
| GO | cell surface receptor linked signaling | 15 | 161 | 0.1375077 | 7133 | tumor necrosis factor receptor superfamily, member 1B |
| GO | cell surface receptor linked signaling | 15 | 161 | 0.1375077 | 8519 | interferon induced transmembrane protein 1 (9-27) |
| GO | cell surface receptor linked signaling | 15 | 161 | 0.1375077 | 929 | CD14 molecule |
| GO | actin binding | 24 | 278 | 0.141386 | 11078 | TRIO and F-actin binding protein |
| GO | actin binding | 24 | 278 | 0.141386 | 2039 | erythrocyte membrane protein band 4.9 (dematin) |
| GO | actin binding | 24 | 278 | 0.141386 | 22998 | LIM and calponin homology domains 1 |
| GO | actin binding | 24 | 278 | 0.141386 | 23500 | dishevelled associated activator of morphogenesis 2 |
| GO | actin binding | 24 | 278 | 0.141386 | 2638 | group-specific component (vitamin D binding protein) |
| GO | actin binding | 24 | 278 | 0.141386 | 3983 | actin binding LIM protein 1 |
| GO | actin binding | 24 | 278 | 0.141386 | 4638 | myosin light chain kinase |
| GO | actin binding | 24 | 278 | 0.141386 | 4645 | myosin VB |
| GO | actin binding | 24 | 278 | 0.141386 | 51168 | myosin XVA |
| GO | actin binding | 24 | 278 | 0.141386 | 5304 | prolactin-induced protein |
| GO | actin binding | 24 | 278 | 0.141386 | 53827 | FXYD domain containing ion transport regulator 5 |
| GO | actin binding | 24 | 278 | 0.141386 | 55740 | enabled homolog (Drosophila) |
| GO | actin binding | 24 | 278 | 0.141386 | 57619 | shroom family member 3 |
| GO | actin binding | 24 | 278 | 0.141386 | 6521 | solute carrier family 4, anion exchanger, member 1 (erythrocyte memb |
| GO | actin binding | 24 | 278 | 0.141386 | 6710 | spectrin, beta, erythrocytic |
| GO | actin binding | 24 | 278 | 0.141386 | 7111 | tropomodulin 1 |
| GO | actin binding | 24 | 278 | 0.141386 | 7170 | tropomyosin 3 |
| GO | actin binding | 24 | 278 | 0.141386 | 7464 | coronin, actin binding protein, 2A |
| GO | actin binding | 24 | 278 | 0.141386 | 7852 | chemokine (C-X-C motif) receptor 4 |
| GO | actin binding | 24 | 278 | 0.141386 | 79789 | calmin (calponin-like, transmembrane) |
| GO | actin binding | 24 | 278 | 0.141386 | 85462 | FH2 domain containing 1 |
| GO | actin binding | 24 | 278 | 0.141386 | 85477 | scinderin |
| GO | actin binding | 24 | 278 | 0.141386 | 9087 | thymosin beta 4, Y-linked |
| GO | actin binding | 24 | 278 | 0.141386 | 9749 | phosphatase and actin regulator 2 |
| GO | monooxygenase activity | 6 | 52 | 0.1422747 | 1558 | cytochrome P450, family 2, subfamily C, polypeptide 8 |
| GO | monooxygenase activity | 6 | 52 | 0.1422747 | 1559 | cytochrome P450, family 2, subfamily C, polypeptide 9 |
| GO | monooxygenase activity | 6 | 52 | 0.1422747 | 1571 | cytochrome P450, family 2, subfamily E, polypeptide 1 |
| GO | monooxygenase activity | 6 | 52 | 0.1422747 | 1577 | cytochrome P450, family 3, subfamily A, polypeptide 5 |
| GO | monooxygenase activity | 6 | 52 | 0.1422747 | 5066 | peptidylglycine alpha-amidating monooxygenase |

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|---|---|---|---|---|---|---|
| GO | monooxygenase activity | 6 | 52 | 0.1422747 | 6916 | thromboxane A synthase 1 (platelet) |
| GO | central nervous system development | 10 | 100 | 0.1450876 | 10231 | regulator of calcineurin 2 |
| GO | central nervous system development | 10 | 100 | 0.1450876 | 127343 | diencephalon/mesencephalon homeobox 1 |
| GO | central nervous system development | 10 | 100 | 0.1450876 | 1821 | dystrophin related protein 2 |
| GO | central nervous system development | 10 | 100 | 0.1450876 | 1822 | atrophin 1 |
| GO | central nervous system development | 10 | 100 | 0.1450876 | 4692 | necdin homolog (mouse) |
| GO | central nervous system development | 10 | 100 | 0.1450876 | 5071 | Parkinson disease (autosomal recessive, juvenile) 2, parkin |
| GO | central nervous system development | 10 | 100 | 0.1450876 | 56923 | neuromedin U receptor 2 |
| GO | central nervous system development | 10 | 100 | 0.1450876 | 57453 | Down syndrome cell adhesion molecule like 1 |
| GO | central nervous system development | 10 | 100 | 0.1450876 | 8646 | chordin |
| GO | central nervous system development | 10 | 100 | 0.1450876 | 91 | activin A receptor, type IB |
| GO | one-carbon metabolic process | 4 | 30 | 0.1455367 | 11238 | carbonic anhydrase VB, mitochondrial |
| GO | one-carbon metabolic process | 4 | 30 | 0.1455367 | 23382 | adenosylhomocysteinase-like 2 |
| GO | one-carbon metabolic process | 4 | 30 | 0.1455367 | 760 | carbonic anhydrase II |
| GO | one-carbon metabolic process | 4 | 30 | 0.1455367 | 771 | carbonic anhydrase XII |
| GO | response to organic nitrogen | 4 | 30 | 0.1455367 | 1571 | cytochrome P450, family 2, subfamily E, polypeptide 1 |
| GO | response to organic nitrogen | 4 | 30 | 0.1455367 | 205 | adenylate kinase 3-like 1 |
| GO | response to organic nitrogen | 4 | 30 | 0.1455367 | 5742 | prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase a |
| GO | response to organic nitrogen | 4 | 30 | 0.1455367 | 6750 | somatostatin |
| GO | insulin receptor binding | 4 | 30 | 0.1455367 | 3479 | insulin-like growth factor 1 (somatomedin C) |
| GO | insulin receptor binding | 4 | 30 | 0.1455367 | 5295 | phosphoinositide-3-kinase, regulatory subunit 1 (alpha) |
| GO | insulin receptor binding | 4 | 30 | 0.1455367 | 55816 | docking protein 5 |
| GO | insulin receptor binding | 4 | 30 | 0.1455367 | 8660 | insulin receptor substrate 2 |
| GO | negative regulation of protein kinase | 5 | 41 | 0.1456895 | 10221 | tribbles homolog 1 (Drosophila) |
| GO | negative regulation of protein kinase | 5 | 41 | 0.1456895 | 10912 | growth arrest and DNA-damage-inducible, gamma |
| GO | negative regulation of protein kinase | 5 | 41 | 0.1456895 | 28951 | tribbles homolog 2 (Drosophila) |
| GO | negative regulation of protein kinase | 5 | 41 | 0.1456895 | 4616 | growth arrest and DNA-damage-inducible, beta |
| GO | negative regulation of protein kinase | 5 | 41 | 0.1456895 | 64798 | DEP domain containing 6 |
| GO | cholesterol homeostasis | 5 | 41 | 0.1456895 | 255738 | proprotein convertase subtilisin/kexin type 9 |
| GO | cholesterol homeostasis | 5 | 41 | 0.1456895 | 26119 | low density lipoprotein receptor adaptor protein 1 |
| GO | cholesterol homeostasis | 5 | 41 | 0.1456895 | 29116 | myosin regulatory light chain interacting protein |
| GO | cholesterol homeostasis | 5 | 41 | 0.1456895 | 3949 | low density lipoprotein receptor |
| GO | cholesterol homeostasis | 5 | 41 | 0.1456895 | 9619 | ATP-binding cassette, sub-family G (WHITE), member 1 |
| GO | death receptor binding | 2 | 10 | 0.145899 | 10116 | fem-1 homolog b (C. elegans) |
| GO | death receptor binding | 2 | 10 | 0.145899 | 9966 | tumor necrosis factor (ligand) superfamily, member 15 |
| GO | negative regulation of ossification | 2 | 10 | 0.145899 | 154 | adrenergic, beta-2-, receptor, surface |

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|---|---|---|---|---|---|---|
| GO | negative regulation of ossification | 2 | 10 | 0.145899 | 799 | calcitonin receptor |
| GO | phagocytic vesicle membrane | 2 | 10 | 0.145899 | 1755 | deleted in malignant brain tumors 1 |
| GO | phagocytic vesicle membrane | 2 | 10 | 0.145899 | 80223 | RAB11 family interacting protein 1 (class I) |
| GO | receptor internalization | 2 | 10 | 0.145899 | 1785 | dynamin 2 |
| GO | receptor internalization | 2 | 10 | 0.145899 | 6622 | synuclein, alpha (non A4 component of amyloid precursor) |
| GO | elevation of cytosolic calcium ion con | 2 | 10 | 0.145899 | 1813 | dopamine receptor D2 |
| GO | elevation of cytosolic calcium ion con | 2 | 10 | 0.145899 | 1906 | endothelin 1 |
| GO | cytoplasmic part | 2 | 10 | 0.145899 | 183 | angiotensinogen (serpin peptidase inhibitor, clade A, member 8) |
| GO | cytoplasmic part | 2 | 10 | 0.145899 | 5972 | renin |
| GO | negative regulation of blood coagulat | 2 | 10 | 0.145899 | 1906 | endothelin 1 |
| GO | negative regulation of blood coagulat | 2 | 10 | 0.145899 | 3827 | kininogen 1 |
| GO | negative regulation of hormone secre | 2 | 10 | 0.145899 | 1906 | endothelin 1 |
| GO | negative regulation of hormone secre | 2 | 10 | 0.145899 | 4886 | neuropeptide Y receptor Y1 |
| GO | heparan sulfate proteoglycan binding | 2 | 10 | 0.145899 | 2239 | glypican 4 |
| GO | heparan sulfate proteoglycan binding | 2 | 10 | 0.145899 | 2262 | glypican 5 |
| GO | vascular endothelial growth factor re | 2 | 10 | 0.145899 | 2296 | forkhead box C1 |
| GO | vascular endothelial growth factor re | 2 | 10 | 0.145899 | 2303 | forkhead box C2 (MFH-1, mesenchyme forkhead 1) |
| GO | regulation of exocytosis | 2 | 10 | 0.145899 | 25837 | RAB26, member RAS oncogene family |
| GO | regulation of exocytosis | 2 | 10 | 0.145899 | 6857 | synaptotagmin I |
| GO | phosphotyrosine binding | 2 | 10 | 0.145899 | 26119 | low density lipoprotein receptor adaptor protein 1 |
| GO | phosphotyrosine binding | 2 | 10 | 0.145899 | 5774 | protein tyrosine phosphatase, non-receptor type 3 |
| GO | limb morphogenesis | 2 | 10 | 0.145899 | 2737 | GLI family zinc finger 3 |
| GO | limb morphogenesis | 2 | 10 | 0.145899 | 28982 | feline leukemia virus subgroup C cellular receptor 1 |
| GO | positive regulation of glycogen biosyr | 2 | 10 | 0.145899 | 3643 | insulin receptor |
| GO | positive regulation of glycogen biosyr | 2 | 10 | 0.145899 | 8660 | insulin receptor substrate 2 |
| GO | lipoprotein binding | 2 | 10 | 0.145899 | 3949 | low density lipoprotein receptor |
| GO | lipoprotein binding | 2 | 10 | 0.145899 | 7097 | toll-like receptor 2 |
| GO | receptor tyrosine kinase binding | 2 | 10 | 0.145899 | 399694 | SHC (Src homology 2 domain containing) family, member 4 |
| GO | receptor tyrosine kinase binding | 2 | 10 | 0.145899 | 83394 | PITPNM family member 3 |
| GO | transforming growth factor beta rece | 2 | 10 | 0.145899 | 4087 | SMAD family member 2 |
| GO | transforming growth factor beta rece | 2 | 10 | 0.145899 | 7049 | transforming growth factor, beta receptor III |
| GO | limb development | 2 | 10 | 0.145899 | 4223 | mesenchyme homeobox 2 |
| GO | limb development | 2 | 10 | 0.145899 | 7026 | nuclear receptor subfamily 2, group F, member 2 |
| GO | CTP biosynthetic process | 2 | 10 | 0.145899 | 51314 | thioredoxin domain containing 3 (spermatozoa) |
| GO | CTP biosynthetic process | 2 | 10 | 0.145899 | 8382 | non-metastatic cells 5, protein expressed in (nucleoside-diphosphate k |
| GO | transforming growth factor beta binc | 2 | 10 | 0.145899 | 7049 | transforming growth factor, beta receptor III |

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|---|---|---|---|---|---|---|
| GO | transforming growth factor beta binc | 2 | 10 | 0.145899 | 94 | activin A receptor type II-like 1 |
| GO | potassium ion transport | 14 | 151 | 0.1514828 | 157855 | potassium channel, subfamily U, member 1 |
| GO | potassium ion transport | 14 | 151 | 0.1514828 | 27345 | potassium large conductance calcium-activated channel, subfamily M, |
| GO | potassium ion transport | 14 | 151 | 0.1514828 | 343450 | potassium channel, subfamily T, member 2 |
| GO | potassium ion transport | 14 | 151 | 0.1514828 | 358 | aquaporin 1 (Colton blood group) |
| GO | potassium ion transport | 14 | 151 | 0.1514828 | 3759 | potassium inwardly-rectifying channel, subfamily J, member 2 |
| GO | potassium ion transport | 14 | 151 | 0.1514828 | 3773 | potassium inwardly-rectifying channel, subfamily J, member 16 |
| GO | potassium ion transport | 14 | 151 | 0.1514828 | 3775 | potassium channel, subfamily K, member 1 |
| GO | potassium ion transport | 14 | 151 | 0.1514828 | 3782 | potassium intermediate/small conductance calcium-activated channel, |
| GO | potassium ion transport | 14 | 151 | 0.1514828 | 3783 | potassium intermediate/small conductance calcium-activated channel, |
| GO | potassium ion transport | 14 | 151 | 0.1514828 | 3786 | potassium voltage-gated channel, KQT-like subfamily, member 3 |
| GO | potassium ion transport | 14 | 151 | 0.1514828 | 3790 | potassium voltage-gated channel, delayed-rectifier, subfamily S, memb |
| GO | potassium ion transport | 14 | 151 | 0.1514828 | 84561 | solute carrier family 12 (potassium/chloride transporters), member 8 |
| GO | potassium ion transport | 14 | 151 | 0.1514828 | 8514 | potassium voltage-gated channel, shaker-related subfamily, beta mem |
| GO | potassium ion transport | 14 | 151 | 0.1514828 | 8645 | potassium channel, subfamily K, member 5 |
| GO | GTP binding | 29 | 347 | 0.1522536 | 115273 | RAB42, member RAS oncogene family |
| GO | GTP binding | 29 | 347 | 0.1522536 | 1785 | dynamin 2 |
| GO | GTP binding | 29 | 347 | 0.1522536 | 1915 | eukaryotic translation elongation factor 1 alpha 1 |
| GO | GTP binding | 29 | 347 | 0.1522536 | 1983 | eukaryotic translation initiation factor 5 |
| GO | GTP binding | 29 | 347 | 0.1522536 | 205 | adenylate kinase 3-like 1 |
| GO | GTP binding | 29 | 347 | 0.1522536 | 23348 | dedicator of cytokinesis 9 |
| GO | GTP binding | 29 | 347 | 0.1522536 | 23682 | RAB38, member RAS oncogene family |
| GO | GTP binding | 29 | 347 | 0.1522536 | 25837 | RAB26, member RAS oncogene family |
| GO | GTP binding | 29 | 347 | 0.1522536 | 26157 | GTPase, IMAP family member 2 |
| GO | GTP binding | 29 | 347 | 0.1522536 | 2633 | guanylate binding protein 1, interferon-inducible, 67kDa |
| GO | GTP binding | 29 | 347 | 0.1522536 | 2634 | guanylate binding protein 2, interferon-inducible |
| GO | GTP binding | 29 | 347 | 0.1522536 | 2635 | guanylate binding protein 3 |
| GO | GTP binding | 29 | 347 | 0.1522536 | 2769 | guanine nucleotide binding protein (G protein), alpha 15 (Gq class) |
| GO | GTP binding | 29 | 347 | 0.1522536 | 3643 | insulin receptor |
| GO | GTP binding | 29 | 347 | 0.1522536 | 379 | ADP-ribosylation factor-like 4D |
| GO | GTP binding | 29 | 347 | 0.1522536 | 3845 | v-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog |
| GO | GTP binding | 29 | 347 | 0.1522536 | 387496 | RAS-like, family 11, member A |
| GO | GTP binding | 29 | 347 | 0.1522536 | 392509 | ADP-ribosylation factor-like 13A |
| GO | GTP binding | 29 | 347 | 0.1522536 | 4599 | myxovirus (influenza virus) resistance 1, interferon-inducible protein p |
| GO | GTP binding | 29 | 347 | 0.1522536 | 4600 | myxovirus (influenza virus) resistance 2 (mouse) |
| GO | GTP binding | 29 | 347 | 0.1522536 | 51285 | RAS-like, family 12 |

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|---|---|---|---|---|---|---|
| GO | GTP binding | 29 | 347 | 0.1522536 | 51655 | RAS, dexamethasone-induced 1 |
| GO | GTP binding | 29 | 347 | 0.1522536 | 54769 | DIRAS family, GTP-binding RAS-like 2 |
| GO | GTP binding | 29 | 347 | 0.1522536 | 56923 | neuromedin U receptor 2 |
| GO | GTP binding | 29 | 347 | 0.1522536 | 57799 | RAB40C, member RAS oncogene family |
| GO | GTP binding | 29 | 347 | 0.1522536 | 5873 | RAB27A, member RAS oncogene family |
| GO | GTP binding | 29 | 347 | 0.1522536 | 7984 | Rho guanine nucleotide exchange factor (GEF) 5 |
| GO | GTP binding | 29 | 347 | 0.1522536 | 85004 | RAS-like, estrogen-regulated, growth inhibitor |
| GO | GTP binding | 29 | 347 | 0.1522536 | 9567 | GTP binding protein 1 |
| GO | B cell activation | 3 | 20 | 0.1529228 | 10014 | histone deacetylase 5 |
| GO | B cell activation | 3 | 20 | 0.1529228 | 684 | bone marrow stromal cell antigen 2 |
| GO | B cell activation | 3 | 20 | 0.1529228 | 9734 | histone deacetylase 9 |
| GO | positive regulation of bone mineraliz | 3 | 20 | 0.1529228 | 154 | adrenergic, beta-2-, receptor, surface |
| GO | positive regulation of bone mineraliz | 3 | 20 | 0.1529228 | 652 | bone morphogenetic protein 4 |
| GO | positive regulation of bone mineraliz | 3 | 20 | 0.1529228 | 91461 | protein kinase domain containing, cytoplasmic homolog (mouse) |
| GO | adult walking behavior | 3 | 20 | 0.1529228 | 1813 | dopamine receptor D2 |
| GO | adult walking behavior | 3 | 20 | 0.1529228 | 2055 | ceroid-lipofuscinosis, neuronal 8 (epilepsy, progressive with mental ret |
| GO | adult walking behavior | 3 | 20 | 0.1529228 | 28996 | homeodomain interacting protein kinase 2 |
| GO | response to amphetamine | 3 | 20 | 0.1529228 | 1813 | dopamine receptor D2 |
| GO | response to amphetamine | 3 | 20 | 0.1529228 | 1815 | dopamine receptor D4 |
| GO | response to amphetamine | 3 | 20 | 0.1529228 | 4929 | nuclear receptor subfamily 4, group A, member 2 |
| GO | positive regulation of mitosis | 3 | 20 | 0.1529228 | 1906 | endothelin 1 |
| GO | positive regulation of mitosis | 3 | 20 | 0.1529228 | 3479 | insulin-like growth factor 1 (somatomedin C) |
| GO | positive regulation of mitosis | 3 | 20 | 0.1529228 | 3643 | insulin receptor |
| GO | positive regulation of neuron apopto | 3 | 20 | 0.1529228 | 255738 | proprotein convertase subtilisin/kexin type 9 |
| GO | positive regulation of neuron apopto | 3 | 20 | 0.1529228 | 3725 | jun oncogene |
| GO | positive regulation of neuron apopto | 3 | 20 | 0.1529228 | 429 | achaete-scute complex homolog 1 (Drosophila) |
| GO | tissue regeneration | 3 | 20 | 0.1529228 | 3484 | insulin-like growth factor binding protein 1 |
| GO | tissue regeneration | 3 | 20 | 0.1529228 | 4851 | Notch homolog 1, translocation-associated (Drosophila) |
| GO | tissue regeneration | 3 | 20 | 0.1529228 | 4853 | Notch homolog 2 (Drosophila) |
| GO | response to steroid hormone stimulu | 3 | 20 | 0.1529228 | 4015 | lysyl oxidase |
| GO | response to steroid hormone stimulu | 3 | 20 | 0.1529228 | 4129 | monoamine oxidase B |
| GO | response to steroid hormone stimulu | 3 | 20 | 0.1529228 | 6750 | somatostatin |
| GO | L-ascorbic acid binding | 3 | 20 | 0.1529228 | 5066 | peptidylglycine alpha-amidating monooxygenase |
| GO | L-ascorbic acid binding | 3 | 20 | 0.1529228 | 5351 | procollagen-lysine 1, 2-oxoglutarate 5-dioxygenase 1 |
| GO | L-ascorbic acid binding | 3 | 20 | 0.1529228 | 54681 | prolyl 4-hydroxylase, transmembrane (endoplasmic reticulum) |
| GO | actin cytoskeleton organization | 11 | 114 | 0.1558943 | 10435 | CDC42 effector protein (Rho GTPase binding) 2 |

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|---|---|---|---|---|---|---|
| GO | actin cytoskeleton organization | 11 | 114 | 0.1558943 | 152273 | FYVE, RhoGEF and PH domain containing 5 |
| GO | actin cytoskeleton organization | 11 | 114 | 0.1558943 | 23092 | Rho GTPase activating protein 26 |
| GO | actin cytoskeleton organization | 11 | 114 | 0.1558943 | 23500 | dishevelled associated activator of morphogenesis 2 |
| GO | actin cytoskeleton organization | 11 | 114 | 0.1558943 | 3845 | v-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog |
| GO | actin cytoskeleton organization | 11 | 114 | 0.1558943 | 57619 | shroom family member 3 |
| GO | actin cytoskeleton organization | 11 | 114 | 0.1558943 | 604 | B-cell CLL/lymphoma 6 |
| GO | actin cytoskeleton organization | 11 | 114 | 0.1558943 | 81788 | NUAK family, SNF1-like kinase, 2 |
| GO | actin cytoskeleton organization | 11 | 114 | 0.1558943 | 85462 | FH2 domain containing 1 |
| GO | actin cytoskeleton organization | 11 | 114 | 0.1558943 | 9087 | thymosin beta 4, Y-linked |
| GO | actin cytoskeleton organization | 11 | 114 | 0.1558943 | 9788 | metastasis suppressor 1 |
| GO | regulation of cell cycle | 5 | 42 | 0.1566921 | 10912 | growth arrest and DNA-damage-inducible, gamma |
| GO | regulation of cell cycle | 5 | 42 | 0.1566921 | 2122 | MDS1 and EVI1 complex locus |
| GO | regulation of cell cycle | 5 | 42 | 0.1566921 | 3725 | jun oncogene |
| GO | regulation of cell cycle | 5 | 42 | 0.1566921 | 3726 | jun B proto-oncogene |
| GO | regulation of cell cycle | 5 | 42 | 0.1566921 | 4616 | growth arrest and DNA-damage-inducible, beta |
| GO | calcium-dependent protein binding | 4 | 31 | 0.1586374 | 1755 | deleted in malignant brain tumors 1 |
| GO | calcium-dependent protein binding | 4 | 31 | 0.1586374 | 311 | annexin A11 |
| GO | calcium-dependent protein binding | 4 | 31 | 0.1586374 | 5648 | mannan-binding lectin serine peptidase 1 (C4/C2 activating componen |
| GO | calcium-dependent protein binding | 4 | 31 | 0.1586374 | 6857 | synaptotagmin I |
| GO | transcription from RNA polymerase II | 16 | 178 | 0.1591611 | 1999 | E74-like factor 3 (ets domain transcription factor, epithelial-specific ) |
| GO | transcription from RNA polymerase II | 16 | 178 | 0.1591611 | 2115 | ets variant 1 |
| GO | transcription from RNA polymerase II | 16 | 178 | 0.1591611 | 23650 | tripartite motif-containing 29 |
| GO | transcription from RNA polymerase II | 16 | 178 | 0.1591611 | 3131 | hepatic leukemia factor |
| GO | transcription from RNA polymerase II | 16 | 178 | 0.1591611 | 3659 | interferon regulatory factor 1 |
| GO | transcription from RNA polymerase II | 16 | 178 | 0.1591611 | 4783 | nuclear factor, interleukin 3 regulated |
| GO | transcription from RNA polymerase II | 16 | 178 | 0.1591611 | 4784 | nuclear factor I/X (CCAAT-binding transcription factor) |
| GO | transcription from RNA polymerase II | 16 | 178 | 0.1591611 | 51621 | Kruppel-like factor 13 |
| GO | transcription from RNA polymerase II | 16 | 178 | 0.1591611 | 5465 | peroxisome proliferator-activated receptor alpha |
| GO | transcription from RNA polymerase II | 16 | 178 | 0.1591611 | 55870 | ash1 (absent, small, or homeotic)-like (Drosophila) |
| GO | transcription from RNA polymerase II | 16 | 178 | 0.1591611 | 6239 | ras responsive element binding protein 1 |
| GO | transcription from RNA polymerase II | 16 | 178 | 0.1591611 | 7227 | trichorhinophalangeal syndrome I |
| GO | transcription from RNA polymerase II | 16 | 178 | 0.1591611 | 80714 | pre-B-cell leukemia homeobox 4 |
| GO | transcription from RNA polymerase II | 16 | 178 | 0.1591611 | 8462 | Kruppel-like factor 11 |
| GO | transcription from RNA polymerase II | 16 | 178 | 0.1591611 | 8543 | LIM domain only 4 |
| GO | transcription from RNA polymerase II | 16 | 178 | 0.1591611 | 8848 | TSC22 domain family, member 1 |
| GO | Wnt receptor signaling pathway | 9 | 90 | 0.161066 | 10023 | frequently rearranged in advanced T-cell lymphomas |

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|---|---|---|---|---|---|---|
| GO | Wnt receptor signaling pathway | 9 | 90 | 0.161066 | 23043 | TRAF2 and NCK interacting kinase |
| GO | Wnt receptor signaling pathway | 9 | 90 | 0.161066 | 4163 | mutated in colorectal cancers |
| GO | Wnt receptor signaling pathway | 9 | 90 | 0.161066 | 4286 | microphthalmia-associated transcription factor |
| GO | Wnt receptor signaling pathway | 9 | 90 | 0.161066 | 5218 | cyclin-dependent kinase 14 |
| GO | Wnt receptor signaling pathway | 9 | 90 | 0.161066 | 64359 | nucleoredoxin |
| GO | Wnt receptor signaling pathway | 9 | 90 | 0.161066 | 7089 | transducin-like enhancer of split 2 (E(sp1) homolog, Drosophila) |
| GO | Wnt receptor signaling pathway | 9 | 90 | 0.161066 | 7090 | transducin-like enhancer of split 3 (E(sp1) homolog, Drosophila) |
| GO | Wnt receptor signaling pathway | 9 | 90 | 0.161066 | 79971 | wntless homolog (Drosophila) |
| GO | serine-type endopeptidase inhibitor a | 9 | 90 | 0.161066 | 153218 | serine peptidase inhibitor, Kazal type 13 (putative) |
| GO | serine-type endopeptidase inhibitor a | 9 | 90 | 0.161066 | 183 | angiotensinogen (serpin peptidase inhibitor, clade A, member 8) |
| GO | serine-type endopeptidase inhibitor a | 9 | 90 | 0.161066 | 404203 | serine peptidase inhibitor, Kazal type 6 |
| GO | serine-type endopeptidase inhibitor a | 9 | 90 | 0.161066 | 6590 | secretory leukocyte peptidase inhibitor |
| GO | serine-type endopeptidase inhibitor a | 9 | 90 | 0.161066 | 6690 | serine peptidase inhibitor, Kazal type 1 |
| GO | serine-type endopeptidase inhibitor a | 9 | 90 | 0.161066 | 6692 | serine peptidase inhibitor, Kunitz type 1 |
| GO | serine-type endopeptidase inhibitor a | 9 | 90 | 0.161066 | 80760 | inter-alpha (globulin) inhibitor H5 |
| GO | serine-type endopeptidase inhibitor a | 9 | 90 | 0.161066 | 8434 | reversion-inducing-cysteine-rich protein with kazal motifs |
| GO | serine-type endopeptidase inhibitor a | 9 | 90 | 0.161066 | 89778 | serpin peptidase inhibitor, clade B (ovalbumin), member 11 (gene/pseu |
| GO | calmodulin binding | 13 | 140 | 0.1611272 | 1612 | death-associated protein kinase 1 |
| GO | calmodulin binding | 13 | 140 | 0.1611272 | 23604 | death-associated protein kinase 2 |
| GO | calmodulin binding | 13 | 140 | 0.1611272 | 3782 | potassium intermediate/small conductance calcium-activated channel, |
| GO | calmodulin binding | 13 | 140 | 0.1611272 | 3783 | potassium intermediate/small conductance calcium-activated channel, |
| GO | calmodulin binding | 13 | 140 | 0.1611272 | 4638 | myosin light chain kinase |
| GO | calmodulin binding | 13 | 140 | 0.1611272 | 4645 | myosin VB |
| GO | calmodulin binding | 13 | 140 | 0.1611272 | 4842 | nitric oxide synthase 1 (neuronal) |
| GO | calmodulin binding | 13 | 140 | 0.1611272 | 493 | ATPase, Ca++ transporting, plasma membrane 4 |
| GO | calmodulin binding | 13 | 140 | 0.1611272 | 51168 | myosin XVA |
| GO | calmodulin binding | 13 | 140 | 0.1611272 | 5136 | phosphodiesterase 1A, calmodulin-dependent |
| GO | calmodulin binding | 13 | 140 | 0.1611272 | 57118 | calcium/calmodulin-dependent protein kinase ID |
| GO | calmodulin binding | 13 | 140 | 0.1611272 | 6004 | regulator of G-protein signaling 16 |
| GO | calmodulin binding | 13 | 140 | 0.1611272 | 6857 | synaptotagmin I |
| GO | cysteine-type endopeptidase activity | 6 | 54 | 0.1615628 | 1508 | cathepsin B |
| GO | cysteine-type endopeptidase activity | 6 | 54 | 0.1615628 | 1519 | cathepsin O |
| GO | cysteine-type endopeptidase activity | 6 | 54 | 0.1615628 | 29108 | PYD and CARD domain containing |
| GO | cysteine-type endopeptidase activity | 6 | 54 | 0.1615628 | 834 | caspase 1, apoptosis-related cysteine peptidase (interleukin 1, beta, co |
| GO | cysteine-type endopeptidase activity | 6 | 54 | 0.1615628 | 837 | caspase 4, apoptosis-related cysteine peptidase |
| GO | cysteine-type endopeptidase activity | 6 | 54 | 0.1615628 | 8722 | cathepsin F |

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| GO | protein localization | 6 | 54 | 0.1615628 | 1813 | dopamine receptor D2 |
| GO | protein localization | 6 | 54 | 0.1615628 | 259173 | ALS2 C-terminal like |
| GO | protein localization | 6 | 54 | 0.1615628 | 53405 | chloride intracellular channel 5 |
| GO | protein localization | 6 | 54 | 0.1615628 | 55909 | bridging integrator 3 |
| GO | protein localization | 6 | 54 | 0.1615628 | 604 | B-cell CLL/lymphoma 6 |
| GO | protein localization | 6 | 54 | 0.1615628 | 81693 | amnionless homolog (mouse) |
| GO | endocytosis | 10 | 103 | 0.1657623 | 1785 | dynamin 2 |
| GO | endocytosis | 10 | 103 | 0.1657623 | 22925 | phospholipase A2 receptor 1, 180kDa |
| GO | endocytosis | 10 | 103 | 0.1657623 | 23048 | formin binding protein 1 |
| GO | endocytosis | 10 | 103 | 0.1657623 | 26119 | low density lipoprotein receptor adaptor protein 1 |
| GO | endocytosis | 10 | 103 | 0.1657623 | 286133 | scavenger receptor class A, member 5 (putative) |
| GO | endocytosis | 10 | 103 | 0.1657623 | 3845 | v-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog |
| GO | endocytosis | 10 | 103 | 0.1657623 | 3949 | low density lipoprotein receptor |
| GO | endocytosis | 10 | 103 | 0.1657623 | 4038 | low density lipoprotein receptor-related protein 4 |
| GO | endocytosis | 10 | 103 | 0.1657623 | 4065 | lymphocyte antigen 75 |
| GO | endocytosis | 10 | 103 | 0.1657623 | 8527 | diacylglycerol kinase, delta 130kDa |
| GO | inner ear morphogenesis | 5 | 43 | 0.168023 | 10253 | sprouty homolog 2 (Drosophila) |
| GO | inner ear morphogenesis | 5 | 43 | 0.168023 | 2290 | forkhead box G1 |
| GO | inner ear morphogenesis | 5 | 43 | 0.168023 | 51168 | myosin XVA |
| GO | inner ear morphogenesis | 5 | 43 | 0.168023 | 5396 | paired related homeobox 1 |
| GO | inner ear morphogenesis | 5 | 43 | 0.168023 | 9935 | v-maf musculoaponeurotic fibrosarcoma oncogene homolog B (avian) |
| GO | Notch signaling pathway | 5 | 43 | 0.168023 | 2296 | forkhead box C1 |
| GO | Notch signaling pathway | 5 | 43 | 0.168023 | 2303 | forkhead box C2 (MFH-1, mesenchyme forkhead 1) |
| GO | Notch signaling pathway | 5 | 43 | 0.168023 | 429 | achaete-scute complex homolog 1 (Drosophila) |
| GO | Notch signaling pathway | 5 | 43 | 0.168023 | 4851 | Notch homolog 1, translocation-associated (Drosophila) |
| GO | Notch signaling pathway | 5 | 43 | 0.168023 | 4853 | Notch homolog 2 (Drosophila) |
| GO | glucose metabolic process | 5 | 43 | 0.168023 | 3175 | one cut homeobox 1 |
| GO | glucose metabolic process | 5 | 43 | 0.168023 | 4886 | neuropeptide Y receptor Y1 |
| GO | glucose metabolic process | 5 | 43 | 0.168023 | 5239 | phosphoglucomutase 5 |
| GO | glucose metabolic process | 5 | 43 | 0.168023 | 8660 | insulin receptor substrate 2 |
| GO | glucose metabolic process | 5 | 43 | 0.168023 | 9563 | hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase) |
| GO | angiogenesis | 11 | 116 | 0.1691608 | 10481 | homeobox B13 |
| GO | angiogenesis | 11 | 116 | 0.1691608 | 1295 | collagen, type VIII, alpha 1 |
| GO | angiogenesis | 11 | 116 | 0.1691608 | 27035 | NADPH oxidase 1 |
| GO | angiogenesis | 11 | 116 | 0.1691608 | 3678 | integrin, alpha 5 (fibronectin receptor, alpha polypeptide) |
| GO | angiogenesis | 11 | 116 | 0.1691608 | 3725 | jun oncogene |

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| GO | angiogenesis | 11 | 116 | 0.1691608 | 3911 | laminin, alpha 5 |
| GO | angiogenesis | 11 | 116 | 0.1691608 | 4223 | mesenchyme homeobox 2 |
| GO | angiogenesis | 11 | 116 | 0.1691608 | 56913 | core 1 synthase, glycoprotein-N-acetylgalactosamine 3-beta-galactosyl |
| GO | angiogenesis | 11 | 116 | 0.1691608 | 5787 | protein tyrosine phosphatase, receptor type, B |
| GO | angiogenesis | 11 | 116 | 0.1691608 | 652 | bone morphogenetic protein 4 |
| GO | angiogenesis | 11 | 116 | 0.1691608 | 94 | activin A receptor type II-like 1 |
| GO | synaptic transmission | 15 | 167 | 0.169308 | 2571 | glutamate decarboxylase 1 (brain, 67kDa) |
| GO | synaptic transmission | 15 | 167 | 0.169308 | 27345 | potassium large conductance calcium-activated channel, subfamily M, |
| GO | synaptic transmission | 15 | 167 | 0.169308 | 2911 | glutamate receptor, metabotropic 1 |
| GO | synaptic transmission | 15 | 167 | 0.169308 | 3355 | 5-hydroxytryptamine (serotonin) receptor 1F |
| GO | synaptic transmission | 15 | 167 | 0.169308 | 3786 | potassium voltage-gated channel, KQT-like subfamily, member 3 |
| GO | synaptic transmission | 15 | 167 | 0.169308 | 4359 | myelin protein zero |
| GO | synaptic transmission | 15 | 167 | 0.169308 | 4889 | neuropeptide Y receptor Y5 |
| GO | synaptic transmission | 15 | 167 | 0.169308 | 5367 | pro-melanin-concentrating hormone |
| GO | synaptic transmission | 15 | 167 | 0.169308 | 6505 | solute carrier family 1 (neuronal/epithelial high affinity glutamate trans |
| GO | synaptic transmission | 15 | 167 | 0.169308 | 6750 | somatostatin |
| GO | synaptic transmission | 15 | 167 | 0.169308 | 6857 | synaptotagmin I |
| GO | synaptic transmission | 15 | 167 | 0.169308 | 774 | calcium channel, voltage-dependent, N type, alpha 1B subunit |
| GO | synaptic transmission | 15 | 167 | 0.169308 | 783 | calcium channel, voltage-dependent, beta 2 subunit |
| GO | synaptic transmission | 15 | 167 | 0.169308 | 8973 | cholinergic receptor, nicotinic, alpha 6 |
| GO | synaptic transmission | 15 | 167 | 0.169308 | 9892 | synaptosomal-associated protein, 91kDa homolog (mouse) |
| GO | microsome | 19 | 219 | 0.1693996 | 10170 | dehydrogenase/reductase (SDR family) member 9 |
| GO | microsome | 19 | 219 | 0.1693996 | 154 | adrenergic, beta-2-, receptor, surface |
| GO | microsome | 19 | 219 | 0.1693996 | 1558 | cytochrome P450, family 2, subfamily C, polypeptide 8 |
| GO | microsome | 19 | 219 | 0.1693996 | 1559 | cytochrome P450, family 2, subfamily C, polypeptide 9 |
| GO | microsome | 19 | 219 | 0.1693996 | 1571 | cytochrome P450, family 2, subfamily E, polypeptide 1 |
| GO | microsome | 19 | 219 | 0.1693996 | 157506 | retinol dehydrogenase 10 (all-trans) |
| GO | microsome | 19 | 219 | 0.1693996 | 1577 | cytochrome P450, family 3, subfamily A, polypeptide 5 |
| GO | microsome | 19 | 219 | 0.1693996 | 2182 | acyl-CoA synthetase long-chain family member 4 |
| GO | microsome | 19 | 219 | 0.1693996 | 2911 | glutamate receptor, metabotropic 1 |
| GO | microsome | 19 | 219 | 0.1693996 | 3643 | insulin receptor |
| GO | microsome | 19 | 219 | 0.1693996 | 3709 | inositol 1,4,5-triphosphate receptor, type 2 |
| GO | microsome | 19 | 219 | 0.1693996 | 4056 | leukotriene C4 synthase |
| GO | microsome | 19 | 219 | 0.1693996 | 412 | steroid sulfatase (microsomal), isozyme S |
| GO | microsome | 19 | 219 | 0.1693996 | 4939 | 2'-5'-oligoadenylate synthetase 2, 69/71kDa |
| GO | microsome | 19 | 219 | 0.1693996 | 55080 | TAP binding protein-like |

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| GO | microsome | 19 | 219 | 0.1693996 | 5742 | prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase a |
| GO | microsome | 19 | 219 | 0.1693996 | 79152 | fatty acid 2-hydroxylase |
| GO | microsome | 19 | 219 | 0.1693996 | 952 | CD38 molecule |
| GO | microsome | 19 | 219 | 0.1693996 | 9563 | hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase) |
| GO | protein kinase inhibitor activity | 3 | 21 | 0.1698873 | 10221 | tribbles homolog 1 (Drosophila) |
| GO | protein kinase inhibitor activity | 3 | 21 | 0.1698873 | 28951 | tribbles homolog 2 (Drosophila) |
| GO | protein kinase inhibitor activity | 3 | 21 | 0.1698873 | 9021 | suppressor of cytokine signaling 3 |
| GO | calcium-dependent phospholipid bin | 3 | 21 | 0.1698873 | 11199 | annexin A10 |
| GO | calcium-dependent phospholipid bin | 3 | 21 | 0.1698873 | 23208 | synaptotagmin XI |
| GO | calcium-dependent phospholipid bin | 3 | 21 | 0.1698873 | 311 | annexin A11 |
| GO | Wnt receptor signaling pathway, calc | 3 | 21 | 0.1698873 | 54361 | wingless-type MMTV integration site family, member 4 |
| GO | Wnt receptor signaling pathway, calc | 3 | 21 | 0.1698873 | 7474 | wingless-type MMTV integration site family, member 5A |
| GO | Wnt receptor signaling pathway, calc | 3 | 21 | 0.1698873 | 7477 | wingless-type MMTV integration site family, member 7B |
| GO | threonine-type endopeptidase activit | 3 | 21 | 0.1698873 | 5696 | proteasome (prosome, macropain) subunit, beta type, 8 (large multifu |
| GO | threonine-type endopeptidase activit | 3 | 21 | 0.1698873 | 5698 | proteasome (prosome, macropain) subunit, beta type, 9 (large multifu |
| GO | threonine-type endopeptidase activit | 3 | 21 | 0.1698873 | 5699 | proteasome (prosome, macropain) subunit, beta type, 10 |
| GO | polysaccharide binding | 2 | 11 | 0.1706035 | 10216 | proteoglycan 4 |
| GO | polysaccharide binding | 2 | 11 | 0.1706035 | 157869 | chromosome 8 open reading frame 84 |
| GO | morphogenesis of an epithelium | 2 | 11 | 0.1706035 | 10481 | homeobox B13 |
| GO | morphogenesis of an epithelium | 2 | 11 | 0.1706035 | 760 | carbonic anhydrase II |
| GO | ceramide biosynthetic process | 2 | 11 | 0.1706035 | 123099 | degenerative spermatocyte homolog 2, lipid desaturase (Drosophila) |
| GO | ceramide biosynthetic process | 2 | 11 | 0.1706035 | 2055 | ceroid-lipofuscinosis, neuronal 8 (epilepsy, progressive with mental ret |
| GO | retinol binding | 2 | 11 | 0.1706035 | 1382 | cellular retinoic acid binding protein 2 |
| GO | retinol binding | 2 | 11 | 0.1706035 | 5950 | retinol binding protein 4, plasma |
| GO | DNA methylation involved in gamete | 2 | 11 | 0.1706035 | 143689 | piwi-like 4 (Drosophila) |
| GO | DNA methylation involved in gamete | 2 | 11 | 0.1706035 | 55124 | piwi-like 2 (Drosophila) |
| GO | cell recognition | 2 | 11 | 0.1706035 | 1462 | versican |
| GO | cell recognition | 2 | 11 | 0.1706035 | 3911 | laminin, alpha 5 |
| GO | guanylate kinase activity | 2 | 11 | 0.1706035 | 1741 | discs, large homolog 3 (Drosophila) |
| GO | guanylate kinase activity | 2 | 11 | 0.1706035 | 9414 | tight junction protein 2 (zona occludens 2) |
| GO | T cell costimulation | 2 | 11 | 0.1706035 | 1803 | dipeptidyl-peptidase 4 |
| GO | T cell costimulation | 2 | 11 | 0.1706035 | 8740 | tumor necrosis factor (ligand) superfamily, member 14 |
| GO | long-chain fatty acid-CoA ligase activi | 2 | 11 | 0.1706035 | 2182 | acyl-CoA synthetase long-chain family member 4 |
| GO | long-chain fatty acid-CoA ligase activi | 2 | 11 | 0.1706035 | 51703 | acyl-CoA synthetase long-chain family member 5 |
| GO | regulation of blood vessel size | 2 | 11 | 0.1706035 | 2296 | forkhead box C1 |
| GO | regulation of blood vessel size | 2 | 11 | 0.1706035 | 2303 | forkhead box C2 (MFH-1, mesenchyme forkhead 1) |

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|---|---|---|---|---|---|---|
| GO | kinesin binding | 2 | 11 | 0.1706035 | 23095 | kinesin family member 1B |
| GO | kinesin binding | 2 | 11 | 0.1706035 | 6622 | synuclein, alpha (non A4 component of amyloid precursor) |
| GO | Rho GTPase binding | 2 | 11 | 0.1706035 | 23348 | dedicator of cytokinesis 9 |
| GO | Rho GTPase binding | 2 | 11 | 0.1706035 | 23500 | dishevelled associated activator of morphogenesis 2 |
| GO | positive regulation of DNA binding | 2 | 11 | 0.1706035 | 23476 | bromodomain containing 4 |
| GO | positive regulation of DNA binding | 2 | 11 | 0.1706035 | 28996 | homeodomain interacting protein kinase 2 |
| GO | low-density lipoprotein receptor binc | 2 | 11 | 0.1706035 | 255738 | proprotein convertase subtilisin/kexin type 9 |
| GO | low-density lipoprotein receptor binc | 2 | 11 | 0.1706035 | 6857 | synaptotagmin I |
| GO | protein maturation by peptide bond | 2 | 11 | 0.1706035 | 255738 | proprotein convertase subtilisin/kexin type 9 |
| GO | protein maturation by peptide bond | 2 | 11 | 0.1706035 | 5046 | proprotein convertase subtilisin/kexin type 6 |
| GO | gap junction channel activity | 2 | 11 | 0.1706035 | 2706 | gap junction protein, beta 2, 26kDa |
| GO | gap junction channel activity | 2 | 11 | 0.1706035 | 2707 | gap junction protein, beta 3, 31kDa |
| GO | laminin binding | 2 | 11 | 0.1706035 | 27076 | LY6/PLAUR domain containing 3 |
| GO | laminin binding | 2 | 11 | 0.1706035 | 375790 | agrin |
| GO | regulation of neurotransmitter secre | 2 | 11 | 0.1706035 | 27345 | potassium large conductance calcium-activated channel, subfamily M, |
| GO | regulation of neurotransmitter secre | 2 | 11 | 0.1706035 | 5071 | Parkinson disease (autosomal recessive, juvenile) 2, parkin |
| GO | cell volume homeostasis | 2 | 11 | 0.1706035 | 358 | aquaporin 1 (Colton blood group) |
| GO | cell volume homeostasis | 2 | 11 | 0.1706035 | 3783 | potassium intermediate/small conductance calcium-activated channel, |
| GO | hemidesmosome assembly | 2 | 11 | 0.1706035 | 3691 | integrin, beta 4 |
| GO | hemidesmosome assembly | 2 | 11 | 0.1706035 | 3914 | laminin, beta 3 |
| GO | negative regulation of DNA binding | 2 | 11 | 0.1706035 | 3725 | jun oncogene |
| GO | negative regulation of DNA binding | 2 | 11 | 0.1706035 | 4792 | nuclear factor of kappa light polypeptide gene enhancer in B-cells inhik |
| GO | somatic stem cell maintenance | 2 | 11 | 0.1706035 | 3815 | v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog |
| GO | somatic stem cell maintenance | 2 | 11 | 0.1706035 | 5460 | POU class 5 homeobox 1 |
| GO | vasodilation | 2 | 11 | 0.1706035 | 3827 | kininogen 1 |
| GO | vasodilation | 2 | 11 | 0.1706035 | 5025 | purinergic receptor P2X, ligand-gated ion channel, 4 |
| GO | 3',5'-cyclic-nucleotide phosphodieste | 2 | 11 | 0.1706035 | 5152 | phosphodiesterase 9A |
| GO | 3',5'-cyclic-nucleotide phosphodieste | 2 | 11 | 0.1706035 | 8622 | phosphodiesterase 8B |
| GO | face morphogenesis | 2 | 11 | 0.1706035 | 64651 | cysteine-serine-rich nuclear protein 1 |
| GO | face morphogenesis | 2 | 11 | 0.1706035 | 84159 | AT rich interactive domain 5B (MRF1-like) |
| GO | phosphatidylserine binding | 2 | 11 | 0.1706035 | 85477 | scinderin |
| GO | phosphatidylserine binding | 2 | 11 | 0.1706035 | 91404 | SEC14 and spectrin domains 1 |
| GO | activin binding | 2 | 11 | 0.1706035 | 91 | activin A receptor, type IB |
| GO | activin binding | 2 | 11 | 0.1706035 | 94 | activin A receptor type II-like 1 |
| GO | protein amino acid autophosphorylat | 8 | 79 | 0.1709253 | 11213 | interleukin-1 receptor-associated kinase 3 |
| GO | protein amino acid autophosphorylat | 8 | 79 | 0.1709253 | 127933 | U2AF homology motif (UHM) kinase 1 |

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|---|---|---|---|---|---|---|
| GO | protein amino acid autophosphorylat | 8 | 79 | 0.1709253 | 23043 | TRAF2 and NCK interacting kinase |
| GO | protein amino acid autophosphorylat | 8 | 79 | 0.1709253 | 3643 | insulin receptor |
| GO | protein amino acid autophosphorylat | 8 | 79 | 0.1709253 | 3815 | v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog |
| GO | protein amino acid autophosphorylat | 8 | 79 | 0.1709253 | 4293 | mitogen-activated protein kinase kinase kinase 9 |
| GO | protein amino acid autophosphorylat | 8 | 79 | 0.1709253 | 6850 | spleen tyrosine kinase |
| GO | protein amino acid autophosphorylat | 8 | 79 | 0.1709253 | 91 | activin A receptor, type IB |
| GO | ossification | 6 | 55 | 0.1716065 | 1009 | cadherin 11, type 2, OB-cadherin (osteoblast) |
| GO | ossification | 6 | 55 | 0.1716065 | 2296 | forkhead box C1 |
| GO | ossification | 6 | 55 | 0.1716065 | 2303 | forkhead box C2 (MFH-1, mesenchyme forkhead 1) |
| GO | ossification | 6 | 55 | 0.1716065 | 50617 | ATPase, H+ transporting, lysosomal V0 subunit a4 |
| GO | ossification | 6 | 55 | 0.1716065 | 8600 | tumor necrosis factor (ligand) superfamily, member 11 |
| GO | ossification | 6 | 55 | 0.1716065 | 91461 | protein kinase domain containing, cytoplasmic homolog (mouse) |
| GO | neural tube closure | 4 | 32 | 0.1721517 | 57619 | shroom family member 3 |
| GO | neural tube closure | 4 | 32 | 0.1721517 | 7546 | Zic family member 2 (odd-paired homolog, Drosophila) |
| GO | neural tube closure | 4 | 32 | 0.1721517 | 85416 | Zic family member 5 (odd-paired homolog, Drosophila) |
| GO | neural tube closure | 4 | 32 | 0.1721517 | 8543 | LIM domain only 4 |
| GO | regulation of transcription from RNA | 18 | 207 | 0.1748127 | 1628 | D site of albumin promoter (albumin D-box) binding protein |
| GO | regulation of transcription from RNA | 18 | 207 | 0.1748127 | 22906 | trafficking protein, kinesin binding 1 |
| GO | regulation of transcription from RNA | 18 | 207 | 0.1748127 | 2353 | FBJ murine osteosarcoma viral oncogene homolog |
| GO | regulation of transcription from RNA | 18 | 207 | 0.1748127 | 3175 | one cut homeobox 1 |
| GO | regulation of transcription from RNA | 18 | 207 | 0.1748127 | 3400 | inhibitor of DNA binding 4, dominant negative helix-loop-helix protein |
| GO | regulation of transcription from RNA | 18 | 207 | 0.1748127 | 3726 | jun B proto-oncogene |
| GO | regulation of transcription from RNA | 18 | 207 | 0.1748127 | 4613 | v-myc myelocytomatosis viral related oncogene, neuroblastoma derive |
| GO | regulation of transcription from RNA | 18 | 207 | 0.1748127 | 4778 | nuclear factor (erythroid-derived 2), 45kDa |
| GO | regulation of transcription from RNA | 18 | 207 | 0.1748127 | 4802 | nuclear transcription factor Y, gamma |
| GO | regulation of transcription from RNA | 18 | 207 | 0.1748127 | 55140 | elongation protein 3 homolog (S. cerevisiae) |
| GO | regulation of transcription from RNA | 18 | 207 | 0.1748127 | 6604 | SWI/SNF related, matrix associated, actin dependent regulator of chro |
| GO | regulation of transcription from RNA | 18 | 207 | 0.1748127 | 6778 | signal transducer and activator of transcription 6, interleukin-4 induce |
| GO | regulation of transcription from RNA | 18 | 207 | 0.1748127 | 687 | Kruppel-like factor 9 |
| GO | regulation of transcription from RNA | 18 | 207 | 0.1748127 | 6921 | transcription elongation factor B (SIII), polypeptide 1 (15kDa, elongin C |
| GO | regulation of transcription from RNA | 18 | 207 | 0.1748127 | 6941 | transcription factor 19 |
| GO | regulation of transcription from RNA | 18 | 207 | 0.1748127 | 7008 | thyrotrophic embryonic factor |
| GO | regulation of transcription from RNA | 18 | 207 | 0.1748127 | 7022 | transcription factor AP-2 gamma (activating enhancer binding protein |
| GO | regulation of transcription from RNA | 18 | 207 | 0.1748127 | 7026 | nuclear receptor subfamily 2, group F, member 2 |
| GO | response to hormone stimulus | 5 | 44 | 0.1796636 | 2303 | forkhead box C2 (MFH-1, mesenchyme forkhead 1) |
| GO | response to hormone stimulus | 5 | 44 | 0.1796636 | 4151 | myoglobin |

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|---|---|---|---|---|---|---|
| GO | response to hormone stimulus | 5 | 44 | 0.1796636 | 6096 | RAR-related orphan receptor B |
| GO | response to hormone stimulus | 5 | 44 | 0.1796636 | 85004 | RAS-like, estrogen-regulated, growth inhibitor |
| GO | response to hormone stimulus | 5 | 44 | 0.1796636 | 952 | CD38 molecule |
| GO | cell-cell junction | 6 | 56 | 0.1819008 | 10076 | protein tyrosine phosphatase, receptor type, U |
| GO | cell-cell junction | 6 | 56 | 0.1819008 | 11187 | plakophilin 3 |
| GO | cell-cell junction | 6 | 56 | 0.1819008 | 3678 | integrin, alpha 5 (fibronectin receptor, alpha polypeptide) |
| GO | cell-cell junction | 6 | 56 | 0.1819008 | 5318 | plakophilin 2 |
| GO | cell-cell junction | 6 | 56 | 0.1819008 | 56288 | par-3 partitioning defective 3 homolog (C. elegans) |
| GO | cell-cell junction | 6 | 56 | 0.1819008 | 57863 | cell adhesion molecule 3 |
| GO | lysosome | 13 | 144 | 0.1858123 | 10268 | receptor (G protein-coupled) activity modifying protein 3 |
| GO | lysosome | 13 | 144 | 0.1858123 | 1508 | cathepsin B |
| GO | lysosome | 13 | 144 | 0.1858123 | 1519 | cathepsin O |
| GO | lysosome | 13 | 144 | 0.1858123 | 154 | adrenergic, beta-2-, receptor, surface |
| GO | lysosome | 13 | 144 | 0.1858123 | 22901 | arylsulfatase G |
| GO | lysosome | 13 | 144 | 0.1858123 | 23048 | formin binding protein 1 |
| GO | lysosome | 13 | 144 | 0.1858123 | 2517 | fucosidase, alpha-L- 1, tissue |
| GO | lysosome | 13 | 144 | 0.1858123 | 255738 | proprotein convertase subtilisin/kexin type 9 |
| GO | lysosome | 13 | 144 | 0.1858123 | 2990 | glucuronidase, beta |
| GO | lysosome | 13 | 144 | 0.1858123 | 3373 | hyaluronoglucosaminidase 1 |
| GO | lysosome | 13 | 144 | 0.1858123 | 412 | steroid sulfatase (microsomal), isozyme S |
| GO | lysosome | 13 | 144 | 0.1858123 | 5873 | RAB27A, member RAS oncogene family |
| GO | lysosome | 13 | 144 | 0.1858123 | 8722 | cathepsin F |
| GO | JNK cascade | 4 | 33 | 0.1860463 | 10221 | tribbles homolog 1 (Drosophila) |
| GO | JNK cascade | 4 | 33 | 0.1860463 | 148170 | CDC42 effector protein (Rho GTPase binding) 5 |
| GO | JNK cascade | 4 | 33 | 0.1860463 | 7474 | wingless-type MMTV integration site family, member 5A |
| GO | JNK cascade | 4 | 33 | 0.1860463 | 9459 | Rac/Cdc42 guanine nucleotide exchange factor (GEF) 6 |
| GO | acrosomal vesicle | 4 | 33 | 0.1860463 | 148229 | ATPase, class I, type 8B, member 3 |
| GO | acrosomal vesicle | 4 | 33 | 0.1860463 | 3815 | v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog |
| GO | acrosomal vesicle | 4 | 33 | 0.1860463 | 4851 | Notch homolog 1, translocation-associated (Drosophila) |
| GO | acrosomal vesicle | 4 | 33 | 0.1860463 | 799 | calcitonin receptor |
| GO | T cell activation | 4 | 33 | 0.1860463 | 1803 | dipeptidyl-peptidase 4 |
| GO | T cell activation | 4 | 33 | 0.1860463 | 23303 | kinesin family member 13B |
| GO | T cell activation | 4 | 33 | 0.1860463 | 84941 | hematopoietic SH2 domain containing |
| GO | T cell activation | 4 | 33 | 0.1860463 | 8740 | tumor necrosis factor (ligand) superfamily, member 14 |
| GO | potassium channel activity | 4 | 33 | 0.1860463 | 358 | aquaporin 1 (Colton blood group) |
| GO | potassium channel activity | 4 | 33 | 0.1860463 | 3775 | potassium channel, subfamily K, member 1 |

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| GO | potassium channel activity | 4 | 33 | 0.1860463 | 3786 | potassium voltage-gated channel, KQT-like subfamily, member 3 |
| GO | potassium channel activity | 4 | 33 | 0.1860463 | 8645 | potassium channel, subfamily K, member 5 |
| GO | determination of left/right symmetry | 4 | 33 | 0.1860463 | 4851 | Notch homolog 1, translocation-associated (Drosophila) |
| GO | determination of left/right symmetry | 4 | 33 | 0.1860463 | 4853 | Notch homolog 2 (Drosophila) |
| GO | determination of left/right symmetry | 4 | 33 | 0.1860463 | 5308 | paired-like homeodomain 2 |
| GO | determination of left/right symmetry | 4 | 33 | 0.1860463 | 84976 | dispatched homolog 1 (Drosophila) |
| GO | positive regulation of translation | 3 | 22 | 0.1873576 | 2033 | E1A binding protein p300 |
| GO | positive regulation of translation | 3 | 22 | 0.1873576 | 3569 | interleukin 6 (interferon, beta 2) |
| GO | positive regulation of translation | 3 | 22 | 0.1873576 | 55124 | piwi-like 2 (Drosophila) |
| GO | multicellular organism growth | 3 | 22 | 0.1873576 | 28982 | feline leukemia virus subgroup C cellular receptor 1 |
| GO | multicellular organism growth | 3 | 22 | 0.1873576 | 29123 | ankyrin repeat domain 11 |
| GO | multicellular organism growth | 3 | 22 | 0.1873576 | 84159 | AT rich interactive domain 5B (MRF1-like) |
| GO | positive regulation of neuron differer | 3 | 22 | 0.1873576 | 3169 | forkhead box A1 |
| GO | positive regulation of neuron differer | 3 | 22 | 0.1873576 | 429 | achaete-scute complex homolog 1 (Drosophila) |
| GO | positive regulation of neuron differer | 3 | 22 | 0.1873576 | 627 | brain-derived neurotrophic factor |
| GO | mesoderm formation | 3 | 22 | 0.1873576 | 4087 | SMAD family member 2 |
| GO | mesoderm formation | 3 | 22 | 0.1873576 | 8013 | nuclear receptor subfamily 4, group A, member 3 |
| GO | mesoderm formation | 3 | 22 | 0.1873576 | 8646 | chordin |
| GO | regulation of ubiquitin-protein ligase | 1 | 3 | 0.1913587 | 10116 | fem-1 homolog b (C. elegans) |
| GO | progesterone metabolic process | 1 | 3 | 0.1913587 | 10170 | dehydrogenase/reductase (SDR family) member 9 |
| GO | double-stranded RNA adenosine dea | 1 | 3 | 0.1913587 | 104 | adenosine deaminase, RNA-specific, B1 (RED1 homolog rat) |
| GO | polo kinase kinase activity | 1 | 3 | 0.1913587 | 10769 | polo-like kinase 2 (Drosophila) |
| GO | negative regulation of myelination | 1 | 3 | 0.1913587 | 11202 | kallikrein-related peptidase 8 |
| GO | heme transporter activity | 1 | 3 | 0.1913587 | 113235 | solute carrier family 46 (folate transporter), member 1 |
| GO | cellular chloride ion homeostasis | 1 | 3 | 0.1913587 | 1152 | creatine kinase, brain |
| GO | creatine kinase activity | 1 | 3 | 0.1913587 | 1152 | creatine kinase, brain |
| GO | regulation of protein export from nu | 1 | 3 | 0.1913587 | 127933 | U2AF homology motif (UHM) kinase 1 |
| GO | sphingosine metabolic process | 1 | 3 | 0.1913587 | 130367 | sphingosine-1-phosphate phosphotase 2 |
| GO | kininogen binding | 1 | 3 | 0.1913587 | 1508 | cathepsin B |
| GO | response to interleukin-4 | 1 | 3 | 0.1913587 | 1508 | cathepsin B |
| GO | adenylate cyclase binding | 1 | 3 | 0.1913587 | 154 | adrenergic, beta-2-, receptor, surface |
| GO | desensitization of G-protein coupled | 1 | 3 | 0.1913587 | 154 | adrenergic, beta-2-, receptor, surface |
| GO | diet induced thermogenesis | 1 | 3 | 0.1913587 | 154 | adrenergic, beta-2-, receptor, surface |
| GO | norepinephrine binding | 1 | 3 | 0.1913587 | 154 | adrenergic, beta-2-, receptor, surface |
| GO | organic acid metabolic process | 1 | 3 | 0.1913587 | 1558 | cytochrome P450, family 2, subfamily C, polypeptide 8 |
| GO | oxidoreductase activity, acting on pai | 1 | 3 | 0.1913587 | 1571 | cytochrome P450, family 2, subfamily E, polypeptide 1 |

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|---|---|---|---|---|---|---|
| GO | Gram-negative bacterial cell surface l | 1 | 3 | 0.1913587 | 1755 | deleted in malignant brain tumors 1 |
| GO | regulation of cell-cell adhesion media | 1 | 3 | 0.1913587 | 1803 | dipeptidyl-peptidase 4 |
| GO | branching morphogenesis of a nerve | 1 | 3 | 0.1913587 | 1813 | dopamine receptor D2 |
| GO | ovarian follicle rupture | 1 | 3 | 0.1913587 | 183 | angiotensinogen (serpin peptidase inhibitor, clade A, member 8) |
| GO | regulation of natriuresis | 1 | 3 | 0.1913587 | 183 | angiotensinogen (serpin peptidase inhibitor, clade A, member 8) |
| GO | regulation of norepinephrine secretic | 1 | 3 | 0.1913587 | 183 | angiotensinogen (serpin peptidase inhibitor, clade A, member 8) |
| GO | endothelin B receptor binding | 1 | 3 | 0.1913587 | 1906 | endothelin 1 |
| GO | rhombomere 3 development | 1 | 3 | 0.1913587 | 1959 | early growth response 2 |
| GO | regulation of blood vessel endothelia | 1 | 3 | 0.1913587 | 1969 | EPH receptor A2 |
| GO | N-terminal peptidyl-lysine acetylatior | 1 | 3 | 0.1913587 | 2033 | E1A binding protein p300 |
| GO | positive regulation of protein import | 1 | 3 | 0.1913587 | 2033 | E1A binding protein p300 |
| GO | age-dependent response to oxidative | 1 | 3 | 0.1913587 | 2055 | ceroid-lipofuscinosis, neuronal 8 (epilepsy, progressive with mental ret |
| GO | macrophage activation during immur | 1 | 3 | 0.1913587 | 22904 | strawberry notch homolog 2 (Drosophila) |
| GO | transforming growth factor beta rece | 1 | 3 | 0.1913587 | 2331 | fibromodulin |
| GO | adenosylhomocysteinase activity | 1 | 3 | 0.1913587 | 23382 | adenosylhomocysteinase-like 2 |
| GO | conditioned taste aversion | 1 | 3 | 0.1913587 | 2353 | FBJ murine osteosarcoma viral oncogene homolog |
| GO | 3-galactosyl-N-acetylglucosaminide 4 | 1 | 3 | 0.1913587 | 2525 | fucosyltransferase 3 (galactoside 3(4)-L-fucosyltransferase, Lewis blooc |
| GO | apolipoprotein receptor binding | 1 | 3 | 0.1913587 | 255738 | proprotein convertase subtilisin/kexin type 9 |
| GO | positive regulation of receptor intern | 1 | 3 | 0.1913587 | 255738 | proprotein convertase subtilisin/kexin type 9 |
| GO | very-low-density lipoprotein receptor | 1 | 3 | 0.1913587 | 255738 | proprotein convertase subtilisin/kexin type 9 |
| GO | phosphatidylserine metabolic proces | 1 | 3 | 0.1913587 | 256987 | serine incorporator 5 |
| GO | protein amino acid O-linked glycosyla | 1 | 3 | 0.1913587 | 2589 | UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosami |
| GO | protein amino acid O-linked glycosyla | 1 | 3 | 0.1913587 | 2589 | UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosami |
| GO | heparin biosynthetic process | 1 | 3 | 0.1913587 | 26035 | glucuronic acid epimerase |
| GO | cerebral cortex tangential migration | 1 | 3 | 0.1913587 | 26468 | LIM homeobox 6 |
| GO | AMP deaminase activity | 1 | 3 | 0.1913587 | 271 | adenosine monophosphate deaminase 2 |
| GO | forebrain dorsal/ventral pattern form | 1 | 3 | 0.1913587 | 2737 | GLI family zinc finger 3 |
| GO | smoothened signaling pathway involv | 1 | 3 | 0.1913587 | 2737 | GLI family zinc finger 3 |
| GO | tube development | 1 | 3 | 0.1913587 | 2737 | GLI family zinc finger 3 |
| GO | activation of phospholipase C activity | 1 | 3 | 0.1913587 | 2769 | guanine nucleotide binding protein (G protein), alpha 15 (Gq class) |
| GO | bone development | 1 | 3 | 0.1913587 | 29123 | ankyrin repeat domain 11 |
| GO | beta-glucuronidase activity | 1 | 3 | 0.1913587 | 2990 | glucuronidase, beta |
| GO | cilium axoneme assembly | 1 | 3 | 0.1913587 | 345895 | radial spoke head 4 homolog A (Chlamydomonas) |
| GO | myoblast proliferation | 1 | 3 | 0.1913587 | 3479 | insulin-like growth factor 1 (somatomedin C) |
| GO | negative regulation of androgen rece | 1 | 3 | 0.1913587 | 3479 | insulin-like growth factor 1 (somatomedin C) |
| GO | negative regulation of smooth muscle | 1 | 3 | 0.1913587 | 3479 | insulin-like growth factor 1 (somatomedin C) |

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| GO | Type II pneumocyte differentiation | 1 | 3 | 0.1913587 | 3479 | insulin-like growth factor 1 (somatomedin C) |
| GO | skeletal muscle tissue growth | 1 | 3 | 0.1913587 | 3488 | insulin-like growth factor binding protein 5 |
| GO | interleukin-2 receptor activity | 1 | 3 | 0.1913587 | 3561 | interleukin 2 receptor, gamma (severe combined immunodeficiency) |
| GO | negative regulation of chemokine bic | 1 | 3 | 0.1913587 | 3569 | interleukin 6 (interferon, beta 2) |
| GO | cellular response to cAMP | 1 | 3 | 0.1913587 | 358 | aquaporin 1 (Colton blood group) |
| GO | cellular response to retinoic acid | 1 | 3 | 0.1913587 | 358 | aquaporin 1 (Colton blood group) |
| GO | cellular response to stress | 1 | 3 | 0.1913587 | 358 | aquaporin 1 (Colton blood group) |
| GO | glycerol transport | 1 | 3 | 0.1913587 | 358 | aquaporin 1 (Colton blood group) |
| GO | multicellular organismal water home | 1 | 3 | 0.1913587 | 358 | aquaporin 1 (Colton blood group) |
| GO | potassium ion transmembrane transp | 1 | 3 | 0.1913587 | 358 | aquaporin 1 (Colton blood group) |
| GO | insulin receptor complex | 1 | 3 | 0.1913587 | 3643 | insulin receptor |
| GO | PTB domain binding | 1 | 3 | 0.1913587 | 3643 | insulin receptor |
| GO | CD8-positive, alpha-beta T cell differe | 1 | 3 | 0.1913587 | 3659 | interferon regulatory factor 1 |
| GO | alphav-beta3 integrin-vitronectin con | 1 | 3 | 0.1913587 | 3678 | integrin, alpha 5 (fibronectin receptor, alpha polypeptide) |
| GO | vascular endothelial growth factor re | 1 | 3 | 0.1913587 | 3678 | integrin, alpha 5 (fibronectin receptor, alpha polypeptide) |
| GO | inositol 1,4,5-trisphosphate-sensitive | 1 | 3 | 0.1913587 | 3709 | inositol 1,4,5-triphosphate receptor, type 2 |
| GO | inositol-1,4,5-trisphosphate receptor | 1 | 3 | 0.1913587 | 3709 | inositol 1,4,5-triphosphate receptor, type 2 |
| GO | osteoblast proliferation | 1 | 3 | 0.1913587 | 3726 | jun B proto-oncogene |
| GO | positive regulation of transcription fr | 1 | 3 | 0.1913587 | 3726 | jun B proto-oncogene |
| GO | clustering of voltage-gated sodium ch | 1 | 3 | 0.1913587 | 375790 | agrin |
| GO | neurotransmitter receptor metabolic | 1 | 3 | 0.1913587 | 375790 | agrin |
| GO | small conductance calcium-activated | 1 | 3 | 0.1913587 | 3782 | potassium intermediate/small conductance calcium-activated channel, |
| GO | myeloid progenitor cell differentiatio | 1 | 3 | 0.1913587 | 3815 | v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog |
| GO | positive regulation of long-term neur | 1 | 3 | 0.1913587 | 3815 | v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog |
| GO | laminin-10 complex | 1 | 3 | 0.1913587 | 3911 | laminin, alpha 5 |
| GO | negative regulation of stress fiber ass | 1 | 3 | 0.1913587 | 395 | Rho GTPase activating protein 6 |
| GO | IgE binding | 1 | 3 | 0.1913587 | 3958 | lectin, galactoside-binding, soluble, 3 |
| GO | actinin binding | 1 | 3 | 0.1913587 | 4008 | LIM domain 7 |
| GO | elastic fiber assembly | 1 | 3 | 0.1913587 | 4015 | lysyl oxidase |
| GO | activin responsive factor complex | 1 | 3 | 0.1913587 | 4087 | SMAD family member 2 |
| GO | zygotic specification of dorsal/ventra | 1 | 3 | 0.1913587 | 4087 | SMAD family member 2 |
| GO | negative regulation of epithelial cell r | 1 | 3 | 0.1913587 | 4163 | mutated in colorectal cancers |
| GO | somite specification | 1 | 3 | 0.1913587 | 4223 | mesenchyme homeobox 2 |
| GO | positive regulation of melanocyte dif | 1 | 3 | 0.1913587 | 4254 | KIT ligand |
| GO | stem cell factor receptor binding | 1 | 3 | 0.1913587 | 4254 | KIT ligand |
| GO | spinal cord oligodendrocyte cell fate | 1 | 3 | 0.1913587 | 429 | achaete-scute complex homolog 1 (Drosophila) |

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|---|---|---|---|---|---|---|
| GO | myosin light chain kinase activity | 1 | 3 | 0.1913587 | 4638 | myosin light chain kinase |
| GO | ionotropic glutamate receptor bindin | 1 | 3 | 0.1913587 | 4645 | myosin VB |
| GO | axon extension involved in developm | 1 | 3 | 0.1913587 | 4692 | necdin homolog (mouse) |
| GO | I-kappaB/NF-kappaB complex | 1 | 3 | 0.1913587 | 4792 | nuclear factor of kappa light polypeptide gene enhancer in B-cells inhib |
| GO | regulation of NF-kappaB import into | 1 | 3 | 0.1913587 | 4792 | nuclear factor of kappa light polypeptide gene enhancer in B-cells inhib |
| GO | multicellular organismal response to | 1 | 3 | 0.1913587 | 4842 | nitric oxide synthase 1 (neuronal) |
| GO | negative regulation of calcium ion tra | 1 | 3 | 0.1913587 | 4842 | nitric oxide synthase 1 (neuronal) |
| GO | nitric-oxide synthase activity | 1 | 3 | 0.1913587 | 4842 | nitric oxide synthase 1 (neuronal) |
| GO | tetrahydrobiopterin binding | 1 | 3 | 0.1913587 | 4842 | nitric oxide synthase 1 (neuronal) |
| GO | neurotrophin binding | 1 | 3 | 0.1913587 | 4915 | neurotrophic tyrosine kinase, receptor, type 2 |
| GO | phenylalanine 4-monooxygenase acti | 1 | 3 | 0.1913587 | 5053 | phenylalanine hydroxylase |
| GO | rRNA methyltransferase activity | 1 | 3 | 0.1913587 | 51093 | chromosome 1 open reading frame 66 |
| GO | rRNA modification | 1 | 3 | 0.1913587 | 51093 | chromosome 1 open reading frame 66 |
| GO | calmodulin-dependent cyclic-nucleot | 1 | 3 | 0.1913587 | 5136 | phosphodiesterase 1A, calmodulin-dependent |
| GO | cell-substrate junction | 1 | 3 | 0.1913587 | 5239 | phosphoglucomutase 5 |
| GO | growth hormone receptor signaling p | 1 | 3 | 0.1913587 | 5295 | phosphoinositide-3-kinase, regulatory subunit 1 (alpha) |
| GO | phosphoinositide 3-kinase regulator | 1 | 3 | 0.1913587 | 5295 | phosphoinositide-3-kinase, regulatory subunit 1 (alpha) |
| GO | smooth muscle cell migration | 1 | 3 | 0.1913587 | 5327 | plasminogen activator, tissue |
| GO | procollagen-lysine 5-dioxygenase act | 1 | 3 | 0.1913587 | 5351 | procollagen-lysine 1, 2-oxoglutarate 5-dioxygenase 1 |
| GO | centrosome localization | 1 | 3 | 0.1913587 | 5362 | plexin A2 |
| GO | limb bud formation | 1 | 3 | 0.1913587 | 5362 | plexin A2 |
| GO | negative regulation of synaptic trans | 1 | 3 | 0.1913587 | 5367 | pro-melanin-concentrating hormone |
| GO | positive regulation of circadian sleep, | 1 | 3 | 0.1913587 | 5367 | pro-melanin-concentrating hormone |
| GO | cobalt ion binding | 1 | 3 | 0.1913587 | 5371 | promyelocytic leukemia |
| GO | mesenchymal to epithelial transition | 1 | 3 | 0.1913587 | 54361 | wingless-type MMTV integration site family, member 4 |
| GO | tertiary branching involved in mamm | 1 | 3 | 0.1913587 | 54361 | wingless-type MMTV integration site family, member 4 |
| GO | miRNA binding | 1 | 3 | 0.1913587 | 5460 | POU class 5 homeobox 1 |
| GO | response to nematode | 1 | 3 | 0.1913587 | 55600 | intelectin 1 (galactofuranose binding) |
| GO | DNA damage induced protein phosp | 1 | 3 | 0.1913587 | 5608 | mitogen-activated protein kinase kinase 6 |
| GO | inorganic phosphate transmembrane | 1 | 3 | 0.1913587 | 56172 | ankylosis, progressive homolog (mouse) |
| GO | outer membrane | 1 | 3 | 0.1913587 | 56172 | ankylosis, progressive homolog (mouse) |
| GO | intracellular calcium activated chlori | 1 | 3 | 0.1913587 | 56923 | neuromedin U receptor 2 |
| GO | reduction of food intake in response | 1 | 3 | 0.1913587 | 56923 | neuromedin U receptor 2 |
| GO | activation of Ral GTPase activity | 1 | 3 | 0.1913587 | 57186 | Ral GTPase activating protein, alpha subunit 2 (catalytic) |
| GO | Ral GTPase activator activity | 1 | 3 | 0.1913587 | 57186 | Ral GTPase activating protein, alpha subunit 2 (catalytic) |
| GO | platelet activating factor receptor act | 1 | 3 | 0.1913587 | 5724 | platelet-activating factor receptor |

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|---|---|---|---|---|---|---|
| GO | chaperone cofactor-dependent prote | 1 | 3 | 0.1913587 | 573 | BCL2-associated athanogene |
| GO | somatic diversification of immunoglo | 1 | 3 | 0.1913587 | 57379 | activation-induced cytidine deaminase |
| GO | cyclooxygenase pathway | 1 | 3 | 0.1913587 | 5742 | prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase a |
| GO | uterus development | 1 | 3 | 0.1913587 | 5950 | retinol binding protein 4, plasma |
| GO | midgut development | 1 | 3 | 0.1913587 | 6256 | retinoid X receptor, alpha |
| GO | retinoid-X receptor activity | 1 | 3 | 0.1913587 | 6256 | retinoid X receptor, alpha |
| GO | ventricular cardiac muscle cell differe | 1 | 3 | 0.1913587 | 6256 | retinoid X receptor, alpha |
| GO | vitamin D response element binding | 1 | 3 | 0.1913587 | 6256 | retinoid X receptor, alpha |
| GO | regulation of retinal cell programmec | 1 | 3 | 0.1913587 | 627 | brain-derived neurotrophic factor |
| GO | detection of biotic stimulus | 1 | 3 | 0.1913587 | 64127 | nucleotide-binding oligomerization domain containing 2 |
| GO | innate immune response in mucosa | 1 | 3 | 0.1913587 | 64127 | nucleotide-binding oligomerization domain containing 2 |
| GO | positive regulation of interleukin-17 p | 1 | 3 | 0.1913587 | 64127 | nucleotide-binding oligomerization domain containing 2 |
| GO | beta-galactoside alpha-2,3-sialyltrans | 1 | 3 | 0.1913587 | 6484 | ST3 beta-galactoside alpha-2,3-sialyltransferase 4 |
| GO | cellular response to water deprivatio | 1 | 3 | 0.1913587 | 6494 | signal-induced proliferation-associated 1 |
| GO | Rap GTPase activator activity | 1 | 3 | 0.1913587 | 6494 | signal-induced proliferation-associated 1 |
| GO | D-aspartate import | 1 | 3 | 0.1913587 | 6505 | solute carrier family 1 (neuronal/epithelial high affinity glutamate trans |
| GO | endocardial cushion development | 1 | 3 | 0.1913587 | 652 | bone morphogenetic protein 4 |
| GO | positive regulation of cartilage develo | 1 | 3 | 0.1913587 | 652 | bone morphogenetic protein 4 |
| GO | prostate gland morphogenesis | 1 | 3 | 0.1913587 | 652 | bone morphogenetic protein 4 |
| GO | renal system process | 1 | 3 | 0.1913587 | 652 | bone morphogenetic protein 4 |
| GO | specification of organ position | 1 | 3 | 0.1913587 | 652 | bone morphogenetic protein 4 |
| GO | trachea development | 1 | 3 | 0.1913587 | 652 | bone morphogenetic protein 4 |
| GO | protein anchor | 1 | 3 | 0.1913587 | 6521 | solute carrier family 4, anion exchanger, member 1 (erythrocyte memb |
| GO | basic amino acid transmembrane trai | 1 | 3 | 0.1913587 | 6542 | solute carrier family 7 (cationic amino acid transporter, y+ system), me |
| GO | mitochondrial ATP synthesis coupled | 1 | 3 | 0.1913587 | 6622 | synuclein, alpha (non A4 component of amyloid precursor) |
| GO | negative regulation of histone acetyla | 1 | 3 | 0.1913587 | 6622 | synuclein, alpha (non A4 component of amyloid precursor) |
| GO | positive regulation of neurotransmitt | 1 | 3 | 0.1913587 | 6622 | synuclein, alpha (non A4 component of amyloid precursor) |
| GO | intrinsic to internal side of plasma me | 1 | 3 | 0.1913587 | 6710 | spectrin, beta, erythrocytic |
| GO | clathrin sculpted acetylcholine transp | 1 | 3 | 0.1913587 | 6857 | synaptotagmin I |
| GO | thioredoxin peroxidase activity | 1 | 3 | 0.1913587 | 7001 | peroxiredoxin 2 |
| GO | cardiac epithelial to mesenchymal tra | 1 | 3 | 0.1913587 | 7049 | transforming growth factor, beta receptor III |
| GO | inhibin-betaglycan-ActRII complex | 1 | 3 | 0.1913587 | 7049 | transforming growth factor, beta receptor III |
| GO | response to molecule of fungal origin | 1 | 3 | 0.1913587 | 7097 | toll-like receptor 2 |
| GO | detection of lipopolysaccharide | 1 | 3 | 0.1913587 | 7099 | toll-like receptor 4 |
| GO | positive regulation of interferon-alph | 1 | 3 | 0.1913587 | 7099 | toll-like receptor 4 |
| GO | myofibril assembly | 1 | 3 | 0.1913587 | 7111 | tropomodulin 1 |

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|---|---|---|---|---|---|---|
| GO | granulosa cell differentiation | 1 | 3 | 0.1913587 | 726 | calpain 5 |
| GO | cellular response to calcium ion | 1 | 3 | 0.1913587 | 7474 | wingless-type MMTV integration site family, member 5A |
| GO | epithelial cell proliferation involved ir | 1 | 3 | 0.1913587 | 7474 | wingless-type MMTV integration site family, member 5A |
| GO | frizzled binding | 1 | 3 | 0.1913587 | 7474 | wingless-type MMTV integration site family, member 5A |
| GO | positive regulation of protein kinase ( | 1 | 3 | 0.1913587 | 7474 | wingless-type MMTV integration site family, member 5A |
| GO | positive regulation of T cell chemotax | 1 | 3 | 0.1913587 | 7474 | wingless-type MMTV integration site family, member 5A |
| GO | regulation of branching involved in m | 1 | 3 | 0.1913587 | 7474 | wingless-type MMTV integration site family, member 5A |
| GO | acetate-CoA ligase activity | 1 | 3 | 0.1913587 | 79611 | acyl-CoA synthetase short-chain family member 3 |
| GO | calcitonin receptor activity | 1 | 3 | 0.1913587 | 799 | calcitonin receptor |
| GO | microtubule-based flagellum part | 1 | 3 | 0.1913587 | 799 | calcitonin receptor |
| GO | positive regulation of interleukin-1 al | 1 | 3 | 0.1913587 | 834 | caspase 1, apoptosis-related cysteine peptidase (interleukin 1, beta, co |
| GO | inner ear receptor stereocilium orgar | 1 | 3 | 0.1913587 | 84059 | G protein-coupled receptor 98 |
| GO | fibroblast migration | 1 | 3 | 0.1913587 | 84159 | AT rich interactive domain 5B (MRF1-like) |
| GO | peptide transporter activity | 1 | 3 | 0.1913587 | 84976 | dispatched homolog 1 (Drosophila) |
| GO | peptide transport | 1 | 3 | 0.1913587 | 84976 | dispatched homolog 1 (Drosophila) |
| GO | diacylglycerol metabolic process | 1 | 3 | 0.1913587 | 8527 | diacylglycerol kinase, delta 130kDa |
| GO | second-messenger-mediated signalin | 1 | 3 | 0.1913587 | 8527 | diacylglycerol kinase, delta 130kDa |
| GO | positive regulation of megakaryocyte | 1 | 3 | 0.1913587 | 85477 | scinderin |
| GO | syndecan binding | 1 | 3 | 0.1913587 | 8646 | chordin |
| GO | sodium:bicarbonate symporter activi | 1 | 3 | 0.1913587 | 8671 | solute carrier family 4, sodium bicarbonate cotransporter, member 4 |
| GO | axon hillock | 1 | 3 | 0.1913587 | 885 | cholecystokinin |
| GO | pantetheine hydrolase activity | 1 | 3 | 0.1913587 | 8875 | vanin 2 |
| GO | spongiotrophoblast differentiation | 1 | 3 | 0.1913587 | 9021 | suppressor of cytokine signaling 3 |
| GO | sulfate assimilation | 1 | 3 | 0.1913587 | 9060 | 3'-phosphoadenosine 5'-phosphosulfate synthase 2 |
| GO | regulation of actin polymerization or | 1 | 3 | 0.1913587 | 9087 | thymosin beta 4, Y-linked |
| GO | positive regulation of activin recepto | 1 | 3 | 0.1913587 | 91 | activin A receptor, type IB |
| GO | phosphatidylinositol-4-phosphate bir | 1 | 3 | 0.1913587 | 91404 | SEC14 and spectrin domains 1 |
| GO | transforming growth factor beta rece | 1 | 3 | 0.1913587 | 94 | activin A receptor type II-like 1 |
| GO | intrinsic to Golgi membrane | 1 | 3 | 0.1913587 | 9435 | carbohydrate (N-acetylglucosamine-6-O) sulfotransferase 2 |
| GO | NAD+ nucleosidase activity | 1 | 3 | 0.1913587 | 952 | CD38 molecule |
| GO | histone H3 deacetylation | 1 | 3 | 0.1913587 | 9734 | histone deacetylase 9 |
| GO | histone H4 deacetylation | 1 | 3 | 0.1913587 | 9734 | histone deacetylase 9 |
| GO | rhombomere 5 development | 1 | 3 | 0.1913587 | 9935 | v-maf musculoaponeurotic fibrosarcoma oncogene homolog B (avian) |
| GO | receptor binding | 18 | 211 | 0.195819 | 10417 | spondin 2, extracellular matrix protein |
| GO | receptor binding | 18 | 211 | 0.195819 | 10507 | sema domain, immunoglobulin domain (Ig), transmembrane domain (T |
| GO | receptor binding | 18 | 211 | 0.195819 | 112 | adenylate cyclase 6 |

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|---|---|---|---|---|---|---|
| GO | receptor binding | 18 | 211 | 0.195819 | 1803 | dipeptidyl-peptidase 4 |
| GO | receptor binding | 18 | 211 | 0.195819 | 23529 | cardiotrophin-like cytokine factor 1 |
| GO | receptor binding | 18 | 211 | 0.195819 | 23780 | apolipoprotein L, 2 |
| GO | receptor binding | 18 | 211 | 0.195819 | 30010 | neurexophilin 1 |
| GO | receptor binding | 18 | 211 | 0.195819 | 3827 | kininogen 1 |
| GO | receptor binding | 18 | 211 | 0.195819 | 4692 | necdin homolog (mouse) |
| GO | receptor binding | 18 | 211 | 0.195819 | 5025 | purinergic receptor P2X, ligand-gated ion channel, 4 |
| GO | receptor binding | 18 | 211 | 0.195819 | 55600 | intelectin 1 (galactofuranose binding) |
| GO | receptor binding | 18 | 211 | 0.195819 | 5972 | renin |
| GO | receptor binding | 18 | 211 | 0.195819 | 6604 | SWI/SNF related, matrix associated, actin dependent regulator of chro |
| GO | receptor binding | 18 | 211 | 0.195819 | 718 | complement component 3 |
| GO | receptor binding | 18 | 211 | 0.195819 | 8740 | tumor necrosis factor (ligand) superfamily, member 14 |
| GO | receptor binding | 18 | 211 | 0.195819 | 8744 | tumor necrosis factor (ligand) superfamily, member 9 |
| GO | receptor binding | 18 | 211 | 0.195819 | 9788 | metastasis suppressor 1 |
| GO | receptor binding | 18 | 211 | 0.195819 | 9966 | tumor necrosis factor (ligand) superfamily, member 15 |
| GO | cholesterol transport | 2 | 12 | 0.1959229 | 1080 | cystic fibrosis transmembrane conductance regulator (ATP-binding cas |
| GO | cholesterol transport | 2 | 12 | 0.1959229 | 3949 | low density lipoprotein receptor |
| GO | Rac GTPase binding | 2 | 12 | 0.1959229 | 10811 | NADPH oxidase activator 1 |
| GO | Rac GTPase binding | 2 | 12 | 0.1959229 | 27035 | NADPH oxidase 1 |
| GO | microvillus membrane | 2 | 12 | 0.1959229 | 112 | adenylate cyclase 6 |
| GO | microvillus membrane | 2 | 12 | 0.1959229 | 8842 | prominin 1 |
| GO | keratinocyte proliferation | 2 | 12 | 0.1959229 | 11202 | kallikrein-related peptidase 8 |
| GO | keratinocyte proliferation | 2 | 12 | 0.1959229 | 195814 | short chain dehydrogenase/reductase family 16C, member 5 |
| GO | positive regulation of macrophage de | 2 | 12 | 0.1959229 | 1435 | colony stimulating factor 1 (macrophage) |
| GO | positive regulation of macrophage de | 2 | 12 | 0.1959229 | 183 | angiotensinogen (serpin peptidase inhibitor, clade A, member 8) |
| GO | lysosphingolipid and lysophosphatidi | 2 | 12 | 0.1959229 | 1901 | sphingosine-1-phosphate receptor 1 |
| GO | lysosphingolipid and lysophosphatidi | 2 | 12 | 0.1959229 | 1902 | lysophosphatidic acid receptor 1 |
| GO | neuromuscular synaptic transmission | 2 | 12 | 0.1959229 | 1960 | early growth response 3 |
| GO | neuromuscular synaptic transmission | 2 | 12 | 0.1959229 | 23095 | kinesin family member 1B |
| GO | eye photoreceptor cell development | 2 | 12 | 0.1959229 | 23418 | crumbs homolog 1 (Drosophila) |
| GO | eye photoreceptor cell development | 2 | 12 | 0.1959229 | 6096 | RAR-related orphan receptor B |
| GO | positive regulation of caspase activity | 2 | 12 | 0.1959229 | 29108 | PYD and CARD domain containing |
| GO | positive regulation of caspase activity | 2 | 12 | 0.1959229 | 83595 | SRY (sex determining region Y)-box 7 |
| GO | tissue homeostasis | 2 | 12 | 0.1959229 | 29123 | ankyrin repeat domain 11 |
| GO | tissue homeostasis | 2 | 12 | 0.1959229 | 5025 | purinergic receptor P2X, ligand-gated ion channel, 4 |
| GO | insulin receptor substrate binding | 2 | 12 | 0.1959229 | 3643 | insulin receptor |

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|---|---|---|---|---|---|---|
| GO | insulin receptor substrate binding | 2 | 12 | 0.1959229 | 5295 | phosphoinositide-3-kinase, regulatory subunit 1 (alpha) |
| GO | low-density lipoprotein particle | 2 | 12 | 0.1959229 | 3949 | low density lipoprotein receptor |
| GO | low-density lipoprotein particle | 2 | 12 | 0.1959229 | 6653 | sortilin-related receptor, L(DLR class) A repeats-containing |
| GO | melanocyte differentiation | 2 | 12 | 0.1959229 | 4286 | microphthalmia-associated transcription factor |
| GO | melanocyte differentiation | 2 | 12 | 0.1959229 | 5873 | RAB27A, member RAS oncogene family |
| GO | positive regulation of calcium ion tra | 2 | 12 | 0.1959229 | 5025 | purinergic receptor P2X, ligand-gated ion channel, 4 |
| GO | positive regulation of calcium ion tra | 2 | 12 | 0.1959229 | 57620 | stromal interaction molecule 2 |
| GO | retinoic acid receptor signaling pathv | 2 | 12 | 0.1959229 | 5371 | promyelocytic leukemia |
| GO | retinoic acid receptor signaling pathv | 2 | 12 | 0.1959229 | 6256 | retinoid X receptor, alpha |
| GO | positive regulation of stress-activatec | 2 | 12 | 0.1959229 | 64127 | nucleotide-binding oligomerization domain containing 2 |
| GO | positive regulation of stress-activatec | 2 | 12 | 0.1959229 | 7099 | toll-like receptor 4 |
| GO | anion transmembrane transporter ac | 2 | 12 | 0.1959229 | 6521 | solute carrier family 4, anion exchanger, member 1 (erythrocyte memb |
| GO | anion transmembrane transporter ac | 2 | 12 | 0.1959229 | 8671 | solute carrier family 4, sodium bicarbonate cotransporter, member 4 |
| GO | caspase inhibitor activity | 2 | 12 | 0.1959229 | 6622 | synuclein, alpha (non A4 component of amyloid precursor) |
| GO | caspase inhibitor activity | 2 | 12 | 0.1959229 | 8740 | tumor necrosis factor (ligand) superfamily, member 14 |
| GO | protein tyrosine phosphatase activity | 8 | 82 | 0.1967798 | 10076 | protein tyrosine phosphatase, receptor type, U |
| GO | protein tyrosine phosphatase activity | 8 | 82 | 0.1967798 | 1844 | dual specificity phosphatase 2 |
| GO | protein tyrosine phosphatase activity | 8 | 82 | 0.1967798 | 1847 | dual specificity phosphatase 5 |
| GO | protein tyrosine phosphatase activity | 8 | 82 | 0.1967798 | 26191 | protein tyrosine phosphatase, non-receptor type 22 (lymphoid) |
| GO | protein tyrosine phosphatase activity | 8 | 82 | 0.1967798 | 54961 | slingshot homolog 3 (Drosophila) |
| GO | protein tyrosine phosphatase activity | 8 | 82 | 0.1967798 | 5774 | protein tyrosine phosphatase, non-receptor type 3 |
| GO | protein tyrosine phosphatase activity | 8 | 82 | 0.1967798 | 5801 | protein tyrosine phosphatase, receptor type, R |
| GO | protein tyrosine phosphatase activity | 8 | 82 | 0.1967798 | 8556 | CDC14 cell division cycle 14 homolog A (S. cerevisiae) |
| GO | positive regulation of transcription | 13 | 146 | 0.1987917 | 10891 | peroxisome proliferator-activated receptor gamma, coactivator 1 alpha |
| GO | positive regulation of transcription | 13 | 146 | 0.1987917 | 1958 | early growth response 1 |
| GO | positive regulation of transcription | 13 | 146 | 0.1987917 | 222546 | regulatory factor X, 6 |
| GO | positive regulation of transcription | 13 | 146 | 0.1987917 | 2353 | FBJ murine osteosarcoma viral oncogene homolog |
| GO | positive regulation of transcription | 13 | 146 | 0.1987917 | 2737 | GLI family zinc finger 3 |
| GO | positive regulation of transcription | 13 | 146 | 0.1987917 | 285704 | RGM domain family, member B |
| GO | positive regulation of transcription | 13 | 146 | 0.1987917 | 3725 | jun oncogene |
| GO | positive regulation of transcription | 13 | 146 | 0.1987917 | 4087 | SMAD family member 2 |
| GO | positive regulation of transcription | 13 | 146 | 0.1987917 | 4778 | nuclear factor (erythroid-derived 2), 45kDa |
| GO | positive regulation of transcription | 13 | 146 | 0.1987917 | 5465 | peroxisome proliferator-activated receptor alpha |
| GO | positive regulation of transcription | 13 | 146 | 0.1987917 | 6256 | retinoid X receptor, alpha |
| GO | positive regulation of transcription | 13 | 146 | 0.1987917 | 7026 | nuclear receptor subfamily 2, group F, member 2 |
| GO | positive regulation of transcription | 13 | 146 | 0.1987917 | 94 | activin A receptor type II-like 1 |

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|---|---|---|---|---|---|---|
| GO | sulfotransferase activity | 4 | 34 | 0.2002871 | 10090 | uronyl-2-sulfotransferase |
| GO | sulfotransferase activity | 4 | 34 | 0.2002871 | 6819 | sulfotransferase family, cytosolic, 1C, member 2 |
| GO | sulfotransferase activity | 4 | 34 | 0.2002871 | 8509 | N-deacetylase/N-sulfotransferase (heparan glucosaminyl) 2 |
| GO | sulfotransferase activity | 4 | 34 | 0.2002871 | 9435 | carbohydrate (N-acetylglucosamine-6-O) sulfotransferase 2 |
| GO | PML body | 4 | 34 | 0.2002871 | 11200 | CHK2 checkpoint homolog (S. pombe) |
| GO | PML body | 4 | 34 | 0.2002871 | 28996 | homeodomain interacting protein kinase 2 |
| GO | PML body | 4 | 34 | 0.2002871 | 5371 | promyelocytic leukemia |
| GO | PML body | 4 | 34 | 0.2002871 | 81603 | tripartite motif-containing 8 |
| GO | activation of protein kinase C activity | 4 | 34 | 0.2002871 | 1906 | endothelin 1 |
| GO | activation of protein kinase C activity | 4 | 34 | 0.2002871 | 56288 | par-3 partitioning defective 3 homolog (C. elegans) |
| GO | activation of protein kinase C activity | 4 | 34 | 0.2002871 | 8527 | diacylglycerol kinase, delta 130kDa |
| GO | activation of protein kinase C activity | 4 | 34 | 0.2002871 | 885 | cholecystokinin |
| GO | humoral immune response | 4 | 34 | 0.2002871 | 29760 | B-cell linker |
| GO | humoral immune response | 4 | 34 | 0.2002871 | 3569 | interleukin 6 (interferon, beta 2) |
| GO | humoral immune response | 4 | 34 | 0.2002871 | 5699 | proteasome (prosome, macropain) subunit, beta type, 10 |
| GO | humoral immune response | 4 | 34 | 0.2002871 | 684 | bone marrow stromal cell antigen 2 |
| GO | response to calcium ion | 5 | 46 | 0.2037956 | 10628 | thioredoxin interacting protein |
| GO | response to calcium ion | 5 | 46 | 0.2037956 | 1843 | dual specificity phosphatase 1 |
| GO | response to calcium ion | 5 | 46 | 0.2037956 | 2033 | E1A binding protein p300 |
| GO | response to calcium ion | 5 | 46 | 0.2037956 | 311 | annexin A11 |
| GO | response to calcium ion | 5 | 46 | 0.2037956 | 5122 | proprotein convertase subtilisin/kexin type 1 |
| GO | Z disc | 5 | 46 | 0.2037956 | 11155 | LIM domain binding 3 |
| GO | Z disc | 5 | 46 | 0.2037956 | 27295 | PDZ and LIM domain 3 |
| GO | Z disc | 5 | 46 | 0.2037956 | 5239 | phosphoglucomutase 5 |
| GO | Z disc | 5 | 46 | 0.2037956 | 6521 | solute carrier family 4, anion exchanger, member 1 (erythrocyte memb |
| GO | Z disc | 5 | 46 | 0.2037956 | 84033 | obscurin, cytoskeletal calmodulin and titin-interacting RhoGEF |
| GO | regulation of ARF GTPase activity | 3 | 23 | 0.205263 | 116984 | ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 2 |
| GO | regulation of ARF GTPase activity | 3 | 23 | 0.205263 | 3268 | ArfGAP with FG repeats 2 |
| GO | regulation of ARF GTPase activity | 3 | 23 | 0.205263 | 55616 | ArfGAP with SH3 domain, ankyrin repeat and PH domain 3 |
| GO | developmental growth | 3 | 23 | 0.205263 | 127343 | diencephalon/mesencephalon homeobox 1 |
| GO | developmental growth | 3 | 23 | 0.205263 | 2737 | GLI family zinc finger 3 |
| GO | developmental growth | 3 | 23 | 0.205263 | 4087 | SMAD family member 2 |
| GO | neuromuscular process controlling ba | 3 | 23 | 0.205263 | 2055 | ceroid-lipofuscinosis, neuronal 8 (epilepsy, progressive with mental ret |
| GO | neuromuscular process controlling ba | 3 | 23 | 0.205263 | 53405 | chloride intracellular channel 5 |
| GO | neuromuscular process controlling ba | 3 | 23 | 0.205263 | 8013 | nuclear receptor subfamily 4, group A, member 3 |
| GO | cell maturation | 3 | 23 | 0.205263 | 2624 | GATA binding protein 2 |

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|---|---|---|---|---|---|---|
| GO | cell maturation | 3 | 23 | 0.205263 | 26468 | LIM homeobox 6 |
| GO | cell maturation | 3 | 23 | 0.205263 | 5972 | renin |
| GO | positive regulation of osteoblast diffe | 3 | 23 | 0.205263 | 3569 | interleukin 6 (interferon, beta 2) |
| GO | positive regulation of osteoblast diffe | 3 | 23 | 0.205263 | 3570 | interleukin 6 receptor |
| GO | positive regulation of osteoblast diffe | 3 | 23 | 0.205263 | 652 | bone morphogenetic protein 4 |
| GO | steroid binding | 3 | 23 | 0.205263 | 4306 | nuclear receptor subfamily 3, group C, member 2 |
| GO | steroid binding | 3 | 23 | 0.205263 | 54852 | progestin and adipoQ receptor family member V |
| GO | steroid binding | 3 | 23 | 0.205263 | 6256 | retinoid X receptor, alpha |
| GO | positive regulation of insulin secretio | 3 | 23 | 0.205263 | 5950 | retinol binding protein 4, plasma |
| GO | positive regulation of insulin secretio | 3 | 23 | 0.205263 | 8660 | insulin receptor substrate 2 |
| GO | positive regulation of insulin secretio | 3 | 23 | 0.205263 | 952 | CD38 molecule |
| GO | neurotransmitter secretion | 3 | 23 | 0.205263 | 6857 | synaptotagmin I |
| GO | neurotransmitter secretion | 3 | 23 | 0.205263 | 8938 | BAI1-associated protein 3 |
| GO | neurotransmitter secretion | 3 | 23 | 0.205263 | 9892 | synaptosomal-associated protein, 91kDa homolog (mouse) |
| GO | blood coagulation | 7 | 71 | 0.2103789 | 2153 | coagulation factor V (proaccelerin, labile factor) |
| GO | blood coagulation | 7 | 71 | 0.2103789 | 22915 | multimerin 1 |
| GO | blood coagulation | 7 | 71 | 0.2103789 | 30008 | EGF-containing fibulin-like extracellular matrix protein 2 |
| GO | blood coagulation | 7 | 71 | 0.2103789 | 3587 | interleukin 10 receptor, alpha |
| GO | blood coagulation | 7 | 71 | 0.2103789 | 5327 | plasminogen activator, tissue |
| GO | blood coagulation | 7 | 71 | 0.2103789 | 5873 | RAB27A, member RAS oncogene family |
| GO | blood coagulation | 7 | 71 | 0.2103789 | 725 | complement component 4 binding protein, beta |
| GO | FAD binding | 7 | 71 | 0.2103789 | 27035 | NADPH oxidase 1 |
| GO | FAD binding | 7 | 71 | 0.2103789 | 316 | aldehyde oxidase 1 |
| GO | FAD binding | 7 | 71 | 0.2103789 | 35 | acyl-Coenzyme A dehydrogenase, C-2 to C-3 short chain |
| GO | FAD binding | 7 | 71 | 0.2103789 | 4129 | monoamine oxidase B |
| GO | FAD binding | 7 | 71 | 0.2103789 | 4842 | nitric oxide synthase 1 (neuronal) |
| GO | FAD binding | 7 | 71 | 0.2103789 | 56605 | ERO1-like beta (S. cerevisiae) |
| GO | FAD binding | 7 | 71 | 0.2103789 | 79689 | STEAP family member 4 |
| GO | positive regulation of transcription, D | 11 | 122 | 0.2120286 | 10891 | peroxisome proliferator-activated receptor gamma, coactivator 1 alpha |
| GO | positive regulation of transcription, D | 11 | 122 | 0.2120286 | 2114 | v-ets erythroblastosis virus E26 oncogene homolog 2 (avian) |
| GO | positive regulation of transcription, D | 11 | 122 | 0.2120286 | 2122 | MDS1 and EVI1 complex locus |
| GO | positive regulation of transcription, D | 11 | 122 | 0.2120286 | 2296 | forkhead box C1 |
| GO | positive regulation of transcription, D | 11 | 122 | 0.2120286 | 2303 | forkhead box C2 (MFH-1, mesenchyme forkhead 1) |
| GO | positive regulation of transcription, D | 11 | 122 | 0.2120286 | 28996 | homeodomain interacting protein kinase 2 |
| GO | positive regulation of transcription, D | 11 | 122 | 0.2120286 | 4087 | SMAD family member 2 |
| GO | positive regulation of transcription, D | 11 | 122 | 0.2120286 | 4802 | nuclear transcription factor Y, gamma |

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|---|---|---|---|---|---|---|
| GO | positive regulation of transcription, D | 11 | 122 | 0.2120286 | 51085 | MLX interacting protein-like |
| GO | positive regulation of transcription, D | 11 | 122 | 0.2120286 | 55810 | forkhead box J2 |
| GO | positive regulation of transcription, D | 11 | 122 | 0.2120286 | 6604 | SWI/SNF related, matrix associated, actin dependent regulator of chro |
| GO | organ regeneration | 4 | 35 | 0.21484 | 10076 | protein tyrosine phosphatase, receptor type, U |
| GO | organ regeneration | 4 | 35 | 0.21484 | 8013 | nuclear receptor subfamily 4, group A, member 3 |
| GO | organ regeneration | 4 | 35 | 0.21484 | 8531 | cold shock domain protein A |
| GO | organ regeneration | 4 | 35 | 0.21484 | 9021 | suppressor of cytokine signaling 3 |
| GO | embryonic limb morphogenesis | 4 | 35 | 0.21484 | 2201 | fibrillin 2 |
| GO | embryonic limb morphogenesis | 4 | 35 | 0.21484 | 4853 | Notch homolog 2 (Drosophila) |
| GO | embryonic limb morphogenesis | 4 | 35 | 0.21484 | 5396 | paired related homeobox 1 |
| GO | embryonic limb morphogenesis | 4 | 35 | 0.21484 | 7474 | wingless-type MMTV integration site family, member 5A |
| GO | extracellular matrix | 4 | 35 | 0.21484 | 2263 | fibroblast growth factor receptor 2 |
| GO | extracellular matrix | 4 | 35 | 0.21484 | 4856 | nephroblastoma overexpressed gene |
| GO | extracellular matrix | 4 | 35 | 0.21484 | 5046 | proprotein convertase subtilisin/kexin type 6 |
| GO | extracellular matrix | 4 | 35 | 0.21484 | 5327 | plasminogen activator, tissue |
| GO | binding | 39 | 500 | 0.2156733 | 10170 | dehydrogenase/reductase (SDR family) member 9 |
| GO | binding | 39 | 500 | 0.2156733 | 11187 | plakophilin 3 |
| GO | binding | 39 | 500 | 0.2156733 | 112724 | retinol dehydrogenase 13 (all-trans/9-cis) |
| GO | binding | 39 | 500 | 0.2156733 | 123096 | solute carrier family 25, member 29 |
| GO | binding | 39 | 500 | 0.2156733 | 125 | alcohol dehydrogenase 1B (class I), beta polypeptide |
| GO | binding | 39 | 500 | 0.2156733 | 1462 | versican |
| GO | binding | 39 | 500 | 0.2156733 | 157506 | retinol dehydrogenase 10 (all-trans) |
| GO | binding | 39 | 500 | 0.2156733 | 157855 | potassium channel, subfamily U, member 1 |
| GO | binding | 39 | 500 | 0.2156733 | 195814 | short chain dehydrogenase/reductase family 16C, member 5 |
| GO | binding | 39 | 500 | 0.2156733 | 2201 | fibrillin 2 |
| GO | binding | 39 | 500 | 0.2156733 | 22925 | phospholipase A2 receptor 1, 180kDa |
| GO | binding | 39 | 500 | 0.2156733 | 23331 | tetratricopeptide repeat domain 28 |
| GO | binding | 39 | 500 | 0.2156733 | 23382 | adenosylhomocysteinase-like 2 |
| GO | binding | 39 | 500 | 0.2156733 | 257019 | FERM domain containing 3 |
| GO | binding | 39 | 500 | 0.2156733 | 316 | aldehyde oxidase 1 |
| GO | binding | 39 | 500 | 0.2156733 | 3294 | hydroxysteroid (17-beta) dehydrogenase 2 |
| GO | binding | 39 | 500 | 0.2156733 | 339766 | HEAT repeat containing 7B1 |
| GO | binding | 39 | 500 | 0.2156733 | 3437 | interferon-induced protein with tetratricopeptide repeats 3 |
| GO | binding | 39 | 500 | 0.2156733 | 345275 | hydroxysteroid (17-beta) dehydrogenase 13 |
| GO | binding | 39 | 500 | 0.2156733 | 3823 | killer cell lectin-like receptor subfamily C, member 3 |
| GO | binding | 39 | 500 | 0.2156733 | 399671 | HEAT repeat containing 4 |

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|---|---|---|---|---|---|---|
| GO | binding | 39 | 500 | 0.2156733 | 4065 | lymphocyte antigen 75 |
| GO | binding | 39 | 500 | 0.2156733 | 4246 | secretoglobin, family 2A, member 1 |
| GO | binding | 39 | 500 | 0.2156733 | 50865 | heme binding protein 1 |
| GO | binding | 39 | 500 | 0.2156733 | 51309 | armadillo repeat containing, X-linked 1 |
| GO | binding | 39 | 500 | 0.2156733 | 5318 | plakophilin 2 |
| GO | binding | 39 | 500 | 0.2156733 | 54436 | SH3 domain and tetratricopeptide repeats 1 |
| GO | binding | 39 | 500 | 0.2156733 | 55130 | armadillo repeat containing 4 |
| GO | binding | 39 | 500 | 0.2156733 | 55761 | tetratricopeptide repeat domain 17 |
| GO | binding | 39 | 500 | 0.2156733 | 622 | 3-hydroxybutyrate dehydrogenase, type 1 |
| GO | binding | 39 | 500 | 0.2156733 | 7404 | ubiquitously transcribed tetratricopeptide repeat gene, Y-linked |
| GO | binding | 39 | 500 | 0.2156733 | 79689 | STEAP family member 4 |
| GO | binding | 39 | 500 | 0.2156733 | 8013 | nuclear receptor subfamily 4, group A, member 3 |
| GO | binding | 39 | 500 | 0.2156733 | 83857 | transmembrane and tetratricopeptide repeat containing 1 |
| GO | binding | 39 | 500 | 0.2156733 | 93349 | SP140 nuclear body protein-like |
| GO | binding | 39 | 500 | 0.2156733 | 9481 | solute carrier family 25, member 27 |
| GO | binding | 39 | 500 | 0.2156733 | 952 | CD38 molecule |
| GO | binding | 39 | 500 | 0.2156733 | 9563 | hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase) |
| GO | binding | 39 | 500 | 0.2156733 | 9823 | armadillo repeat containing, X-linked 2 |
| GO | hydrolase activity, acting on acid anh | 5 | 47 | 0.2162467 | 148229 | ATPase, class I, type 8B, member 3 |
| GO | hydrolase activity, acting on acid anh | 5 | 47 | 0.2162467 | 493 | ATPase, Ca++ transporting, plasma membrane 4 |
| GO | hydrolase activity, acting on acid anh | 5 | 47 | 0.2162467 | 498 | ATP synthase, H+ transporting, mitochondrial F1 complex, alpha subun |
| GO | hydrolase activity, acting on acid anh | 5 | 47 | 0.2162467 | 79895 | ATPase, class I, type 8B, member 4 |
| GO | hydrolase activity, acting on acid anh | 5 | 47 | 0.2162467 | 9914 | ATPase, Ca++ transporting, type 2C, member 2 |
| GO | SH3 domain binding | 9 | 97 | 0.217539 | 1815 | dopamine receptor D4 |
| GO | SH3 domain binding | 9 | 97 | 0.217539 | 23092 | Rho GTPase activating protein 26 |
| GO | SH3 domain binding | 9 | 97 | 0.217539 | 395 | Rho GTPase activating protein 6 |
| GO | SH3 domain binding | 9 | 97 | 0.217539 | 5063 | p21 protein (Cdc42/Rac)-activated kinase 3 |
| GO | SH3 domain binding | 9 | 97 | 0.217539 | 55740 | enabled homolog (Drosophila) |
| GO | SH3 domain binding | 9 | 97 | 0.217539 | 6452 | SH3-domain binding protein 2 |
| GO | SH3 domain binding | 9 | 97 | 0.217539 | 80115 | BAI1-associated protein 2-like 2 |
| GO | SH3 domain binding | 9 | 97 | 0.217539 | 8751 | ADAM metallopeptidase domain 15 |
| GO | SH3 domain binding | 9 | 97 | 0.217539 | 9788 | metastasis suppressor 1 |
| GO | heme binding | 10 | 110 | 0.2189991 | 1558 | cytochrome P450, family 2, subfamily C, polypeptide 8 |
| GO | heme binding | 10 | 110 | 0.2189991 | 1559 | cytochrome P450, family 2, subfamily C, polypeptide 9 |
| GO | heme binding | 10 | 110 | 0.2189991 | 1571 | cytochrome P450, family 2, subfamily E, polypeptide 1 |
| GO | heme binding | 10 | 110 | 0.2189991 | 1577 | cytochrome P450, family 3, subfamily A, polypeptide 5 |

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|---|---|---|---|---|---|---|
| GO | heme binding | 10 | 110 | 0.2189991 | 4151 | myoglobin |
| GO | heme binding | 10 | 110 | 0.2189991 | 4842 | nitric oxide synthase 1 (neuronal) |
| GO | heme binding | 10 | 110 | 0.2189991 | 50865 | heme binding protein 1 |
| GO | heme binding | 10 | 110 | 0.2189991 | 5742 | prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase a |
| GO | heme binding | 10 | 110 | 0.2189991 | 6916 | thromboxane A synthase 1 (platelet) |
| GO | heme binding | 10 | 110 | 0.2189991 | 79152 | fatty acid 2-hydroxylase |
| GO | transferase activity, transferring glyco | 13 | 149 | 0.2190026 | 10317 | UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase, polypeptide 5 |
| GO | transferase activity, transferring glyco | 13 | 149 | 0.2190026 | 192134 | UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 6 (core |
| GO | transferase activity, transferring glyco | 13 | 149 | 0.2190026 | 2525 | fucosyltransferase 3 (galactoside 3(4)-L-fucosyltransferase, Lewis blood |
| GO | transferase activity, transferring glyco | 13 | 149 | 0.2190026 | 2526 | fucosyltransferase 4 (alpha (1,3) fucosyltransferase, myeloid-specific) |
| GO | transferase activity, transferring glyco | 13 | 149 | 0.2190026 | 2589 | UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosami |
| GO | transferase activity, transferring glyco | 13 | 149 | 0.2190026 | 374378 | UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosami |
| GO | transferase activity, transferring glyco | 13 | 149 | 0.2190026 | 53947 | alpha 1,4-galactosyltransferase |
| GO | transferase activity, transferring glyco | 13 | 149 | 0.2190026 | 56913 | core 1 synthase, glycoprotein-N-acetylgalactosamine 3-beta-galactosyl |
| GO | transferase activity, transferring glyco | 13 | 149 | 0.2190026 | 79668 | poly (ADP-ribose) polymerase family, member 8 |
| GO | transferase activity, transferring glyco | 13 | 149 | 0.2190026 | 79695 | UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosami |
| GO | transferase activity, transferring glyco | 13 | 149 | 0.2190026 | 84875 | poly (ADP-ribose) polymerase family, member 10 |
| GO | transferase activity, transferring glyco | 13 | 149 | 0.2190026 | 8706 | beta-1,3-N-acetylgalactosaminyltransferase 1 (globoside blood group) |
| GO | transferase activity, transferring glyco | 13 | 149 | 0.2190026 | 93100 | nicotinate phosphoribosyltransferase domain containing 1 |
| GO | response to nutrient | 7 | 72 | 0.2204007 | 2182 | acyl-CoA synthetase long-chain family member 4 |
| GO | response to nutrient | 7 | 72 | 0.2204007 | 240 | arachidonate 5-lipoxygenase |
| GO | response to nutrient | 7 | 72 | 0.2204007 | 2642 | glucagon receptor |
| GO | response to nutrient | 7 | 72 | 0.2204007 | 51703 | acyl-CoA synthetase long-chain family member 5 |
| GO | response to nutrient | 7 | 72 | 0.2204007 | 6256 | retinoid X receptor, alpha |
| GO | response to nutrient | 7 | 72 | 0.2204007 | 6750 | somatostatin |
| GO | response to nutrient | 7 | 72 | 0.2204007 | 6751 | somatostatin receptor 1 |
| GO | histone deacetylase activity | 2 | 13 | 0.2216579 | 10014 | histone deacetylase 5 |
| GO | histone deacetylase activity | 2 | 13 | 0.2216579 | 9734 | histone deacetylase 9 |
| GO | bone mineralization | 2 | 13 | 0.2216579 | 10117 | enamelin |
| GO | bone mineralization | 2 | 13 | 0.2216579 | 7071 | Kruppel-like factor 10 |
| GO | induction of an organ | 2 | 13 | 0.2216579 | 10252 | sprouty homolog 1, antagonist of FGF signaling (Drosophila) |
| GO | induction of an organ | 2 | 13 | 0.2216579 | 652 | bone morphogenetic protein 4 |
| GO | positive regulation of actin filament p | 2 | 13 | 0.2216579 | 10435 | CDC42 effector protein (Rho GTPase binding) 2 |
| GO | positive regulation of actin filament p | 2 | 13 | 0.2216579 | 148170 | CDC42 effector protein (Rho GTPase binding) 5 |
| GO | superoxide metabolic process | 2 | 13 | 0.2216579 | 10811 | NADPH oxidase activator 1 |
| GO | superoxide metabolic process | 2 | 13 | 0.2216579 | 27035 | NADPH oxidase 1 |

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|---|---|---|---|---|---|---|
| GO | acetylcholine receptor activity | 2 | 13 | 0.2216579 | 1139 | cholinergic receptor, nicotinic, alpha 7 |
| GO | acetylcholine receptor activity | 2 | 13 | 0.2216579 | 8973 | cholinergic receptor, nicotinic, alpha 6 |
| GO | lipid storage | 2 | 13 | 0.2216579 | 123 | perilipin 2 |
| GO | lipid storage | 2 | 13 | 0.2216579 | 130399 | activin A receptor, type IC |
| GO | carboxypeptidase activity | 2 | 13 | 0.2216579 | 1363 | carboxypeptidase E |
| GO | carboxypeptidase activity | 2 | 13 | 0.2216579 | 1368 | carboxypeptidase M |
| GO | positive regulation of phosphoinositi | 2 | 13 | 0.2216579 | 183 | angiotensinogen (serpin peptidase inhibitor, clade A, member 8) |
| GO | positive regulation of phosphoinositi | 2 | 13 | 0.2216579 | 3479 | insulin-like growth factor 1 (somatomedin C) |
| GO | middle ear morphogenesis | 2 | 13 | 0.2216579 | 1906 | endothelin 1 |
| GO | middle ear morphogenesis | 2 | 13 | 0.2216579 | 5396 | paired related homeobox 1 |
| GO | positive regulation of smooth muscle | 2 | 13 | 0.2216579 | 1906 | endothelin 1 |
| GO | positive regulation of smooth muscle | 2 | 13 | 0.2216579 | 5742 | prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase a |
| GO | negative regulation of proteolysis | 2 | 13 | 0.2216579 | 2055 | ceroid-lipofuscinosis, neuronal 8 (epilepsy, progressive with mental ret |
| GO | negative regulation of proteolysis | 2 | 13 | 0.2216579 | 5327 | plasminogen activator, tissue |
| GO | positive regulation vascular endothel | 2 | 13 | 0.2216579 | 27035 | NADPH oxidase 1 |
| GO | positive regulation vascular endothel | 2 | 13 | 0.2216579 | 718 | complement component 3 |
| GO | camera-type eye morphogenesis | 2 | 13 | 0.2216579 | 2737 | GLI family zinc finger 3 |
| GO | camera-type eye morphogenesis | 2 | 13 | 0.2216579 | 652 | bone morphogenetic protein 4 |
| GO | negative regulation of fat cell differer | 2 | 13 | 0.2216579 | 28951 | tribbles homolog 2 (Drosophila) |
| GO | negative regulation of fat cell differer | 2 | 13 | 0.2216579 | 7474 | wingless-type MMTV integration site family, member 5A |
| GO | labyrinthine layer blood vessel develo | 2 | 13 | 0.2216579 | 3491 | cysteine-rich, angiogenic inducer, 61 |
| GO | labyrinthine layer blood vessel develo | 2 | 13 | 0.2216579 | 3726 | jun B proto-oncogene |
| GO | MAP kinase kinase activity | 2 | 13 | 0.2216579 | 4293 | mitogen-activated protein kinase kinase kinase 9 |
| GO | MAP kinase kinase activity | 2 | 13 | 0.2216579 | 5608 | mitogen-activated protein kinase kinase 6 |
| GO | RNA catabolic process | 2 | 13 | 0.2216579 | 4939 | 2'-5'-oligoadenylate synthetase 2, 69/71kDa |
| GO | RNA catabolic process | 2 | 13 | 0.2216579 | 8635 | ribonuclease T2 |
| GO | synaptic transmission, glutamatergic | 2 | 13 | 0.2216579 | 5071 | Parkinson disease (autosomal recessive, juvenile) 2, parkin |
| GO | synaptic transmission, glutamatergic | 2 | 13 | 0.2216579 | 5327 | plasminogen activator, tissue |
| GO | oogenesis | 2 | 13 | 0.2216579 | 54852 | progestin and adipoQ receptor family member V |
| GO | oogenesis | 2 | 13 | 0.2216579 | 55124 | piwi-like 2 (Drosophila) |
| GO | protein targeting to membrane | 2 | 13 | 0.2216579 | 56288 | par-3 partitioning defective 3 homolog (C. elegans) |
| GO | protein targeting to membrane | 2 | 13 | 0.2216579 | 64108 | receptor (chemosensory) transporter protein 4 |
| GO | T cell proliferation | 2 | 13 | 0.2216579 | 7001 | peroxiredoxin 2 |
| GO | T cell proliferation | 2 | 13 | 0.2216579 | 8740 | tumor necrosis factor (ligand) superfamily, member 14 |
| GO | ARF GTPase activator activity | 3 | 24 | 0.2235348 | 116984 | ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 2 |
| GO | ARF GTPase activator activity | 3 | 24 | 0.2235348 | 3268 | ArfGAP with FG repeats 2 |

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| GO | ARF GTPase activator activity | 3 | 24 | 0.2235348 | 55616 | ArfGAP with SH3 domain, ankyrin repeat and PH domain 3 |
| GO | G-protein signaling, coupled to cAMP | 3 | 24 | 0.2235348 | 154 | adrenergic, beta-2-, receptor, surface |
| GO | G-protein signaling, coupled to cAMP | 3 | 24 | 0.2235348 | 2642 | glucagon receptor |
| GO | G-protein signaling, coupled to cAMP | 3 | 24 | 0.2235348 | 5734 | prostaglandin E receptor 4 (subtype EP4) |
| GO | negative regulation of inflammatory | 3 | 24 | 0.2235348 | 154 | adrenergic, beta-2-, receptor, surface |
| GO | negative regulation of inflammatory | 3 | 24 | 0.2235348 | 7133 | tumor necrosis factor receptor superfamily, member 1B |
| GO | negative regulation of inflammatory | 3 | 24 | 0.2235348 | 7538 | zinc finger protein 36, C3H type, homolog (mouse) |
| GO | visual learning | 3 | 24 | 0.2235348 | 1813 | dopamine receptor D2 |
| GO | visual learning | 3 | 24 | 0.2235348 | 3815 | v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog |
| GO | visual learning | 3 | 24 | 0.2235348 | 3845 | v-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog |
| GO | lung alveolus development | 3 | 24 | 0.2235348 | 3479 | insulin-like growth factor 1 (somatomedin C) |
| GO | lung alveolus development | 3 | 24 | 0.2235348 | 652 | bone morphogenetic protein 4 |
| GO | lung alveolus development | 3 | 24 | 0.2235348 | 91461 | protein kinase domain containing, cytoplasmic homolog (mouse) |
| GO | response to gamma radiation | 3 | 24 | 0.2235348 | 3570 | interleukin 6 receptor |
| GO | response to gamma radiation | 3 | 24 | 0.2235348 | 5371 | promyelocytic leukemia |
| GO | response to gamma radiation | 3 | 24 | 0.2235348 | 9021 | suppressor of cytokine signaling 3 |
| GO | learning | 3 | 24 | 0.2235348 | 3725 | jun oncogene |
| GO | learning | 3 | 24 | 0.2235348 | 5071 | Parkinson disease (autosomal recessive, juvenile) 2, parkin |
| GO | learning | 3 | 24 | 0.2235348 | 5577 | protein kinase, cAMP-dependent, regulatory, type II, beta |
| GO | proteolysis involved in cellular protei | 3 | 24 | 0.2235348 | 5696 | proteasome (prosome, macropain) subunit, beta type, 8 (large multifu |
| GO | proteolysis involved in cellular protei | 3 | 24 | 0.2235348 | 5698 | proteasome (prosome, macropain) subunit, beta type, 9 (large multifu |
| GO | proteolysis involved in cellular protei | 3 | 24 | 0.2235348 | 5699 | proteasome (prosome, macropain) subunit, beta type, 10 |
| GO | fatty acid biosynthetic process | 5 | 48 | 0.2289272 | 10826 | chromosome 5 open reading frame 4 |
| GO | fatty acid biosynthetic process | 5 | 48 | 0.2289272 | 123099 | degenerative spermatocyte homolog 2, lipid desaturase (Drosophila) |
| GO | fatty acid biosynthetic process | 5 | 48 | 0.2289272 | 5742 | prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase a |
| GO | fatty acid biosynthetic process | 5 | 48 | 0.2289272 | 6916 | thromboxane A synthase 1 (platelet) |
| GO | fatty acid biosynthetic process | 5 | 48 | 0.2289272 | 79152 | fatty acid 2-hydroxylase |
| GO | phosphoprotein phosphatase activity | 4 | 36 | 0.2296705 | 10106 | CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) sma |
| GO | phosphoprotein phosphatase activity | 4 | 36 | 0.2296705 | 23035 | PH domain and leucine rich repeat protein phosphatase 2 |
| GO | phosphoprotein phosphatase activity | 4 | 36 | 0.2296705 | 23371 | tensin like C1 domain containing phosphatase (tensin 2) |
| GO | phosphoprotein phosphatase activity | 4 | 36 | 0.2296705 | 8556 | CDC14 cell division cycle 14 homolog A (S. cerevisiae) |
| GO | somitogenesis | 4 | 36 | 0.2296705 | 2033 | E1A binding protein p300 |
| GO | somitogenesis | 4 | 36 | 0.2296705 | 2296 | forkhead box C1 |
| GO | somitogenesis | 4 | 36 | 0.2296705 | 5362 | plexin A2 |
| GO | somitogenesis | 4 | 36 | 0.2296705 | 8313 | axin 2 |
| GO | response to organic substance | 4 | 36 | 0.2296705 | 760 | carbonic anhydrase II |

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| GO | response to organic substance | 4 | 36 | 0.2296705 | 8527 | diacylglycerol kinase, delta 130kDa |
| GO | response to organic substance | 4 | 36 | 0.2296705 | 9414 | tight junction protein 2 (zona occludens 2) |
| GO | response to organic substance | 4 | 36 | 0.2296705 | 9619 | ATP-binding cassette, sub-family G (WHITE), member 1 |
| GO | response to stress | 10 | 112 | 0.2353436 | 10912 | growth arrest and DNA-damage-inducible, gamma |
| GO | response to stress | 10 | 112 | 0.2353436 | 23043 | TRAF2 and NCK interacting kinase |
| GO | response to stress | 10 | 112 | 0.2353436 | 27035 | NADPH oxidase 1 |
| GO | response to stress | 10 | 112 | 0.2353436 | 4616 | growth arrest and DNA-damage-inducible, beta |
| GO | response to stress | 10 | 112 | 0.2353436 | 5025 | purinergic receptor P2X, ligand-gated ion channel, 4 |
| GO | response to stress | 10 | 112 | 0.2353436 | 5972 | renin |
| GO | response to stress | 10 | 112 | 0.2353436 | 6446 | serum/glucocorticoid regulated kinase 1 |
| GO | response to stress | 10 | 112 | 0.2353436 | 760 | carbonic anhydrase II |
| GO | response to stress | 10 | 112 | 0.2353436 | 8600 | tumor necrosis factor (ligand) superfamily, member 11 |
| GO | response to stress | 10 | 112 | 0.2353436 | 9537 | tumor protein p53 inducible protein 11 |
| GO | female pregnancy | 6 | 61 | 0.2366756 | 2353 | FBJ murine osteosarcoma viral oncogene homolog |
| GO | female pregnancy | 6 | 61 | 0.2366756 | 412 | steroid sulfatase (microsomal), isozyme S |
| GO | female pregnancy | 6 | 61 | 0.2366756 | 5016 | oviductal glycoprotein 1, 120kDa |
| GO | female pregnancy | 6 | 61 | 0.2366756 | 53405 | chloride intracellular channel 5 |
| GO | female pregnancy | 6 | 61 | 0.2366756 | 6256 | retinoid X receptor, alpha |
| GO | female pregnancy | 6 | 61 | 0.2366756 | 952 | CD38 molecule |
| GO | phospholipid biosynthetic process | 5 | 49 | 0.2418162 | 10162 | lysophosphatidylcholine acyltransferase 3 |
| GO | phospholipid biosynthetic process | 5 | 49 | 0.2418162 | 154141 | membrane bound O-acyltransferase domain containing 1 |
| GO | phospholipid biosynthetic process | 5 | 49 | 0.2418162 | 256987 | serine incorporator 5 |
| GO | phospholipid biosynthetic process | 5 | 49 | 0.2418162 | 51703 | acyl-CoA synthetase long-chain family member 5 |
| GO | phospholipid biosynthetic process | 5 | 49 | 0.2418162 | 54947 | lysophosphatidylcholine acyltransferase 2 |
| GO | wound healing | 5 | 49 | 0.2418162 | 2331 | fibromodulin |
| GO | wound healing | 5 | 49 | 0.2418162 | 375056 | melanoma inhibitory activity family, member 3 |
| GO | wound healing | 5 | 49 | 0.2418162 | 4015 | lysyl oxidase |
| GO | wound healing | 5 | 49 | 0.2418162 | 5465 | peroxisome proliferator-activated receptor alpha |
| GO | wound healing | 5 | 49 | 0.2418162 | 7474 | wingless-type MMTV integration site family, member 5A |
| GO | metallocarboxypeptidase activity | 3 | 25 | 0.2421067 | 1363 | carboxypeptidase E |
| GO | metallocarboxypeptidase activity | 3 | 25 | 0.2421067 | 1368 | carboxypeptidase M |
| GO | metallocarboxypeptidase activity | 3 | 25 | 0.2421067 | 57094 | carboxypeptidase A6 |
| GO | protein phosphatase binding | 3 | 25 | 0.2421067 | 3643 | insulin receptor |
| GO | protein phosphatase binding | 3 | 25 | 0.2421067 | 5295 | phosphoinositide-3-kinase, regulatory subunit 1 (alpha) |
| GO | protein phosphatase binding | 3 | 25 | 0.2421067 | 8660 | insulin receptor substrate 2 |
| GO | leukocyte cell-cell adhesion | 3 | 25 | 0.2421067 | 3678 | integrin, alpha 5 (fibronectin receptor, alpha polypeptide) |

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| GO | leukocyte cell-cell adhesion | 3 | 25 | 0.2421067 | 3689 | integrin, beta 2 (complement component 3 receptor 3 and 4 subunit) |
| GO | leukocyte cell-cell adhesion | 3 | 25 | 0.2421067 | 6850 | spleen tyrosine kinase |
| GO | symporter activity | 10 | 113 | 0.2436812 | 10568 | solute carrier family 34 (sodium phosphate), member 2 |
| GO | symporter activity | 10 | 113 | 0.2436812 | 151473 | solute carrier family 16, member 14 (monocarboxylic acid transporter |
| GO | symporter activity | 10 | 113 | 0.2436812 | 6505 | solute carrier family 1 (neuronal/epithelial high affinity glutamate tran |
| GO | symporter activity | 10 | 113 | 0.2436812 | 6535 | solute carrier family 6 (neurotransmitter transporter, creatine), memb |
| GO | symporter activity | 10 | 113 | 0.2436812 | 6564 | solute carrier family 15 (oligopeptide transporter), member 1 |
| GO | symporter activity | 10 | 113 | 0.2436812 | 6565 | solute carrier family 15 (H+/peptide transporter), member 2 |
| GO | symporter activity | 10 | 113 | 0.2436812 | 84561 | solute carrier family 12 (potassium/chloride transporters), member 8 |
| GO | symporter activity | 10 | 113 | 0.2436812 | 8671 | solute carrier family 4, sodium bicarbonate cotransporter, member 4 |
| GO | symporter activity | 10 | 113 | 0.2436812 | 9194 | solute carrier family 16, member 7 (monocarboxylic acid transporter 2) |
| GO | symporter activity | 10 | 113 | 0.2436812 | 9962 | solute carrier family 23 (nucleobase transporters), member 2 |
| GO | activation of adenylate cyclase activit | 4 | 37 | 0.2447449 | 112 | adenylate cyclase 6 |
| GO | activation of adenylate cyclase activit | 4 | 37 | 0.2447449 | 154 | adrenergic, beta-2-, receptor, surface |
| GO | activation of adenylate cyclase activit | 4 | 37 | 0.2447449 | 2642 | glucagon receptor |
| GO | activation of adenylate cyclase activit | 4 | 37 | 0.2447449 | 799 | calcitonin receptor |
| GO | protein amino acid sulfation | 1 | 4 | 0.2466366 | 10090 | uronyl-2-sulfotransferase |
| GO | CTD phosphatase activity | 1 | 4 | 0.2466366 | 10106 | CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) sma |
| GO | branching involved in prostate gland | 1 | 4 | 0.2466366 | 10116 | fem-1 homolog b (C. elegans) |
| GO | 9-cis-retinoic acid biosynthetic proce | 1 | 4 | 0.2466366 | 10170 | dehydrogenase/reductase (SDR family) member 9 |
| GO | base conversion or substitution editi | 1 | 4 | 0.2466366 | 104 | adenosine deaminase, RNA-specific, B1 (RED1 homolog rat) |
| GO | regulation of respiratory burst | 1 | 4 | 0.2466366 | 10811 | NADPH oxidase activator 1 |
| GO | cellular glucose homeostasis | 1 | 4 | 0.2466366 | 10891 | peroxisome proliferator-activated receptor gamma, coactivator 1 alph |
| GO | positive regulation of histone acetyla | 1 | 4 | 0.2466366 | 10891 | peroxisome proliferator-activated receptor gamma, coactivator 1 alph |
| GO | DNA damage response, signal transd | 1 | 4 | 0.2466366 | 11200 | CHK2 checkpoint homolog (S. pombe) |
| GO | mammary duct terminal end bud gro | 1 | 4 | 0.2466366 | 1435 | colony stimulating factor 1 (macrophage) |
| GO | piP-body | 1 | 4 | 0.2466366 | 143689 | piwi-like 4 (Drosophila) |
| GO | negative regulation of peptidase acti | 1 | 4 | 0.2466366 | 1471 | cystatin C |
| GO | heterocycle metabolic process | 1 | 4 | 0.2466366 | 1571 | cytochrome P450, family 2, subfamily E, polypeptide 1 |
| GO | nose development | 1 | 4 | 0.2466366 | 157506 | retinol dehydrogenase 10 (all-trans) |
| GO | sphingomyelin biosynthetic process | 1 | 4 | 0.2466366 | 166929 | sphingomyelin synthase 2 |
| GO | zymogen granule membrane | 1 | 4 | 0.2466366 | 1755 | deleted in malignant brain tumors 1 |
| GO | regulation of cAMP metabolic proces | 1 | 4 | 0.2466366 | 1813 | dopamine receptor D2 |
| GO | regulation of dopamine uptake | 1 | 4 | 0.2466366 | 1813 | dopamine receptor D2 |
| GO | positive regulation of kinase activity | 1 | 4 | 0.2466366 | 1815 | dopamine receptor D4 |
| GO | JUN kinase binding | 1 | 4 | 0.2466366 | 1822 | atrophin 1 |

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|---|---|---|---|---|---|---|
| GO | toxin metabolic process | 1 | 4 | 0.2466366 | 1822 | atrophin 1 |
| GO | astrocyte activation | 1 | 4 | 0.2466366 | 183 | angiotensinogen (serpin peptidase inhibitor, clade A, member 8) |
| GO | peptide hormone secretion | 1 | 4 | 0.2466366 | 1906 | endothelin 1 |
| GO | positive regulation of cell size | 1 | 4 | 0.2466366 | 1906 | endothelin 1 |
| GO | vein smooth muscle contraction | 1 | 4 | 0.2466366 | 1906 | endothelin 1 |
| GO | eukaryotic translation elongation fact | 1 | 4 | 0.2466366 | 1915 | eukaryotic translation elongation factor 1 alpha 1 |
| GO | facial nerve structural organization | 1 | 4 | 0.2466366 | 1959 | early growth response 2 |
| GO | Schwann cell differentiation | 1 | 4 | 0.2466366 | 1959 | early growth response 2 |
| GO | phosphopyruvate hydratase activity | 1 | 4 | 0.2466366 | 2026 | enolase 2 (gamma, neuronal) |
| GO | phosphopyruvate hydratase complex | 1 | 4 | 0.2466366 | 2026 | enolase 2 (gamma, neuronal) |
| GO | peroxisome proliferator activated rec | 1 | 4 | 0.2466366 | 2033 | E1A binding protein p300 |
| GO | response to cobalt ion | 1 | 4 | 0.2466366 | 2033 | E1A binding protein p300 |
| GO | histone demethylase activity (H3-K9 | 1 | 4 | 0.2466366 | 23081 | lysine (K)-specific demethylase 4C |
| GO | cAMP response element binding prot | 1 | 4 | 0.2466366 | 23373 | CREB regulated transcription coactivator 1 |
| GO | lipoxygenase pathway | 1 | 4 | 0.2466366 | 240 | arachidonate 5-lipoxygenase |
| GO | inner ear receptor cell differentiation | 1 | 4 | 0.2466366 | 26281 | fibroblast growth factor 20 |
| GO | cerebral cortex radially oriented cell | 1 | 4 | 0.2466366 | 26468 | LIM homeobox 6 |
| GO | forebrain neuron development | 1 | 4 | 0.2466366 | 26468 | LIM homeobox 6 |
| GO | NADP metabolic process | 1 | 4 | 0.2466366 | 27035 | NADPH oxidase 1 |
| GO | regulation of systemic arterial blood | 1 | 4 | 0.2466366 | 27035 | NADPH oxidase 1 |
| GO | optic nerve morphogenesis | 1 | 4 | 0.2466366 | 2737 | GLI family zinc finger 3 |
| GO | positive regulation of T-helper 1 cell | 1 | 4 | 0.2466366 | 3142 | H2.0-like homeobox |
| GO | positive regulation of estrogen recep | 1 | 4 | 0.2466366 | 3169 | forkhead box A1 |
| GO | testosterone 17-beta-dehydrogenase | 1 | 4 | 0.2466366 | 3294 | hydroxysteroid (17-beta) dehydrogenase 2 |
| GO | chondroitin sulfate proteoglycan bios | 1 | 4 | 0.2466366 | 3479 | insulin-like growth factor 1 (somatomedin C) |
| GO | lung lobe morphogenesis | 1 | 4 | 0.2466366 | 3479 | insulin-like growth factor 1 (somatomedin C) |
| GO | positive regulation of granule cell pre | 1 | 4 | 0.2466366 | 3479 | insulin-like growth factor 1 (somatomedin C) |
| GO | water homeostasis | 1 | 4 | 0.2466366 | 3479 | insulin-like growth factor 1 (somatomedin C) |
| GO | ciliary neurotrophic factor receptor a | 1 | 4 | 0.2466366 | 3570 | interleukin 6 receptor |
| GO | lateral ventricle development | 1 | 4 | 0.2466366 | 358 | aquaporin 1 (Colton blood group) |
| GO | insulin-like growth factor II binding | 1 | 4 | 0.2466366 | 3643 | insulin receptor |
| GO | regulation of gene-specific transcript | 1 | 4 | 0.2466366 | 3643 | insulin receptor |
| GO | cell-cell adhesion mediated by integr | 1 | 4 | 0.2466366 | 3678 | integrin, alpha 5 (fibronectin receptor, alpha polypeptide) |
| GO | cell-substrate junction assembly | 1 | 4 | 0.2466366 | 3678 | integrin, alpha 5 (fibronectin receptor, alpha polypeptide) |
| GO | calcium ion transmembrane transpor | 1 | 4 | 0.2466366 | 3709 | inositol 1,4,5-triphosphate receptor, type 2 |
| GO | platelet dense tubular network mem | 1 | 4 | 0.2466366 | 3709 | inositol 1,4,5-triphosphate receptor, type 2 |

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|---|---|---|---|---|---|---|
| GO | positive regulation by host of viral tra | 1 | 4 | 0.2466366 | 3725 | jun oncogene |
| GO | saliva secretion | 1 | 4 | 0.2466366 | 3783 | potassium intermediate/small conductance calcium-activated channel, |
| GO | myeloid leukocyte differentiation | 1 | 4 | 0.2466366 | 3815 | v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog |
| GO | positive regulation of Rac protein sigı | 1 | 4 | 0.2466366 | 3845 | v-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog |
| GO | response to mineralocorticoid stimul | 1 | 4 | 0.2466366 | 3845 | v-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog |
| GO | very-low-density lipoprotein receptoı | 1 | 4 | 0.2466366 | 3949 | low density lipoprotein receptor |
| GO | dopamine catabolic process | 1 | 4 | 0.2466366 | 4128 | monoamine oxidase A |
| GO | androgen binding | 1 | 4 | 0.2466366 | 4246 | secretoglobin, family 2A, member 1 |
| GO | bone remodeling | 1 | 4 | 0.2466366 | 4286 | microphthalmia-associated transcription factor |
| GO | JUN kinase kinase kinase activity | 1 | 4 | 0.2466366 | 4293 | mitogen-activated protein kinase kinase kinase 9 |
| GO | cell-cell junction maintenance | 1 | 4 | 0.2466366 | 4359 | myelin protein zero |
| GO | negative regulation of lipid storage | 1 | 4 | 0.2466366 | 4792 | nuclear factor of kappa light polypeptide gene enhancer in B-cells inhib |
| GO | toll-like receptor 4 signaling pathway | 1 | 4 | 0.2466366 | 4792 | nuclear factor of kappa light polypeptide gene enhancer in B-cells inhib |
| GO | CCAAT-binding factor complex | 1 | 4 | 0.2466366 | 4802 | nuclear transcription factor Y, gamma |
| GO | arginine binding | 1 | 4 | 0.2466366 | 4842 | nitric oxide synthase 1 (neuronal) |
| GO | compartment pattern formation | 1 | 4 | 0.2466366 | 4851 | Notch homolog 1, translocation-associated (Drosophila) |
| GO | positive regulation of glial cell differe | 1 | 4 | 0.2466366 | 4851 | Notch homolog 1, translocation-associated (Drosophila) |
| GO | regulation of neurogenesis | 1 | 4 | 0.2466366 | 4851 | Notch homolog 1, translocation-associated (Drosophila) |
| GO | regulation of developmental process | 1 | 4 | 0.2466366 | 4853 | Notch homolog 2 (Drosophila) |
| GO | neurotrophin receptor activity | 1 | 4 | 0.2466366 | 4915 | neurotrophic tyrosine kinase, receptor, type 2 |
| GO | regulation of respiratory gaseous exc | 1 | 4 | 0.2466366 | 4929 | nuclear receptor subfamily 4, group A, member 2 |
| GO | ADP biosynthetic process | 1 | 4 | 0.2466366 | 498 | ATP synthase, H+ transporting, mitochondrial F1 complex, alpha subun |
| GO | mitochondrial proton-transporting A | 1 | 4 | 0.2466366 | 498 | ATP synthase, H+ transporting, mitochondrial F1 complex, alpha subun |
| GO | nerve growth factor processing | 1 | 4 | 0.2466366 | 5046 | proprotein convertase subtilisin/kexin type 6 |
| GO | regulation of BMP signaling pathway | 1 | 4 | 0.2466366 | 5046 | proprotein convertase subtilisin/kexin type 6 |
| GO | secretion by cell | 1 | 4 | 0.2466366 | 5046 | proprotein convertase subtilisin/kexin type 6 |
| GO | catecholamine biosynthetic process | 1 | 4 | 0.2466366 | 5053 | phenylalanine hydroxylase |
| GO | aggresome assembly | 1 | 4 | 0.2466366 | 5071 | Parkinson disease (autosomal recessive, juvenile) 2, parkin |
| GO | norepinephrine metabolic process | 1 | 4 | 0.2466366 | 5071 | Parkinson disease (autosomal recessive, juvenile) 2, parkin |
| GO | positive regulation of lipid biosynthet | 1 | 4 | 0.2466366 | 51085 | MLX interacting protein-like |
| GO | rRNA (adenine-N6,N6-)-dimethyltran | 1 | 4 | 0.2466366 | 51093 | chromosome 1 open reading frame 66 |
| GO | cGMP-mediated signaling | 1 | 4 | 0.2466366 | 5152 | phosphodiesterase 9A |
| GO | intercalated disc | 1 | 4 | 0.2466366 | 5239 | phosphoglucomutase 5 |
| GO | phosphoglucomutase activity | 1 | 4 | 0.2466366 | 5239 | phosphoglucomutase 5 |
| GO | ErbB-3 class receptor binding | 1 | 4 | 0.2466366 | 5295 | phosphoinositide-3-kinase, regulatory subunit 1 (alpha) |
| GO | auditory receptor cell stereocilium or | 1 | 4 | 0.2466366 | 53405 | chloride intracellular channel 5 |

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|---|---|---|---|---|---|---|
| GO | positive regulation of histone deacet | 1 | 4 | 0.2466366 | 5371 | promyelocytic leukemia |
| GO | tube morphogenesis | 1 | 4 | 0.2466366 | 54361 | wingless-type MMTV integration site family, member 4 |
| GO | regulation of fatty acid metabolic pro | 1 | 4 | 0.2466366 | 5465 | peroxisome proliferator-activated receptor alpha |
| GO | platelet activating factor biosynthetic | 1 | 4 | 0.2466366 | 54947 | lysophosphatidylcholine acyltransferase 2 |
| GO | pi-body | 1 | 4 | 0.2466366 | 55124 | piwi-like 2 (Drosophila) |
| GO | phosphorylase kinase regulator activi | 1 | 4 | 0.2466366 | 55140 | elongation protein 3 homolog (S. cerevisiae) |
| GO | transmembrane receptor protein tyr | 1 | 4 | 0.2466366 | 55816 | docking protein 5 |
| GO | tight junction assembly | 1 | 4 | 0.2466366 | 56288 | par-3 partitioning defective 3 homolog (C. elegans) |
| GO | calcium- and calmodulin-dependent | 1 | 4 | 0.2466366 | 57118 | calcium/calmodulin-dependent protein kinase ID |
| GO | activation of store-operated calcium | 1 | 4 | 0.2466366 | 57620 | stromal interaction molecule 2 |
| GO | embryonic organ morphogenesis | 1 | 4 | 0.2466366 | 5950 | retinol binding protein 4, plasma |
| GO | negative regulation of cardiac muscle | 1 | 4 | 0.2466366 | 5950 | retinol binding protein 4, plasma |
| GO | vagina development | 1 | 4 | 0.2466366 | 5950 | retinol binding protein 4, plasma |
| GO | melatonin receptor activity | 1 | 4 | 0.2466366 | 6096 | RAR-related orphan receptor B |
| GO | retinoic acid receptor activity | 1 | 4 | 0.2466366 | 6256 | retinoid X receptor, alpha |
| GO | mechanoreceptor differentiation | 1 | 4 | 0.2466366 | 627 | brain-derived neurotrophic factor |
| GO | regulation of metabolic process | 1 | 4 | 0.2466366 | 627 | brain-derived neurotrophic factor |
| GO | positive regulation of TOR signaling p | 1 | 4 | 0.2466366 | 64083 | golgi phosphoprotein 3 (coat-protein) |
| GO | positive regulation of humoral immu | 1 | 4 | 0.2466366 | 64127 | nucleotide-binding oligomerization domain containing 2 |
| GO | negative regulation of TOR signaling | 1 | 4 | 0.2466366 | 64798 | DEP domain containing 6 |
| GO | alpha-N-acetylneuraminate alpha-2,8 | 1 | 4 | 0.2466366 | 6489 | ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 1 |
| GO | L-glutamate import | 1 | 4 | 0.2466366 | 6505 | solute carrier family 1 (neuronal/epithelial high affinity glutamate trans |
| GO | lens induction in camera-type eye | 1 | 4 | 0.2466366 | 652 | bone morphogenetic protein 4 |
| GO | negative regulation of mitosis | 1 | 4 | 0.2466366 | 652 | bone morphogenetic protein 4 |
| GO | positive regulation of cell death | 1 | 4 | 0.2466366 | 652 | bone morphogenetic protein 4 |
| GO | chloride transmembrane transporter | 1 | 4 | 0.2466366 | 6521 | solute carrier family 4, anion exchanger, member 1 (erythrocyte memb |
| GO | urea transport | 1 | 4 | 0.2466366 | 6563 | solute carrier family 14 (urea transporter), member 1 (Kidd blood grou |
| GO | arachidonic acid binding | 1 | 4 | 0.2466366 | 6622 | synuclein, alpha (non A4 component of amyloid precursor) |
| GO | platelet aggregation | 1 | 4 | 0.2466366 | 6812 | syntaxin binding protein 1 |
| GO | synaptic vesicle maturation | 1 | 4 | 0.2466366 | 6812 | syntaxin binding protein 1 |
| GO | positive regulation of gamma-delta T | 1 | 4 | 0.2466366 | 6850 | spleen tyrosine kinase |
| GO | chromaffin granule membrane | 1 | 4 | 0.2466366 | 6857 | synaptotagmin I |
| GO | progesterone receptor signaling path | 1 | 4 | 0.2466366 | 687 | Kruppel-like factor 9 |
| GO | positive regulation of interferon-alph | 1 | 4 | 0.2466366 | 7098 | toll-like receptor 3 |
| GO | positive regulation of platelet activat | 1 | 4 | 0.2466366 | 7099 | toll-like receptor 4 |
| GO | muscle thin filament tropomyosin | 1 | 4 | 0.2466366 | 7170 | tropomyosin 3 |

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|---|---|---|---|---|---|---|
| GO | luteinization | 1 | 4 | 0.2466366 | 726 | calpain 5 |
| GO | dendritic spine membrane | 1 | 4 | 0.2466366 | 729993 | shisa homolog 9 (Xenopus laevis) |
| GO | gene expression | 1 | 4 | 0.2466366 | 7597 | zinc finger and BTB domain containing 25 |
| GO | positive regulation of cellular pH redu | 1 | 4 | 0.2466366 | 760 | carbonic anhydrase II |
| GO | positive regulation of adenylate cycla | 1 | 4 | 0.2466366 | 799 | calcitonin receptor |
| GO | cellular response to glucose starvatio | 1 | 4 | 0.2466366 | 81788 | NUAK family, SNF1-like kinase, 2 |
| GO | maintenance of organ identity | 1 | 4 | 0.2466366 | 84059 | G protein-coupled receptor 98 |
| GO | blood vessel maturation | 1 | 4 | 0.2466366 | 8434 | reversion-inducing-cysteine-rich protein with kazal motifs |
| GO | peripheral to membrane of membrar | 1 | 4 | 0.2466366 | 8434 | reversion-inducing-cysteine-rich protein with kazal motifs |
| GO | protein phosphatase type 1 complex | 1 | 4 | 0.2466366 | 84919 | protein phosphatase 1, regulatory (inhibitor) subunit 15B |
| GO | [heparan sulfate]-glucosamine N-sulf | 1 | 4 | 0.2466366 | 8509 | N-deacetylase/N-sulfotransferase (heparan glucosaminyl) 2 |
| GO | actin filament severing | 1 | 4 | 0.2466366 | 85477 | scinderin |
| GO | cyclic nucleotide metabolic process | 1 | 4 | 0.2466366 | 8622 | phosphodiesterase 8B |
| GO | negative regulation of plasma membr | 1 | 4 | 0.2466366 | 8660 | insulin receptor substrate 2 |
| GO | positive regulation of glucose metabo | 1 | 4 | 0.2466366 | 8660 | insulin receptor substrate 2 |
| GO | release of cytoplasmic sequestered N | 1 | 4 | 0.2466366 | 8740 | tumor necrosis factor (ligand) superfamily, member 14 |
| GO | positive regulation of mitochondrial | 1 | 4 | 0.2466366 | 885 | cholecystokinin |
| GO | cellular response to protein stimulus | 1 | 4 | 0.2466366 | 8900 | cyclin A1 |
| GO | vacuolar acidification | 1 | 4 | 0.2466366 | 8992 | ATPase, H+ transporting, lysosomal 9kDa, V0 subunit e1 |
| GO | sequestering of actin monomers | 1 | 4 | 0.2466366 | 9087 | thymosin beta 4, Y-linked |
| GO | phosphatidylinositol-5-phosphate bir | 1 | 4 | 0.2466366 | 91404 | SEC14 and spectrin domains 1 |
| GO | long term synaptic depression | 1 | 4 | 0.2466366 | 952 | CD38 molecule |
| GO | response to hydroperoxide | 1 | 4 | 0.2466366 | 952 | CD38 molecule |
| GO | thrombospondin receptor activity | 1 | 4 | 0.2466366 | 961 | CD47 molecule |
| GO | intracellular cholesterol transport | 1 | 4 | 0.2466366 | 9619 | ATP-binding cassette, sub-family G (WHITE), member 1 |
| GO | phospholipid transporter activity | 1 | 4 | 0.2466366 | 9619 | ATP-binding cassette, sub-family G (WHITE), member 1 |
| GO | peptidyl-lysine deacetylation | 1 | 4 | 0.2466366 | 9734 | histone deacetylase 9 |
| GO | positive regulation of cell migration i | 1 | 4 | 0.2466366 | 9734 | histone deacetylase 9 |
| GO | clathrin coat | 1 | 4 | 0.2466366 | 9892 | synaptosomal-associated protein, 91kDa homolog (mouse) |
| GO | regulation of protein transport | 1 | 4 | 0.2466366 | 9892 | synaptosomal-associated protein, 91kDa homolog (mouse) |
| GO | lateral element | 1 | 4 | 0.2466366 | 9985 | REC8 homolog (yeast) |
| GO | temperature homeostasis | 2 | 14 | 0.2476336 | 10891 | peroxisome proliferator-activated receptor gamma, coactivator 1 alph |
| GO | temperature homeostasis | 2 | 14 | 0.2476336 | 1813 | dopamine receptor D2 |
| GO | glutamine metabolic process | 2 | 14 | 0.2476336 | 1373 | carbamoyl-phosphate synthetase 1, mitochondrial |
| GO | glutamine metabolic process | 2 | 14 | 0.2476336 | 27165 | glutaminase 2 (liver, mitochondrial) |
| GO | endosome to lysosome transport | 2 | 14 | 0.2476336 | 154 | adrenergic, beta-2-, receptor, surface |

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|---|---|---|---|---|---|---|
| GO | endosome to lysosome transport | 2 | 14 | 0.2476336 | 22906 | trafficking protein, kinesin binding 1 |
| GO | behavioral fear response | 2 | 14 | 0.2476336 | 1815 | dopamine receptor D4 |
| GO | behavioral fear response | 2 | 14 | 0.2476336 | 885 | cholecystokinin |
| GO | nitric oxide mediated signal transduc | 2 | 14 | 0.2476336 | 183 | angiotensinogen (serpin peptidase inhibitor, clade A, member 8) |
| GO | nitric oxide mediated signal transduc | 2 | 14 | 0.2476336 | 51655 | RAS, dexamethasone-induced 1 |
| GO | response to testosterone stimulus | 2 | 14 | 0.2476336 | 1843 | dual specificity phosphatase 1 |
| GO | response to testosterone stimulus | 2 | 14 | 0.2476336 | 3643 | insulin receptor |
| GO | protein-chromophore linkage | 2 | 14 | 0.2476336 | 22795 | nidogen 2 (osteonidogen) |
| GO | protein-chromophore linkage | 2 | 14 | 0.2476336 | 83872 | hemicentin 1 |
| GO | sulfur metabolic process | 2 | 14 | 0.2476336 | 22901 | arylsulfatase G |
| GO | sulfur metabolic process | 2 | 14 | 0.2476336 | 9435 | carbohydrate (N-acetylglucosamine-6-O) sulfotransferase 2 |
| GO | embryonic heart tube development | 2 | 14 | 0.2476336 | 2296 | forkhead box C1 |
| GO | embryonic heart tube development | 2 | 14 | 0.2476336 | 2303 | forkhead box C2 (MFH-1, mesenchyme forkhead 1) |
| GO | calmodulin-dependent protein kinase | 2 | 14 | 0.2476336 | 23604 | death-associated protein kinase 2 |
| GO | calmodulin-dependent protein kinase | 2 | 14 | 0.2476336 | 57118 | calcium/calmodulin-dependent protein kinase ID |
| GO | regulation of action potential in neur | 2 | 14 | 0.2476336 | 27345 | potassium large conductance calcium-activated channel, subfamily M, |
| GO | regulation of action potential in neur | 2 | 14 | 0.2476336 | 5025 | purinergic receptor P2X, ligand-gated ion channel, 4 |
| GO | positive regulation of protein catabol | 2 | 14 | 0.2476336 | 29116 | myosin regulatory light chain interacting protein |
| GO | positive regulation of protein catabol | 2 | 14 | 0.2476336 | 7474 | wingless-type MMTV integration site family, member 5A |
| GO | neuroblast proliferation | 2 | 14 | 0.2476336 | 3400 | inhibitor of DNA binding 4, dominant negative helix-loop-helix protein |
| GO | neuroblast proliferation | 2 | 14 | 0.2476336 | 429 | achaete-scute complex homolog 1 (Drosophila) |
| GO | transmembrane transporter activity | 2 | 14 | 0.2476336 | 358 | aquaporin 1 (Colton blood group) |
| GO | transmembrane transporter activity | 2 | 14 | 0.2476336 | 498 | ATP synthase, H+ transporting, mitochondrial F1 complex, alpha subun |
| GO | ATP catabolic process | 2 | 14 | 0.2476336 | 368 | ATP-binding cassette, sub-family C (CFTR/MRP), member 6 |
| GO | ATP catabolic process | 2 | 14 | 0.2476336 | 498 | ATP synthase, H+ transporting, mitochondrial F1 complex, alpha subun |
| GO | decidualization | 2 | 14 | 0.2476336 | 3726 | jun B proto-oncogene |
| GO | decidualization | 2 | 14 | 0.2476336 | 682 | basigin (Ok blood group) |
| GO | cell fate specification | 2 | 14 | 0.2476336 | 4851 | Notch homolog 1, translocation-associated (Drosophila) |
| GO | cell fate specification | 2 | 14 | 0.2476336 | 50937 | Cdon homolog (mouse) |
| GO | dystrophin-associated glycoprotein c | 2 | 14 | 0.2476336 | 5239 | phosphoglucomutase 5 |
| GO | dystrophin-associated glycoprotein c | 2 | 14 | 0.2476336 | 8082 | sarcospan (Kras oncogene-associated gene) |
| GO | pathway-restricted SMAD protein ph | 2 | 14 | 0.2476336 | 652 | bone morphogenetic protein 4 |
| GO | pathway-restricted SMAD protein ph | 2 | 14 | 0.2476336 | 7049 | transforming growth factor, beta receptor III |
| GO | single-stranded RNA binding | 2 | 14 | 0.2476336 | 7538 | zinc finger protein 36, C3H type, homolog (mouse) |
| GO | single-stranded RNA binding | 2 | 14 | 0.2476336 | 9271 | piwi-like 1 (Drosophila) |
| GO | transcription factor complex | 12 | 140 | 0.249175 | 10481 | homeobox B13 |

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|---|---|---|---|---|---|---|
| GO | transcription factor complex | 12 | 140 | 0.249175 | 127343 | diencephalon/mesencephalon homeobox 1 |
| GO | transcription factor complex | 12 | 140 | 0.249175 | 2033 | E1A binding protein p300 |
| GO | transcription factor complex | 12 | 140 | 0.249175 | 2353 | FBJ murine osteosarcoma viral oncogene homolog |
| GO | transcription factor complex | 12 | 140 | 0.249175 | 3725 | jun oncogene |
| GO | transcription factor complex | 12 | 140 | 0.249175 | 4087 | SMAD family member 2 |
| GO | transcription factor complex | 12 | 140 | 0.249175 | 51085 | MLX interacting protein-like |
| GO | transcription factor complex | 12 | 140 | 0.249175 | 5308 | paired-like homeodomain 2 |
| GO | transcription factor complex | 12 | 140 | 0.249175 | 5460 | POU class 5 homeobox 1 |
| GO | transcription factor complex | 12 | 140 | 0.249175 | 8543 | LIM domain only 4 |
| GO | transcription factor complex | 12 | 140 | 0.249175 | 9734 | histone deacetylase 9 |
| GO | transcription factor complex | 12 | 140 | 0.249175 | 9935 | v-maf musculoaponeurotic fibrosarcoma oncogene homolog B (avian) |
| GO | fatty acid metabolic process | 7 | 75 | 0.2514152 | 2182 | acyl-CoA synthetase long-chain family member 4 |
| GO | fatty acid metabolic process | 7 | 75 | 0.2514152 | 35 | acyl-Coenzyme A dehydrogenase, C-2 to C-3 short chain |
| GO | fatty acid metabolic process | 7 | 75 | 0.2514152 | 51703 | acyl-CoA synthetase long-chain family member 5 |
| GO | fatty acid metabolic process | 7 | 75 | 0.2514152 | 5465 | peroxisome proliferator-activated receptor alpha |
| GO | fatty acid metabolic process | 7 | 75 | 0.2514152 | 55268 | enoyl Coenzyme A hydratase domain containing 2 |
| GO | fatty acid metabolic process | 7 | 75 | 0.2514152 | 5577 | protein kinase, cAMP-dependent, regulatory, type II, beta |
| GO | fatty acid metabolic process | 7 | 75 | 0.2514152 | 6622 | synuclein, alpha (non A4 component of amyloid precursor) |
| GO | promoter binding | 9 | 101 | 0.2528355 | 10014 | histone deacetylase 5 |
| GO | promoter binding | 9 | 101 | 0.2528355 | 2033 | E1A binding protein p300 |
| GO | promoter binding | 9 | 101 | 0.2528355 | 222546 | regulatory factor X, 6 |
| GO | promoter binding | 9 | 101 | 0.2528355 | 2353 | FBJ murine osteosarcoma viral oncogene homolog |
| GO | promoter binding | 9 | 101 | 0.2528355 | 3169 | forkhead box A1 |
| GO | promoter binding | 9 | 101 | 0.2528355 | 3725 | jun oncogene |
| GO | promoter binding | 9 | 101 | 0.2528355 | 4087 | SMAD family member 2 |
| GO | promoter binding | 9 | 101 | 0.2528355 | 5460 | POU class 5 homeobox 1 |
| GO | promoter binding | 9 | 101 | 0.2528355 | 7026 | nuclear receptor subfamily 2, group F, member 2 |
| GO | response to oxidative stress | 9 | 101 | 0.2528355 | 10628 | thioredoxin interacting protein |
| GO | response to oxidative stress | 9 | 101 | 0.2528355 | 1843 | dual specificity phosphatase 1 |
| GO | response to oxidative stress | 9 | 101 | 0.2528355 | 5742 | prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase a |
| GO | response to oxidative stress | 9 | 101 | 0.2528355 | 7001 | peroxiredoxin 2 |
| GO | response to oxidative stress | 9 | 101 | 0.2528355 | 7099 | toll-like receptor 4 |
| GO | response to oxidative stress | 9 | 101 | 0.2528355 | 79661 | nei endonuclease VIII-like 1 (E. coli) |
| GO | response to oxidative stress | 9 | 101 | 0.2528355 | 84919 | protein phosphatase 1, regulatory (inhibitor) subunit 15B |
| GO | response to oxidative stress | 9 | 101 | 0.2528355 | 93100 | nicotinate phosphoribosyltransferase domain containing 1 |
| GO | response to oxidative stress | 9 | 101 | 0.2528355 | 9962 | solute carrier family 23 (nucleobase transporters), member 2 |

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|---|---|---|---|---|---|---|
| GO | chloride transport | 5 | 50 | 0.2548929 | 1193 | chloride intracellular channel 2 |
| GO | chloride transport | 5 | 50 | 0.2548929 | 53405 | chloride intracellular channel 5 |
| GO | chloride transport | 5 | 50 | 0.2548929 | 5349 | FXYD domain containing ion transport regulator 3 |
| GO | chloride transport | 5 | 50 | 0.2548929 | 6521 | solute carrier family 4, anion exchanger, member 1 (erythrocyte memb |
| GO | chloride transport | 5 | 50 | 0.2548929 | 8542 | apolipoprotein L, 1 |
| GO | activation of caspase activity | 5 | 50 | 0.2548929 | 29108 | PYD and CARD domain containing |
| GO | activation of caspase activity | 5 | 50 | 0.2548929 | 3429 | interferon, alpha-inducible protein 27 |
| GO | activation of caspase activity | 5 | 50 | 0.2548929 | 5371 | promyelocytic leukemia |
| GO | activation of caspase activity | 5 | 50 | 0.2548929 | 885 | cholecystokinin |
| GO | activation of caspase activity | 5 | 50 | 0.2548929 | 9966 | tumor necrosis factor (ligand) superfamily, member 15 |
| GO | Golgi cisterna membrane | 6 | 63 | 0.2598704 | 2525 | fucosyltransferase 3 (galactoside 3(4)-L-fucosyltransferase, Lewis bloo |
| GO | Golgi cisterna membrane | 6 | 63 | 0.2598704 | 2526 | fucosyltransferase 4 (alpha (1,3) fucosyltransferase, myeloid-specific) |
| GO | Golgi cisterna membrane | 6 | 63 | 0.2598704 | 2589 | UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosami |
| GO | Golgi cisterna membrane | 6 | 63 | 0.2598704 | 2801 | golgin A2 |
| GO | Golgi cisterna membrane | 6 | 63 | 0.2598704 | 64083 | golgi phosphoprotein 3 (coat-protein) |
| GO | Golgi cisterna membrane | 6 | 63 | 0.2598704 | 6484 | ST3 beta-galactoside alpha-2,3-sialyltransferase 4 |
| GO | positive regulation of gene expressio | 4 | 38 | 0.2600294 | 1435 | colony stimulating factor 1 (macrophage) |
| GO | positive regulation of gene expressio | 4 | 38 | 0.2600294 | 2033 | E1A binding protein p300 |
| GO | positive regulation of gene expressio | 4 | 38 | 0.2600294 | 3815 | v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog |
| GO | positive regulation of gene expressio | 4 | 38 | 0.2600294 | 652 | bone morphogenetic protein 4 |
| GO | collagen fibril organization | 3 | 26 | 0.2609152 | 2296 | forkhead box C1 |
| GO | collagen fibril organization | 3 | 26 | 0.2609152 | 2303 | forkhead box C2 (MFH-1, mesenchyme forkhead 1) |
| GO | collagen fibril organization | 3 | 26 | 0.2609152 | 4015 | lysyl oxidase |
| GO | GDP binding | 3 | 26 | 0.2609152 | 3845 | v-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog |
| GO | GDP binding | 3 | 26 | 0.2609152 | 57799 | RAB40C, member RAS oncogene family |
| GO | GDP binding | 3 | 26 | 0.2609152 | 85004 | RAS-like, estrogen-regulated, growth inhibitor |
| GO | NAD+ ADP-ribosyltransferase activity | 3 | 26 | 0.2609152 | 79668 | poly (ADP-ribose) polymerase family, member 8 |
| GO | NAD+ ADP-ribosyltransferase activity | 3 | 26 | 0.2609152 | 83666 | poly (ADP-ribose) polymerase family, member 9 |
| GO | NAD+ ADP-ribosyltransferase activity | 3 | 26 | 0.2609152 | 84875 | poly (ADP-ribose) polymerase family, member 10 |
| GO | hemopoiesis | 5 | 51 | 0.2681363 | 1435 | colony stimulating factor 1 (macrophage) |
| GO | hemopoiesis | 5 | 51 | 0.2681363 | 3428 | interferon, gamma-inducible protein 16 |
| GO | hemopoiesis | 5 | 51 | 0.2681363 | 3815 | v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog |
| GO | hemopoiesis | 5 | 51 | 0.2681363 | 4254 | KIT ligand |
| GO | hemopoiesis | 5 | 51 | 0.2681363 | 4853 | Notch homolog 2 (Drosophila) |
| GO | copper ion binding | 5 | 51 | 0.2681363 | 2153 | coagulation factor V (proaccelerin, labile factor) |
| GO | copper ion binding | 5 | 51 | 0.2681363 | 4015 | lysyl oxidase |

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|---|---|---|---|---|---|---|
| GO | copper ion binding | 5 | 51 | 0.2681363 | 5025 | purinergic receptor P2X, ligand-gated ion channel, 4 |
| GO | copper ion binding | 5 | 51 | 0.2681363 | 5066 | peptidylglycine alpha-amidating monooxygenase |
| GO | copper ion binding | 5 | 51 | 0.2681363 | 84171 | lysyl oxidase-like 4 |
| GO | forebrain development | 5 | 51 | 0.2681363 | 2290 | forkhead box G1 |
| GO | forebrain development | 5 | 51 | 0.2681363 | 4851 | Notch homolog 1, translocation-associated (Drosophila) |
| GO | forebrain development | 5 | 51 | 0.2681363 | 7026 | nuclear receptor subfamily 2, group F, member 2 |
| GO | forebrain development | 5 | 51 | 0.2681363 | 85416 | Zic family member 5 (odd-paired homolog, Drosophila) |
| GO | forebrain development | 5 | 51 | 0.2681363 | 8646 | chordin |
| GO | protein complex binding | 8 | 90 | 0.2724198 | 1373 | carbamoyl-phosphate synthetase 1, mitochondrial |
| GO | protein complex binding | 8 | 90 | 0.2724198 | 1508 | cathepsin B |
| GO | protein complex binding | 8 | 90 | 0.2724198 | 154 | adrenergic, beta-2-, receptor, surface |
| GO | protein complex binding | 8 | 90 | 0.2724198 | 2033 | E1A binding protein p300 |
| GO | protein complex binding | 8 | 90 | 0.2724198 | 3643 | insulin receptor |
| GO | protein complex binding | 8 | 90 | 0.2724198 | 3914 | laminin, beta 3 |
| GO | protein complex binding | 8 | 90 | 0.2724198 | 4792 | nuclear factor of kappa light polypeptide gene enhancer in B-cells inhib |
| GO | protein complex binding | 8 | 90 | 0.2724198 | 5122 | proprotein convertase subtilisin/kexin type 1 |
| GO | response to nicotine | 2 | 15 | 0.273697 | 1139 | cholinergic receptor, nicotinic, alpha 7 |
| GO | response to nicotine | 2 | 15 | 0.273697 | 3775 | potassium channel, subfamily K, member 1 |
| GO | voltage-gated chloride channel activi | 2 | 15 | 0.273697 | 1193 | chloride intracellular channel 2 |
| GO | voltage-gated chloride channel activi | 2 | 15 | 0.273697 | 53405 | chloride intracellular channel 5 |
| GO | actin filament bundle assembly | 2 | 15 | 0.273697 | 134549 | shroom family member 1 |
| GO | actin filament bundle assembly | 2 | 15 | 0.273697 | 2039 | erythrocyte membrane protein band 4.9 (dematin) |
| GO | embryonic forelimb morphogenesis | 2 | 15 | 0.273697 | 1382 | cellular retinoic acid binding protein 2 |
| GO | embryonic forelimb morphogenesis | 2 | 15 | 0.273697 | 157506 | retinol dehydrogenase 10 (all-trans) |
| GO | phospholipid-translocating ATPase ac | 2 | 15 | 0.273697 | 148229 | ATPase, class I, type 8B, member 3 |
| GO | phospholipid-translocating ATPase ac | 2 | 15 | 0.273697 | 79895 | ATPase, class I, type 8B, member 4 |
| GO | positive regulation of catalytic activit | 2 | 15 | 0.273697 | 183 | angiotensinogen (serpin peptidase inhibitor, clade A, member 8) |
| GO | positive regulation of catalytic activit | 2 | 15 | 0.273697 | 4929 | nuclear receptor subfamily 4, group A, member 2 |
| GO | digestive tract development | 2 | 15 | 0.273697 | 2033 | E1A binding protein p300 |
| GO | digestive tract development | 2 | 15 | 0.273697 | 9971 | nuclear receptor subfamily 1, group H, member 4 |
| GO | cellular component organization | 2 | 15 | 0.273697 | 23500 | dishevelled associated activator of morphogenesis 2 |
| GO | cellular component organization | 2 | 15 | 0.273697 | 85462 | FH2 domain containing 1 |
| GO | cellular response to extracellular stim | 2 | 15 | 0.273697 | 2353 | FBJ murine osteosarcoma viral oncogene homolog |
| GO | cellular response to extracellular stim | 2 | 15 | 0.273697 | 4929 | nuclear receptor subfamily 4, group A, member 2 |
| GO | myeloid cell differentiation | 2 | 15 | 0.273697 | 3428 | interferon, gamma-inducible protein 16 |
| GO | myeloid cell differentiation | 2 | 15 | 0.273697 | 5371 | promyelocytic leukemia |

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|---|---|---|---|---|---|---|
| GO | neuromuscular junction developmen | 2 | 15 | 0.273697 | 375790 | agrin |
| GO | neuromuscular junction developmen | 2 | 15 | 0.273697 | 783 | calcium channel, voltage-dependent, beta 2 subunit |
| GO | hair follicle development | 2 | 15 | 0.273697 | 3911 | laminin, alpha 5 |
| GO | hair follicle development | 2 | 15 | 0.273697 | 91 | activin A receptor, type IB |
| GO | chondrocyte differentiation | 2 | 15 | 0.273697 | 4209 | myocyte enhancer factor 2D |
| GO | chondrocyte differentiation | 2 | 15 | 0.273697 | 7474 | wingless-type MMTV integration site family, member 5A |
| GO | ATPase binding | 2 | 15 | 0.273697 | 50617 | ATPase, H+ transporting, lysosomal V0 subunit a4 |
| GO | ATPase binding | 2 | 15 | 0.273697 | 5774 | protein tyrosine phosphatase, non-receptor type 3 |
| GO | oxidoreductase activity, acting on pai | 2 | 15 | 0.273697 | 5351 | procollagen-lysine 1, 2-oxoglutarate 5-dioxygenase 1 |
| GO | oxidoreductase activity, acting on pai | 2 | 15 | 0.273697 | 54681 | prolyl 4-hydroxylase, transmembrane (endoplasmic reticulum) |
| GO | regulation of protein amino acid pho: | 2 | 15 | 0.273697 | 5577 | protein kinase, cAMP-dependent, regulatory, type II, beta |
| GO | regulation of protein amino acid pho: | 2 | 15 | 0.273697 | 9021 | suppressor of cytokine signaling 3 |
| GO | regulation of immune response | 2 | 15 | 0.273697 | 604 | B-cell CLL/lymphoma 6 |
| GO | regulation of immune response | 2 | 15 | 0.273697 | 6850 | spleen tyrosine kinase |
| GO | positive regulation of cytokine secret | 2 | 15 | 0.273697 | 834 | caspase 1, apoptosis-related cysteine peptidase (interleukin 1, beta, co |
| GO | positive regulation of cytokine secret | 2 | 15 | 0.273697 | 9966 | tumor necrosis factor (ligand) superfamily, member 15 |
| GO | epithelial cell differentiation | 4 | 39 | 0.275491 | 10170 | dehydrogenase/reductase (SDR family) member 9 |
| GO | epithelial cell differentiation | 4 | 39 | 0.275491 | 1755 | deleted in malignant brain tumors 1 |
| GO | epithelial cell differentiation | 4 | 39 | 0.275491 | 1999 | E74-like factor 3 (ets domain transcription factor, epithelial-specific ) |
| GO | epithelial cell differentiation | 4 | 39 | 0.275491 | 3169 | forkhead box A1 |
| GO | ER-Golgi intermediate compartment | 4 | 39 | 0.275491 | 2055 | ceroid-lipofuscinosis, neuronal 8 (epilepsy, progressive with mental ret |
| GO | ER-Golgi intermediate compartment | 4 | 39 | 0.275491 | 2706 | gap junction protein, beta 2, 26kDa |
| GO | ER-Golgi intermediate compartment | 4 | 39 | 0.275491 | 285704 | RGM domain family, member B |
| GO | ER-Golgi intermediate compartment | 4 | 39 | 0.275491 | 4121 | mannosidase, alpha, class 1A, member 1 |
| GO | cytoskeletal protein binding | 4 | 39 | 0.275491 | 257019 | FERM domain containing 3 |
| GO | cytoskeletal protein binding | 4 | 39 | 0.275491 | 27295 | PDZ and LIM domain 3 |
| GO | cytoskeletal protein binding | 4 | 39 | 0.275491 | 29116 | myosin regulatory light chain interacting protein |
| GO | cytoskeletal protein binding | 4 | 39 | 0.275491 | 5774 | protein tyrosine phosphatase, non-receptor type 3 |
| GO | interspecies interaction between org | 22 | 280 | 0.278823 | 10346 | tripartite motif-containing 22 |
| GO | interspecies interaction between org | 22 | 280 | 0.278823 | 1755 | deleted in malignant brain tumors 1 |
| GO | interspecies interaction between org | 22 | 280 | 0.278823 | 1948 | ephrin-B2 |
| GO | interspecies interaction between org | 22 | 280 | 0.278823 | 2033 | E1A binding protein p300 |
| GO | interspecies interaction between org | 22 | 280 | 0.278823 | 23373 | CREB regulated transcription coactivator 1 |
| GO | interspecies interaction between org | 22 | 280 | 0.278823 | 3561 | interleukin 2 receptor, gamma (severe combined immunodeficiency) |
| GO | interspecies interaction between org | 22 | 280 | 0.278823 | 3665 | interferon regulatory factor 7 |
| GO | interspecies interaction between org | 22 | 280 | 0.278823 | 3678 | integrin, alpha 5 (fibronectin receptor, alpha polypeptide) |

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|---|---|---|---|---|---|---|
| GO | interspecies interaction between org | 22 | 280 | 0.278823 | 3949 | low density lipoprotein receptor |
| GO | interspecies interaction between org | 22 | 280 | 0.278823 | 4179 | CD46 molecule, complement regulatory protein |
| GO | interspecies interaction between org | 22 | 280 | 0.278823 | 4792 | nuclear factor of kappa light polypeptide gene enhancer in B-cells inhib |
| GO | interspecies interaction between org | 22 | 280 | 0.278823 | 5295 | phosphoinositide-3-kinase, regulatory subunit 1 (alpha) |
| GO | interspecies interaction between org | 22 | 280 | 0.278823 | 5371 | promyelocytic leukemia |
| GO | interspecies interaction between org | 22 | 280 | 0.278823 | 5696 | proteasome (prosome, macropain) subunit, beta type, 8 (large multifu |
| GO | interspecies interaction between org | 22 | 280 | 0.278823 | 5698 | proteasome (prosome, macropain) subunit, beta type, 9 (large multifu |
| GO | interspecies interaction between org | 22 | 280 | 0.278823 | 5699 | proteasome (prosome, macropain) subunit, beta type, 10 |
| GO | interspecies interaction between org | 22 | 280 | 0.278823 | 6256 | retinoid X receptor, alpha |
| GO | interspecies interaction between org | 22 | 280 | 0.278823 | 64135 | interferon induced with helicase C domain 1 |
| GO | interspecies interaction between org | 22 | 280 | 0.278823 | 6850 | spleen tyrosine kinase |
| GO | interspecies interaction between org | 22 | 280 | 0.278823 | 6921 | transcription elongation factor B (SIII), polypeptide 1 (15kDa, elongin C |
| GO | interspecies interaction between org | 22 | 280 | 0.278823 | 7706 | tripartite motif-containing 25 |
| GO | interspecies interaction between org | 22 | 280 | 0.278823 | 7852 | chemokine (C-X-C motif) receptor 4 |
| GO | ATP synthesis coupled proton transp | 3 | 27 | 0.2798997 | 10312 | T-cell, immune regulator 1, ATPase, H+ transporting, lysosomal V0 sub |
| GO | ATP synthesis coupled proton transp | 3 | 27 | 0.2798997 | 50617 | ATPase, H+ transporting, lysosomal V0 subunit a4 |
| GO | ATP synthesis coupled proton transp | 3 | 27 | 0.2798997 | 8992 | ATPase, H+ transporting, lysosomal 9kDa, V0 subunit e1 |
| GO | enzyme inhibitor activity | 3 | 27 | 0.2798997 | 10628 | thioredoxin interacting protein |
| GO | enzyme inhibitor activity | 3 | 27 | 0.2798997 | 50859 | sparc/osteonectin, cwcv and kazal-like domains proteoglycan (testican |
| GO | enzyme inhibitor activity | 3 | 27 | 0.2798997 | 7076 | TIMP metallopeptidase inhibitor 1 |
| GO | negative regulation of neuron differe | 3 | 27 | 0.2798997 | 2290 | forkhead box G1 |
| GO | negative regulation of neuron differe | 3 | 27 | 0.2798997 | 3400 | inhibitor of DNA binding 4, dominant negative helix-loop-helix protein |
| GO | negative regulation of neuron differe | 3 | 27 | 0.2798997 | 429 | achaete-scute complex homolog 1 (Drosophila) |
| GO | cell-cell adherens junction | 3 | 27 | 0.2798997 | 4008 | LIM domain 7 |
| GO | cell-cell adherens junction | 3 | 27 | 0.2798997 | 5239 | phosphoglucomutase 5 |
| GO | cell-cell adherens junction | 3 | 27 | 0.2798997 | 56288 | par-3 partitioning defective 3 homolog (C. elegans) |
| GO | negative regulation of cell growth | 8 | 91 | 0.2824202 | 183 | angiotensinogen (serpin peptidase inhibitor, clade A, member 8) |
| GO | negative regulation of cell growth | 8 | 91 | 0.2824202 | 5371 | promyelocytic leukemia |
| GO | negative regulation of cell growth | 8 | 91 | 0.2824202 | 604 | B-cell CLL/lymphoma 6 |
| GO | negative regulation of cell growth | 8 | 91 | 0.2824202 | 6494 | signal-induced proliferation-associated 1 |
| GO | negative regulation of cell growth | 8 | 91 | 0.2824202 | 85004 | RAS-like, estrogen-regulated, growth inhibitor |
| GO | negative regulation of cell growth | 8 | 91 | 0.2824202 | 91 | activin A receptor, type IB |
| GO | negative regulation of cell growth | 8 | 91 | 0.2824202 | 92304 | secretoglobin, family 3A, member 1 |
| GO | negative regulation of cell growth | 8 | 91 | 0.2824202 | 94 | activin A receptor type II-like 1 |
| GO | ubiquitin-protein ligase activity | 12 | 145 | 0.2881057 | 10116 | fem-1 homolog b (C. elegans) |
| GO | ubiquitin-protein ligase activity | 12 | 145 | 0.2881057 | 134111 | ubiquitin-conjugating enzyme E2Q family-like 1 |

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|---|---|---|---|---|---|---|
| GO | ubiquitin-protein ligase activity | 12 | 145 | 0.2881057 | 151636 | deltex 3-like (Drosophila) |
| GO | ubiquitin-protein ligase activity | 12 | 145 | 0.2881057 | 154214 | ring finger protein 217 |
| GO | ubiquitin-protein ligase activity | 12 | 145 | 0.2881057 | 255488 | ring finger protein 144B |
| GO | ubiquitin-protein ligase activity | 12 | 145 | 0.2881057 | 26232 | F-box protein 2 |
| GO | ubiquitin-protein ligase activity | 12 | 145 | 0.2881057 | 26270 | F-box protein 6 |
| GO | ubiquitin-protein ligase activity | 12 | 145 | 0.2881057 | 29116 | myosin regulatory light chain interacting protein |
| GO | ubiquitin-protein ligase activity | 12 | 145 | 0.2881057 | 4008 | LIM domain 7 |
| GO | ubiquitin-protein ligase activity | 12 | 145 | 0.2881057 | 5071 | Parkinson disease (autosomal recessive, juvenile) 2, parkin |
| GO | ubiquitin-protein ligase activity | 12 | 145 | 0.2881057 | 7706 | tripartite motif-containing 25 |
| GO | ubiquitin-protein ligase activity | 12 | 145 | 0.2881057 | 79872 | Cas-Br-M (murine) ecotropic retroviral transforming sequence-like 1 |
| GO | dendritic spine | 4 | 40 | 0.2910974 | 2911 | glutamate receptor, metabotropic 1 |
| GO | dendritic spine | 4 | 40 | 0.2910974 | 4645 | myosin VB |
| GO | dendritic spine | 4 | 40 | 0.2910974 | 4842 | nitric oxide synthase 1 (neuronal) |
| GO | dendritic spine | 4 | 40 | 0.2910974 | 5025 | purinergic receptor P2X, ligand-gated ion channel, 4 |
| GO | hormone activity | 7 | 79 | 0.2945924 | 1114 | chromogranin B (secretogranin 1) |
| GO | hormone activity | 7 | 79 | 0.2945924 | 183 | angiotensinogen (serpin peptidase inhibitor, clade A, member 8) |
| GO | hormone activity | 7 | 79 | 0.2945924 | 1906 | endothelin 1 |
| GO | hormone activity | 7 | 79 | 0.2945924 | 3479 | insulin-like growth factor 1 (somatomedin C) |
| GO | hormone activity | 7 | 79 | 0.2945924 | 6343 | secretin |
| GO | hormone activity | 7 | 79 | 0.2945924 | 6750 | somatostatin |
| GO | hormone activity | 7 | 79 | 0.2945924 | 885 | cholecystokinin |
| GO | response to wounding | 5 | 53 | 0.2950409 | 10481 | homeobox B13 |
| GO | response to wounding | 5 | 53 | 0.2950409 | 11202 | kallikrein-related peptidase 8 |
| GO | response to wounding | 5 | 53 | 0.2950409 | 1462 | versican |
| GO | response to wounding | 5 | 53 | 0.2950409 | 1508 | cathepsin B |
| GO | response to wounding | 5 | 53 | 0.2950409 | 5460 | POU class 5 homeobox 1 |
| GO | ATP biosynthetic process | 5 | 53 | 0.2950409 | 148229 | ATPase, class I, type 8B, member 3 |
| GO | ATP biosynthetic process | 5 | 53 | 0.2950409 | 493 | ATPase, Ca++ transporting, plasma membrane 4 |
| GO | ATP biosynthetic process | 5 | 53 | 0.2950409 | 498 | ATP synthase, H+ transporting, mitochondrial F1 complex, alpha subun |
| GO | ATP biosynthetic process | 5 | 53 | 0.2950409 | 79895 | ATPase, class I, type 8B, member 4 |
| GO | ATP biosynthetic process | 5 | 53 | 0.2950409 | 9914 | ATPase, Ca++ transporting, type 2C, member 2 |
| GO | negative regulation of myotube differ | 1 | 5 | 0.2981385 | 10014 | histone deacetylase 5 |
| GO | mitogen-activated protein kinase kin | 1 | 5 | 0.2981385 | 10221 | tribbles homolog 1 (Drosophila) |
| GO | mRNA modification | 1 | 5 | 0.2981385 | 104 | adenosine deaminase, RNA-specific, B1 (RED1 homolog rat) |
| GO | opioid peptide activity | 1 | 5 | 0.2981385 | 10435 | CDC42 effector protein (Rho GTPase binding) 2 |
| GO | positive regulation of protein comple | 1 | 5 | 0.2981385 | 10435 | CDC42 effector protein (Rho GTPase binding) 2 |

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|---|---|---|---|---|---|---|
| GO | sodium ion binding | 1 | 5 | 0.2981385 | 10568 | solute carrier family 34 (sodium phosphate), member 2 |
| GO | sodium-dependent phosphate transn | 1 | 5 | 0.2981385 | 10568 | solute carrier family 34 (sodium phosphate), member 2 |
| GO | transepithelial chloride transport | 1 | 5 | 0.2981385 | 1080 | cystic fibrosis transmembrane conductance regulator (ATP-binding cas: |
| GO | respiratory electron transport chain | 1 | 5 | 0.2981385 | 10891 | peroxisome proliferator-activated receptor gamma, coactivator 1 alpha |
| GO | barbed-end actin filament capping | 1 | 5 | 0.2981385 | 11078 | TRIO and F-actin binding protein |
| GO | calcium- and calmodulin-responsive a | 1 | 5 | 0.2981385 | 112 | adenylate cyclase 6 |
| GO | interleukin-1-mediated signaling path | 1 | 5 | 0.2981385 | 11213 | interleukin-1 receptor-associated kinase 3 |
| GO | negative regulation of cytokine-medi | 1 | 5 | 0.2981385 | 11213 | interleukin-1 receptor-associated kinase 3 |
| GO | folic acid transporter activity | 1 | 5 | 0.2981385 | 113235 | solute carrier family 46 (folate transporter), member 1 |
| GO | toxin binding | 1 | 5 | 0.2981385 | 1139 | cholinergic receptor, nicotinic, alpha 7 |
| GO | regulation of neuron apoptosis | 1 | 5 | 0.2981385 | 121665 | signal peptide peptidase 3 |
| GO | ethanol oxidation | 1 | 5 | 0.2981385 | 125 | alcohol dehydrogenase 1B (class I), beta polypeptide |
| GO | sphingosine-1-phosphate phosphatas | 1 | 5 | 0.2981385 | 130367 | sphingosine-1-phosphate phosphotase 2 |
| GO | monocyte activation | 1 | 5 | 0.2981385 | 1435 | colony stimulating factor 1 (macrophage) |
| GO | positive regulation of macrophage di | 1 | 5 | 0.2981385 | 1435 | colony stimulating factor 1 (macrophage) |
| GO | positive regulation of heart contracti | 1 | 5 | 0.2981385 | 154 | adrenergic, beta-2-, receptor, surface |
| GO | positive regulation of potassium ion t | 1 | 5 | 0.2981385 | 154 | adrenergic, beta-2-, receptor, surface |
| GO | oxidoreductase activity, acting on pai | 1 | 5 | 0.2981385 | 1571 | cytochrome P450, family 2, subfamily E, polypeptide 1 |
| GO | embryonic camera-type eye develop | 1 | 5 | 0.2981385 | 157506 | retinol dehydrogenase 10 (all-trans) |
| GO | activation of phospholipase C activity | 1 | 5 | 0.2981385 | 1813 | dopamine receptor D2 |
| GO | circadian regulation of gene expressi | 1 | 5 | 0.2981385 | 1813 | dopamine receptor D2 |
| GO | G-protein signaling, coupled to cGMF | 1 | 5 | 0.2981385 | 183 | angiotensinogen (serpin peptidase inhibitor, clade A, member 8) |
| GO | type 1 angiotensin receptor binding | 1 | 5 | 0.2981385 | 183 | angiotensinogen (serpin peptidase inhibitor, clade A, member 8) |
| GO | artery smooth muscle contraction | 1 | 5 | 0.2981385 | 1906 | endothelin 1 |
| GO | leukocyte activation | 1 | 5 | 0.2981385 | 1906 | endothelin 1 |
| GO | regulation of systemic arterial blood | 1 | 5 | 0.2981385 | 1906 | endothelin 1 |
| GO | mammary gland involution | 1 | 5 | 0.2981385 | 1999 | E74-like factor 3 (ets domain transcription factor, epithelial-specific ) |
| GO | transmembrane-ephrin receptor acti | 1 | 5 | 0.2981385 | 2044 | EPH receptor A5 |
| GO | musculoskeletal movement | 1 | 5 | 0.2981385 | 2055 | ceroid-lipofuscinosis, neuronal 8 (epilepsy, progressive with mental ret |
| GO | fibroblast growth factor receptor acti | 1 | 5 | 0.2981385 | 2263 | fibroblast growth factor receptor 2 |
| GO | axon midline choice point recognitior | 1 | 5 | 0.2981385 | 2290 | forkhead box G1 |
| GO | cell morphogenesis involved in neurc | 1 | 5 | 0.2981385 | 2290 | forkhead box G1 |
| GO | glycosaminoglycan metabolic process | 1 | 5 | 0.2981385 | 2296 | forkhead box C1 |
| GO | mesenchymal cell differentiation | 1 | 5 | 0.2981385 | 2296 | forkhead box C1 |
| GO | lymphangiogenesis | 1 | 5 | 0.2981385 | 2303 | forkhead box C2 (MFH-1, mesenchyme forkhead 1) |
| GO | activation of JNKK activity | 1 | 5 | 0.2981385 | 23043 | TRAF2 and NCK interacting kinase |

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|---|---|---|---|---|---|---|
| GO | anterograde axon cargo transport | 1 | 5 | 0.2981385 | 23095 | kinesin family member 1B |
| GO | response to gravity | 1 | 5 | 0.2981385 | 2353 | FBJ murine osteosarcoma viral oncogene homolog |
| GO | lysosomal transport | 1 | 5 | 0.2981385 | 255738 | proprotein convertase subtilisin/kexin type 9 |
| GO | regulation of receptor activity | 1 | 5 | 0.2981385 | 255738 | proprotein convertase subtilisin/kexin type 9 |
| GO | positive regulation of transferase acti | 1 | 5 | 0.2981385 | 256987 | serine incorporator 5 |
| GO | ER to Golgi transport vesicle membra | 1 | 5 | 0.2981385 | 25956 | SEC31 homolog B (S. cerevisiae) |
| GO | AP-1 adaptor complex | 1 | 5 | 0.2981385 | 26119 | low density lipoprotein receptor adaptor protein 1 |
| GO | SCF-dependent proteasomal ubiquiti | 1 | 5 | 0.2981385 | 26270 | F-box protein 6 |
| GO | vitamin D binding | 1 | 5 | 0.2981385 | 2638 | group-specific component (vitamin D binding protein) |
| GO | purine base metabolic process | 1 | 5 | 0.2981385 | 271 | adenosine monophosphate deaminase 2 |
| GO | positive regulation of protein import | 1 | 5 | 0.2981385 | 2737 | GLI family zinc finger 3 |
| GO | spinal cord dorsal/ventral patterning | 1 | 5 | 0.2981385 | 2737 | GLI family zinc finger 3 |
| GO | virion binding | 1 | 5 | 0.2981385 | 28996 | homeodomain interacting protein kinase 2 |
| GO | virus-host interaction | 1 | 5 | 0.2981385 | 28996 | homeodomain interacting protein kinase 2 |
| GO | peptidyl-citrulline biosynthetic proce | 1 | 5 | 0.2981385 | 29943 | peptidyl arginine deiminase, type I |
| GO | protein-arginine deiminase activity | 1 | 5 | 0.2981385 | 29943 | peptidyl arginine deiminase, type I |
| GO | azurophil granule | 1 | 5 | 0.2981385 | 311 | annexin A11 |
| GO | S100 alpha binding | 1 | 5 | 0.2981385 | 311 | annexin A11 |
| GO | cell killing | 1 | 5 | 0.2981385 | 3192 | heterogeneous nuclear ribonucleoprotein U (scaffold attachment facto |
| GO | CRD-mediated mRNA stability comple | 1 | 5 | 0.2981385 | 3192 | heterogeneous nuclear ribonucleoprotein U (scaffold attachment facto |
| GO | CRD-mediated mRNA stabilization | 1 | 5 | 0.2981385 | 3192 | heterogeneous nuclear ribonucleoprotein U (scaffold attachment facto |
| GO | negative regulation of astrocyte diffe | 1 | 5 | 0.2981385 | 3400 | inhibitor of DNA binding 4, dominant negative helix-loop-helix protein |
| GO | monocyte differentiation | 1 | 5 | 0.2981385 | 3428 | interferon, gamma-inducible protein 16 |
| GO | motile secondary cilium | 1 | 5 | 0.2981385 | 345895 | radial spoke head 4 homolog A (Chlamydomonas) |
| GO | negative regulation of insulin-like gro | 1 | 5 | 0.2981385 | 3488 | insulin-like growth factor binding protein 5 |
| GO | chorio-allantoic fusion | 1 | 5 | 0.2981385 | 3491 | cysteine-rich, angiogenic inducer, 61 |
| GO | ciliary neurotrophic factor-mediated | 1 | 5 | 0.2981385 | 3570 | interleukin 6 receptor |
| GO | negative regulation of interleukin-8 p | 1 | 5 | 0.2981385 | 3570 | interleukin 6 receptor |
| GO | negative regulation of protein amino | 1 | 5 | 0.2981385 | 3725 | jun oncogene |
| GO | glycosphingolipid metabolic process | 1 | 5 | 0.2981385 | 3815 | v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog |
| GO | regulation of developmental pigment | 1 | 5 | 0.2981385 | 3815 | v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog |
| GO | lipoprotein catabolic process | 1 | 5 | 0.2981385 | 3949 | low density lipoprotein receptor |
| GO | low-density lipoprotein particle clear | 1 | 5 | 0.2981385 | 3949 | low density lipoprotein receptor |
| GO | positive regulation of GTPase activity | 1 | 5 | 0.2981385 | 395 | Rho GTPase activating protein 6 |
| GO | pericardium development | 1 | 5 | 0.2981385 | 4087 | SMAD family member 2 |
| GO | primary microRNA processing | 1 | 5 | 0.2981385 | 4087 | SMAD family member 2 |

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|---|---|---|---|---|---|---|
| GO | regulation of binding | 1 | 5 | 0.2981385 | 4087 | SMAD family member 2 |
| GO | transforming growth factor beta rece | 1 | 5 | 0.2981385 | 4087 | SMAD family member 2 |
| GO | steroid catabolic process | 1 | 5 | 0.2981385 | 412 | steroid sulfatase (microsomal), isozyme S |
| GO | sulfuric ester hydrolase activity | 1 | 5 | 0.2981385 | 412 | steroid sulfatase (microsomal), isozyme S |
| GO | regulation of osteoclast differentiatic | 1 | 5 | 0.2981385 | 4286 | microphthalmia-associated transcription factor |
| GO | E-box binding | 1 | 5 | 0.2981385 | 429 | achaete-scute complex homolog 1 (Drosophila) |
| GO | spinal cord association neuron differe | 1 | 5 | 0.2981385 | 429 | achaete-scute complex homolog 1 (Drosophila) |
| GO | nerve growth factor receptor signalin | 1 | 5 | 0.2981385 | 4692 | necdin homolog (mouse) |
| GO | germinal center formation | 1 | 5 | 0.2981385 | 4791 | nuclear factor of kappa light polypeptide gene enhancer in B-cells 2 (p |
| GO | negative regulation of Notch signalin | 1 | 5 | 0.2981385 | 4792 | nuclear factor of kappa light polypeptide gene enhancer in B-cells inhib |
| GO | sprouting angiogenesis | 1 | 5 | 0.2981385 | 4851 | Notch homolog 1, translocation-associated (Drosophila) |
| GO | reduction of cytosolic calcium ion cor | 1 | 5 | 0.2981385 | 4886 | neuropeptide Y receptor Y1 |
| GO | negative regulation of cardiac muscle | 1 | 5 | 0.2981385 | 5025 | purinergic receptor P2X, ligand-gated ion channel, 4 |
| GO | positive regulation of prostaglandin s | 1 | 5 | 0.2981385 | 5025 | purinergic receptor P2X, ligand-gated ion channel, 4 |
| GO | nerve growth factor binding | 1 | 5 | 0.2981385 | 5046 | proprotein convertase subtilisin/kexin type 6 |
| GO | peptide metabolic process | 1 | 5 | 0.2981385 | 5066 | peptidylglycine alpha-amidating monooxygenase |
| GO | negative regulation of cell cycle arres | 1 | 5 | 0.2981385 | 51085 | MLX interacting protein-like |
| GO | glycolipid binding | 1 | 5 | 0.2981385 | 51228 | glycolipid transfer protein |
| GO | glycolipid transporter activity | 1 | 5 | 0.2981385 | 51228 | glycolipid transfer protein |
| GO | positive regulation of triglyceride bio | 1 | 5 | 0.2981385 | 51703 | acyl-CoA synthetase long-chain family member 5 |
| GO | positive regulation of establishment | 1 | 5 | 0.2981385 | 5295 | phosphoinositide-3-kinase, regulatory subunit 1 (alpha) |
| GO | regulation of cytokine production | 1 | 5 | 0.2981385 | 53347 | ubiquitin associated and SH3 domain containing, A |
| GO | positive regulation of defense respon | 1 | 5 | 0.2981385 | 5371 | promyelocytic leukemia |
| GO | microvillus assembly | 1 | 5 | 0.2981385 | 53827 | FXYD domain containing ion transport regulator 5 |
| GO | positive regulation of smoothened si | 1 | 5 | 0.2981385 | 5396 | paired related homeobox 1 |
| GO | oocyte development | 1 | 5 | 0.2981385 | 54361 | wingless-type MMTV integration site family, member 4 |
| GO | serine-type carboxypeptidase activity | 1 | 5 | 0.2981385 | 54504 | carboxypeptidase, vitellogenic-like |
| GO | DNA-directed RNA polymerase II, hol | 1 | 5 | 0.2981385 | 55140 | elongation protein 3 homolog (S. cerevisiae) |
| GO | cellular amino acid and derivative me | 1 | 5 | 0.2981385 | 55432 | YOD1 OTU deubiquinating enzyme 1 homolog (S. cerevisiae) |
| GO | regulation of T cell activation | 1 | 5 | 0.2981385 | 55824 | phosphoprotein associated with glycosphingolipid microdomains 1 |
| GO | sodium-independent organic anion tr | 1 | 5 | 0.2981385 | 55867 | solute carrier family 22 (organic anion/urate transporter), member 11 |
| GO | regulation of bone mineralization | 1 | 5 | 0.2981385 | 56172 | ankylosis, progressive homolog (mouse) |
| GO | positive regulation of triglyceride cat | 1 | 5 | 0.2981385 | 57104 | patatin-like phospholipase domain containing 2 |
| GO | melanosome localization | 1 | 5 | 0.2981385 | 5873 | RAB27A, member RAS oncogene family |
| GO | ammonium transmembrane transpor | 1 | 5 | 0.2981385 | 6006 | Rh blood group, CcEe antigens |
| GO | negative regulation of Rho protein si | 1 | 5 | 0.2981385 | 604 | B-cell CLL/lymphoma 6 |

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|---|---|---|---|---|---|---|
| GO | glutamate secretion | 1 | 5 | 0.2981385 | 627 | brain-derived neurotrophic factor |
| GO | negative regulation of neuroblast prc | 1 | 5 | 0.2981385 | 627 | brain-derived neurotrophic factor |
| GO | neuron recognition | 1 | 5 | 0.2981385 | 627 | brain-derived neurotrophic factor |
| GO | detection of chemical stimulus involv | 1 | 5 | 0.2981385 | 64108 | receptor (chemosensory) transporter protein 4 |
| GO | thioredoxin-disulfide reductase activi | 1 | 5 | 0.2981385 | 64359 | nucleoredoxin |
| GO | BMP receptor binding | 1 | 5 | 0.2981385 | 652 | bone morphogenetic protein 4 |
| GO | mesenchymal to epithelial transition | 1 | 5 | 0.2981385 | 652 | bone morphogenetic protein 4 |
| GO | negative regulation of chondrocyte d | 1 | 5 | 0.2981385 | 652 | bone morphogenetic protein 4 |
| GO | negative regulation of oligodendrocy | 1 | 5 | 0.2981385 | 652 | bone morphogenetic protein 4 |
| GO | positive regulation of branching invol | 1 | 5 | 0.2981385 | 652 | bone morphogenetic protein 4 |
| GO | regulation of smooth muscle cell diffe | 1 | 5 | 0.2981385 | 652 | bone morphogenetic protein 4 |
| GO | tongue morphogenesis | 1 | 5 | 0.2981385 | 652 | bone morphogenetic protein 4 |
| GO | anion exchanger activity | 1 | 5 | 0.2981385 | 6521 | solute carrier family 4, anion exchanger, member 1 (erythrocyte memb |
| GO | cellular ion homeostasis | 1 | 5 | 0.2981385 | 6521 | solute carrier family 4, anion exchanger, member 1 (erythrocyte memb |
| GO | oligopeptide transport | 1 | 5 | 0.2981385 | 6564 | solute carrier family 15 (oligopeptide transporter), member 1 |
| GO | drug transport | 1 | 5 | 0.2981385 | 6565 | solute carrier family 15 (H+/peptide transporter), member 2 |
| GO | long-term synaptic potentiation | 1 | 5 | 0.2981385 | 6622 | synuclein, alpha (non A4 component of amyloid precursor) |
| GO | positive regulation of receptor recycl | 1 | 5 | 0.2981385 | 6622 | synuclein, alpha (non A4 component of amyloid precursor) |
| GO | regulation of locomotion | 1 | 5 | 0.2981385 | 6622 | synuclein, alpha (non A4 component of amyloid precursor) |
| GO | regulation of macrophage activation | 1 | 5 | 0.2981385 | 6622 | synuclein, alpha (non A4 component of amyloid precursor) |
| GO | tau protein binding | 1 | 5 | 0.2981385 | 6622 | synuclein, alpha (non A4 component of amyloid precursor) |
| GO | spectrin-associated cytoskeleton | 1 | 5 | 0.2981385 | 6710 | spectrin, beta, erythrocytic |
| GO | induction of apoptosis by hormones | 1 | 5 | 0.2981385 | 6750 | somatostatin |
| GO | somatostatin receptor activity | 1 | 5 | 0.2981385 | 6751 | somatostatin receptor 1 |
| GO | definitive hemopoiesis | 1 | 5 | 0.2981385 | 7049 | transforming growth factor, beta receptor III |
| GO | negative regulation of cellular compc | 1 | 5 | 0.2981385 | 7049 | transforming growth factor, beta receptor III |
| GO | response to prostaglandin E stimulus | 1 | 5 | 0.2981385 | 7049 | transforming growth factor, beta receptor III |
| GO | toll-like receptor signaling pathway | 1 | 5 | 0.2981385 | 7099 | toll-like receptor 4 |
| GO | regulation of short-term neuronal syr | 1 | 5 | 0.2981385 | 729993 | shisa homolog 9 (Xenopus laevis) |
| GO | mammary gland branching involved i | 1 | 5 | 0.2981385 | 7474 | wingless-type MMTV integration site family, member 5A |
| GO | 1-alkyl-2-acetylglycerophosphocholin | 1 | 5 | 0.2981385 | 7941 | phospholipase A2, group VII (platelet-activating factor acetylhydrolase, |
| GO | intramembranous ossification | 1 | 5 | 0.2981385 | 8313 | axin 2 |
| GO | phosphatidylinositol transporter activ | 1 | 5 | 0.2981385 | 83394 | PITPNM family member 3 |
| GO | endoderm formation | 1 | 5 | 0.2981385 | 83595 | SRY (sex determining region Y)-box 7 |
| GO | muscle organ morphogenesis | 1 | 5 | 0.2981385 | 84159 | AT rich interactive domain 5B (MRF1-like) |
| GO | negative regulation of kinase activity | 1 | 5 | 0.2981385 | 8660 | insulin receptor substrate 2 |

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|---|---|---|---|---|---|---|
| GO | regulation of calcium ion transport vi | 1 | 5 | 0.2981385 | 91404 | SEC14 and spectrin domains 1 |
| GO | secondary active monocarboxylate tr | 1 | 5 | 0.2981385 | 9194 | solute carrier family 16, member 7 (monocarboxylic acid transporter 2) |
| GO | peptidoglycan receptor activity | 1 | 5 | 0.2981385 | 929 | CD14 molecule |
| GO | N-acetylglucosamine 6-O-sulfotransfe | 1 | 5 | 0.2981385 | 9435 | carbohydrate (N-acetylglucosamine-6-O) sulfotransferase 2 |
| GO | cellular metal ion homeostasis | 1 | 5 | 0.2981385 | 9633 | metallothionein-like 5, testis-specific (tesmin) |
| GO | nitric-oxide synthase binding | 1 | 5 | 0.2981385 | 9722 | nitric oxide synthase 1 (neuronal) adaptor protein |
| GO | segment specification | 1 | 5 | 0.2981385 | 9935 | v-maf musculoaponeurotic fibrosarcoma oncogene homolog B (avian) |
| GO | synapsis | 1 | 5 | 0.2981385 | 9985 | REC8 homolog (yeast) |
| GO | camera-type eye development | 3 | 28 | 0.2990029 | 2296 | forkhead box C1 |
| GO | camera-type eye development | 3 | 28 | 0.2990029 | 2303 | forkhead box C2 (MFH-1, mesenchyme forkhead 1) |
| GO | camera-type eye development | 3 | 28 | 0.2990029 | 4286 | microphthalmia-associated transcription factor |
| GO | single fertilization | 3 | 28 | 0.2990029 | 4179 | CD46 molecule, complement regulatory protein |
| GO | single fertilization | 3 | 28 | 0.2990029 | 4486 | macrophage stimulating 1 receptor (c-met-related tyrosine kinase) |
| GO | single fertilization | 3 | 28 | 0.2990029 | 5016 | oviductal glycoprotein 1, 120kDa |
| GO | positive regulation of axonogenesis | 2 | 16 | 0.2997149 | 10507 | sema domain, immunoglobulin domain (Ig), transmembrane domain (T |
| GO | positive regulation of axonogenesis | 2 | 16 | 0.2997149 | 23654 | plexin B2 |
| GO | vitamin D receptor binding | 2 | 16 | 0.2997149 | 10766 | transducer of ERBB2, 2 |
| GO | vitamin D receptor binding | 2 | 16 | 0.2997149 | 6256 | retinoid X receptor, alpha |
| GO | nicotinic acetylcholine-activated catio | 2 | 16 | 0.2997149 | 1139 | cholinergic receptor, nicotinic, alpha 7 |
| GO | nicotinic acetylcholine-activated catio | 2 | 16 | 0.2997149 | 8973 | cholinergic receptor, nicotinic, alpha 6 |
| GO | nicotinic acetylcholine-gated recepto | 2 | 16 | 0.2997149 | 1139 | cholinergic receptor, nicotinic, alpha 7 |
| GO | nicotinic acetylcholine-gated recepto | 2 | 16 | 0.2997149 | 8973 | cholinergic receptor, nicotinic, alpha 6 |
| GO | phosphatidylinositol-3,4,5-trisphosph | 2 | 16 | 0.2997149 | 116984 | ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 2 |
| GO | phosphatidylinositol-3,4,5-trisphosph | 2 | 16 | 0.2997149 | 56288 | par-3 partitioning defective 3 homolog (C. elegans) |
| GO | negative regulation of insulin secretio | 2 | 16 | 0.2997149 | 130399 | activin A receptor, type IC |
| GO | negative regulation of insulin secretio | 2 | 16 | 0.2997149 | 8622 | phosphodiesterase 8B |
| GO | receptor complex | 2 | 16 | 0.2997149 | 1435 | colony stimulating factor 1 (macrophage) |
| GO | receptor complex | 2 | 16 | 0.2997149 | 154 | adrenergic, beta-2-, receptor, surface |
| GO | gamete generation | 2 | 16 | 0.2997149 | 158800 | Rhox homeobox family, member 1 |
| GO | gamete generation | 2 | 16 | 0.2997149 | 54361 | wingless-type MMTV integration site family, member 4 |
| GO | response to morphine | 2 | 16 | 0.2997149 | 1813 | dopamine receptor D2 |
| GO | response to morphine | 2 | 16 | 0.2997149 | 5122 | proprotein convertase subtilisin/kexin type 1 |
| GO | lateral plasma membrane | 2 | 16 | 0.2997149 | 2706 | gap junction protein, beta 2, 26kDa |
| GO | lateral plasma membrane | 2 | 16 | 0.2997149 | 368 | ATP-binding cassette, sub-family C (CFTR/MRP), member 6 |
| GO | smoothened signaling pathway | 2 | 16 | 0.2997149 | 28996 | homeodomain interacting protein kinase 2 |
| GO | smoothened signaling pathway | 2 | 16 | 0.2997149 | 50937 | Cdon homolog (mouse) |

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|---|---|---|---|---|---|---|
| GO | response to nutrient levels | 2 | 16 | 0.2997149 | 3643 | insulin receptor |
| GO | response to nutrient levels | 2 | 16 | 0.2997149 | 5122 | proprotein convertase subtilisin/kexin type 1 |
| GO | internal side of plasma membrane | 2 | 16 | 0.2997149 | 3815 | v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog |
| GO | internal side of plasma membrane | 2 | 16 | 0.2997149 | 5239 | phosphoglucomutase 5 |
| GO | calcium-dependent cysteine-type en | 2 | 16 | 0.2997149 | 388743 | calpain 8 |
| GO | calcium-dependent cysteine-type en | 2 | 16 | 0.2997149 | 726 | calpain 5 |
| GO | response to axon injury | 2 | 16 | 0.2997149 | 4056 | leukotriene C4 synthase |
| GO | response to axon injury | 2 | 16 | 0.2997149 | 5122 | proprotein convertase subtilisin/kexin type 1 |
| GO | mitochondrial envelope | 2 | 16 | 0.2997149 | 4129 | monoamine oxidase B |
| GO | mitochondrial envelope | 2 | 16 | 0.2997149 | 9804 | translocase of outer mitochondrial membrane 20 homolog (yeast) |
| GO | eukaryotic cell surface binding | 2 | 16 | 0.2997149 | 498 | ATP synthase, H+ transporting, mitochondrial F1 complex, alpha subun |
| GO | eukaryotic cell surface binding | 2 | 16 | 0.2997149 | 5046 | proprotein convertase subtilisin/kexin type 6 |
| GO | stereocilium | 2 | 16 | 0.2997149 | 51168 | myosin XVA |
| GO | stereocilium | 2 | 16 | 0.2997149 | 53405 | chloride intracellular channel 5 |
| GO | mRNA binding | 4 | 41 | 0.3068172 | 104 | adenosine deaminase, RNA-specific, B1 (RED1 homolog rat) |
| GO | mRNA binding | 4 | 41 | 0.3068172 | 55124 | piwi-like 2 (Drosophila) |
| GO | mRNA binding | 4 | 41 | 0.3068172 | 7538 | zinc finger protein 36, C3H type, homolog (mouse) |
| GO | mRNA binding | 4 | 41 | 0.3068172 | 9271 | piwi-like 1 (Drosophila) |
| GO | cellular defense response | 5 | 54 | 0.3086611 | 10288 | leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITI |
| GO | cellular defense response | 5 | 54 | 0.3086611 | 10312 | T-cell, immune regulator 1, ATPase, H+ transporting, lysosomal V0 subu |
| GO | cellular defense response | 5 | 54 | 0.3086611 | 3823 | killer cell lectin-like receptor subfamily C, member 3 |
| GO | cellular defense response | 5 | 54 | 0.3086611 | 3959 | lectin, galactoside-binding, soluble, 3 binding protein |
| GO | cellular defense response | 5 | 54 | 0.3086611 | 9214 | Fas apoptotic inhibitory molecule 3 |
| GO | proton transport | 5 | 54 | 0.3086611 | 10312 | T-cell, immune regulator 1, ATPase, H+ transporting, lysosomal V0 subu |
| GO | proton transport | 5 | 54 | 0.3086611 | 27035 | NADPH oxidase 1 |
| GO | proton transport | 5 | 54 | 0.3086611 | 498 | ATP synthase, H+ transporting, mitochondrial F1 complex, alpha subun |
| GO | proton transport | 5 | 54 | 0.3086611 | 50617 | ATPase, H+ transporting, lysosomal V0 subunit a4 |
| GO | proton transport | 5 | 54 | 0.3086611 | 8992 | ATPase, H+ transporting, lysosomal 9kDa, V0 subunit e1 |
| GO | basolateral plasma membrane | 9 | 107 | 0.3088619 | 1048 | carcinoembryonic antigen-related cell adhesion molecule 5 |
| GO | basolateral plasma membrane | 9 | 107 | 0.3088619 | 1080 | cystic fibrosis transmembrane conductance regulator (ATP-binding cas |
| GO | basolateral plasma membrane | 9 | 107 | 0.3088619 | 2066 | v-erb-a erythroblastic leukemia viral oncogene homolog 4 (avian) |
| GO | basolateral plasma membrane | 9 | 107 | 0.3088619 | 3570 | interleukin 6 receptor |
| GO | basolateral plasma membrane | 9 | 107 | 0.3088619 | 358 | aquaporin 1 (Colton blood group) |
| GO | basolateral plasma membrane | 9 | 107 | 0.3088619 | 6521 | solute carrier family 4, anion exchanger, member 1 (erythrocyte memb |
| GO | basolateral plasma membrane | 9 | 107 | 0.3088619 | 760 | carbonic anhydrase II |
| GO | basolateral plasma membrane | 9 | 107 | 0.3088619 | 8671 | solute carrier family 4, sodium bicarbonate cotransporter, member 4 |

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|---|---|---|---|---|---|---|
| GO | basolateral plasma membrane | 9 | 107 | 0.3088619 | 9962 | solute carrier family 23 (nucleobase transporters), member 2 |
| GO | actin cytoskeleton | 11 | 134 | 0.3088761 | 11078 | TRIO and F-actin binding protein |
| GO | actin cytoskeleton | 11 | 134 | 0.3088761 | 1612 | death-associated protein kinase 1 |
| GO | actin cytoskeleton | 11 | 134 | 0.3088761 | 2039 | erythrocyte membrane protein band 4.9 (dematin) |
| GO | actin cytoskeleton | 11 | 134 | 0.3088761 | 27295 | PDZ and LIM domain 3 |
| GO | actin cytoskeleton | 11 | 134 | 0.3088761 | 395 | Rho GTPase activating protein 6 |
| GO | actin cytoskeleton | 11 | 134 | 0.3088761 | 3983 | actin binding LIM protein 1 |
| GO | actin cytoskeleton | 11 | 134 | 0.3088761 | 4778 | nuclear factor (erythroid-derived 2), 45kDa |
| GO | actin cytoskeleton | 11 | 134 | 0.3088761 | 53405 | chloride intracellular channel 5 |
| GO | actin cytoskeleton | 11 | 134 | 0.3088761 | 6622 | synuclein, alpha (non A4 component of amyloid precursor) |
| GO | actin cytoskeleton | 11 | 134 | 0.3088761 | 6710 | spectrin, beta, erythrocytic |
| GO | actin cytoskeleton | 11 | 134 | 0.3088761 | 9788 | metastasis suppressor 1 |
| GO | cell proliferation | 22 | 286 | 0.3132056 | 10216 | proteoglycan 4 |
| GO | cell proliferation | 22 | 286 | 0.3132056 | 1435 | colony stimulating factor 1 (macrophage) |
| GO | cell proliferation | 22 | 286 | 0.3132056 | 2013 | epithelial membrane protein 2 |
| GO | cell proliferation | 22 | 286 | 0.3132056 | 2066 | v-erb-a erythroblastic leukemia viral oncogene homolog 4 (avian) |
| GO | cell proliferation | 22 | 286 | 0.3132056 | 2239 | glypican 4 |
| GO | cell proliferation | 22 | 286 | 0.3132056 | 2303 | forkhead box C2 (MFH-1, mesenchyme forkhead 1) |
| GO | cell proliferation | 22 | 286 | 0.3132056 | 2752 | glutamate-ammonia ligase (glutamine synthetase) |
| GO | cell proliferation | 22 | 286 | 0.3132056 | 29126 | CD274 molecule |
| GO | cell proliferation | 22 | 286 | 0.3132056 | 3428 | interferon, gamma-inducible protein 16 |
| GO | cell proliferation | 22 | 286 | 0.3132056 | 3491 | cysteine-rich, angiogenic inducer, 61 |
| GO | cell proliferation | 22 | 286 | 0.3132056 | 3601 | interleukin 15 receptor, alpha |
| GO | cell proliferation | 22 | 286 | 0.3132056 | 3911 | laminin, alpha 5 |
| GO | cell proliferation | 22 | 286 | 0.3132056 | 4194 | Mdm4 p53 binding protein homolog (mouse) |
| GO | cell proliferation | 22 | 286 | 0.3132056 | 4254 | KIT ligand |
| GO | cell proliferation | 22 | 286 | 0.3132056 | 64083 | golgi phosphoprotein 3 (coat-protein) |
| GO | cell proliferation | 22 | 286 | 0.3132056 | 6494 | signal-induced proliferation-associated 1 |
| GO | cell proliferation | 22 | 286 | 0.3132056 | 684 | bone marrow stromal cell antigen 2 |
| GO | cell proliferation | 22 | 286 | 0.3132056 | 6850 | spleen tyrosine kinase |
| GO | cell proliferation | 22 | 286 | 0.3132056 | 6941 | transcription factor 19 |
| GO | cell proliferation | 22 | 286 | 0.3132056 | 7071 | Kruppel-like factor 10 |
| GO | cell proliferation | 22 | 286 | 0.3132056 | 8556 | CDC14 cell division cycle 14 homolog A (S. cerevisiae) |
| GO | cell proliferation | 22 | 286 | 0.3132056 | 8744 | tumor necrosis factor (ligand) superfamily, member 9 |
| GO | histone deacetylase complex | 3 | 29 | 0.3181706 | 10014 | histone deacetylase 5 |
| GO | histone deacetylase complex | 3 | 29 | 0.3181706 | 2122 | MDS1 and EVI1 complex locus |

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|---|---|---|---|---|---|---|
| GO | histone deacetylase complex | 3 | 29 | 0.3181706 | 9734 | histone deacetylase 9 |
| GO | protein kinase C binding | 3 | 29 | 0.3181706 | 10014 | histone deacetylase 5 |
| GO | protein kinase C binding | 3 | 29 | 0.3181706 | 112464 | protein kinase C, delta binding protein |
| GO | protein kinase C binding | 3 | 29 | 0.3181706 | 9734 | histone deacetylase 9 |
| GO | keratinocyte differentiation | 3 | 29 | 0.3181706 | 10628 | thioredoxin interacting protein |
| GO | keratinocyte differentiation | 3 | 29 | 0.3181706 | 6706 | small proline-rich protein 2G |
| GO | keratinocyte differentiation | 3 | 29 | 0.3181706 | 8796 | sciellin |
| GO | transcriptional repressor complex | 3 | 29 | 0.3181706 | 2117 | ets variant 3 |
| GO | transcriptional repressor complex | 3 | 29 | 0.3181706 | 2737 | GLI family zinc finger 3 |
| GO | transcriptional repressor complex | 3 | 29 | 0.3181706 | 7464 | coronin, actin binding protein, 2A |
| GO | behavior | 3 | 29 | 0.3181706 | 2354 | FBJ murine osteosarcoma viral oncogene homolog B |
| GO | behavior | 3 | 29 | 0.3181706 | 4128 | monoamine oxidase A |
| GO | behavior | 3 | 29 | 0.3181706 | 5367 | pro-melanin-concentrating hormone |
| GO | protein homooligomerization | 6 | 68 | 0.3200702 | 2040 | stomatin |
| GO | protein homooligomerization | 6 | 68 | 0.3200702 | 5025 | purinergic receptor P2X, ligand-gated ion channel, 4 |
| GO | protein homooligomerization | 6 | 68 | 0.3200702 | 6505 | solute carrier family 1 (neuronal/epithelial high affinity glutamate trans |
| GO | protein homooligomerization | 6 | 68 | 0.3200702 | 6857 | synaptotagmin I |
| GO | protein homooligomerization | 6 | 68 | 0.3200702 | 8527 | diacylglycerol kinase, delta 130kDa |
| GO | protein homooligomerization | 6 | 68 | 0.3200702 | 8600 | tumor necrosis factor (ligand) superfamily, member 11 |
| GO | post-embryonic development | 5 | 55 | 0.3223666 | 4087 | SMAD family member 2 |
| GO | post-embryonic development | 5 | 55 | 0.3223666 | 4929 | nuclear receptor subfamily 4, group A, member 2 |
| GO | post-embryonic development | 5 | 55 | 0.3223666 | 64651 | cysteine-serine-rich nuclear protein 1 |
| GO | post-embryonic development | 5 | 55 | 0.3223666 | 652 | bone morphogenetic protein 4 |
| GO | post-embryonic development | 5 | 55 | 0.3223666 | 84159 | AT rich interactive domain 5B (MRF1-like) |
| GO | chemokine activity | 4 | 42 | 0.3226198 | 2921 | chemokine (C-X-C motif) ligand 3 |
| GO | chemokine activity | 4 | 42 | 0.3226198 | 56477 | chemokine (C-C motif) ligand 28 |
| GO | chemokine activity | 4 | 42 | 0.3226198 | 6372 | chemokine (C-X-C motif) ligand 6 (granulocyte chemotactic protein 2) |
| GO | chemokine activity | 4 | 42 | 0.3226198 | 6374 | chemokine (C-X-C motif) ligand 5 |
| GO | histone deacetylation | 2 | 17 | 0.3255718 | 10014 | histone deacetylase 5 |
| GO | histone deacetylation | 2 | 17 | 0.3255718 | 9734 | histone deacetylase 9 |
| GO | positive regulation of cell-substrate a | 2 | 17 | 0.3255718 | 10085 | EGF-like repeats and discoidin I-like domains 3 |
| GO | positive regulation of cell-substrate a | 2 | 17 | 0.3255718 | 3491 | cysteine-rich, angiogenic inducer, 61 |
| GO | positive regulation of proteasomal ub | 2 | 17 | 0.3255718 | 10221 | tribbles homolog 1 (Drosophila) |
| GO | positive regulation of proteasomal ub | 2 | 17 | 0.3255718 | 28951 | tribbles homolog 2 (Drosophila) |
| GO | activation of protein kinase A activity | 2 | 17 | 0.3255718 | 112 | adenylate cyclase 6 |
| GO | activation of protein kinase A activity | 2 | 17 | 0.3255718 | 5577 | protein kinase, cAMP-dependent, regulatory, type II, beta |

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|---|---|---|---|---|---|---|
| GO | DNA damage response, signal transdu | 2 | 17 | 0.3255718 | 11200 | CHK2 checkpoint homolog (S. pombe) |
| GO | DNA damage response, signal transdu | 2 | 17 | 0.3255718 | 5371 | promyelocytic leukemia |
| GO | regulation of pH | 2 | 17 | 0.3255718 | 1906 | endothelin 1 |
| GO | regulation of pH | 2 | 17 | 0.3255718 | 50617 | ATPase, H+ transporting, lysosomal V0 subunit a4 |
| GO | regulation of angiogenesis | 2 | 17 | 0.3255718 | 1969 | EPH receptor A2 |
| GO | regulation of angiogenesis | 2 | 17 | 0.3255718 | 3569 | interleukin 6 (interferon, beta 2) |
| GO | NF-kappaB binding | 2 | 17 | 0.3255718 | 2033 | E1A binding protein p300 |
| GO | NF-kappaB binding | 2 | 17 | 0.3255718 | 4792 | nuclear factor of kappa light polypeptide gene enhancer in B-cells inhib |
| GO | rough endoplasmic reticulum | 2 | 17 | 0.3255718 | 255738 | proprotein convertase subtilisin/kexin type 9 |
| GO | rough endoplasmic reticulum | 2 | 17 | 0.3255718 | 5122 | proprotein convertase subtilisin/kexin type 1 |
| GO | anchored to plasma membrane | 2 | 17 | 0.3255718 | 27076 | LY6/PLAUR domain containing 3 |
| GO | anchored to plasma membrane | 2 | 17 | 0.3255718 | 285704 | RGM domain family, member B |
| GO | nuclear body | 2 | 17 | 0.3255718 | 28996 | homeodomain interacting protein kinase 2 |
| GO | nuclear body | 2 | 17 | 0.3255718 | 6239 | ras responsive element binding protein 1 |
| GO | caspase activator activity | 2 | 17 | 0.3255718 | 29108 | PYD and CARD domain containing |
| GO | caspase activator activity | 2 | 17 | 0.3255718 | 834 | caspase 1, apoptosis-related cysteine peptidase (interleukin 1, beta, co |
| GO | 2 iron, 2 sulfur cluster binding | 2 | 17 | 0.3255718 | 316 | aldehyde oxidase 1 |
| GO | 2 iron, 2 sulfur cluster binding | 2 | 17 | 0.3255718 | 8418 | cytidine monophosphate-N-acetylneuraminic acid hydroxylase (CMP-N |
| GO | fatty acid binding | 2 | 17 | 0.3255718 | 338557 | G protein-coupled receptor 120 |
| GO | fatty acid binding | 2 | 17 | 0.3255718 | 6622 | synuclein, alpha (non A4 component of amyloid precursor) |
| GO | positive regulation of cell differentiat | 2 | 17 | 0.3255718 | 3726 | jun B proto-oncogene |
| GO | positive regulation of cell differentiat | 2 | 17 | 0.3255718 | 9021 | suppressor of cytokine signaling 3 |
| GO | embryonic pattern specification | 2 | 17 | 0.3255718 | 4087 | SMAD family member 2 |
| GO | embryonic pattern specification | 2 | 17 | 0.3255718 | 84976 | dispatched homolog 1 (Drosophila) |
| GO | embryonic hindlimb morphogenesis | 2 | 17 | 0.3255718 | 4851 | Notch homolog 1, translocation-associated (Drosophila) |
| GO | embryonic hindlimb morphogenesis | 2 | 17 | 0.3255718 | 5307 | paired-like homeodomain 1 |
| GO | epithelial to mesenchymal transition | 2 | 17 | 0.3255718 | 4851 | Notch homolog 1, translocation-associated (Drosophila) |
| GO | epithelial to mesenchymal transition | 2 | 17 | 0.3255718 | 7049 | transforming growth factor, beta receptor III |
| GO | regulation of excitatory postsynaptic | 2 | 17 | 0.3255718 | 5025 | purinergic receptor P2X, ligand-gated ion channel, 4 |
| GO | regulation of excitatory postsynaptic | 2 | 17 | 0.3255718 | 6622 | synuclein, alpha (non A4 component of amyloid precursor) |
| GO | glycerol metabolic process | 2 | 17 | 0.3255718 | 56261 | glycerophosphocholine phosphodiesterase GDE1 homolog (S. cerevisia |
| GO | glycerol metabolic process | 2 | 17 | 0.3255718 | 81544 | glycerophosphodiester phosphodiesterase domain containing 5 |
| GO | negative regulation of insulin recepto | 2 | 17 | 0.3255718 | 5791 | protein tyrosine phosphatase, receptor type, E |
| GO | negative regulation of insulin recepto | 2 | 17 | 0.3255718 | 9021 | suppressor of cytokine signaling 3 |
| GO | coreceptor activity | 2 | 17 | 0.3255718 | 7049 | transforming growth factor, beta receptor III |
| GO | coreceptor activity | 2 | 17 | 0.3255718 | 7852 | chemokine (C-X-C motif) receptor 4 |

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|---|---|---|---|---|---|---|
| GO | myofibril | 2 | 17 | 0.3255718 | 7111 | tropomodulin 1 |
| GO | myofibril | 2 | 17 | 0.3255718 | 84033 | obscurin, cytoskeletal calmodulin and titin-interacting RhoGEF |
| GO | ribonuclease activity | 2 | 17 | 0.3255718 | 85441 | peroxisomal proliferator-activated receptor A interacting complex 285 |
| GO | ribonuclease activity | 2 | 17 | 0.3255718 | 8635 | ribonuclease T2 |
| GO | cell junction | 29 | 387 | 0.3299174 | 1139 | cholinergic receptor, nicotinic, alpha 7 |
| GO | cell junction | 29 | 387 | 0.3299174 | 1364 | claudin 4 |
| GO | cell junction | 29 | 387 | 0.3299174 | 143098 | membrane protein, palmitoylated 7 (MAGUK p55 subfamily member 7 |
| GO | cell junction | 29 | 387 | 0.3299174 | 143425 | synaptotagmin IX |
| GO | cell junction | 29 | 387 | 0.3299174 | 154810 | angiomotin like 1 |
| GO | cell junction | 29 | 387 | 0.3299174 | 1785 | dynamin 2 |
| GO | cell junction | 29 | 387 | 0.3299174 | 1803 | dipeptidyl-peptidase 4 |
| GO | cell junction | 29 | 387 | 0.3299174 | 23092 | Rho GTPase activating protein 26 |
| GO | cell junction | 29 | 387 | 0.3299174 | 23208 | synaptotagmin XI |
| GO | cell junction | 29 | 387 | 0.3299174 | 23371 | tensin like C1 domain containing phosphatase (tensin 2) |
| GO | cell junction | 29 | 387 | 0.3299174 | 2564 | gamma-aminobutyric acid (GABA) A receptor, epsilon |
| GO | cell junction | 29 | 387 | 0.3299174 | 2706 | gap junction protein, beta 2, 26kDa |
| GO | cell junction | 29 | 387 | 0.3299174 | 2707 | gap junction protein, beta 3, 31kDa |
| GO | cell junction | 29 | 387 | 0.3299174 | 27134 | tight junction protein 3 (zona occludens 3) |
| GO | cell junction | 29 | 387 | 0.3299174 | 399694 | SHC (Src homology 2 domain containing) family, member 4 |
| GO | cell junction | 29 | 387 | 0.3299174 | 5025 | purinergic receptor P2X, ligand-gated ion channel, 4 |
| GO | cell junction | 29 | 387 | 0.3299174 | 5318 | plakophilin 2 |
| GO | cell junction | 29 | 387 | 0.3299174 | 55740 | enabled homolog (Drosophila) |
| GO | cell junction | 29 | 387 | 0.3299174 | 55870 | ash1 (absent, small, or homeotic)-like (Drosophila) |
| GO | cell junction | 29 | 387 | 0.3299174 | 57619 | shroom family member 3 |
| GO | cell junction | 29 | 387 | 0.3299174 | 6857 | synaptotagmin I |
| GO | cell junction | 29 | 387 | 0.3299174 | 729993 | shisa homolog 9 (Xenopus laevis) |
| GO | cell junction | 29 | 387 | 0.3299174 | 7706 | tripartite motif-containing 25 |
| GO | cell junction | 29 | 387 | 0.3299174 | 8082 | sarcospan (Kras oncogene-associated gene) |
| GO | cell junction | 29 | 387 | 0.3299174 | 83604 | transmembrane protein 47 |
| GO | cell junction | 29 | 387 | 0.3299174 | 8973 | cholinergic receptor, nicotinic, alpha 6 |
| GO | cell junction | 29 | 387 | 0.3299174 | 9071 | claudin 10 |
| GO | cell junction | 29 | 387 | 0.3299174 | 9143 | synaptogyrin 3 |
| GO | cell junction | 29 | 387 | 0.3299174 | 9414 | tight junction protein 2 (zona occludens 2) |
| GO | cell death | 10 | 123 | 0.331858 | 11202 | kallikrein-related peptidase 8 |
| GO | cell death | 10 | 123 | 0.331858 | 1822 | atrophin 1 |
| GO | cell death | 10 | 123 | 0.331858 | 2055 | ceroid-lipofuscinosis, neuronal 8 (epilepsy, progressive with mental ret |

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|---|---|---|---|---|---|---|
| GO | cell death | 10 | 123 | 0.331858 | 2521 | fused in sarcoma |
| GO | cell death | 10 | 123 | 0.331858 | 3373 | hyaluronoglucosaminidase 1 |
| GO | cell death | 10 | 123 | 0.331858 | 6622 | synuclein, alpha (non A4 component of amyloid precursor) |
| GO | cell death | 10 | 123 | 0.331858 | 7133 | tumor necrosis factor receptor superfamily, member 1B |
| GO | cell death | 10 | 123 | 0.331858 | 79152 | fatty acid 2-hydroxylase |
| GO | cell death | 10 | 123 | 0.331858 | 8313 | axin 2 |
| GO | cell death | 10 | 123 | 0.331858 | 834 | caspase 1, apoptosis-related cysteine peptidase (interleukin 1, beta, co |
| GO | transcription coactivator activity | 15 | 192 | 0.3336553 | 10891 | peroxisome proliferator-activated receptor gamma, coactivator 1 alph |
| GO | transcription coactivator activity | 15 | 192 | 0.3336553 | 11030 | RNA binding protein with multiple splicing |
| GO | transcription coactivator activity | 15 | 192 | 0.3336553 | 1999 | E74-like factor 3 (ets domain transcription factor, epithelial-specific ) |
| GO | transcription coactivator activity | 15 | 192 | 0.3336553 | 2033 | E1A binding protein p300 |
| GO | transcription coactivator activity | 15 | 192 | 0.3336553 | 3725 | jun oncogene |
| GO | transcription coactivator activity | 15 | 192 | 0.3336553 | 3726 | jun B proto-oncogene |
| GO | transcription coactivator activity | 15 | 192 | 0.3336553 | 4778 | nuclear factor (erythroid-derived 2), 45kDa |
| GO | transcription coactivator activity | 15 | 192 | 0.3336553 | 4791 | nuclear factor of kappa light polypeptide gene enhancer in B-cells 2 (p |
| GO | transcription coactivator activity | 15 | 192 | 0.3336553 | 4802 | nuclear transcription factor Y, gamma |
| GO | transcription coactivator activity | 15 | 192 | 0.3336553 | 5371 | promyelocytic leukemia |
| GO | transcription coactivator activity | 15 | 192 | 0.3336553 | 5396 | paired related homeobox 1 |
| GO | transcription coactivator activity | 15 | 192 | 0.3336553 | 6256 | retinoid X receptor, alpha |
| GO | transcription coactivator activity | 15 | 192 | 0.3336553 | 6604 | SWI/SNF related, matrix associated, actin dependent regulator of chro |
| GO | transcription coactivator activity | 15 | 192 | 0.3336553 | 85441 | peroxisomal proliferator-activated receptor A interacting complex 285 |
| GO | transcription coactivator activity | 15 | 192 | 0.3336553 | 9971 | nuclear receptor subfamily 1, group H, member 4 |
| GO | transporter activity | 22 | 290 | 0.3368005 | 10312 | T-cell, immune regulator 1, ATPase, H+ transporting, lysosomal V0 sub |
| GO | transporter activity | 22 | 290 | 0.3368005 | 113235 | solute carrier family 46 (folate transporter), member 1 |
| GO | transporter activity | 22 | 290 | 0.3368005 | 123096 | solute carrier family 25, member 29 |
| GO | transporter activity | 22 | 290 | 0.3368005 | 1382 | cellular retinoic acid binding protein 2 |
| GO | transporter activity | 22 | 290 | 0.3368005 | 143425 | synaptotagmin IX |
| GO | transporter activity | 22 | 290 | 0.3368005 | 23208 | synaptotagmin XI |
| GO | transporter activity | 22 | 290 | 0.3368005 | 28231 | solute carrier organic anion transporter family, member 4A1 |
| GO | transporter activity | 22 | 290 | 0.3368005 | 28982 | feline leukemia virus subgroup C cellular receptor 1 |
| GO | transporter activity | 22 | 290 | 0.3368005 | 368 | ATP-binding cassette, sub-family C (CFTR/MRP), member 6 |
| GO | transporter activity | 22 | 290 | 0.3368005 | 5243 | ATP-binding cassette, sub-family B (MDR/TAP), member 1 |
| GO | transporter activity | 22 | 290 | 0.3368005 | 55867 | solute carrier family 22 (organic anion/urate transporter), member 11 |
| GO | transporter activity | 22 | 290 | 0.3368005 | 5950 | retinol binding protein 4, plasma |
| GO | transporter activity | 22 | 290 | 0.3368005 | 63027 | solute carrier family 22, member 23 |
| GO | transporter activity | 22 | 290 | 0.3368005 | 6521 | solute carrier family 4, anion exchanger, member 1 (erythrocyte memb |

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|---|---|---|---|---|---|---|
| GO | transporter activity | 22 | 290 | 0.3368005 | 6564 | solute carrier family 15 (oligopeptide transporter), member 1 |
| GO | transporter activity | 22 | 290 | 0.3368005 | 6565 | solute carrier family 15 (H+/peptide transporter), member 2 |
| GO | transporter activity | 22 | 290 | 0.3368005 | 6857 | synaptotagmin I |
| GO | transporter activity | 22 | 290 | 0.3368005 | 8671 | solute carrier family 4, sodium bicarbonate cotransporter, member 4 |
| GO | transporter activity | 22 | 290 | 0.3368005 | 8992 | ATPase, H+ transporting, lysosomal 9kDa, V0 subunit e1 |
| GO | transporter activity | 22 | 290 | 0.3368005 | 9182 | Ras association (RalGDS/AF-6) domain family (N-terminal) member 9 |
| GO | transporter activity | 22 | 290 | 0.3368005 | 9481 | solute carrier family 25, member 27 |
| GO | transporter activity | 22 | 290 | 0.3368005 | 9962 | solute carrier family 23 (nucleobase transporters), member 2 |
| GO | protein tyrosine/serine/threonine ph | 3 | 30 | 0.3373522 | 11156 | protein tyrosine phosphatase type IVA, member 3 |
| GO | protein tyrosine/serine/threonine ph | 3 | 30 | 0.3373522 | 54961 | slingshot homolog 3 (Drosophila) |
| GO | protein tyrosine/serine/threonine ph | 3 | 30 | 0.3373522 | 8556 | CDC14 cell division cycle 14 homolog A (S. cerevisiae) |
| GO | cell morphogenesis | 3 | 30 | 0.3373522 | 134549 | shroom family member 1 |
| GO | cell morphogenesis | 3 | 30 | 0.3373522 | 57619 | shroom family member 3 |
| GO | cell morphogenesis | 3 | 30 | 0.3373522 | 604 | B-cell CLL/lymphoma 6 |
| GO | gene silencing by RNA | 3 | 30 | 0.3373522 | 143689 | piwi-like 4 (Drosophila) |
| GO | gene silencing by RNA | 3 | 30 | 0.3373522 | 55124 | piwi-like 2 (Drosophila) |
| GO | gene silencing by RNA | 3 | 30 | 0.3373522 | 9271 | piwi-like 1 (Drosophila) |
| GO | BMP signaling pathway | 4 | 43 | 0.3384759 | 285704 | RGM domain family, member B |
| GO | BMP signaling pathway | 4 | 43 | 0.3384759 | 64388 | gremlin 2, cysteine knot superfamily, homolog (Xenopus laevis) |
| GO | BMP signaling pathway | 4 | 43 | 0.3384759 | 652 | bone morphogenetic protein 4 |
| GO | BMP signaling pathway | 4 | 43 | 0.3384759 | 7049 | transforming growth factor, beta receptor III |
| GO | cell-cell adhesion | 6 | 70 | 0.3447352 | 10076 | protein tyrosine phosphatase, receptor type, U |
| GO | cell-cell adhesion | 6 | 70 | 0.3447352 | 1009 | cadherin 11, type 2, OB-cadherin (osteoblast) |
| GO | cell-cell adhesion | 6 | 70 | 0.3447352 | 4008 | LIM domain 7 |
| GO | cell-cell adhesion | 6 | 70 | 0.3447352 | 5318 | plakophilin 2 |
| GO | cell-cell adhesion | 6 | 70 | 0.3447352 | 79872 | Cas-Br-M (murine) ecotropic retroviral transforming sequence-like 1 |
| GO | cell-cell adhesion | 6 | 70 | 0.3447352 | 84059 | G protein-coupled receptor 98 |
| GO | growth factor activity | 12 | 152 | 0.3452406 | 1435 | colony stimulating factor 1 (macrophage) |
| GO | growth factor activity | 12 | 152 | 0.3452406 | 183 | angiotensinogen (serpin peptidase inhibitor, clade A, member 8) |
| GO | growth factor activity | 12 | 152 | 0.3452406 | 1839 | heparin-binding EGF-like growth factor |
| GO | growth factor activity | 12 | 152 | 0.3452406 | 23529 | cardiotrophin-like cytokine factor 1 |
| GO | growth factor activity | 12 | 152 | 0.3452406 | 26281 | fibroblast growth factor 20 |
| GO | growth factor activity | 12 | 152 | 0.3452406 | 3479 | insulin-like growth factor 1 (somatomedin C) |
| GO | growth factor activity | 12 | 152 | 0.3452406 | 3569 | interleukin 6 (interferon, beta 2) |
| GO | growth factor activity | 12 | 152 | 0.3452406 | 4254 | KIT ligand |
| GO | growth factor activity | 12 | 152 | 0.3452406 | 4856 | nephroblastoma overexpressed gene |

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| GO | growth factor activity | 12 | 152 | 0.3452406 | 627 | brain-derived neurotrophic factor |
| GO | growth factor activity | 12 | 152 | 0.3452406 | 652 | bone morphogenetic protein 4 |
| GO | growth factor activity | 12 | 152 | 0.3452406 | 9518 | growth differentiation factor 15 |
| GO | structural constituent of tooth enam | 1 | 6 | 0.3461221 | 10117 | enamelin |
| GO | alcohol dehydrogenase (NAD) activit | 1 | 6 | 0.3461221 | 10170 | dehydrogenase/reductase (SDR family) member 9 |
| GO | protein phosphatase 2B binding | 1 | 6 | 0.3461221 | 10231 | regulator of calcineurin 2 |
| GO | cellular phosphate ion homeostasis | 1 | 6 | 0.3461221 | 10568 | solute carrier family 34 (sodium phosphate), member 2 |
| GO | response to fructose stimulus | 1 | 6 | 0.3461221 | 10568 | solute carrier family 34 (sodium phosphate), member 2 |
| GO | bicarbonate transport | 1 | 6 | 0.3461221 | 1080 | cystic fibrosis transmembrane conductance regulator (ATP-binding cas |
| GO | fatty acid oxidation | 1 | 6 | 0.3461221 | 10891 | peroxisome proliferator-activated receptor gamma, coactivator 1 alph |
| GO | acylglycerol lipase activity | 1 | 6 | 0.3461221 | 11343 | monoglyceride lipase |
| GO | alcohol metabolic process | 1 | 6 | 0.3461221 | 124 | alcohol dehydrogenase 1A (class I), alpha polypeptide |
| GO | positive regulation of translational in | 1 | 6 | 0.3461221 | 127933 | U2AF homology motif (UHM) kinase 1 |
| GO | response to dietary excess | 1 | 6 | 0.3461221 | 130399 | activin A receptor, type IC |
| GO | glycogen catabolic process | 1 | 6 | 0.3461221 | 1373 | carbamoyl-phosphate synthetase 1, mitochondrial |
| GO | response to glucagon stimulus | 1 | 6 | 0.3461221 | 1373 | carbamoyl-phosphate synthetase 1, mitochondrial |
| GO | retinoic acid metabolic process | 1 | 6 | 0.3461221 | 1382 | cellular retinoic acid binding protein 2 |
| GO | activation of transmembrane recept | 1 | 6 | 0.3461221 | 154 | adrenergic, beta-2-, receptor, surface |
| GO | synaptic vesicle transport | 1 | 6 | 0.3461221 | 1785 | dynamin 2 |
| GO | negative regulation of synaptic trans | 1 | 6 | 0.3461221 | 1813 | dopamine receptor D2 |
| GO | positive regulation of growth hormo | 1 | 6 | 0.3461221 | 1813 | dopamine receptor D2 |
| GO | regulation of inhibitory postsynaptic | 1 | 6 | 0.3461221 | 1815 | dopamine receptor D4 |
| GO | positive regulation of epidermal grow | 1 | 6 | 0.3461221 | 183 | angiotensinogen (serpin peptidase inhibitor, clade A, member 8) |
| GO | vasoconstriction | 1 | 6 | 0.3461221 | 1906 | endothelin 1 |
| GO | glycoprotein biosynthetic process | 1 | 6 | 0.3461221 | 192134 | UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 6 (core |
| GO | glucocorticoid receptor binding | 1 | 6 | 0.3461221 | 2033 | E1A binding protein p300 |
| GO | neuromuscular process controlling p | 1 | 6 | 0.3461221 | 2055 | ceroid-lipofuscinosis, neuronal 8 (epilepsy, progressive with mental ret |
| GO | spinal cord motor neuron differentia | 1 | 6 | 0.3461221 | 2055 | ceroid-lipofuscinosis, neuronal 8 (epilepsy, progressive with mental ret |
| GO | positive regulation of synaptic transm | 1 | 6 | 0.3461221 | 2066 | v-erb-a erythroblastic leukemia viral oncogene homolog 4 (avian) |
| GO | germ cell migration | 1 | 6 | 0.3461221 | 2296 | forkhead box C1 |
| GO | actomyosin structure organization | 1 | 6 | 0.3461221 | 22998 | LIM and calponin homology domains 1 |
| GO | histone H3-K9 demethylation | 1 | 6 | 0.3461221 | 23081 | lysine (K)-specific demethylase 4C |
| GO | histone H4-K5 acetylation | 1 | 6 | 0.3461221 | 23338 | PHD finger protein 15 |
| GO | histone H4-K8 acetylation | 1 | 6 | 0.3461221 | 23338 | PHD finger protein 15 |
| GO | high-density lipoprotein binding | 1 | 6 | 0.3461221 | 23780 | apolipoprotein L, 2 |
| GO | arachidonic acid metabolic process | 1 | 6 | 0.3461221 | 240 | arachidonate 5-lipoxygenase |

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|---|---|---|---|---|---|---|
| GO | nuclear envelope lumen | 1 | 6 | 0.3461221 | 240 | arachidonate 5-lipoxygenase |
| GO | fucose metabolic process | 1 | 6 | 0.3461221 | 2517 | fucosidase, alpha-L- 1, tissue |
| GO | extrinsic to external side of plasma m | 1 | 6 | 0.3461221 | 255738 | proprotein convertase subtilisin/kexin type 9 |
| GO | AP-2 adaptor complex | 1 | 6 | 0.3461221 | 26119 | low density lipoprotein receptor adaptor protein 1 |
| GO | glycoprotein catabolic process | 1 | 6 | 0.3461221 | 26270 | F-box protein 6 |
| GO | regulation of synaptic transmission, g | 1 | 6 | 0.3461221 | 2911 | glutamate receptor, metabotropic 1 |
| GO | transmembrane receptor protein tyr | 1 | 6 | 0.3461221 | 29760 | B-cell linker |
| GO | phagocytic vesicle | 1 | 6 | 0.3461221 | 311 | annexin A11 |
| GO | negative regulation of survival gene p | 1 | 6 | 0.3461221 | 3169 | forkhead box A1 |
| GO | epithelial cell development | 1 | 6 | 0.3461221 | 3175 | one cut homeobox 1 |
| GO | hyaluronoglucosaminidase activity | 1 | 6 | 0.3461221 | 3373 | hyaluronoglucosaminidase 1 |
| GO | lung vasculature development | 1 | 6 | 0.3461221 | 3479 | insulin-like growth factor 1 (somatomedin C) |
| GO | positive regulation of insulin-like grov | 1 | 6 | 0.3461221 | 3479 | insulin-like growth factor 1 (somatomedin C) |
| GO | ammonia transmembrane transporte | 1 | 6 | 0.3461221 | 358 | aquaporin 1 (Colton blood group) |
| GO | ammonium transport | 1 | 6 | 0.3461221 | 358 | aquaporin 1 (Colton blood group) |
| GO | cellular response to hypoxia | 1 | 6 | 0.3461221 | 358 | aquaporin 1 (Colton blood group) |
| GO | cellular response to UV | 1 | 6 | 0.3461221 | 358 | aquaporin 1 (Colton blood group) |
| GO | activation of protein kinase B activity | 1 | 6 | 0.3461221 | 3643 | insulin receptor |
| GO | lipoic acid binding | 1 | 6 | 0.3461221 | 3643 | insulin receptor |
| GO | response to manganese ion | 1 | 6 | 0.3461221 | 3643 | insulin receptor |
| GO | plasma membrane enriched fraction | 1 | 6 | 0.3461221 | 3709 | inositol 1,4,5-triphosphate receptor, type 2 |
| GO | striated muscle cell differentiation | 1 | 6 | 0.3461221 | 3845 | v-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog |
| GO | endothelial cell differentiation | 1 | 6 | 0.3461221 | 3911 | laminin, alpha 5 |
| GO | glutathione binding | 1 | 6 | 0.3461221 | 4056 | leukotriene C4 synthase |
| GO | catecholamine metabolic process | 1 | 6 | 0.3461221 | 4128 | monoamine oxidase A |
| GO | enucleate erythrocyte differentiation | 1 | 6 | 0.3461221 | 4151 | myoglobin |
| GO | forebrain neuron differentiation | 1 | 6 | 0.3461221 | 429 | achaete-scute complex homolog 1 (Drosophila) |
| GO | response to folic acid | 1 | 6 | 0.3461221 | 429 | achaete-scute complex homolog 1 (Drosophila) |
| GO | cytoplasmic sequestering of NF-kapp | 1 | 6 | 0.3461221 | 4792 | nuclear factor of kappa light polypeptide gene enhancer in B-cells inhib |
| GO | cadmium ion binding | 1 | 6 | 0.3461221 | 4842 | nitric oxide synthase 1 (neuronal) |
| GO | negative regulation of glutamate sec | 1 | 6 | 0.3461221 | 4889 | neuropeptide Y receptor Y5 |
| GO | response to fluid shear stress | 1 | 6 | 0.3461221 | 5025 | purinergic receptor P2X, ligand-gated ion channel, 4 |
| GO | L-phenylalanine catabolic process | 1 | 6 | 0.3461221 | 5053 | phenylalanine hydroxylase |
| GO | startle response | 1 | 6 | 0.3461221 | 5071 | Parkinson disease (autosomal recessive, juvenile) 2, parkin |
| GO | peptide cross-linking via chondroitin | 1 | 6 | 0.3461221 | 50859 | sparc/osteonectin, cwcv and kazal-like domains proteoglycan (testican |
| GO | glycolipid transport | 1 | 6 | 0.3461221 | 51228 | glycolipid transfer protein |

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|---|---|---|---|---|---|---|
| GO | rough endoplasmic reticulum membr | 1 | 6 | 0.3461221 | 5351 | procollagen-lysine 1, 2-oxoglutarate 5-dioxygenase 1 |
| GO | antigen processing and presentation | 1 | 6 | 0.3461221 | 55080 | TAP binding protein-like |
| GO | meiotic prophase I | 1 | 6 | 0.3461221 | 55124 | piwi-like 2 (Drosophila) |
| GO | negative regulation of T cell activatio | 1 | 6 | 0.3461221 | 55824 | phosphoprotein associated with glycosphingolipid microdomains 1 |
| GO | DNA packaging | 1 | 6 | 0.3461221 | 55870 | ash1 (absent, small, or homeotic)-like (Drosophila) |
| GO | complement activation, lectin pathw | 1 | 6 | 0.3461221 | 5648 | mannan-binding lectin serine peptidase 1 (C4/C2 activating componen |
| GO | parturition | 1 | 6 | 0.3461221 | 5737 | prostaglandin F receptor (FP) |
| GO | cytidine deaminase activity | 1 | 6 | 0.3461221 | 57379 | activation-induced cytidine deaminase |
| GO | apical junction complex | 1 | 6 | 0.3461221 | 57619 | shroom family member 3 |
| GO | exocytic vesicle | 1 | 6 | 0.3461221 | 5873 | RAB27A, member RAS oncogene family |
| GO | erythrocyte development | 1 | 6 | 0.3461221 | 604 | B-cell CLL/lymphoma 6 |
| GO | glycosphingolipid binding | 1 | 6 | 0.3461221 | 6402 | selectin L |
| GO | negative regulation of interleukin-2 p | 1 | 6 | 0.3461221 | 64127 | nucleotide-binding oligomerization domain containing 2 |
| GO | sodium channel regulator activity | 1 | 6 | 0.3461221 | 64699 | transmembrane protease, serine 3 |
| GO | negative regulation of striated muscl | 1 | 6 | 0.3461221 | 652 | bone morphogenetic protein 4 |
| GO | ubiquitin-ubiquitin ligase activity | 1 | 6 | 0.3461221 | 6563 | solute carrier family 14 (urea transporter), member 1 (Kidd blood grou |
| GO | Hsp70 protein binding | 1 | 6 | 0.3461221 | 6622 | synuclein, alpha (non A4 component of amyloid precursor) |
| GO | amine metabolic process | 1 | 6 | 0.3461221 | 6819 | sulfotransferase family, cytosolic, 1C, member 2 |
| GO | enzyme linked receptor protein signa | 1 | 6 | 0.3461221 | 6850 | spleen tyrosine kinase |
| GO | positive regulation of alpha-beta T ce | 1 | 6 | 0.3461221 | 6850 | spleen tyrosine kinase |
| GO | positive regulation of B cell differenti | 1 | 6 | 0.3461221 | 6850 | spleen tyrosine kinase |
| GO | macrophage activation | 1 | 6 | 0.3461221 | 7099 | toll-like receptor 4 |
| GO | positive regulation of tumor necrosis | 1 | 6 | 0.3461221 | 7099 | toll-like receptor 4 |
| GO | podosome | 1 | 6 | 0.3461221 | 7170 | tropomyosin 3 |
| GO | store-operated calcium channel activ | 1 | 6 | 0.3461221 | 7223 | transient receptor potential cation channel, subfamily C, member 4 |
| GO | C-X-C chemokine receptor activity | 1 | 6 | 0.3461221 | 7852 | chemokine (C-X-C motif) receptor 4 |
| GO | DNA N-glycosylase activity | 1 | 6 | 0.3461221 | 79661 | nei endonuclease VIII-like 1 (E. coli) |
| GO | thyroid hormone receptor activity | 1 | 6 | 0.3461221 | 8013 | nuclear receptor subfamily 4, group A, member 3 |
| GO | hyaluronan metabolic process | 1 | 6 | 0.3461221 | 80760 | inter-alpha (globulin) inhibitor H5 |
| GO | juxtaparanode region of axon | 1 | 6 | 0.3461221 | 8514 | potassium voltage-gated channel, shaker-related subfamily, beta mem |
| GO | mammary gland epithelial cell prolife | 1 | 6 | 0.3461221 | 8600 | tumor necrosis factor (ligand) superfamily, member 11 |
| GO | proton-transporting V-type ATPase, | 1 | 6 | 0.3461221 | 8992 | ATPase, H+ transporting, lysosomal 9kDa, V0 subunit e1 |
| GO | trophoblast giant cell differentiation | 1 | 6 | 0.3461221 | 9021 | suppressor of cytokine signaling 3 |
| GO | phosphatidylinositol-3,5-bisphosphat | 1 | 6 | 0.3461221 | 91404 | SEC14 and spectrin domains 1 |
| GO | positive regulation of BMP signaling | 1 | 6 | 0.3461221 | 94 | activin A receptor type II-like 1 |
| GO | phospholipid homeostasis | 1 | 6 | 0.3461221 | 9619 | ATP-binding cassette, sub-family G (WHITE), member 1 |

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|---|---|---|---|---|---|---|
| GO | bile acid binding | 1 | 6 | 0.3461221 | 9971 | nuclear receptor subfamily 1, group H, member 4 |
| GO | locomotory behavior | 5 | 57 | 0.3499555 | 1813 | dopamine receptor D2 |
| GO | locomotory behavior | 5 | 57 | 0.3499555 | 2911 | glutamate receptor, metabotropic 1 |
| GO | locomotory behavior | 5 | 57 | 0.3499555 | 4886 | neuropeptide Y receptor Y1 |
| GO | locomotory behavior | 5 | 57 | 0.3499555 | 51168 | myosin XVA |
| GO | locomotory behavior | 5 | 57 | 0.3499555 | 56172 | ankylosis, progressive homolog (mouse) |
| GO | neuron migration | 5 | 57 | 0.3499555 | 429 | achaete-scute complex homolog 1 (Drosophila) |
| GO | neuron migration | 5 | 57 | 0.3499555 | 4692 | necdin homolog (mouse) |
| GO | neuron migration | 5 | 57 | 0.3499555 | 4929 | nuclear receptor subfamily 4, group A, member 2 |
| GO | neuron migration | 5 | 57 | 0.3499555 | 7026 | nuclear receptor subfamily 2, group F, member 2 |
| GO | neuron migration | 5 | 57 | 0.3499555 | 885 | cholecystokinin |
| GO | DNA damage checkpoint | 2 | 18 | 0.3511682 | 11200 | CHK2 checkpoint homolog (S. pombe) |
| GO | DNA damage checkpoint | 2 | 18 | 0.3511682 | 26270 | F-box protein 6 |
| GO | regulation of insulin secretion | 2 | 18 | 0.3511682 | 143425 | synaptotagmin IX |
| GO | regulation of insulin secretion | 2 | 18 | 0.3511682 | 222546 | regulatory factor X, 6 |
| GO | embryonic placenta development | 2 | 18 | 0.3511682 | 2624 | GATA binding protein 2 |
| GO | embryonic placenta development | 2 | 18 | 0.3511682 | 6692 | serine peptidase inhibitor, Kunitz type 1 |
| GO | response to inorganic substance | 2 | 18 | 0.3511682 | 4056 | leukotriene C4 synthase |
| GO | response to inorganic substance | 2 | 18 | 0.3511682 | 4929 | nuclear receptor subfamily 4, group A, member 2 |
| GO | pancreas development | 2 | 18 | 0.3511682 | 4087 | SMAD family member 2 |
| GO | pancreas development | 2 | 18 | 0.3511682 | 5122 | proprotein convertase subtilisin/kexin type 1 |
| GO | WW domain binding | 2 | 18 | 0.3511682 | 4778 | nuclear factor (erythroid-derived 2), 45kDa |
| GO | WW domain binding | 2 | 18 | 0.3511682 | 55740 | enabled homolog (Drosophila) |
| GO | protein import into nucleus, transloca | 2 | 18 | 0.3511682 | 4792 | nuclear factor of kappa light polypeptide gene enhancer in B-cells inhib |
| GO | protein import into nucleus, transloca | 2 | 18 | 0.3511682 | 604 | B-cell CLL/lymphoma 6 |
| GO | ADP binding | 2 | 18 | 0.3511682 | 498 | ATP synthase, H+ transporting, mitochondrial F1 complex, alpha subun |
| GO | ADP binding | 2 | 18 | 0.3511682 | 9619 | ATP-binding cassette, sub-family G (WHITE), member 1 |
| GO | proton-transporting ATPase activity, | 2 | 18 | 0.3511682 | 498 | ATP synthase, H+ transporting, mitochondrial F1 complex, alpha subun |
| GO | proton-transporting ATPase activity, | 2 | 18 | 0.3511682 | 8992 | ATPase, H+ transporting, lysosomal 9kDa, V0 subunit e1 |
| GO | SNARE complex | 2 | 18 | 0.3511682 | 51272 | blocked early in transport 1 homolog (S. cerevisiae)-like |
| GO | SNARE complex | 2 | 18 | 0.3511682 | 8673 | vesicle-associated membrane protein 8 (endobrevin) |
| GO | anion transport | 2 | 18 | 0.3511682 | 6521 | solute carrier family 4, anion exchanger, member 1 (erythrocyte memb |
| GO | anion transport | 2 | 18 | 0.3511682 | 8671 | solute carrier family 4, sodium bicarbonate cotransporter, member 4 |
| GO | cytolysis | 2 | 18 | 0.3511682 | 731 | complement component 8, alpha polypeptide |
| GO | cytolysis | 2 | 18 | 0.3511682 | 8542 | apolipoprotein L, 1 |
| GO | recycling endosome | 2 | 18 | 0.3511682 | 80223 | RAB11 family interacting protein 1 (class I) |

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|---|---|---|---|---|---|---|
| GO | recycling endosome | 2 | 18 | 0.3511682 | 9619 | ATP-binding cassette, sub-family G (WHITE), member 1 |
| GO | pattern specification process | 4 | 44 | 0.3543571 | 2737 | GLI family zinc finger 3 |
| GO | pattern specification process | 4 | 44 | 0.3543571 | 429 | achaete-scute complex homolog 1 (Drosophila) |
| GO | pattern specification process | 4 | 44 | 0.3543571 | 57619 | shroom family member 3 |
| GO | pattern specification process | 4 | 44 | 0.3543571 | 8646 | chordin |
| GO | protein stabilization | 3 | 31 | 0.3565002 | 10891 | peroxisome proliferator-activated receptor gamma, coactivator 1 alpha |
| GO | protein stabilization | 3 | 31 | 0.3565002 | 4194 | Mdm4 p53 binding protein homolog (mouse) |
| GO | protein stabilization | 3 | 31 | 0.3565002 | 5371 | promyelocytic leukemia |
| GO | cation binding | 3 | 31 | 0.3565002 | 1117 | chitinase 3-like 2 |
| GO | cation binding | 3 | 31 | 0.3565002 | 2990 | glucuronidase, beta |
| GO | cation binding | 3 | 31 | 0.3565002 | 5016 | oviductal glycoprotein 1, 120kDa |
| GO | phospholipid metabolic process | 3 | 31 | 0.3565002 | 2055 | ceroid-lipofuscinosis, neuronal 8 (epilepsy, progressive with mental ret |
| GO | phospholipid metabolic process | 3 | 31 | 0.3565002 | 255738 | proprotein convertase subtilisin/kexin type 9 |
| GO | phospholipid metabolic process | 3 | 31 | 0.3565002 | 6622 | synuclein, alpha (non A4 component of amyloid precursor) |
| GO | NADP or NADPH binding | 3 | 31 | 0.3565002 | 27035 | NADPH oxidase 1 |
| GO | NADP or NADPH binding | 3 | 31 | 0.3565002 | 4842 | nitric oxide synthase 1 (neuronal) |
| GO | NADP or NADPH binding | 3 | 31 | 0.3565002 | 9563 | hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase) |
| GO | embryonic digit morphogenesis | 3 | 31 | 0.3565002 | 2737 | GLI family zinc finger 3 |
| GO | embryonic digit morphogenesis | 3 | 31 | 0.3565002 | 28982 | feline leukemia virus subgroup C cellular receptor 1 |
| GO | embryonic digit morphogenesis | 3 | 31 | 0.3565002 | 652 | bone morphogenetic protein 4 |
| GO | ATPase activity, coupled to transmem | 3 | 31 | 0.3565002 | 368 | ATP-binding cassette, sub-family C (CFTR/MRP), member 6 |
| GO | ATPase activity, coupled to transmem | 3 | 31 | 0.3565002 | 5243 | ATP-binding cassette, sub-family B (MDR/TAP), member 1 |
| GO | ATPase activity, coupled to transmem | 3 | 31 | 0.3565002 | 5244 | ATP-binding cassette, sub-family B (MDR/TAP), member 4 |
| GO | early endosome | 7 | 85 | 0.3618806 | 1080 | cystic fibrosis transmembrane conductance regulator (ATP-binding cas |
| GO | early endosome | 7 | 85 | 0.3618806 | 11156 | protein tyrosine phosphatase type IVA, member 3 |
| GO | early endosome | 7 | 85 | 0.3618806 | 22906 | trafficking protein, kinesin binding 1 |
| GO | early endosome | 7 | 85 | 0.3618806 | 26119 | low density lipoprotein receptor adaptor protein 1 |
| GO | early endosome | 7 | 85 | 0.3618806 | 27035 | NADPH oxidase 1 |
| GO | early endosome | 7 | 85 | 0.3618806 | 8673 | vesicle-associated membrane protein 8 (endobrevin) |
| GO | early endosome | 7 | 85 | 0.3618806 | 9595 | cytohesin 1 interacting protein |
| GO | intracellular signaling pathway | 14 | 182 | 0.3629906 | 10156 | RAS p21 protein activator 4 |
| GO | intracellular signaling pathway | 14 | 182 | 0.3629906 | 1154 | cytokine inducible SH2-containing protein |
| GO | intracellular signaling pathway | 14 | 182 | 0.3629906 | 118987 | PDZ domain containing 8 |
| GO | intracellular signaling pathway | 14 | 182 | 0.3629906 | 29760 | B-cell linker |
| GO | intracellular signaling pathway | 14 | 182 | 0.3629906 | 4087 | SMAD family member 2 |
| GO | intracellular signaling pathway | 14 | 182 | 0.3629906 | 5577 | protein kinase, cAMP-dependent, regulatory, type II, beta |

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|---|---|---|---|---|---|---|
| GO | intracellular signaling pathway | 14 | 182 | 0.3629906 | 55824 | phosphoprotein associated with glycosphingolipid microdomains 1 |
| GO | intracellular signaling pathway | 14 | 182 | 0.3629906 | 57799 | RAB40C, member RAS oncogene family |
| GO | intracellular signaling pathway | 14 | 182 | 0.3629906 | 6101 | retinitis pigmentosa 1 (autosomal dominant) |
| GO | intracellular signaling pathway | 14 | 182 | 0.3629906 | 64127 | nucleotide-binding oligomerization domain containing 2 |
| GO | intracellular signaling pathway | 14 | 182 | 0.3629906 | 64798 | DEP domain containing 6 |
| GO | intracellular signaling pathway | 14 | 182 | 0.3629906 | 6494 | signal-induced proliferation-associated 1 |
| GO | intracellular signaling pathway | 14 | 182 | 0.3629906 | 7464 | coronin, actin binding protein, 2A |
| GO | intracellular signaling pathway | 14 | 182 | 0.3629906 | 9021 | suppressor of cytokine signaling 3 |
| GO | regulation of cell shape | 5 | 58 | 0.3638013 | 10435 | CDC42 effector protein (Rho GTPase binding) 2 |
| GO | regulation of cell shape | 5 | 58 | 0.3638013 | 148170 | CDC42 effector protein (Rho GTPase binding) 5 |
| GO | regulation of cell shape | 5 | 58 | 0.3638013 | 152273 | FYVE, RhoGEF and PH domain containing 5 |
| GO | regulation of cell shape | 5 | 58 | 0.3638013 | 3689 | integrin, beta 2 (complement component 3 receptor 3 and 4 subunit) |
| GO | regulation of cell shape | 5 | 58 | 0.3638013 | 57619 | shroom family member 3 |
| GO | blood circulation | 4 | 45 | 0.3702364 | 4223 | mesenchyme homeobox 2 |
| GO | blood circulation | 4 | 45 | 0.3702364 | 4524 | 5,10-methylenetetrahydrofolate reductase (NADPH) |
| GO | blood circulation | 4 | 45 | 0.3702364 | 4778 | nuclear factor (erythroid-derived 2), 45kDa |
| GO | blood circulation | 4 | 45 | 0.3702364 | 94 | activin A receptor type II-like 1 |
| GO | regulation of G-protein coupled recep | 3 | 32 | 0.3755707 | 10268 | receptor (G protein-coupled) activity modifying protein 3 |
| GO | regulation of G-protein coupled recep | 3 | 32 | 0.3755707 | 6004 | regulator of G-protein signaling 16 |
| GO | regulation of G-protein coupled recep | 3 | 32 | 0.3755707 | 8786 | regulator of G-protein signaling 11 |
| GO | peptide binding | 3 | 32 | 0.3755707 | 1508 | cathepsin B |
| GO | peptide binding | 3 | 32 | 0.3755707 | 1803 | dipeptidyl-peptidase 4 |
| GO | peptide binding | 3 | 32 | 0.3755707 | 9971 | nuclear receptor subfamily 1, group H, member 4 |
| GO | peptidyl-tyrosine phosphorylation | 3 | 32 | 0.3755707 | 2066 | v-erb-a erythroblastic leukemia viral oncogene homolog 4 (avian) |
| GO | peptidyl-tyrosine phosphorylation | 3 | 32 | 0.3755707 | 3643 | insulin receptor |
| GO | peptidyl-tyrosine phosphorylation | 3 | 32 | 0.3755707 | 3815 | v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog |
| GO | G2/M transition of mitotic cell cycle | 2 | 19 | 0.3764191 | 1785 | dynamin 2 |
| GO | G2/M transition of mitotic cell cycle | 2 | 19 | 0.3764191 | 5218 | cyclin-dependent kinase 14 |
| GO | negative regulation of adenylate cycl | 2 | 19 | 0.3764191 | 1813 | dopamine receptor D2 |
| GO | negative regulation of adenylate cycl | 2 | 19 | 0.3764191 | 1815 | dopamine receptor D4 |
| GO | patterning of blood vessels | 2 | 19 | 0.3764191 | 1906 | endothelin 1 |
| GO | patterning of blood vessels | 2 | 19 | 0.3764191 | 2303 | forkhead box C2 (MFH-1, mesenchyme forkhead 1) |
| GO | protein processing | 2 | 19 | 0.3764191 | 2737 | GLI family zinc finger 3 |
| GO | protein processing | 2 | 19 | 0.3764191 | 834 | caspase 1, apoptosis-related cysteine peptidase (interleukin 1, beta, co |
| GO | heterophilic cell-cell adhesion | 2 | 19 | 0.3764191 | 3678 | integrin, alpha 5 (fibronectin receptor, alpha polypeptide) |
| GO | heterophilic cell-cell adhesion | 2 | 19 | 0.3764191 | 57863 | cell adhesion molecule 3 |

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|---|---|---|---|---|---|---|
| GO | collagen catabolic process | 2 | 19 | 0.3764191 | 4316 | matrix metallopeptidase 7 (matrilysin, uterine) |
| GO | collagen catabolic process | 2 | 19 | 0.3764191 | 56547 | matrix metallopeptidase 26 |
| GO | cadherin binding | 2 | 19 | 0.3764191 | 5025 | purinergic receptor P2X, ligand-gated ion channel, 4 |
| GO | cadherin binding | 2 | 19 | 0.3764191 | 53827 | FXYD domain containing ion transport regulator 5 |
| GO | photoreceptor outer segment | 2 | 19 | 0.3764191 | 5132 | phosducin |
| GO | photoreceptor outer segment | 2 | 19 | 0.3764191 | 5873 | RAB27A, member RAS oncogene family |
| GO | regulation of synaptic plasticity | 2 | 19 | 0.3764191 | 5327 | plasminogen activator, tissue |
| GO | regulation of synaptic plasticity | 2 | 19 | 0.3764191 | 627 | brain-derived neurotrophic factor |
| GO | response to amino acid stimulus | 2 | 19 | 0.3764191 | 6750 | somatostatin |
| GO | response to amino acid stimulus | 2 | 19 | 0.3764191 | 8992 | ATPase, H+ transporting, lysosomal 9kDa, V0 subunit e1 |
| GO | lipid transporter activity | 2 | 19 | 0.3764191 | 80830 | apolipoprotein L, 6 |
| GO | lipid transporter activity | 2 | 19 | 0.3764191 | 80833 | apolipoprotein L, 3 |
| GO | cell migration | 5 | 59 | 0.3776571 | 27035 | NADPH oxidase 1 |
| GO | cell migration | 5 | 59 | 0.3776571 | 3911 | laminin, alpha 5 |
| GO | cell migration | 5 | 59 | 0.3776571 | 57147 | SCY1-like 3 (S. cerevisiae) |
| GO | cell migration | 5 | 59 | 0.3776571 | 7049 | transforming growth factor, beta receptor III |
| GO | cell migration | 5 | 59 | 0.3776571 | 83666 | poly (ADP-ribose) polymerase family, member 9 |
| GO | synaptic vesicle | 4 | 46 | 0.3860879 | 4886 | neuropeptide Y receptor Y1 |
| GO | synaptic vesicle | 4 | 46 | 0.3860879 | 6857 | synaptotagmin I |
| GO | synaptic vesicle | 4 | 46 | 0.3860879 | 9143 | synaptogyrin 3 |
| GO | synaptic vesicle | 4 | 46 | 0.3860879 | 9892 | synaptosomal-associated protein, 91kDa homolog (mouse) |
| GO | protein complex assembly | 8 | 101 | 0.3862097 | 10891 | peroxisome proliferator-activated receptor gamma, coactivator 1 alpha |
| GO | protein complex assembly | 8 | 101 | 0.3862097 | 4194 | Mdm4 p53 binding protein homolog (mouse) |
| GO | protein complex assembly | 8 | 101 | 0.3862097 | 5371 | promyelocytic leukemia |
| GO | protein complex assembly | 8 | 101 | 0.3862097 | 56288 | par-3 partitioning defective 3 homolog (C. elegans) |
| GO | protein complex assembly | 8 | 101 | 0.3862097 | 6850 | spleen tyrosine kinase |
| GO | protein complex assembly | 8 | 101 | 0.3862097 | 7106 | tetraspanin 4 |
| GO | protein complex assembly | 8 | 101 | 0.3862097 | 8673 | vesicle-associated membrane protein 8 (endobrevin) |
| GO | protein complex assembly | 8 | 101 | 0.3862097 | 9185 | RALBP1 associated Eps domain containing 2 |
| GO | protein trimerization | 1 | 7 | 0.3908275 | 10346 | tripartite motif-containing 22 |
| GO | adenosine deaminase activity | 1 | 7 | 0.3908275 | 104 | adenosine deaminase, RNA-specific, B1 (RED1 homolog rat) |
| GO | sodium:phosphate symporter activity | 1 | 7 | 0.3908275 | 10568 | solute carrier family 34 (sodium phosphate), member 2 |
| GO | folic acid transport | 1 | 7 | 0.3908275 | 113235 | solute carrier family 46 (folate transporter), member 1 |
| GO | long-chain fatty acid transport | 1 | 7 | 0.3908275 | 123 | perilipin 2 |
| GO | regulation of Cdc42 GTPase activity | 1 | 7 | 0.3908275 | 152273 | FYVE, RhoGEF and PH domain containing 5 |
| GO | adrenoceptor activity | 1 | 7 | 0.3908275 | 154 | adrenergic, beta-2-, receptor, surface |

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|---|---|---|---|---|---|---|
| GO | negative regulation of multicellular o | 1 | 7 | 0.3908275 | 154 | adrenergic, beta-2-, receptor, surface |
| GO | steroid hydroxylase activity | 1 | 7 | 0.3908275 | 1559 | cytochrome P450, family 2, subfamily C, polypeptide 9 |
| GO | ear development | 1 | 7 | 0.3908275 | 157506 | retinol dehydrogenase 10 (all-trans) |
| GO | adenohypophysis development | 1 | 7 | 0.3908275 | 1813 | dopamine receptor D2 |
| GO | positive regulation of cholesterol este | 1 | 7 | 0.3908275 | 183 | angiotensinogen (serpin peptidase inhibitor, clade A, member 8) |
| GO | positive regulation of heart rate | 1 | 7 | 0.3908275 | 1906 | endothelin 1 |
| GO | ephrin receptor signaling pathway | 1 | 7 | 0.3908275 | 1969 | EPH receptor A2 |
| GO | positive regulation of proteolysis | 1 | 7 | 0.3908275 | 2033 | E1A binding protein p300 |
| GO | neurofilament cytoskeleton organiza | 1 | 7 | 0.3908275 | 2055 | ceroid-lipofuscinosis, neuronal 8 (epilepsy, progressive with mental ret |
| GO | regulation of cell size | 1 | 7 | 0.3908275 | 2055 | ceroid-lipofuscinosis, neuronal 8 (epilepsy, progressive with mental ret |
| GO | surfactant homeostasis | 1 | 7 | 0.3908275 | 2066 | v-erb-a erythroblastic leukemia viral oncogene homolog 4 (avian) |
| GO | histone H4-K12 acetylation | 1 | 7 | 0.3908275 | 23338 | PHD finger protein 15 |
| GO | MOZ/MORF histone acetyltransferase | 1 | 7 | 0.3908275 | 23774 | bromodomain containing 1 |
| GO | alpha(1,3)-fucosyltransferase activity | 1 | 7 | 0.3908275 | 2526 | fucosyltransferase 4 (alpha (1,3) fucosyltransferase, myeloid-specific) |
| GO | negative regulation of catalytic activi | 1 | 7 | 0.3908275 | 255738 | proprotein convertase subtilisin/kexin type 9 |
| GO | superoxide-generating NADPH oxidas | 1 | 7 | 0.3908275 | 27035 | NADPH oxidase 1 |
| GO | enteric nervous system development | 1 | 7 | 0.3908275 | 3142 | H2.0-like homeobox |
| GO | regulation of cell-matrix adhesion | 1 | 7 | 0.3908275 | 3175 | one cut homeobox 1 |
| GO | prostate gland growth | 1 | 7 | 0.3908275 | 3479 | insulin-like growth factor 1 (somatomedin C) |
| GO | protein heterotetramerization | 1 | 7 | 0.3908275 | 3643 | insulin receptor |
| GO | receptor clustering | 1 | 7 | 0.3908275 | 375790 | agrin |
| GO | LRR domain binding | 1 | 7 | 0.3908275 | 3845 | v-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog |
| GO | laminin-1 complex | 1 | 7 | 0.3908275 | 3911 | laminin, alpha 5 |
| GO | type I transforming growth factor bet | 1 | 7 | 0.3908275 | 4087 | SMAD family member 2 |
| GO | sympathetic nervous system develop | 1 | 7 | 0.3908275 | 429 | achaete-scute complex homolog 1 (Drosophila) |
| GO | nucleosome disassembly | 1 | 7 | 0.3908275 | 4778 | nuclear factor (erythroid-derived 2), 45kDa |
| GO | citrate metabolic process | 1 | 7 | 0.3908275 | 48 | aconitase 1, soluble |
| GO | anagen | 1 | 7 | 0.3908275 | 4851 | Notch homolog 1, translocation-associated (Drosophila) |
| GO | morphogenesis of an epithelial sheet | 1 | 7 | 0.3908275 | 4853 | Notch homolog 2 (Drosophila) |
| GO | death | 1 | 7 | 0.3908275 | 4929 | nuclear receptor subfamily 4, group A, member 2 |
| GO | neuron maturation | 1 | 7 | 0.3908275 | 4929 | nuclear receptor subfamily 4, group A, member 2 |
| GO | extracellular ATP-gated cation chann | 1 | 7 | 0.3908275 | 5025 | purinergic receptor P2X, ligand-gated ion channel, 4 |
| GO | purinergic nucleotide receptor activit | 1 | 7 | 0.3908275 | 5025 | purinergic receptor P2X, ligand-gated ion channel, 4 |
| GO | glycoprotein metabolic process | 1 | 7 | 0.3908275 | 5046 | proprotein convertase subtilisin/kexin type 6 |
| GO | protein metabolic process | 1 | 7 | 0.3908275 | 5071 | Parkinson disease (autosomal recessive, juvenile) 2, parkin |
| GO | peptide biosynthetic process | 1 | 7 | 0.3908275 | 5122 | proprotein convertase subtilisin/kexin type 1 |

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|---|---|---|---|---|---|---|
| GO | semaphorin receptor activity | 1 | 7 | 0.3908275 | 5362 | plexin A2 |
| GO | DNA damage response, signal transd | 1 | 7 | 0.3908275 | 5371 | promyelocytic leukemia |
| GO | protein K48-linked deubiquitination | 1 | 7 | 0.3908275 | 55432 | YOD1 OTU deubiquinating enzyme 1 homolog (S. cerevisiae) |
| GO | negative regulation of cell-matrix ad | 1 | 7 | 0.3908275 | 604 | B-cell CLL/lymphoma 6 |
| GO | nerve development | 1 | 7 | 0.3908275 | 627 | brain-derived neurotrophic factor |
| GO | negative regulation of cell size | 1 | 7 | 0.3908275 | 64798 | DEP domain containing 6 |
| GO | glutamate binding | 1 | 7 | 0.3908275 | 6505 | solute carrier family 1 (neuronal/epithelial high affinity glutamate tran |
| GO | ankyrin binding | 1 | 7 | 0.3908275 | 6521 | solute carrier family 4, anion exchanger, member 1 (erythrocyte mem |
| GO | nuclear hormone receptor binding | 1 | 7 | 0.3908275 | 6604 | SWI/SNF related, matrix associated, actin dependent regulator of chro |
| GO | dynein binding | 1 | 7 | 0.3908275 | 6622 | synuclein, alpha (non A4 component of amyloid precursor) |
| GO | synaptic transmission, dopaminergic | 1 | 7 | 0.3908275 | 6622 | synuclein, alpha (non A4 component of amyloid precursor) |
| GO | synaptic vesicle endocytosis | 1 | 7 | 0.3908275 | 6622 | synuclein, alpha (non A4 component of amyloid precursor) |
| GO | response to mercury ion | 1 | 7 | 0.3908275 | 682 | basigin (Ok blood group) |
| GO | positive regulation of alpha-beta T ce | 1 | 7 | 0.3908275 | 6850 | spleen tyrosine kinase |
| GO | type II transforming growth factor be | 1 | 7 | 0.3908275 | 7049 | transforming growth factor, beta receptor III |
| GO | erythrocyte maturation | 1 | 7 | 0.3908275 | 7076 | TIMP metallopeptidase inhibitor 1 |
| GO | positive regulation of interleukin-10 | 1 | 7 | 0.3908275 | 7099 | toll-like receptor 4 |
| GO | positive regulation of interleukin-8 bi | 1 | 7 | 0.3908275 | 7099 | toll-like receptor 4 |
| GO | positive regulation of MHC class II bi | 1 | 7 | 0.3908275 | 7099 | toll-like receptor 4 |
| GO | response to molecule of bacterial ori | 1 | 7 | 0.3908275 | 7100 | toll-like receptor 5 |
| GO | membrane attack complex | 1 | 7 | 0.3908275 | 731 | complement component 8, alpha polypeptide |
| GO | AU-rich element binding | 1 | 7 | 0.3908275 | 7538 | zinc finger protein 36, C3H type, homolog (mouse) |
| GO | developmental pigmentation | 1 | 7 | 0.3908275 | 7546 | Zic family member 2 (odd-paired homolog, Drosophila) |
| GO | secretion | 1 | 7 | 0.3908275 | 760 | carbonic anhydrase II |
| GO | adult behavior | 1 | 7 | 0.3908275 | 8013 | nuclear receptor subfamily 4, group A, member 3 |
| GO | titin binding | 1 | 7 | 0.3908275 | 84033 | obscurin, cytoskeletal calmodulin and titin-interacting RhoGEF |
| GO | detection of mechanical stimulus inv | 1 | 7 | 0.3908275 | 84059 | G protein-coupled receptor 98 |
| GO | neurological system process | 1 | 7 | 0.3908275 | 84059 | G protein-coupled receptor 98 |
| GO | pentose-phosphate shunt | 1 | 7 | 0.3908275 | 9563 | hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase) |
| GO | positive regulation of cell-cell adhesi | 1 | 7 | 0.3908275 | 961 | CD47 molecule |
| GO | response to lipid | 1 | 7 | 0.3908275 | 9619 | ATP-binding cassette, sub-family G (WHITE), member 1 |
| GO | protein deacetylase activity | 1 | 7 | 0.3908275 | 9734 | histone deacetylase 9 |
| GO | mitochondrial outer membrane trans | 1 | 7 | 0.3908275 | 9804 | translocase of outer mitochondrial membrane 20 homolog (yeast) |
| GO | clathrin coat assembly | 1 | 7 | 0.3908275 | 9892 | synaptosomal-associated protein, 91kDa homolog (mouse) |
| GO | sister chromatid cohesion | 1 | 7 | 0.3908275 | 9985 | REC8 homolog (yeast) |
| GO | specific RNA polymerase II transcripti | 3 | 33 | 0.3945231 | 2353 | FBJ murine osteosarcoma viral oncogene homolog |

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|---|---|---|---|---|---|---|
| GO | specific RNA polymerase II transcripti | 3 | 33 | 0.3945231 | 3665 | interferon regulatory factor 7 |
| GO | specific RNA polymerase II transcripti | 3 | 33 | 0.3945231 | 4212 | Meis homeobox 2 |
| GO | endosome | 16 | 215 | 0.3992926 | 112 | adenylate cyclase 6 |
| GO | endosome | 16 | 215 | 0.3992926 | 154 | adrenergic, beta-2-, receptor, surface |
| GO | endosome | 16 | 215 | 0.3992926 | 25825 | beta-site APP-cleaving enzyme 2 |
| GO | endosome | 16 | 215 | 0.3992926 | 2642 | glucagon receptor |
| GO | endosome | 16 | 215 | 0.3992926 | 3643 | insulin receptor |
| GO | endosome | 16 | 215 | 0.3992926 | 3775 | potassium channel, subfamily K, member 1 |
| GO | endosome | 16 | 215 | 0.3992926 | 3949 | low density lipoprotein receptor |
| GO | endosome | 16 | 215 | 0.3992926 | 412 | steroid sulfatase (microsomal), isozyme S |
| GO | endosome | 16 | 215 | 0.3992926 | 50617 | ATPase, H+ transporting, lysosomal V0 subunit a4 |
| GO | endosome | 16 | 215 | 0.3992926 | 51272 | blocked early in transport 1 homolog (S. cerevisiae)-like |
| GO | endosome | 16 | 215 | 0.3992926 | 55275 | vacuolar protein sorting 53 homolog (S. cerevisiae) |
| GO | endosome | 16 | 215 | 0.3992926 | 57132 | chromatin modifying protein 1B |
| GO | endosome | 16 | 215 | 0.3992926 | 64083 | golgi phosphoprotein 3 (coat-protein) |
| GO | endosome | 16 | 215 | 0.3992926 | 7098 | toll-like receptor 3 |
| GO | endosome | 16 | 215 | 0.3992926 | 9182 | Ras association (RalGDS/AF-6) domain family (N-terminal) member 9 |
| GO | endosome | 16 | 215 | 0.3992926 | 9619 | ATP-binding cassette, sub-family G (WHITE), member 1 |
| GO | desmosome | 2 | 20 | 0.401252 | 11187 | plakophilin 3 |
| GO | desmosome | 2 | 20 | 0.401252 | 5318 | plakophilin 2 |
| GO | dendrite development | 2 | 20 | 0.401252 | 2182 | acyl-CoA synthetase long-chain family member 4 |
| GO | dendrite development | 2 | 20 | 0.401252 | 627 | brain-derived neurotrophic factor |
| GO | connexon complex | 2 | 20 | 0.401252 | 2706 | gap junction protein, beta 2, 26kDa |
| GO | connexon complex | 2 | 20 | 0.401252 | 2707 | gap junction protein, beta 3, 31kDa |
| GO | positive regulation of protein kinase | 2 | 20 | 0.401252 | 3643 | insulin receptor |
| GO | positive regulation of protein kinase | 2 | 20 | 0.401252 | 8600 | tumor necrosis factor (ligand) superfamily, member 11 |
| GO | response to radiation | 2 | 20 | 0.401252 | 3815 | v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog |
| GO | response to radiation | 2 | 20 | 0.401252 | 8600 | tumor necrosis factor (ligand) superfamily, member 11 |
| GO | neural crest cell migration | 2 | 20 | 0.401252 | 3911 | laminin, alpha 5 |
| GO | neural crest cell migration | 2 | 20 | 0.401252 | 4254 | KIT ligand |
| GO | phosphate metabolic process | 2 | 20 | 0.401252 | 5787 | protein tyrosine phosphatase, receptor type, B |
| GO | phosphate metabolic process | 2 | 20 | 0.401252 | 5789 | protein tyrosine phosphatase, receptor type, D |
| GO | neuron differentiation | 4 | 47 | 0.4018871 | 1969 | EPH receptor A2 |
| GO | neuron differentiation | 4 | 47 | 0.4018871 | 255738 | proprotein convertase subtilisin/kexin type 9 |
| GO | neuron differentiation | 4 | 47 | 0.4018871 | 2624 | GATA binding protein 2 |
| GO | neuron differentiation | 4 | 47 | 0.4018871 | 5801 | protein tyrosine phosphatase, receptor type, R |

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| GO | exocytosis | 4 | 47 | 0.4018871 | 2642 | glucagon receptor |
| GO | exocytosis | 4 | 47 | 0.4018871 | 375056 | melanoma inhibitory activity family, member 3 |
| GO | exocytosis | 4 | 47 | 0.4018871 | 3993 | lethal giant larvae homolog 2 (Drosophila) |
| GO | exocytosis | 4 | 47 | 0.4018871 | 5873 | RAB27A, member RAS oncogene family |
| GO | response to heat | 4 | 47 | 0.4018871 | 4842 | nitric oxide synthase 1 (neuronal) |
| GO | response to heat | 4 | 47 | 0.4018871 | 6750 | somatostatin |
| GO | response to heat | 4 | 47 | 0.4018871 | 9021 | suppressor of cytokine signaling 3 |
| GO | response to heat | 4 | 47 | 0.4018871 | 929 | CD14 molecule |
| GO | protein domain specific binding | 9 | 117 | 0.4068898 | 1822 | atrophin 1 |
| GO | protein domain specific binding | 9 | 117 | 0.4068898 | 399694 | SHC (Src homology 2 domain containing) family, member 4 |
| GO | protein domain specific binding | 9 | 117 | 0.4068898 | 4204 | methyl CpG binding protein 2 (Rett syndrome) |
| GO | protein domain specific binding | 9 | 117 | 0.4068898 | 5465 | peroxisome proliferator-activated receptor alpha |
| GO | protein domain specific binding | 9 | 117 | 0.4068898 | 5577 | protein kinase, cAMP-dependent, regulatory, type II, beta |
| GO | protein domain specific binding | 9 | 117 | 0.4068898 | 57132 | chromatin modifying protein 1B |
| GO | protein domain specific binding | 9 | 117 | 0.4068898 | 57524 | CASK interacting protein 1 |
| GO | protein domain specific binding | 9 | 117 | 0.4068898 | 6850 | spleen tyrosine kinase |
| GO | protein domain specific binding | 9 | 117 | 0.4068898 | 8660 | insulin receptor substrate 2 |
| GO | positive regulation of cell growth | 3 | 34 | 0.4133202 | 1839 | heparin-binding EGF-like growth factor |
| GO | positive regulation of cell growth | 3 | 34 | 0.4133202 | 3484 | insulin-like growth factor binding protein 1 |
| GO | positive regulation of cell growth | 3 | 34 | 0.4133202 | 952 | CD38 molecule |
| GO | platelet alpha granule lumen | 3 | 34 | 0.4133202 | 2153 | coagulation factor V (proaccelerin, labile factor) |
| GO | platelet alpha granule lumen | 3 | 34 | 0.4133202 | 22915 | multimerin 1 |
| GO | platelet alpha granule lumen | 3 | 34 | 0.4133202 | 3479 | insulin-like growth factor 1 (somatomedin C) |
| GO | receptor signaling protein activity | 3 | 34 | 0.4133202 | 23767 | fibronectin leucine rich transmembrane protein 3 |
| GO | receptor signaling protein activity | 3 | 34 | 0.4133202 | 573 | BCL2-associated athanogene |
| GO | receptor signaling protein activity | 3 | 34 | 0.4133202 | 8519 | interferon induced transmembrane protein 1 (9-27) |
| GO | presynaptic membrane | 3 | 34 | 0.4133202 | 2911 | glutamate receptor, metabotropic 1 |
| GO | presynaptic membrane | 3 | 34 | 0.4133202 | 6857 | synaptotagmin I |
| GO | presynaptic membrane | 3 | 34 | 0.4133202 | 9892 | synaptosomal-associated protein, 91kDa homolog (mouse) |
| GO | visual perception | 14 | 189 | 0.417461 | 157506 | retinol dehydrogenase 10 (all-trans) |
| GO | visual perception | 14 | 189 | 0.417461 | 23418 | crumbs homolog 1 (Drosophila) |
| GO | visual perception | 14 | 189 | 0.417461 | 368 | ATP-binding cassette, sub-family C (CFTR/MRP), member 6 |
| GO | visual perception | 14 | 189 | 0.417461 | 3983 | actin binding LIM protein 1 |
| GO | visual perception | 14 | 189 | 0.417461 | 5132 | phosducin |
| GO | visual perception | 14 | 189 | 0.417461 | 5158 | phosphodiesterase 6B, cGMP-specific, rod, beta |
| GO | visual perception | 14 | 189 | 0.417461 | 6004 | regulator of G-protein signaling 16 |

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|---|---|---|---|---|---|---|
| GO | visual perception | 14 | 189 | 0.417461 | 6096 | RAR-related orphan receptor B |
| GO | visual perception | 14 | 189 | 0.417461 | 6101 | retinitis pigmentosa 1 (autosomal dominant) |
| GO | visual perception | 14 | 189 | 0.417461 | 783 | calcium channel, voltage-dependent, beta 2 subunit |
| GO | visual perception | 14 | 189 | 0.417461 | 83394 | PITPNM family member 3 |
| GO | visual perception | 14 | 189 | 0.417461 | 83872 | hemicentin 1 |
| GO | visual perception | 14 | 189 | 0.417461 | 8842 | prominin 1 |
| GO | visual perception | 14 | 189 | 0.417461 | 93589 | calcium channel, voltage-dependent, alpha 2/delta subunit 4 |
| GO | serine-type peptidase activity | 4 | 48 | 0.4176107 | 10942 | protease, serine, 21 (testisin) |
| GO | serine-type peptidase activity | 4 | 48 | 0.4176107 | 1803 | dipeptidyl-peptidase 4 |
| GO | serine-type peptidase activity | 4 | 48 | 0.4176107 | 5655 | kallikrein-related peptidase 10 |
| GO | serine-type peptidase activity | 4 | 48 | 0.4176107 | 715 | complement component 1, r subcomponent |
| GO | integrin binding | 5 | 62 | 0.4191132 | 10085 | EGF-like repeats and discoidin I-like domains 3 |
| GO | integrin binding | 5 | 62 | 0.4191132 | 10516 | fibulin 5 |
| GO | integrin binding | 5 | 62 | 0.4191132 | 3678 | integrin, alpha 5 (fibronectin receptor, alpha polypeptide) |
| GO | integrin binding | 5 | 62 | 0.4191132 | 3911 | laminin, alpha 5 |
| GO | integrin binding | 5 | 62 | 0.4191132 | 6850 | spleen tyrosine kinase |
| GO | ATPase activity, coupled to transmem | 2 | 21 | 0.4256062 | 148229 | ATPase, class I, type 8B, member 3 |
| GO | ATPase activity, coupled to transmem | 2 | 21 | 0.4256062 | 79895 | ATPase, class I, type 8B, member 4 |
| GO | aromatase activity | 2 | 21 | 0.4256062 | 1558 | cytochrome P450, family 2, subfamily C, polypeptide 8 |
| GO | aromatase activity | 2 | 21 | 0.4256062 | 1577 | cytochrome P450, family 3, subfamily A, polypeptide 5 |
| GO | negative regulation of caspase activit | 2 | 21 | 0.4256062 | 3164 | nuclear receptor subfamily 4, group A, member 1 |
| GO | negative regulation of caspase activit | 2 | 21 | 0.4256062 | 6622 | synuclein, alpha (non A4 component of amyloid precursor) |
| GO | regulation of multicellular organism g | 2 | 21 | 0.4256062 | 3479 | insulin-like growth factor 1 (somatomedin C) |
| GO | regulation of multicellular organism g | 2 | 21 | 0.4256062 | 4886 | neuropeptide Y receptor Y1 |
| GO | defense response to virus | 2 | 21 | 0.4256062 | 3569 | interleukin 6 (interferon, beta 2) |
| GO | defense response to virus | 2 | 21 | 0.4256062 | 7098 | toll-like receptor 3 |
| GO | release of cytochrome c from mitoch | 2 | 21 | 0.4256062 | 3725 | jun oncogene |
| GO | release of cytochrome c from mitoch | 2 | 21 | 0.4256062 | 885 | cholecystokinin |
| GO | positive regulation of mesenchymal c | 2 | 21 | 0.4256062 | 5396 | paired related homeobox 1 |
| GO | positive regulation of mesenchymal c | 2 | 21 | 0.4256062 | 8660 | insulin receptor substrate 2 |
| GO | sensory perception of sound | 7 | 91 | 0.4301987 | 10253 | sprouty homolog 2 (Drosophila) |
| GO | sensory perception of sound | 7 | 91 | 0.4301987 | 2706 | gap junction protein, beta 2, 26kDa |
| GO | sensory perception of sound | 7 | 91 | 0.4301987 | 2707 | gap junction protein, beta 3, 31kDa |
| GO | sensory perception of sound | 7 | 91 | 0.4301987 | 50617 | ATPase, H+ transporting, lysosomal V0 subunit a4 |
| GO | sensory perception of sound | 7 | 91 | 0.4301987 | 51168 | myosin XVA |
| GO | sensory perception of sound | 7 | 91 | 0.4301987 | 53405 | chloride intracellular channel 5 |

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|---|---|---|---|---|---|---|
| GO | sensory perception of sound | 7 | 91 | 0.4301987 | 84059 | G protein-coupled receptor 98 |
| GO | induction of apoptosis by extracellula | 7 | 91 | 0.4301987 | 1612 | death-associated protein kinase 1 |
| GO | induction of apoptosis by extracellula | 7 | 91 | 0.4301987 | 23263 | MCF.2 cell line derived transforming sequence-like |
| GO | induction of apoptosis by extracellula | 7 | 91 | 0.4301987 | 23365 | Rho guanine nucleotide exchange factor (GEF) 12 |
| GO | induction of apoptosis by extracellula | 7 | 91 | 0.4301987 | 3429 | interferon, alpha-inducible protein 27 |
| GO | induction of apoptosis by extracellula | 7 | 91 | 0.4301987 | 84033 | obscurin, cytoskeletal calmodulin and titin-interacting RhoGEF |
| GO | induction of apoptosis by extracellula | 7 | 91 | 0.4301987 | 9459 | Rac/Cdc42 guanine nucleotide exchange factor (GEF) 6 |
| GO | induction of apoptosis by extracellula | 7 | 91 | 0.4301987 | 952 | CD38 molecule |
| GO | negative regulation of transcription | 11 | 148 | 0.431903 | 10076 | protein tyrosine phosphatase, receptor type, U |
| GO | negative regulation of transcription | 11 | 148 | 0.431903 | 127343 | diencephalon/mesencephalon homeobox 1 |
| GO | negative regulation of transcription | 11 | 148 | 0.431903 | 2122 | MDS1 and EVI1 complex locus |
| GO | negative regulation of transcription | 11 | 148 | 0.431903 | 2737 | GLI family zinc finger 3 |
| GO | negative regulation of transcription | 11 | 148 | 0.431903 | 3400 | inhibitor of DNA binding 4, dominant negative helix-loop-helix protein |
| GO | negative regulation of transcription | 11 | 148 | 0.431903 | 4204 | methyl CpG binding protein 2 (Rett syndrome) |
| GO | negative regulation of transcription | 11 | 148 | 0.431903 | 5187 | period homolog 1 (Drosophila) |
| GO | negative regulation of transcription | 11 | 148 | 0.431903 | 5371 | promyelocytic leukemia |
| GO | negative regulation of transcription | 11 | 148 | 0.431903 | 652 | bone morphogenetic protein 4 |
| GO | negative regulation of transcription | 11 | 148 | 0.431903 | 84911 | zinc finger protein 382 |
| GO | negative regulation of transcription | 11 | 148 | 0.431903 | 9734 | histone deacetylase 9 |
| GO | transmembrane receptor protein tyro | 3 | 35 | 0.4319277 | 1969 | EPH receptor A2 |
| GO | transmembrane receptor protein tyro | 3 | 35 | 0.4319277 | 2066 | v-erb-a erythroblastic leukemia viral oncogene homolog 4 (avian) |
| GO | transmembrane receptor protein tyro | 3 | 35 | 0.4319277 | 4915 | neurotrophic tyrosine kinase, receptor, type 2 |
| GO | acute-phase response | 3 | 35 | 0.4319277 | 23780 | apolipoprotein L, 2 |
| GO | acute-phase response | 3 | 35 | 0.4319277 | 3569 | interleukin 6 (interferon, beta 2) |
| GO | acute-phase response | 3 | 35 | 0.4319277 | 3570 | interleukin 6 receptor |
| GO | excretion | 3 | 35 | 0.4319277 | 50617 | ATPase, H+ transporting, lysosomal V0 subunit a4 |
| GO | excretion | 3 | 35 | 0.4319277 | 81693 | amnionless homolog (mouse) |
| GO | excretion | 3 | 35 | 0.4319277 | 8645 | potassium channel, subfamily K, member 5 |
| GO | U12-type spliceosomal complex | 1 | 8 | 0.4324787 | 10081 | programmed cell death 7 |
| GO | poly(A) RNA binding | 1 | 8 | 0.4324787 | 11030 | RNA binding protein with multiple splicing |
| GO | creatine metabolic process | 1 | 8 | 0.4324787 | 1152 | creatine kinase, brain |
| GO | triglyceride catabolic process | 1 | 8 | 0.4324787 | 1373 | carbamoyl-phosphate synthetase 1, mitochondrial |
| GO | retinoid binding | 1 | 8 | 0.4324787 | 1382 | cellular retinoic acid binding protein 2 |
| GO | positive regulation of cell-matrix adh | 1 | 8 | 0.4324787 | 1435 | colony stimulating factor 1 (macrophage) |
| GO | regulation of catalytic activity | 1 | 8 | 0.4324787 | 1508 | cathepsin B |
| GO | small GTPase binding | 1 | 8 | 0.4324787 | 152273 | FYVE, RhoGEF and PH domain containing 5 |

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|---|---|---|---|---|---|---|
| GO | sexual reproduction | 1 | 8 | 0.4324787 | 158800 | Rhox homeobox family, member 1 |
| GO | negative regulation of protein kinase | 1 | 8 | 0.4324787 | 1813 | dopamine receptor D2 |
| GO | prepulse inhibition | 1 | 8 | 0.4324787 | 1813 | dopamine receptor D2 |
| GO | dopamine receptor signaling pathwa | 1 | 8 | 0.4324787 | 1815 | dopamine receptor D4 |
| GO | response to salt stress | 1 | 8 | 0.4324787 | 183 | angiotensinogen (serpin peptidase inhibitor, clade A, member 8) |
| GO | non-membrane spanning protein tyr | 1 | 8 | 0.4324787 | 1843 | dual specificity phosphatase 1 |
| GO | ephrin receptor binding | 1 | 8 | 0.4324787 | 1948 | ephrin-B2 |
| GO | tail morphogenesis | 1 | 8 | 0.4324787 | 1969 | EPH receptor A2 |
| GO | protein-DNA complex | 1 | 8 | 0.4324787 | 2033 | E1A binding protein p300 |
| GO | adenylate kinase activity | 1 | 8 | 0.4324787 | 205 | adenylate kinase 3-like 1 |
| GO | GABA receptor binding | 1 | 8 | 0.4324787 | 22906 | trafficking protein, kinesin binding 1 |
| GO | histone H4-K16 acetylation | 1 | 8 | 0.4324787 | 23338 | PHD finger protein 15 |
| GO | clathrin binding | 1 | 8 | 0.4324787 | 26119 | low density lipoprotein receptor adaptor protein 1 |
| GO | protein homotrimerization | 1 | 8 | 0.4324787 | 286133 | scavenger receptor class A, member 5 (putative) |
| GO | tumor necrosis factor-mediated sign | 1 | 8 | 0.4324787 | 29108 | PYD and CARD domain containing |
| GO | protein destabilization | 1 | 8 | 0.4324787 | 29116 | myosin regulatory light chain interacting protein |
| GO | histidine catabolic process | 1 | 8 | 0.4324787 | 3034 | histidine ammonia-lyase |
| GO | antigen processing and presentation | 1 | 8 | 0.4324787 | 3134 | major histocompatibility complex, class I, F |
| GO | positive regulation of JAK-STAT casca | 1 | 8 | 0.4324787 | 3569 | interleukin 6 (interferon, beta 2) |
| GO | male sex determination | 1 | 8 | 0.4324787 | 3643 | insulin receptor |
| GO | synapse organization | 1 | 8 | 0.4324787 | 375790 | agrin |
| GO | epithelial cell proliferation | 1 | 8 | 0.4324787 | 3815 | v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog |
| GO | intestinal cholesterol absorption | 1 | 8 | 0.4324787 | 3949 | low density lipoprotein receptor |
| GO | embryonic hemopoiesis | 1 | 8 | 0.4324787 | 4005 | LIM domain only 2 (rhombotin-like 1) |
| GO | co-SMAD binding | 1 | 8 | 0.4324787 | 4087 | SMAD family member 2 |
| GO | SMAD protein complex assembly | 1 | 8 | 0.4324787 | 4087 | SMAD family member 2 |
| GO | neurotransmitter catabolic process | 1 | 8 | 0.4324787 | 4128 | monoamine oxidase A |
| GO | heterochromatin | 1 | 8 | 0.4324787 | 4204 | methyl CpG binding protein 2 (Rett syndrome) |
| GO | response to lithium ion | 1 | 8 | 0.4324787 | 429 | achaete-scute complex homolog 1 (Drosophila) |
| GO | hemostasis | 1 | 8 | 0.4324787 | 4778 | nuclear factor (erythroid-derived 2), 45kDa |
| GO | nuclear localization sequence binding | 1 | 8 | 0.4324787 | 4792 | nuclear factor of kappa light polypeptide gene enhancer in B-cells inhib |
| GO | positive regulation of cholesterol effl | 1 | 8 | 0.4324787 | 4792 | nuclear factor of kappa light polypeptide gene enhancer in B-cells inhib |
| GO | arginine catabolic process | 1 | 8 | 0.4324787 | 4842 | nitric oxide synthase 1 (neuronal) |
| GO | central nervous system projection ne | 1 | 8 | 0.4324787 | 4929 | nuclear receptor subfamily 4, group A, member 2 |
| GO | hydrogen-exporting ATPase activity, | 1 | 8 | 0.4324787 | 50617 | ATPase, H+ transporting, lysosomal V0 subunit a4 |
| GO | phospholipase inhibitor activity | 1 | 8 | 0.4324787 | 5132 | phosducin |

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| GO | response to sucrose stimulus | 1 | 8 | 0.4324787 | 51703 | acyl-CoA synthetase long-chain family member 5 |
| GO | cyclin binding | 1 | 8 | 0.4324787 | 5218 | cyclin-dependent kinase 14 |
| GO | pharyngeal system development | 1 | 8 | 0.4324787 | 5362 | plexin A2 |
| GO | RNA polymerase II transcription elon | 1 | 8 | 0.4324787 | 55140 | elongation protein 3 homolog (S. cerevisiae) |
| GO | transferase activity, transferring nitr | 1 | 8 | 0.4324787 | 55304 | serine palmitoyltransferase, long chain base subunit 3 |
| GO | protein K63-linked deubiquitination | 1 | 8 | 0.4324787 | 55432 | YOD1 OTU deubiquinating enzyme 1 homolog (S. cerevisiae) |
| GO | sodium:dicarboxylate symporter acti | 1 | 8 | 0.4324787 | 6505 | solute carrier family 1 (neuronal/epithelial high affinity glutamate tran |
| GO | hemopoietic progenitor cell different | 1 | 8 | 0.4324787 | 652 | bone morphogenetic protein 4 |
| GO | membrane-bounded vesicle | 1 | 8 | 0.4324787 | 652 | bone morphogenetic protein 4 |
| GO | protein localization in nucleus | 1 | 8 | 0.4324787 | 652 | bone morphogenetic protein 4 |
| GO | SNARE binding | 1 | 8 | 0.4324787 | 6812 | syntaxin binding protein 1 |
| GO | antioxidant activity | 1 | 8 | 0.4324787 | 7001 | peroxiredoxin 2 |
| GO | immunoglobulin mediated immune r | 1 | 8 | 0.4324787 | 7099 | toll-like receptor 4 |
| GO | cellular protein localization | 1 | 8 | 0.4324787 | 7474 | wingless-type MMTV integration site family, member 5A |
| GO | diacylglycerol binding | 1 | 8 | 0.4324787 | 8527 | diacylglycerol kinase, delta 130kDa |
| GO | intrinsic to membrane | 1 | 8 | 0.4324787 | 8542 | apolipoprotein L, 1 |
| GO | transmembrane receptor protein ser | 1 | 8 | 0.4324787 | 91 | activin A receptor, type IB |
| GO | phosphatidylcholine binding | 1 | 8 | 0.4324787 | 91404 | SEC14 and spectrin domains 1 |
| GO | negative regulation of bone resorpti | 1 | 8 | 0.4324787 | 952 | CD38 molecule |
| GO | amyloid precursor protein catabolic | 1 | 8 | 0.4324787 | 9619 | ATP-binding cassette, sub-family G (WHITE), member 1 |
| GO | actin monomer binding | 1 | 8 | 0.4324787 | 9788 | metastasis suppressor 1 |
| GO | cell redox homeostasis | 5 | 63 | 0.432841 | 1193 | chloride intracellular channel 2 |
| GO | cell redox homeostasis | 5 | 63 | 0.432841 | 51314 | thioredoxin domain containing 3 (spermatozoa) |
| GO | cell redox homeostasis | 5 | 63 | 0.432841 | 5768 | quiescin Q6 sulfhydryl oxidase 1 |
| GO | cell redox homeostasis | 5 | 63 | 0.432841 | 64359 | nucleoredoxin |
| GO | cell redox homeostasis | 5 | 63 | 0.432841 | 7001 | peroxiredoxin 2 |
| GO | PDZ domain binding | 4 | 49 | 0.4332369 | 1080 | cystic fibrosis transmembrane conductance regulator (ATP-binding cas |
| GO | PDZ domain binding | 4 | 49 | 0.4332369 | 5071 | Parkinson disease (autosomal recessive, juvenile) 2, parkin |
| GO | PDZ domain binding | 4 | 49 | 0.4332369 | 7049 | transforming growth factor, beta receptor III |
| GO | PDZ domain binding | 4 | 49 | 0.4332369 | 9722 | nitric oxide synthase 1 (neuronal) adaptor protein |
| GO | caveola | 4 | 49 | 0.4332369 | 1508 | cathepsin B |
| GO | caveola | 4 | 49 | 0.4332369 | 2066 | v-erb-a erythroblastic leukemia viral oncogene homolog 4 (avian) |
| GO | caveola | 4 | 49 | 0.4332369 | 3643 | insulin receptor |
| GO | caveola | 4 | 49 | 0.4332369 | 3949 | low density lipoprotein receptor |
| GO | response to unfolded protein | 4 | 49 | 0.4332369 | 26270 | F-box protein 6 |
| GO | response to unfolded protein | 4 | 49 | 0.4332369 | 3306 | heat shock 70kDa protein 2 |

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| GO | response to unfolded protein | 4 | 49 | 0.4332369 | 55432 | YOD1 OTU deubiquinating enzyme 1 homolog (S. cerevisiae) |
| GO | response to unfolded protein | 4 | 49 | 0.4332369 | 90993 | cAMP responsive element binding protein 3-like 1 |
| GO | protein serine/threonine kinase activ | 24 | 335 | 0.4358063 | 10769 | polo-like kinase 2 (Drosophila) |
| GO | protein serine/threonine kinase activ | 24 | 335 | 0.4358063 | 11200 | CHK2 checkpoint homolog (S. pombe) |
| GO | protein serine/threonine kinase activ | 24 | 335 | 0.4358063 | 11213 | interleukin-1 receptor-associated kinase 3 |
| GO | protein serine/threonine kinase activ | 24 | 335 | 0.4358063 | 127933 | U2AF homology motif (UHM) kinase 1 |
| GO | protein serine/threonine kinase activ | 24 | 335 | 0.4358063 | 130399 | activin A receptor, type IC |
| GO | protein serine/threonine kinase activ | 24 | 335 | 0.4358063 | 140901 | serine/threonine kinase 35 |
| GO | protein serine/threonine kinase activ | 24 | 335 | 0.4358063 | 150094 | salt-inducible kinase 1 |
| GO | protein serine/threonine kinase activ | 24 | 335 | 0.4358063 | 1612 | death-associated protein kinase 1 |
| GO | protein serine/threonine kinase activ | 24 | 335 | 0.4358063 | 23043 | TRAF2 and NCK interacting kinase |
| GO | protein serine/threonine kinase activ | 24 | 335 | 0.4358063 | 23387 | SIK family kinase 3 |
| GO | protein serine/threonine kinase activ | 24 | 335 | 0.4358063 | 28996 | homeodomain interacting protein kinase 2 |
| GO | protein serine/threonine kinase activ | 24 | 335 | 0.4358063 | 375449 | microtubule associated serine/threonine kinase family member 4 |
| GO | protein serine/threonine kinase activ | 24 | 335 | 0.4358063 | 415116 | pim-3 oncogene |
| GO | protein serine/threonine kinase activ | 24 | 335 | 0.4358063 | 4293 | mitogen-activated protein kinase kinase kinase 9 |
| GO | protein serine/threonine kinase activ | 24 | 335 | 0.4358063 | 5063 | p21 protein (Cdc42/Rac)-activated kinase 3 |
| GO | protein serine/threonine kinase activ | 24 | 335 | 0.4358063 | 5129 | cyclin-dependent kinase 18 |
| GO | protein serine/threonine kinase activ | 24 | 335 | 0.4358063 | 5608 | mitogen-activated protein kinase kinase 6 |
| GO | protein serine/threonine kinase activ | 24 | 335 | 0.4358063 | 6446 | serum/glucocorticoid regulated kinase 1 |
| GO | protein serine/threonine kinase activ | 24 | 335 | 0.4358063 | 81788 | NUAK family, SNF1-like kinase, 2 |
| GO | protein serine/threonine kinase activ | 24 | 335 | 0.4358063 | 84033 | obscurin, cytoskeletal calmodulin and titin-interacting RhoGEF |
| GO | protein serine/threonine kinase activ | 24 | 335 | 0.4358063 | 9064 | mitogen-activated protein kinase kinase kinase 6 |
| GO | protein serine/threonine kinase activ | 24 | 335 | 0.4358063 | 91 | activin A receptor, type IB |
| GO | protein serine/threonine kinase activ | 24 | 335 | 0.4358063 | 9263 | serine/threonine kinase 17a |
| GO | protein serine/threonine kinase activ | 24 | 335 | 0.4358063 | 94 | activin A receptor type II-like 1 |
| GO | nuclear envelope | 7 | 92 | 0.4415374 | 240 | arachidonate 5-lipoxygenase |
| GO | nuclear envelope | 7 | 92 | 0.4415374 | 311 | annexin A11 |
| GO | nuclear envelope | 7 | 92 | 0.4415374 | 4056 | leukotriene C4 synthase |
| GO | nuclear envelope | 7 | 92 | 0.4415374 | 412 | steroid sulfatase (microsomal), isozyme S |
| GO | nuclear envelope | 7 | 92 | 0.4415374 | 54894 | ring finger protein 43 |
| GO | nuclear envelope | 7 | 92 | 0.4415374 | 5742 | prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase a |
| GO | nuclear envelope | 7 | 92 | 0.4415374 | 93273 | LEM domain containing 1 |
| GO | protein tyrosine kinase activity | 6 | 78 | 0.4440413 | 2263 | fibroblast growth factor receptor 2 |
| GO | protein tyrosine kinase activity | 6 | 78 | 0.4440413 | 3643 | insulin receptor |
| GO | protein tyrosine kinase activity | 6 | 78 | 0.4440413 | 3815 | v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog |

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|---|---|---|---|---|---|---|
| GO | protein tyrosine kinase activity | 6 | 78 | 0.4440413 | 5608 | mitogen-activated protein kinase kinase 6 |
| GO | protein tyrosine kinase activity | 6 | 78 | 0.4440413 | 6850 | spleen tyrosine kinase |
| GO | protein tyrosine kinase activity | 6 | 78 | 0.4440413 | 84033 | obscurin, cytoskeletal calmodulin and titin-interacting RhoGEF |
| GO | hormone-mediated signaling pathwa | 4 | 50 | 0.4487451 | 112 | adenylate cyclase 6 |
| GO | hormone-mediated signaling pathwa | 4 | 50 | 0.4487451 | 2642 | glucagon receptor |
| GO | hormone-mediated signaling pathwa | 4 | 50 | 0.4487451 | 5577 | protein kinase, cAMP-dependent, regulatory, type II, beta |
| GO | hormone-mediated signaling pathwa | 4 | 50 | 0.4487451 | 5972 | renin |
| GO | small GTPase mediated signal transdu | 14 | 193 | 0.4487475 | 115273 | RAB42, member RAS oncogene family |
| GO | small GTPase mediated signal transdu | 14 | 193 | 0.4487475 | 23179 | ral guanine nucleotide dissociation stimulator-like 1 |
| GO | small GTPase mediated signal transdu | 14 | 193 | 0.4487475 | 23682 | RAB38, member RAS oncogene family |
| GO | small GTPase mediated signal transdu | 14 | 193 | 0.4487475 | 25837 | RAB26, member RAS oncogene family |
| GO | small GTPase mediated signal transdu | 14 | 193 | 0.4487475 | 379 | ADP-ribosylation factor-like 4D |
| GO | small GTPase mediated signal transdu | 14 | 193 | 0.4487475 | 3845 | v-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog |
| GO | small GTPase mediated signal transdu | 14 | 193 | 0.4487475 | 387496 | RAS-like, family 11, member A |
| GO | small GTPase mediated signal transdu | 14 | 193 | 0.4487475 | 51285 | RAS-like, family 12 |
| GO | small GTPase mediated signal transdu | 14 | 193 | 0.4487475 | 51655 | RAS, dexamethasone-induced 1 |
| GO | small GTPase mediated signal transdu | 14 | 193 | 0.4487475 | 54769 | DIRAS family, GTP-binding RAS-like 2 |
| GO | small GTPase mediated signal transdu | 14 | 193 | 0.4487475 | 57799 | RAB40C, member RAS oncogene family |
| GO | small GTPase mediated signal transdu | 14 | 193 | 0.4487475 | 5873 | RAB27A, member RAS oncogene family |
| GO | small GTPase mediated signal transdu | 14 | 193 | 0.4487475 | 5900 | ral guanine nucleotide dissociation stimulator |
| GO | small GTPase mediated signal transdu | 14 | 193 | 0.4487475 | 85004 | RAS-like, estrogen-regulated, growth inhibitor |
| GO | microvillus | 2 | 22 | 0.449431 | 1080 | cystic fibrosis transmembrane conductance regulator (ATP-binding cas |
| GO | microvillus | 2 | 22 | 0.449431 | 760 | carbonic anhydrase II |
| GO | calcium-independent cell-cell adhesio | 2 | 22 | 0.449431 | 1364 | claudin 4 |
| GO | calcium-independent cell-cell adhesio | 2 | 22 | 0.449431 | 9071 | claudin 10 |
| GO | photoreceptor cell maintenance | 2 | 22 | 0.449431 | 2055 | ceroid-lipofuscinosis, neuronal 8 (epilepsy, progressive with mental ret |
| GO | photoreceptor cell maintenance | 2 | 22 | 0.449431 | 84059 | G protein-coupled receptor 98 |
| GO | placenta development | 2 | 22 | 0.449431 | 2707 | gap junction protein, beta 3, 31kDa |
| GO | placenta development | 2 | 22 | 0.449431 | 6256 | retinoid X receptor, alpha |
| GO | pigmentation | 2 | 22 | 0.449431 | 4286 | microphthalmia-associated transcription factor |
| GO | pigmentation | 2 | 22 | 0.449431 | 5873 | RAB27A, member RAS oncogene family |
| GO | eating behavior | 2 | 22 | 0.449431 | 4889 | neuropeptide Y receptor Y5 |
| GO | eating behavior | 2 | 22 | 0.449431 | 885 | cholecystokinin |
| GO | histone-lysine N-methyltransferase a | 2 | 22 | 0.449431 | 54904 | Wolf-Hirschhorn syndrome candidate 1-like 1 |
| GO | histone-lysine N-methyltransferase a | 2 | 22 | 0.449431 | 55870 | ash1 (absent, small, or homeotic)-like (Drosophila) |
| GO | transport | 36 | 511 | 0.4498762 | 1080 | cystic fibrosis transmembrane conductance regulator (ATP-binding cas |

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|---|---|---|---|---|---|---|
| GO | transport | 36 | 511 | 0.4498762 | 1193 | chloride intracellular channel 2 |
| GO | transport | 36 | 511 | 0.4498762 | 1382 | cellular retinoic acid binding protein 2 |
| GO | transport | 36 | 511 | 0.4498762 | 143425 | synaptotagmin IX |
| GO | transport | 36 | 511 | 0.4498762 | 23208 | synaptotagmin XI |
| GO | transport | 36 | 511 | 0.4498762 | 2564 | gamma-aminobutyric acid (GABA) A receptor, epsilon |
| GO | transport | 36 | 511 | 0.4498762 | 26119 | low density lipoprotein receptor adaptor protein 1 |
| GO | transport | 36 | 511 | 0.4498762 | 2706 | gap junction protein, beta 2, 26kDa |
| GO | transport | 36 | 511 | 0.4498762 | 28982 | feline leukemia virus subgroup C cellular receptor 1 |
| GO | transport | 36 | 511 | 0.4498762 | 368 | ATP-binding cassette, sub-family C (CFTR/MRP), member 6 |
| GO | transport | 36 | 511 | 0.4498762 | 3709 | inositol 1,4,5-triphosphate receptor, type 2 |
| GO | transport | 36 | 511 | 0.4498762 | 4151 | myoglobin |
| GO | transport | 36 | 511 | 0.4498762 | 493 | ATPase, Ca++ transporting, plasma membrane 4 |
| GO | transport | 36 | 511 | 0.4498762 | 5025 | purinergic receptor P2X, ligand-gated ion channel, 4 |
| GO | transport | 36 | 511 | 0.4498762 | 5243 | ATP-binding cassette, sub-family B (MDR/TAP), member 1 |
| GO | transport | 36 | 511 | 0.4498762 | 5244 | ATP-binding cassette, sub-family B (MDR/TAP), member 4 |
| GO | transport | 36 | 511 | 0.4498762 | 53405 | chloride intracellular channel 5 |
| GO | transport | 36 | 511 | 0.4498762 | 55068 | ecto-NOX disulfide-thiol exchanger 1 |
| GO | transport | 36 | 511 | 0.4498762 | 56172 | ankylosis, progressive homolog (mouse) |
| GO | transport | 36 | 511 | 0.4498762 | 56605 | ERO1-like beta (S. cerevisiae) |
| GO | transport | 36 | 511 | 0.4498762 | 5950 | retinol binding protein 4, plasma |
| GO | transport | 36 | 511 | 0.4498762 | 6505 | solute carrier family 1 (neuronal/epithelial high affinity glutamate tran |
| GO | transport | 36 | 511 | 0.4498762 | 6535 | solute carrier family 6 (neurotransmitter transporter, creatine), memb |
| GO | transport | 36 | 511 | 0.4498762 | 6542 | solute carrier family 7 (cationic amino acid transporter, y+ system), me |
| GO | transport | 36 | 511 | 0.4498762 | 6563 | solute carrier family 14 (urea transporter), member 1 (Kidd blood grou |
| GO | transport | 36 | 511 | 0.4498762 | 6564 | solute carrier family 15 (oligopeptide transporter), member 1 |
| GO | transport | 36 | 511 | 0.4498762 | 6565 | solute carrier family 15 (H+/peptide transporter), member 2 |
| GO | transport | 36 | 511 | 0.4498762 | 6857 | synaptotagmin I |
| GO | transport | 36 | 511 | 0.4498762 | 774 | calcium channel, voltage-dependent, N type, alpha 1B subunit |
| GO | transport | 36 | 511 | 0.4498762 | 783 | calcium channel, voltage-dependent, beta 2 subunit |
| GO | transport | 36 | 511 | 0.4498762 | 79152 | fatty acid 2-hydroxylase |
| GO | transport | 36 | 511 | 0.4498762 | 83394 | PITPNM family member 3 |
| GO | transport | 36 | 511 | 0.4498762 | 8671 | solute carrier family 4, sodium bicarbonate cotransporter, member 4 |
| GO | transport | 36 | 511 | 0.4498762 | 8911 | calcium channel, voltage-dependent, T type, alpha 1I subunit |
| GO | transport | 36 | 511 | 0.4498762 | 8912 | calcium channel, voltage-dependent, T type, alpha 1H subunit |
| GO | transport | 36 | 511 | 0.4498762 | 8973 | cholinergic receptor, nicotinic, alpha 6 |
| GO | cellular amino acid metabolic proces | 3 | 36 | 0.4503147 | 27165 | glutaminase 2 (liver, mitochondrial) |

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|---|---|---|---|---|---|---|
| GO | cellular amino acid metabolic process | 3 | 36 | 0.4503147 | 4524 | 5,10-methylenetetrahydrofolate reductase (NADPH) |
| GO | cellular amino acid metabolic process | 3 | 36 | 0.4503147 | 6542 | solute carrier family 7 (cationic amino acid transporter, y+ system), me |
| GO | I-kappaB kinase/NF-kappaB cascade | 3 | 36 | 0.4503147 | 7097 | toll-like receptor 2 |
| GO | I-kappaB kinase/NF-kappaB cascade | 3 | 36 | 0.4503147 | 7099 | toll-like receptor 4 |
| GO | I-kappaB kinase/NF-kappaB cascade | 3 | 36 | 0.4503147 | 7100 | toll-like receptor 5 |
| GO | perinuclear region of cytoplasm | 22 | 309 | 0.4530558 | 10335 | murine retrovirus integration site 1 homolog |
| GO | perinuclear region of cytoplasm | 22 | 309 | 0.4530558 | 11155 | LIM domain binding 3 |
| GO | perinuclear region of cytoplasm | 22 | 309 | 0.4530558 | 114569 | mal, T-cell differentiation protein 2 |
| GO | perinuclear region of cytoplasm | 22 | 309 | 0.4530558 | 1435 | colony stimulating factor 1 (macrophage) |
| GO | perinuclear region of cytoplasm | 22 | 309 | 0.4530558 | 1508 | cathepsin B |
| GO | perinuclear region of cytoplasm | 22 | 309 | 0.4530558 | 1540 | cylindromatosis (turban tumor syndrome) |
| GO | perinuclear region of cytoplasm | 22 | 309 | 0.4530558 | 255738 | proprotein convertase subtilisin/kexin type 9 |
| GO | perinuclear region of cytoplasm | 22 | 309 | 0.4530558 | 2589 | UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosami |
| GO | perinuclear region of cytoplasm | 22 | 309 | 0.4530558 | 4645 | myosin VB |
| GO | perinuclear region of cytoplasm | 22 | 309 | 0.4530558 | 4794 | nuclear factor of kappa light polypeptide gene enhancer in B-cells inhib |
| GO | perinuclear region of cytoplasm | 22 | 309 | 0.4530558 | 4842 | nitric oxide synthase 1 (neuronal) |
| GO | perinuclear region of cytoplasm | 22 | 309 | 0.4530558 | 5025 | purinergic receptor P2X, ligand-gated ion channel, 4 |
| GO | perinuclear region of cytoplasm | 22 | 309 | 0.4530558 | 5071 | Parkinson disease (autosomal recessive, juvenile) 2, parkin |
| GO | perinuclear region of cytoplasm | 22 | 309 | 0.4530558 | 5122 | proprotein convertase subtilisin/kexin type 1 |
| GO | perinuclear region of cytoplasm | 22 | 309 | 0.4530558 | 5152 | phosphodiesterase 9A |
| GO | perinuclear region of cytoplasm | 22 | 309 | 0.4530558 | 51655 | RAS, dexamethasone-induced 1 |
| GO | perinuclear region of cytoplasm | 22 | 309 | 0.4530558 | 5577 | protein kinase, cAMP-dependent, regulatory, type II, beta |
| GO | perinuclear region of cytoplasm | 22 | 309 | 0.4530558 | 57799 | RAB40C, member RAS oncogene family |
| GO | perinuclear region of cytoplasm | 22 | 309 | 0.4530558 | 5801 | protein tyrosine phosphatase, receptor type, R |
| GO | perinuclear region of cytoplasm | 22 | 309 | 0.4530558 | 6494 | signal-induced proliferation-associated 1 |
| GO | perinuclear region of cytoplasm | 22 | 309 | 0.4530558 | 7099 | toll-like receptor 4 |
| GO | perinuclear region of cytoplasm | 22 | 309 | 0.4530558 | 81544 | glycerophosphodiester phosphodiesterase domain containing 5 |
| GO | postsynaptic density | 6 | 79 | 0.4563248 | 1785 | dynamin 2 |
| GO | postsynaptic density | 6 | 79 | 0.4563248 | 2066 | v-erb-a erythroblastic leukemia viral oncogene homolog 4 (avian) |
| GO | postsynaptic density | 6 | 79 | 0.4563248 | 22859 | latrophilin 1 |
| GO | postsynaptic density | 6 | 79 | 0.4563248 | 2911 | glutamate receptor, metabotropic 1 |
| GO | postsynaptic density | 6 | 79 | 0.4563248 | 5025 | purinergic receptor P2X, ligand-gated ion channel, 4 |
| GO | postsynaptic density | 6 | 79 | 0.4563248 | 9892 | synaptosomal-associated protein, 91kDa homolog (mouse) |
| GO | nervous system development | 27 | 382 | 0.4569011 | 10439 | olfactomedin 1 |
| GO | nervous system development | 27 | 382 | 0.4569011 | 10507 | sema domain, immunoglobulin domain (Ig), transmembrane domain (T |
| GO | nervous system development | 27 | 382 | 0.4569011 | 10752 | cell adhesion molecule with homology to L1CAM (close homolog of L1) |

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|---|---|---|---|---|---|
| GO | nervous system development | 27 | 382 | 0.4569011 | 1948 ephrin-B2 |
| GO | nervous system development | 27 | 382 | 0.4569011 | 2033 E1A binding protein p300 |
| GO | nervous system development | 27 | 382 | 0.4569011 | 2055 ceroid-lipofuscinosis, neuronal 8 (epilepsy, progressive with mental ret |
| GO | nervous system development | 27 | 382 | 0.4569011 | 223117 sema domain, immunoglobulin domain (Ig), short basic domain, secret |
| GO | nervous system development | 27 | 382 | 0.4569011 | 23092 Rho GTPase activating protein 26 |
| GO | nervous system development | 27 | 382 | 0.4569011 | 2353 FBJ murine osteosarcoma viral oncogene homolog |
| GO | nervous system development | 27 | 382 | 0.4569011 | 26468 LIM homeobox 6 |
| GO | nervous system development | 27 | 382 | 0.4569011 | 29116 myosin regulatory light chain interacting protein |
| GO | nervous system development | 27 | 382 | 0.4569011 | 342035 gliomedin |
| GO | nervous system development | 27 | 382 | 0.4569011 | 3479 insulin-like growth factor 1 (somatomedin C) |
| GO | nervous system development | 27 | 382 | 0.4569011 | 4209 myocyte enhancer factor 2D |
| GO | nervous system development | 27 | 382 | 0.4569011 | 4692 necdin homolog (mouse) |
| GO | nervous system development | 27 | 382 | 0.4569011 | 4853 Notch homolog 2 (Drosophila) |
| GO | nervous system development | 27 | 382 | 0.4569011 | 4915 neurotrophic tyrosine kinase, receptor, type 2 |
| GO | nervous system development | 27 | 382 | 0.4569011 | 4929 nuclear receptor subfamily 4, group A, member 2 |
| GO | nervous system development | 27 | 382 | 0.4569011 | 55816 docking protein 5 |
| GO | nervous system development | 27 | 382 | 0.4569011 | 5801 protein tyrosine phosphatase, receptor type, R |
| GO | nervous system development | 27 | 382 | 0.4569011 | 627 brain-derived neurotrophic factor |
| GO | nervous system development | 27 | 382 | 0.4569011 | 6604 SWI/SNF related, matrix associated, actin dependent regulator of chro |
| GO | nervous system development | 27 | 382 | 0.4569011 | 81544 glycerophosphodiester phosphodiesterase domain containing 5 |
| GO | nervous system development | 27 | 382 | 0.4569011 | 84059 G protein-coupled receptor 98 |
| GO | nervous system development | 27 | 382 | 0.4569011 | 85416 Zic family member 5 (odd-paired homolog, Drosophila) |
| GO | nervous system development | 27 | 382 | 0.4569011 | 9445 integral membrane protein 2B |
| GO | nervous system development | 27 | 382 | 0.4569011 | 9615 guanine deaminase |
| GO | muscle organ development | 7 | 94 | 0.4640939 | 1839 heparin-binding EGF-like growth factor |
| GO | muscle organ development | 7 | 94 | 0.4640939 | 1960 early growth response 3 |
| GO | muscle organ development | 7 | 94 | 0.4640939 | 3479 insulin-like growth factor 1 (somatomedin C) |
| GO | muscle organ development | 7 | 94 | 0.4640939 | 3911 laminin, alpha 5 |
| GO | muscle organ development | 7 | 94 | 0.4640939 | 4209 myocyte enhancer factor 2D |
| GO | muscle organ development | 7 | 94 | 0.4640939 | 5463 POU class 6 homeobox 1 |
| GO | muscle organ development | 7 | 94 | 0.4640939 | 8912 calcium channel, voltage-dependent, T type, alpha 1H subunit |
| GO | cell projection | 7 | 94 | 0.4640939 | 2867 free fatty acid receptor 2 |
| GO | cell projection | 7 | 94 | 0.4640939 | 4842 nitric oxide synthase 1 (neuronal) |
| GO | cell projection | 7 | 94 | 0.4640939 | 51168 myosin XVA |
| GO | cell projection | 7 | 94 | 0.4640939 | 5152 phosphodiesterase 9A |
| GO | cell projection | 7 | 94 | 0.4640939 | 729993 shisa homolog 9 (Xenopus laevis) |

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|---|---|---|---|---|---|---|
| GO | cell projection | 7 | 94 | 0.4640939 | 81544 | glycerophosphodiester phosphodiesterase domain containing 5 |
| GO | cell projection | 7 | 94 | 0.4640939 | 8842 | prominin 1 |
| GO | regulation of growth | 4 | 51 | 0.4641161 | 10481 | homeobox B13 |
| GO | regulation of growth | 4 | 51 | 0.4641161 | 4692 | necdin homolog (mouse) |
| GO | regulation of growth | 4 | 51 | 0.4641161 | 51754 | transmembrane protein 8B |
| GO | regulation of growth | 4 | 51 | 0.4641161 | 9021 | suppressor of cytokine signaling 3 |
| GO | secretory granule | 4 | 51 | 0.4641161 | 1114 | chromogranin B (secretogranin 1) |
| GO | secretory granule | 4 | 51 | 0.4641161 | 5066 | peptidylglycine alpha-amidating monooxygenase |
| GO | secretory granule | 4 | 51 | 0.4641161 | 5122 | proprotein convertase subtilisin/kexin type 1 |
| GO | secretory granule | 4 | 51 | 0.4641161 | 5327 | plasminogen activator, tissue |
| GO | cartilage development | 3 | 37 | 0.4684532 | 1906 | endothelin 1 |
| GO | cartilage development | 3 | 37 | 0.4684532 | 5307 | paired-like homeodomain 1 |
| GO | cartilage development | 3 | 37 | 0.4684532 | 5396 | paired related homeobox 1 |
| GO | protein catabolic process | 3 | 37 | 0.4684532 | 2055 | ceroid-lipofuscinosis, neuronal 8 (epilepsy, progressive with mental ret |
| GO | protein catabolic process | 3 | 37 | 0.4684532 | 26232 | F-box protein 2 |
| GO | protein catabolic process | 3 | 37 | 0.4684532 | 26270 | F-box protein 6 |
| GO | protein localization at cell surface | 1 | 9 | 0.4712841 | 10076 | protein tyrosine phosphatase, receptor type, U |
| GO | androgen metabolic process | 1 | 9 | 0.4712841 | 10170 | dehydrogenase/reductase (SDR family) member 9 |
| GO | mitotic cell cycle | 1 | 9 | 0.4712841 | 10769 | polo-like kinase 2 (Drosophila) |
| GO | pseudopodium | 1 | 9 | 0.4712841 | 11155 | LIM domain binding 3 |
| GO | adult feeding behavior | 1 | 9 | 0.4712841 | 127343 | diencephalon/mesencephalon homeobox 1 |
| GO | dendrite cytoplasm | 1 | 9 | 0.4712841 | 127933 | U2AF homology motif (UHM) kinase 1 |
| GO | macrophage differentiation | 1 | 9 | 0.4712841 | 1435 | colony stimulating factor 1 (macrophage) |
| GO | histone monoubiquitination | 1 | 9 | 0.4712841 | 151636 | deltex 3-like (Drosophila) |
| GO | gonad development | 1 | 9 | 0.4712841 | 157506 | retinol dehydrogenase 10 (all-trans) |
| GO | lamellipodium membrane | 1 | 9 | 0.4712841 | 1803 | dipeptidyl-peptidase 4 |
| GO | positive regulation of JUN kinase acti | 1 | 9 | 0.4712841 | 1906 | endothelin 1 |
| GO | cellular response to reactive oxygen s | 1 | 9 | 0.4712841 | 2353 | FBJ murine osteosarcoma viral oncogene homolog |
| GO | sleep | 1 | 9 | 0.4712841 | 2353 | FBJ murine osteosarcoma viral oncogene homolog |
| GO | L-fucose catabolic process | 1 | 9 | 0.4712841 | 2526 | fucosyltransferase 4 (alpha (1,3) fucosyltransferase, myeloid-specific) |
| GO | positive regulation of receptor-media | 1 | 9 | 0.4712841 | 26119 | low density lipoprotein receptor adaptor protein 1 |
| GO | DNA damage response, signal transdu | 1 | 9 | 0.4712841 | 28996 | homeodomain interacting protein kinase 2 |
| GO | specific granule | 1 | 9 | 0.4712841 | 311 | annexin A11 |
| GO | serotonin binding | 1 | 9 | 0.4712841 | 3355 | 5-hydroxytryptamine (serotonin) receptor 1F |
| GO | positive regulation of tyrosine phospl | 1 | 9 | 0.4712841 | 3479 | insulin-like growth factor 1 (somatomedin C) |
| GO | proteoglycan biosynthetic process | 1 | 9 | 0.4712841 | 3479 | insulin-like growth factor 1 (somatomedin C) |

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|---|---|---|---|---|---|---|
| GO | regulation of peptidyl-tyrosine phosp | 1 | 9 | 0.4712841 | 3689 | integrin, beta 2 (complement component 3 receptor 3 and 4 subunit) |
| GO | muscarinic acetylcholine receptor sig | 1 | 9 | 0.4712841 | 375790 | agrin |
| GO | positive regulation of nitric-oxide syn | 1 | 9 | 0.4712841 | 3845 | v-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog |
| GO | branching involved in salivary gland r | 1 | 9 | 0.4712841 | 3911 | laminin, alpha 5 |
| GO | organ growth | 1 | 9 | 0.4712841 | 4087 | SMAD family member 2 |
| GO | axonal fasciculation | 1 | 9 | 0.4712841 | 4692 | necdin homolog (mouse) |
| GO | central nervous system neuron differ | 1 | 9 | 0.4712841 | 4929 | nuclear receptor subfamily 4, group A, member 2 |
| GO | MHC class I protein binding | 1 | 9 | 0.4712841 | 498 | ATP synthase, H+ transporting, mitochondrial F1 complex, alpha subun |
| GO | vacuolar proton-transporting V-type | 1 | 9 | 0.4712841 | 50617 | ATPase, H+ transporting, lysosomal V0 subunit a4 |
| GO | insulin-like growth factor receptor si | 1 | 9 | 0.4712841 | 5295 | phosphoinositide-3-kinase, regulatory subunit 1 (alpha) |
| GO | maintenance of protein location in n | 1 | 9 | 0.4712841 | 5371 | promyelocytic leukemia |
| GO | female gonad development | 1 | 9 | 0.4712841 | 54361 | wingless-type MMTV integration site family, member 4 |
| GO | organic anion transmembrane transp | 1 | 9 | 0.4712841 | 55867 | solute carrier family 22 (organic anion/urate transporter), member 11 |
| GO | grooming behavior | 1 | 9 | 0.4712841 | 56923 | neuromedin U receptor 2 |
| GO | response to pain | 1 | 9 | 0.4712841 | 56923 | neuromedin U receptor 2 |
| GO | apical protein localization | 1 | 9 | 0.4712841 | 57619 | shroom family member 3 |
| GO | melanosome transport | 1 | 9 | 0.4712841 | 5873 | RAB27A, member RAS oncogene family |
| GO | negative regulation of S phase of mit | 1 | 9 | 0.4712841 | 604 | B-cell CLL/lymphoma 6 |
| GO | detection of bacterium | 1 | 9 | 0.4712841 | 64127 | nucleotide-binding oligomerization domain containing 2 |
| GO | dicarboxylic acid transport | 1 | 9 | 0.4712841 | 6505 | solute carrier family 1 (neuronal/epithelial high affinity glutamate tran |
| GO | epithelial tube branching involved in | 1 | 9 | 0.4712841 | 652 | bone morphogenetic protein 4 |
| GO | smooth muscle tissue development | 1 | 9 | 0.4712841 | 652 | bone morphogenetic protein 4 |
| GO | muscle cell differentiation | 1 | 9 | 0.4712841 | 6604 | SWI/SNF related, matrix associated, actin dependent regulator of chro |
| GO | positive regulation of release of sequ | 1 | 9 | 0.4712841 | 6622 | synuclein, alpha (non A4 component of amyloid precursor) |
| GO | spectrin | 1 | 9 | 0.4712841 | 6710 | spectrin, beta, erythrocytic |
| GO | T-helper 1 type immune response | 1 | 9 | 0.4712841 | 7099 | toll-like receptor 4 |
| GO | cleavage furrow | 1 | 9 | 0.4712841 | 7170 | tropomyosin 3 |
| GO | DNA-(apurinic or apyrimidinic site) ly | 1 | 9 | 0.4712841 | 79661 | nei endonuclease VIII-like 1 (E. coli) |
| GO | quinone binding | 1 | 9 | 0.4712841 | 79802 | HHIP-like 2 |
| GO | sensory perception of light stimulus | 1 | 9 | 0.4712841 | 84059 | G protein-coupled receptor 98 |
| GO | ER overload response | 1 | 9 | 0.4712841 | 84919 | protein phosphatase 1, regulatory (inhibitor) subunit 15B |
| GO | hedgehog receptor activity | 1 | 9 | 0.4712841 | 84976 | dispatched homolog 1 (Drosophila) |
| GO | two-component signal transduction | 1 | 9 | 0.4712841 | 8622 | phosphodiesterase 8B |
| GO | oligosaccharide biosynthetic process | 1 | 9 | 0.4712841 | 8706 | beta-1,3-N-acetylgalactosaminyltransferase 1 (globoside blood group) |
| GO | response to food | 1 | 9 | 0.4712841 | 9021 | suppressor of cytokine signaling 3 |
| GO | ovulation from ovarian follicle | 1 | 9 | 0.4712841 | 9510 | ADAM metallopeptidase with thrombospondin type 1 motif, 1 |

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|---|---|---|---|---|---|---|
| GO | phospholipid efflux | 1 | 9 | 0.4712841 | 9619 | ATP-binding cassette, sub-family G (WHITE), member 1 |
| GO | retinoid X receptor binding | 1 | 9 | 0.4712841 | 9971 | nuclear receptor subfamily 1, group H, member 4 |
| GO | condensed nuclear chromosome, cer | 1 | 9 | 0.4712841 | 9985 | REC8 homolog (yeast) |
| GO | sarcoplasmic reticulum | 2 | 23 | 0.4726851 | 10335 | murine retrovirus integration site 1 homolog |
| GO | sarcoplasmic reticulum | 2 | 23 | 0.4726851 | 4842 | nitric oxide synthase 1 (neuronal) |
| GO | positive regulation of multicellular or | 2 | 23 | 0.4726851 | 1435 | colony stimulating factor 1 (macrophage) |
| GO | positive regulation of multicellular or | 2 | 23 | 0.4726851 | 183 | angiotensinogen (serpin peptidase inhibitor, clade A, member 8) |
| GO | protease binding | 2 | 23 | 0.4726851 | 1471 | cystatin C |
| GO | protease binding | 2 | 23 | 0.4726851 | 1803 | dipeptidyl-peptidase 4 |
| GO | ER-associated protein catabolic proce | 2 | 23 | 0.4726851 | 26270 | F-box protein 6 |
| GO | ER-associated protein catabolic proce | 2 | 23 | 0.4726851 | 55432 | YOD1 OTU deubiquinating enzyme 1 homolog (S. cerevisiae) |
| GO | erythrocyte differentiation | 2 | 23 | 0.4726851 | 28982 | feline leukemia virus subgroup C cellular receptor 1 |
| GO | erythrocyte differentiation | 2 | 23 | 0.4726851 | 652 | bone morphogenetic protein 4 |
| GO | regulation of cell adhesion | 2 | 23 | 0.4726851 | 3911 | laminin, alpha 5 |
| GO | regulation of cell adhesion | 2 | 23 | 0.4726851 | 9595 | cytohesin 1 interacting protein |
| GO | Golgi stack | 2 | 23 | 0.4726851 | 53947 | alpha 1,4-galactosyltransferase |
| GO | Golgi stack | 2 | 23 | 0.4726851 | 54947 | lysophosphatidylcholine acyltransferase 2 |
| GO | nucleobase, nucleoside, nucleotide a | 5 | 66 | 0.4735451 | 205 | adenylate kinase 3-like 1 |
| GO | nucleobase, nucleoside, nucleotide a | 5 | 66 | 0.4735451 | 4939 | 2'-5'-oligoadenylate synthetase 2, 69/71kDa |
| GO | nucleobase, nucleoside, nucleotide a | 5 | 66 | 0.4735451 | 54932 | exonuclease 3'-5' domain containing 3 |
| GO | nucleobase, nucleoside, nucleotide a | 5 | 66 | 0.4735451 | 9615 | guanine deaminase |
| GO | nucleobase, nucleoside, nucleotide a | 5 | 66 | 0.4735451 | 9962 | solute carrier family 23 (nucleobase transporters), member 2 |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 10838 | zinc finger protein 275 |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 10891 | peroxisome proliferator-activated receptor gamma, coactivator 1 alpha |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 11279 | Kruppel-like factor 8 |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 115196 | zinc finger protein 554 |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 127343 | diencephalon/mesencephalon homeobox 1 |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 147694 | zinc finger protein 548 |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 147923 | zinc finger protein 420 |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 158800 | Rhox homeobox family, member 1 |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 162962 | zinc finger protein 836 |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 163050 | zinc finger protein 564 |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 163115 | zinc finger protein 781 |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 1958 | early growth response 1 |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 2033 | E1A binding protein p300 |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 2114 | v-ets erythroblastosis virus E26 oncogene homolog 2 (avian) |

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|---|---|---|---|---|---|---|
| GO | DNA binding | 96 | 1392 | 0.4787924 | 2122 | MDS1 and EVI1 complex locus |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 220359 | tigger transposable element derived 3 |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 222546 | regulatory factor X, 6 |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 22807 | IKAROS family zinc finger 2 (Helios) |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 2290 | forkhead box G1 |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 2296 | forkhead box C1 |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 23099 | zinc finger and BTB domain containing 43 |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 23119 | hypermethylated in cancer 2 |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 23476 | bromodomain containing 4 |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 2354 | FBJ murine osteosarcoma viral oncogene homolog B |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 23648 | single stranded DNA binding protein 3 |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 2521 | fused in sarcoma |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 256051 | zinc finger protein 549 |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 25946 | zinc finger protein 385A |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 27245 | AT hook, DNA binding motif, containing 1 |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 27434 | polymerase (DNA directed), mu |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 284346 | zinc finger protein 575 |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 3131 | hepatic leukemia factor |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 3164 | nuclear receptor subfamily 4, group A, member 1 |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 3169 | forkhead box A1 |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 3192 | heterogeneous nuclear ribonucleoprotein U (scaffold attachment facto |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 3428 | interferon, gamma-inducible protein 16 |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 342908 | zinc finger protein 404 |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 345462 | zinc finger protein 879 |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 3725 | jun oncogene |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 3726 | jun B proto-oncogene |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 388536 | zinc finger protein 790 |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 388558 | zinc finger protein 808 |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 388567 | zinc finger protein 749 |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 389058 | Sp5 transcription factor |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 4005 | LIM domain only 2 (rhombotin-like 1) |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 4087 | SMAD family member 2 |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 4204 | methyl CpG binding protein 2 (Rett syndrome) |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 4613 | v-myc myelocytomatosis viral related oncogene, neuroblastoma derive |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 4692 | necdin homolog (mouse) |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 4783 | nuclear factor, interleukin 3 regulated |

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| GO | DNA binding | 96 | 1392 | 0.4787924 | 4802 | nuclear transcription factor Y, gamma |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 50809 | heterochromatin protein 1, binding protein 3 |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 5083 | paired box 9 |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 51085 | MLX interacting protein-like |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 51523 | CXXC finger 5 |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 51621 | Kruppel-like factor 13 |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 51710 | zinc finger protein 44 |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 5325 | pleiomorphic adenoma gene-like 1 |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 5371 | promyelocytic leukemia |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 5460 | POU class 5 homeobox 1 |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 5465 | peroxisome proliferator-activated receptor alpha |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 55140 | elongation protein 3 homolog (S. cerevisiae) |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 55657 | zinc finger protein 692 |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 55762 | zinc finger protein 701 |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 55870 | ash1 (absent, small, or homeotic)-like (Drosophila) |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 55893 | zinc finger protein 395 |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 56978 | PR domain containing 8 |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 6097 | RAR-related orphan receptor C |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 6239 | ras responsive element binding protein 1 |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 6256 | retinoid X receptor, alpha |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 64135 | interferon induced with helicase C domain 1 |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 7022 | transcription factor AP-2 gamma (activating enhancer binding protein |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 7538 | zinc finger protein 36, C3H type, homolog (mouse) |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 7546 | Zic family member 2 (odd-paired homolog, Drosophila) |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 7565 | zinc finger protein 17 |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 7597 | zinc finger and BTB domain containing 25 |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 7678 | zinc finger protein 124 |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 79132 | DEXH (Asp-Glu-X-His) box polypeptide 58 |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 79673 | zinc finger protein 329 |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 79894 | zinc finger protein 672 |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 8013 | nuclear receptor subfamily 4, group A, member 3 |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 80169 | chromosome 17 open reading frame 68 |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 84159 | AT rich interactive domain 5B (MRF1-like) |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 84911 | zinc finger protein 382 |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 84969 | TOX high mobility group box family member 2 |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 85416 | Zic family member 5 (odd-paired homolog, Drosophila) |

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| GO | DNA binding | 96 | 1392 | 0.4787924 | 85441 | peroxisomal proliferator-activated receptor A interacting complex 285 |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 8653 | DEAD (Asp-Glu-Ala-Asp) box polypeptide 3, Y-linked |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 90592 | zinc finger protein 700 |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 91748 | chromosome 14 open reading frame 43 |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 92283 | zinc finger protein 461 |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 92822 | zinc finger protein 276 |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 9324 | high mobility group nucleosomal binding domain 3 |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 93349 | SP140 nuclear body protein-like |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 9422 | zinc finger protein 264 |
| GO | DNA binding | 96 | 1392 | 0.4787924 | 9496 | T-box 4 |
| GO | signal transducer activity | 20 | 285 | 0.4847925 | 10769 | polo-like kinase 2 (Drosophila) |
| GO | signal transducer activity | 20 | 285 | 0.4847925 | 2769 | guanine nucleotide binding protein (G protein), alpha 15 (Gq class) |
| GO | signal transducer activity | 20 | 285 | 0.4847925 | 3587 | interleukin 10 receptor, alpha |
| GO | signal transducer activity | 20 | 285 | 0.4847925 | 3601 | interleukin 15 receptor, alpha |
| GO | signal transducer activity | 20 | 285 | 0.4847925 | 5129 | cyclin-dependent kinase 18 |
| GO | signal transducer activity | 20 | 285 | 0.4847925 | 51523 | CXXC finger 5 |
| GO | signal transducer activity | 20 | 285 | 0.4847925 | 5187 | period homolog 1 (Drosophila) |
| GO | signal transducer activity | 20 | 285 | 0.4847925 | 54361 | wingless-type MMTV integration site family, member 4 |
| GO | signal transducer activity | 20 | 285 | 0.4847925 | 6004 | regulator of G-protein signaling 16 |
| GO | signal transducer activity | 20 | 285 | 0.4847925 | 6778 | signal transducer and activator of transcription 6, interleukin-4 inducec |
| GO | signal transducer activity | 20 | 285 | 0.4847925 | 684 | bone marrow stromal cell antigen 2 |
| GO | signal transducer activity | 20 | 285 | 0.4847925 | 7474 | wingless-type MMTV integration site family, member 5A |
| GO | signal transducer activity | 20 | 285 | 0.4847925 | 7477 | wingless-type MMTV integration site family, member 7B |
| GO | signal transducer activity | 20 | 285 | 0.4847925 | 79971 | wntless homolog (Drosophila) |
| GO | signal transducer activity | 20 | 285 | 0.4847925 | 80833 | apolipoprotein L, 3 |
| GO | signal transducer activity | 20 | 285 | 0.4847925 | 8313 | axin 2 |
| GO | signal transducer activity | 20 | 285 | 0.4847925 | 8660 | insulin receptor substrate 2 |
| GO | signal transducer activity | 20 | 285 | 0.4847925 | 8786 | regulator of G-protein signaling 11 |
| GO | signal transducer activity | 20 | 285 | 0.4847925 | 8863 | period homolog 3 (Drosophila) |
| GO | signal transducer activity | 20 | 285 | 0.4847925 | 8864 | period homolog 2 (Drosophila) |
| GO | carbohydrate metabolic process | 14 | 198 | 0.4876563 | 1117 | chitinase 3-like 2 |
| GO | carbohydrate metabolic process | 14 | 198 | 0.4876563 | 2517 | fucosidase, alpha-L- 1, tissue |
| GO | carbohydrate metabolic process | 14 | 198 | 0.4876563 | 2525 | fucosyltransferase 3 (galactoside 3(4)-L-fucosyltransferase, Lewis blooc |
| GO | carbohydrate metabolic process | 14 | 198 | 0.4876563 | 2526 | fucosyltransferase 4 (alpha (1,3) fucosyltransferase, myeloid-specific) |
| GO | carbohydrate metabolic process | 14 | 198 | 0.4876563 | 2990 | glucuronidase, beta |
| GO | carbohydrate metabolic process | 14 | 198 | 0.4876563 | 3373 | hyaluronoglucosaminidase 1 |

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| GO | carbohydrate metabolic process | 14 | 198 | 0.4876563 | 3643 | insulin receptor |
| GO | carbohydrate metabolic process | 14 | 198 | 0.4876563 | 5016 | oviductal glycoprotein 1, 120kDa |
| GO | carbohydrate metabolic process | 14 | 198 | 0.4876563 | 5239 | phosphoglucomutase 5 |
| GO | carbohydrate metabolic process | 14 | 198 | 0.4876563 | 56261 | glycerophosphocholine phosphodiesterase GDE1 homolog (S. cerevisia |
| GO | carbohydrate metabolic process | 14 | 198 | 0.4876563 | 6489 | ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 1 |
| GO | carbohydrate metabolic process | 14 | 198 | 0.4876563 | 79802 | HHIP-like 2 |
| GO | carbohydrate metabolic process | 14 | 198 | 0.4876563 | 9435 | carbohydrate (N-acetylglucosamine-6-O) sulfotransferase 2 |
| GO | carbohydrate metabolic process | 14 | 198 | 0.4876563 | 9563 | hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase) |
| GO | microtubule cytoskeleton | 4 | 53 | 0.4943761 | 10397 | N-myc downstream regulated 1 |
| GO | microtubule cytoskeleton | 4 | 53 | 0.4943761 | 51710 | zinc finger protein 44 |
| GO | microtubule cytoskeleton | 4 | 53 | 0.4943761 | 6819 | sulfotransferase family, cytosolic, 1C, member 2 |
| GO | microtubule cytoskeleton | 4 | 53 | 0.4943761 | 8900 | cyclin A1 |
| GO | cellular membrane organization | 4 | 53 | 0.4943761 | 1785 | dynamin 2 |
| GO | cellular membrane organization | 4 | 53 | 0.4943761 | 23418 | crumbs homolog 1 (Drosophila) |
| GO | cellular membrane organization | 4 | 53 | 0.4943761 | 54947 | lysophosphatidylcholine acyltransferase 2 |
| GO | cellular membrane organization | 4 | 53 | 0.4943761 | 8673 | vesicle-associated membrane protein 8 (endobrevin) |
| GO | activation of adenylate cyclase activit | 2 | 24 | 0.4953352 | 154 | adrenergic, beta-2-, receptor, surface |
| GO | activation of adenylate cyclase activit | 2 | 24 | 0.4953352 | 4915 | neurotrophic tyrosine kinase, receptor, type 2 |
| GO | oxygen and reactive oxygen species r | 2 | 24 | 0.4953352 | 183 | angiotensinogen (serpin peptidase inhibitor, clade A, member 8) |
| GO | oxygen and reactive oxygen species r | 2 | 24 | 0.4953352 | 316 | aldehyde oxidase 1 |
| GO | peripheral nervous system developm | 2 | 24 | 0.4953352 | 1959 | early growth response 2 |
| GO | peripheral nervous system developm | 2 | 24 | 0.4953352 | 1960 | early growth response 3 |
| GO | histone H3 acetylation | 2 | 24 | 0.4953352 | 23338 | PHD finger protein 15 |
| GO | histone H3 acetylation | 2 | 24 | 0.4953352 | 23774 | bromodomain containing 1 |
| GO | cilium assembly | 2 | 24 | 0.4953352 | 3175 | one cut homeobox 1 |
| GO | cilium assembly | 2 | 24 | 0.4953352 | 3911 | laminin, alpha 5 |
| GO | transmembrane transport | 34 | 492 | 0.4993007 | 1080 | cystic fibrosis transmembrane conductance regulator (ATP-binding cas |
| GO | transmembrane transport | 34 | 492 | 0.4993007 | 113235 | solute carrier family 46 (folate transporter), member 1 |
| GO | transmembrane transport | 34 | 492 | 0.4993007 | 123096 | solute carrier family 25, member 29 |
| GO | transmembrane transport | 34 | 492 | 0.4993007 | 151473 | solute carrier family 16, member 14 (monocarboxylic acid transporter |
| GO | transmembrane transport | 34 | 492 | 0.4993007 | 157855 | potassium channel, subfamily U, member 1 |
| GO | transmembrane transport | 34 | 492 | 0.4993007 | 259232 | sodium leak channel, non-selective |
| GO | transmembrane transport | 34 | 492 | 0.4993007 | 283537 | solute carrier family 46, member 3 |
| GO | transmembrane transport | 34 | 492 | 0.4993007 | 28982 | feline leukemia virus subgroup C cellular receptor 1 |
| GO | transmembrane transport | 34 | 492 | 0.4993007 | 29015 | solute carrier family 43, member 3 |
| GO | transmembrane transport | 34 | 492 | 0.4993007 | 368 | ATP-binding cassette, sub-family C (CFTR/MRP), member 6 |

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| GO | transmembrane transport | 34 | 492 | 0.4993007 | 3709 | inositol 1,4,5-triphosphate receptor, type 2 |
| GO | transmembrane transport | 34 | 492 | 0.4993007 | 3786 | potassium voltage-gated channel, KQT-like subfamily, member 3 |
| GO | transmembrane transport | 34 | 492 | 0.4993007 | 3790 | potassium voltage-gated channel, delayed-rectifier, subfamily S, memb |
| GO | transmembrane transport | 34 | 492 | 0.4993007 | 387923 | stress-associated endoplasmic reticulum protein family member 2 |
| GO | transmembrane transport | 34 | 492 | 0.4993007 | 5243 | ATP-binding cassette, sub-family B (MDR/TAP), member 1 |
| GO | transmembrane transport | 34 | 492 | 0.4993007 | 5244 | ATP-binding cassette, sub-family B (MDR/TAP), member 4 |
| GO | transmembrane transport | 34 | 492 | 0.4993007 | 53373 | two pore segment channel 1 |
| GO | transmembrane transport | 34 | 492 | 0.4993007 | 55867 | solute carrier family 22 (organic anion/urate transporter), member 11 |
| GO | transmembrane transport | 34 | 492 | 0.4993007 | 57210 | solute carrier family 45, member 4 |
| GO | transmembrane transport | 34 | 492 | 0.4993007 | 6006 | Rh blood group, CcEe antigens |
| GO | transmembrane transport | 34 | 492 | 0.4993007 | 6238 | ribosome binding protein 1 homolog 180kDa (dog) |
| GO | transmembrane transport | 34 | 492 | 0.4993007 | 63027 | solute carrier family 22, member 23 |
| GO | transmembrane transport | 34 | 492 | 0.4993007 | 64116 | solute carrier family 39 (zinc transporter), member 8 |
| GO | transmembrane transport | 34 | 492 | 0.4993007 | 6542 | solute carrier family 7 (cationic amino acid transporter, y+ system), me |
| GO | transmembrane transport | 34 | 492 | 0.4993007 | 7223 | transient receptor potential cation channel, subfamily C, member 4 |
| GO | transmembrane transport | 34 | 492 | 0.4993007 | 774 | calcium channel, voltage-dependent, N type, alpha 1B subunit |
| GO | transmembrane transport | 34 | 492 | 0.4993007 | 84561 | solute carrier family 12 (potassium/chloride transporters), member 8 |
| GO | transmembrane transport | 34 | 492 | 0.4993007 | 84879 | major facilitator superfamily domain containing 2A |
| GO | transmembrane transport | 34 | 492 | 0.4993007 | 8514 | potassium voltage-gated channel, shaker-related subfamily, beta mem |
| GO | transmembrane transport | 34 | 492 | 0.4993007 | 8911 | calcium channel, voltage-dependent, T type, alpha 1I subunit |
| GO | transmembrane transport | 34 | 492 | 0.4993007 | 8912 | calcium channel, voltage-dependent, T type, alpha 1H subunit |
| GO | transmembrane transport | 34 | 492 | 0.4993007 | 9194 | solute carrier family 16, member 7 (monocarboxylic acid transporter 2) |
| GO | transmembrane transport | 34 | 492 | 0.4993007 | 9481 | solute carrier family 25, member 27 |
| GO | transmembrane transport | 34 | 492 | 0.4993007 | 9962 | solute carrier family 23 (nucleobase transporters), member 2 |
| GO | beta-catenin binding | 3 | 39 | 0.503887 | 10076 | protein tyrosine phosphatase, receptor type, U |
| GO | beta-catenin binding | 3 | 39 | 0.503887 | 2737 | GLI family zinc finger 3 |
| GO | beta-catenin binding | 3 | 39 | 0.503887 | 8313 | axin 2 |
| GO | insoluble fraction | 3 | 39 | 0.503887 | 2026 | enolase 2 (gamma, neuronal) |
| GO | insoluble fraction | 3 | 39 | 0.503887 | 53405 | chloride intracellular channel 5 |
| GO | insoluble fraction | 3 | 39 | 0.503887 | 5371 | promyelocytic leukemia |
| GO | G-protein signaling, coupled to cyclic | 3 | 39 | 0.503887 | 3355 | 5-hydroxytryptamine (serotonin) receptor 1F |
| GO | G-protein signaling, coupled to cyclic | 3 | 39 | 0.503887 | 4886 | neuropeptide Y receptor Y1 |
| GO | G-protein signaling, coupled to cyclic | 3 | 39 | 0.503887 | 6751 | somatostatin receptor 1 |
| GO | aging | 6 | 83 | 0.5047025 | 10568 | solute carrier family 34 (sodium phosphate), member 2 |
| GO | aging | 6 | 83 | 0.5047025 | 2353 | FBJ murine osteosarcoma viral oncogene homolog |
| GO | aging | 6 | 83 | 0.5047025 | 3725 | jun oncogene |

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|---|---|---|---|---|---|---|
| GO | aging | 6 | 83 | 0.5047025 | 5742 | prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase a |
| GO | aging | 6 | 83 | 0.5047025 | 6256 | retinoid X receptor, alpha |
| GO | aging | 6 | 83 | 0.5047025 | 9021 | suppressor of cytokine signaling 3 |
| GO | chromatin silencing | 1 | 10 | 0.507438 | 10014 | histone deacetylase 5 |
| GO | cellular respiration | 1 | 10 | 0.507438 | 10891 | peroxisome proliferator-activated receptor gamma, coactivator 1 alpha |
| GO | acetylcholine binding | 1 | 10 | 0.507438 | 1139 | cholinergic receptor, nicotinic, alpha 7 |
| GO | cognition | 1 | 10 | 0.507438 | 1139 | cholinergic receptor, nicotinic, alpha 7 |
| GO | ribonucleoprotein binding | 1 | 10 | 0.507438 | 127933 | U2AF homology motif (UHM) kinase 1 |
| GO | urea cycle | 1 | 10 | 0.507438 | 1373 | carbamoyl-phosphate synthetase 1, mitochondrial |
| GO | positive regulation of cytokine produ | 1 | 10 | 0.507438 | 183 | angiotensinogen (serpin peptidase inhibitor, clade A, member 8) |
| GO | positive regulation of collagen biosyn | 1 | 10 | 0.507438 | 2033 | E1A binding protein p300 |
| GO | protein kinase B signaling cascade | 1 | 10 | 0.507438 | 2033 | E1A binding protein p300 |
| GO | carboxylic acid metabolic process | 1 | 10 | 0.507438 | 2571 | glutamate decarboxylase 1 (brain, 67kDa) |
| GO | histone acetyltransferase binding | 1 | 10 | 0.507438 | 2737 | GLI family zinc finger 3 |
| GO | IkappaB kinase complex | 1 | 10 | 0.507438 | 29108 | PYD and CARD domain containing |
| GO | MHC class I receptor activity | 1 | 10 | 0.507438 | 3134 | major histocompatibility complex, class I, F |
| GO | positive regulation of smooth muscle | 1 | 10 | 0.507438 | 3479 | insulin-like growth factor 1 (somatomedin C) |
| GO | acyl-CoA dehydrogenase activity | 1 | 10 | 0.507438 | 35 | acyl-Coenzyme A dehydrogenase, C-2 to C-3 short chain |
| GO | water channel activity | 1 | 10 | 0.507438 | 358 | aquaporin 1 (Colton blood group) |
| GO | morphogenesis of embryonic epitheli | 1 | 10 | 0.507438 | 3911 | laminin, alpha 5 |
| GO | substrate adhesion-dependent cell sp | 1 | 10 | 0.507438 | 3911 | laminin, alpha 5 |
| GO | I-SMAD binding | 1 | 10 | 0.507438 | 4087 | SMAD family member 2 |
| GO | oxygen transporter activity | 1 | 10 | 0.507438 | 4151 | myoglobin |
| GO | oxygen transport | 1 | 10 | 0.507438 | 4151 | myoglobin |
| GO | lipopolysaccharide-mediated signalin | 1 | 10 | 0.507438 | 4792 | nuclear factor of kappa light polypeptide gene enhancer in B-cells inhib |
| GO | stem cell maintenance | 1 | 10 | 0.507438 | 4853 | Notch homolog 2 (Drosophila) |
| GO | Golgi lumen | 1 | 10 | 0.507438 | 5046 | proprotein convertase subtilisin/kexin type 6 |
| GO | CUL4 RING ubiquitin ligase complex | 1 | 10 | 0.507438 | 54876 | DDB1 and CUL4 associated factor 16 |
| GO | cAMP-dependent protein kinase com | 1 | 10 | 0.507438 | 5577 | protein kinase, cAMP-dependent, regulatory, type II, beta |
| GO | transmission of nerve impulse | 1 | 10 | 0.507438 | 56923 | neuromedin U receptor 2 |
| GO | isotype switching | 1 | 10 | 0.507438 | 57379 | activation-induced cytidine deaminase |
| GO | cardiac muscle tissue development | 1 | 10 | 0.507438 | 5950 | retinol binding protein 4, plasma |
| GO | signalosome | 1 | 10 | 0.507438 | 64127 | nucleotide-binding oligomerization domain containing 2 |
| GO | L-glutamate transmembrane transpo | 1 | 10 | 0.507438 | 6505 | solute carrier family 1 (neuronal/epithelial high affinity glutamate trans |
| GO | calcium ion homeostasis | 1 | 10 | 0.507438 | 6622 | synuclein, alpha (non A4 component of amyloid precursor) |
| GO | platelet alpha granule membrane | 1 | 10 | 0.507438 | 6622 | synuclein, alpha (non A4 component of amyloid precursor) |

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|---|---|---|---|---|---|---|
| GO | platelet alpha granule | 1 | 10 | 0.507438 | 6812 | syntaxin binding protein 1 |
| GO | B cell receptor signaling pathway | 1 | 10 | 0.507438 | 6850 | spleen tyrosine kinase |
| GO | interleukin-1 receptor binding | 1 | 10 | 0.507438 | 7100 | toll-like receptor 5 |
| GO | tumor necrosis factor receptor activit | 1 | 10 | 0.507438 | 7133 | tumor necrosis factor receptor superfamily, member 1B |
| GO | complement activation | 1 | 10 | 0.507438 | 731 | complement component 8, alpha polypeptide |
| GO | mRNA catabolic process | 1 | 10 | 0.507438 | 7538 | zinc finger protein 36, C3H type, homolog (mouse) |
| GO | XY body | 1 | 10 | 0.507438 | 80714 | pre-B-cell leukemia homeobox 4 |
| GO | killing of cells of another organism | 1 | 10 | 0.507438 | 8542 | apolipoprotein L, 1 |
| GO | calcium ion-dependent exocytosis | 1 | 10 | 0.507438 | 85477 | scinderin |
| GO | cytokine binding | 1 | 10 | 0.507438 | 8646 | chordin |
| GO | embryonic digestive tract developme | 1 | 10 | 0.507438 | 91461 | protein kinase domain containing, cytoplasmic homolog (mouse) |
| GO | mRNA cap binding complex | 1 | 10 | 0.507438 | 9271 | piwi-like 1 (Drosophila) |
| GO | NAD metabolic process | 1 | 10 | 0.507438 | 93100 | nicotinate phosphoribosyltransferase domain containing 1 |
| GO | positive regulation of T cell activatior | 1 | 10 | 0.507438 | 961 | CD47 molecule |
| GO | cellular component movement | 7 | 98 | 0.5084993 | 27076 | LY6/PLAUR domain containing 3 |
| GO | cellular component movement | 7 | 98 | 0.5084993 | 29116 | myosin regulatory light chain interacting protein |
| GO | cellular component movement | 7 | 98 | 0.5084993 | 3479 | insulin-like growth factor 1 (somatomedin C) |
| GO | cellular component movement | 7 | 98 | 0.5084993 | 4486 | macrophage stimulating 1 receptor (c-met-related tyrosine kinase) |
| GO | cellular component movement | 7 | 98 | 0.5084993 | 7170 | tropomyosin 3 |
| GO | cellular component movement | 7 | 98 | 0.5084993 | 8875 | vanin 2 |
| GO | cellular component movement | 7 | 98 | 0.5084993 | 9788 | metastasis suppressor 1 |
| GO | dendrite | 9 | 128 | 0.5146955 | 154 | adrenergic, beta-2-, receptor, surface |
| GO | dendrite | 9 | 128 | 0.5146955 | 1813 | dopamine receptor D2 |
| GO | dendrite | 9 | 128 | 0.5146955 | 240 | arachidonate 5-lipoxygenase |
| GO | dendrite | 9 | 128 | 0.5146955 | 3759 | potassium inwardly-rectifying channel, subfamily J, member 2 |
| GO | dendrite | 9 | 128 | 0.5146955 | 4856 | nephroblastoma overexpressed gene |
| GO | dendrite | 9 | 128 | 0.5146955 | 5122 | proprotein convertase subtilisin/kexin type 1 |
| GO | dendrite | 9 | 128 | 0.5146955 | 5873 | RAB27A, member RAS oncogene family |
| GO | dendrite | 9 | 128 | 0.5146955 | 885 | cholecystokinin |
| GO | dendrite | 9 | 128 | 0.5146955 | 8912 | calcium channel, voltage-dependent, T type, alpha 1H subunit |
| GO | melanosome | 6 | 84 | 0.5165615 | 1508 | cathepsin B |
| GO | melanosome | 6 | 84 | 0.5165615 | 2040 | stomatin |
| GO | melanosome | 6 | 84 | 0.5165615 | 23682 | RAB38, member RAS oncogene family |
| GO | melanosome | 6 | 84 | 0.5165615 | 311 | annexin A11 |
| GO | melanosome | 6 | 84 | 0.5165615 | 5873 | RAB27A, member RAS oncogene family |
| GO | melanosome | 6 | 84 | 0.5165615 | 682 | basigin (Ok blood group) |

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|---|---|---|---|---|---|---|
| GO | mitochondrial intermembrane space | 2 | 25 | 0.5173551 | 10628 | thioredoxin interacting protein |
| GO | mitochondrial intermembrane space | 2 | 25 | 0.5173551 | 64083 | golgi phosphoprotein 3 (coat-protein) |
| GO | lipid biosynthetic process | 2 | 25 | 0.5173551 | 2055 | ceroid-lipofuscinosis, neuronal 8 (epilepsy, progressive with mental ret |
| GO | lipid biosynthetic process | 2 | 25 | 0.5173551 | 53947 | alpha 1,4-galactosyltransferase |
| GO | glycoprotein binding | 2 | 25 | 0.5173551 | 26270 | F-box protein 6 |
| GO | glycoprotein binding | 2 | 25 | 0.5173551 | 3689 | integrin, beta 2 (complement component 3 receptor 3 and 4 subunit) |
| GO | heterotrimeric G-protein complex | 2 | 25 | 0.5173551 | 2769 | guanine nucleotide binding protein (G protein), alpha 15 (Gq class) |
| GO | heterotrimeric G-protein complex | 2 | 25 | 0.5173551 | 8786 | regulator of G-protein signaling 11 |
| GO | fat cell differentiation | 2 | 25 | 0.5173551 | 3643 | insulin receptor |
| GO | fat cell differentiation | 2 | 25 | 0.5173551 | 79689 | STEAP family member 4 |
| GO | osteoblast differentiation | 2 | 25 | 0.5173551 | 3726 | jun B proto-oncogene |
| GO | osteoblast differentiation | 2 | 25 | 0.5173551 | 4209 | myocyte enhancer factor 2D |
| GO | stress fiber | 2 | 25 | 0.5173551 | 4486 | macrophage stimulating 1 receptor (c-met-related tyrosine kinase) |
| GO | stress fiber | 2 | 25 | 0.5173551 | 5239 | phosphoglucomutase 5 |
| GO | receptor-mediated endocytosis | 3 | 40 | 0.5211403 | 10268 | receptor (G protein-coupled) activity modifying protein 3 |
| GO | receptor-mediated endocytosis | 3 | 40 | 0.5211403 | 154 | adrenergic, beta-2-, receptor, surface |
| GO | receptor-mediated endocytosis | 3 | 40 | 0.5211403 | 6653 | sortilin-related receptor, L(DLR class) A repeats-containing |
| GO | catalytic activity | 8 | 114 | 0.5219419 | 157855 | potassium channel, subfamily U, member 1 |
| GO | catalytic activity | 8 | 114 | 0.5219419 | 200150 | phospholipase D family, member 5 |
| GO | catalytic activity | 8 | 114 | 0.5219419 | 284716 | ribosomal modification protein rimK-like family member A |
| GO | catalytic activity | 8 | 114 | 0.5219419 | 343450 | potassium channel, subfamily T, member 2 |
| GO | catalytic activity | 8 | 114 | 0.5219419 | 5016 | oviductal glycoprotein 1, 120kDa |
| GO | catalytic activity | 8 | 114 | 0.5219419 | 57494 | ribosomal modification protein rimK-like family member B |
| GO | catalytic activity | 8 | 114 | 0.5219419 | 79802 | HHIP-like 2 |
| GO | catalytic activity | 8 | 114 | 0.5219419 | 94059 | leukocyte receptor cluster (LRC) member 9 |
| GO | response to toxin | 4 | 55 | 0.5238895 | 2353 | FBJ murine osteosarcoma viral oncogene homolog |
| GO | response to toxin | 4 | 55 | 0.5238895 | 4129 | monoamine oxidase B |
| GO | response to toxin | 4 | 55 | 0.5238895 | 7097 | toll-like receptor 2 |
| GO | response to toxin | 4 | 55 | 0.5238895 | 7099 | toll-like receptor 4 |
| GO | cytoplasmic membrane-bounded ves | 6 | 85 | 0.5283095 | 23048 | formin binding protein 1 |
| GO | cytoplasmic membrane-bounded ves | 6 | 85 | 0.5283095 | 259173 | ALS2 C-terminal like |
| GO | cytoplasmic membrane-bounded ves | 6 | 85 | 0.5283095 | 55638 | Golgi-localized protein |
| GO | cytoplasmic membrane-bounded ves | 6 | 85 | 0.5283095 | 627 | brain-derived neurotrophic factor |
| GO | cytoplasmic membrane-bounded ves | 6 | 85 | 0.5283095 | 7852 | chemokine (C-X-C motif) receptor 4 |
| GO | cytoplasmic membrane-bounded ves | 6 | 85 | 0.5283095 | 8527 | diacylglycerol kinase, delta 130kDa |
| GO | voltage-gated potassium channel con | 6 | 85 | 0.5283095 | 27345 | potassium large conductance calcium-activated channel, subfamily M, |

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|---|---|---|---|---|---|---|
| GO | voltage-gated potassium channel con | 6 | 85 | 0.5283095 | 3773 | potassium inwardly-rectifying channel, subfamily J, member 16 |
| GO | voltage-gated potassium channel con | 6 | 85 | 0.5283095 | 3775 | potassium channel, subfamily K, member 1 |
| GO | voltage-gated potassium channel con | 6 | 85 | 0.5283095 | 3783 | potassium intermediate/small conductance calcium-activated channel, |
| GO | voltage-gated potassium channel con | 6 | 85 | 0.5283095 | 3786 | potassium voltage-gated channel, KQT-like subfamily, member 3 |
| GO | voltage-gated potassium channel con | 6 | 85 | 0.5283095 | 3790 | potassium voltage-gated channel, delayed-rectifier, subfamily S, memb |
| GO | magnesium ion binding | 11 | 159 | 0.5283259 | 11213 | interleukin-1 receptor-associated kinase 3 |
| GO | magnesium ion binding | 11 | 159 | 0.5283259 | 148229 | ATPase, class I, type 8B, member 3 |
| GO | magnesium ion binding | 11 | 159 | 0.5283259 | 150094 | salt-inducible kinase 1 |
| GO | magnesium ion binding | 11 | 159 | 0.5283259 | 2026 | enolase 2 (gamma, neuronal) |
| GO | magnesium ion binding | 11 | 159 | 0.5283259 | 23387 | SIK family kinase 3 |
| GO | magnesium ion binding | 11 | 159 | 0.5283259 | 375449 | microtubule associated serine/threonine kinase family member 4 |
| GO | magnesium ion binding | 11 | 159 | 0.5283259 | 5239 | phosphoglucomutase 5 |
| GO | magnesium ion binding | 11 | 159 | 0.5283259 | 6622 | synuclein, alpha (non A4 component of amyloid precursor) |
| GO | magnesium ion binding | 11 | 159 | 0.5283259 | 79895 | ATPase, class I, type 8B, member 4 |
| GO | magnesium ion binding | 11 | 159 | 0.5283259 | 81788 | NUAK family, SNF1-like kinase, 2 |
| GO | magnesium ion binding | 11 | 159 | 0.5283259 | 9064 | mitogen-activated protein kinase kinase kinase 6 |
| GO | negative regulation of cell cycle | 3 | 41 | 0.5380605 | 23368 | protein phosphatase 1, regulatory (inhibitor) subunit 13B |
| GO | negative regulation of cell cycle | 3 | 41 | 0.5380605 | 6494 | signal-induced proliferation-associated 1 |
| GO | negative regulation of cell cycle | 3 | 41 | 0.5380605 | 652 | bone morphogenetic protein 4 |
| GO | protein import into nucleus | 2 | 26 | 0.538725 | 10628 | thioredoxin interacting protein |
| GO | protein import into nucleus | 2 | 26 | 0.538725 | 55705 | importin 9 |
| GO | triglyceride metabolic process | 2 | 26 | 0.538725 | 2182 | acyl-CoA synthetase long-chain family member 4 |
| GO | triglyceride metabolic process | 2 | 26 | 0.538725 | 255738 | proprotein convertase subtilisin/kexin type 9 |
| GO | skin development | 2 | 26 | 0.538725 | 2707 | gap junction protein, beta 3, 31kDa |
| GO | skin development | 2 | 26 | 0.538725 | 412 | steroid sulfatase (microsomal), isozyme S |
| GO | terminal button | 2 | 26 | 0.538725 | 5025 | purinergic receptor P2X, ligand-gated ion channel, 4 |
| GO | terminal button | 2 | 26 | 0.538725 | 885 | cholecystokinin |
| GO | embryo implantation | 2 | 26 | 0.538725 | 682 | basigin (Ok blood group) |
| GO | embryo implantation | 2 | 26 | 0.538725 | 687 | Kruppel-like factor 9 |
| GO | lamellipodium | 5 | 71 | 0.5390299 | 10252 | sprouty homolog 1, antagonist of FGF signaling (Drosophila) |
| GO | lamellipodium | 5 | 71 | 0.5390299 | 152273 | FYVE, RhoGEF and PH domain containing 5 |
| GO | lamellipodium | 5 | 71 | 0.5390299 | 1803 | dipeptidyl-peptidase 4 |
| GO | lamellipodium | 5 | 71 | 0.5390299 | 55740 | enabled homolog (Drosophila) |
| GO | lamellipodium | 5 | 71 | 0.5390299 | 57147 | SCY1-like 3 (S. cerevisiae) |
| GO | focal adhesion | 6 | 86 | 0.5399386 | 23092 | Rho GTPase activating protein 26 |
| GO | focal adhesion | 6 | 86 | 0.5399386 | 23371 | tensin like C1 domain containing phosphatase (tensin 2) |

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|---|---|---|---|---|---|---|
| GO | focal adhesion | 6 | 86 | 0.5399386 | 3678 | integrin, alpha 5 (fibronectin receptor, alpha polypeptide) |
| GO | focal adhesion | 6 | 86 | 0.5399386 | 5239 | phosphoglucomutase 5 |
| GO | focal adhesion | 6 | 86 | 0.5399386 | 55740 | enabled homolog (Drosophila) |
| GO | focal adhesion | 6 | 86 | 0.5399386 | 7706 | tripartite motif-containing 25 |
| GO | dipeptidyl-peptidase activity | 1 | 11 | 0.5411214 | 1803 | dipeptidyl-peptidase 4 |
| GO | motor axon guidance | 1 | 11 | 0.5411214 | 1959 | early growth response 2 |
| GO | positive regulation of axon extension | 1 | 11 | 0.5411214 | 2033 | E1A binding protein p300 |
| GO | negative regulation of JNK cascade | 1 | 11 | 0.5411214 | 2122 | MDS1 and EVI1 complex locus |
| GO | fibroblast growth factor binding | 1 | 11 | 0.5411214 | 2263 | fibroblast growth factor receptor 2 |
| GO | DNA bending activity | 1 | 11 | 0.5411214 | 2296 | forkhead box C1 |
| GO | maternal process involved in female | 1 | 11 | 0.5411214 | 23780 | apolipoprotein L, 2 |
| GO | sodium channel activity | 1 | 11 | 0.5411214 | 259232 | sodium leak channel, non-selective |
| GO | SCF ubiquitin ligase complex | 1 | 11 | 0.5411214 | 26270 | F-box protein 6 |
| GO | positive regulation of vascular endot | 1 | 11 | 0.5411214 | 3678 | integrin, alpha 5 (fibronectin receptor, alpha polypeptide) |
| GO | myelin sheath | 1 | 11 | 0.5411214 | 3709 | inositol 1,4,5-triphosphate receptor, type 2 |
| GO | trophectodermal cell differentiation | 1 | 11 | 0.5411214 | 3726 | jun B proto-oncogene |
| GO | delayed rectifier potassium channel | 1 | 11 | 0.5411214 | 3790 | potassium voltage-gated channel, delayed-rectifier, subfamily S, mem |
| GO | low-density lipoprotein receptor acti | 1 | 11 | 0.5411214 | 3949 | low density lipoprotein receptor |
| GO | actin filament polymerization | 1 | 11 | 0.5411214 | 395 | Rho GTPase activating protein 6 |
| GO | positive regulation of epithelial to me | 1 | 11 | 0.5411214 | 4087 | SMAD family member 2 |
| GO | positive regulation of neurogenesis | 1 | 11 | 0.5411214 | 429 | achaete-scute complex homolog 1 (Drosophila) |
| GO | methionine biosynthetic process | 1 | 11 | 0.5411214 | 4524 | 5,10-methylenetetrahydrofolate reductase (NADPH) |
| GO | gamma-tubulin binding | 1 | 11 | 0.5411214 | 4692 | necdin homolog (mouse) |
| GO | FMN binding | 1 | 11 | 0.5411214 | 4842 | nitric oxide synthase 1 (neuronal) |
| GO | nitric oxide biosynthetic process | 1 | 11 | 0.5411214 | 4842 | nitric oxide synthase 1 (neuronal) |
| GO | oligodendrocyte differentiation | 1 | 11 | 0.5411214 | 4851 | Notch homolog 1, translocation-associated (Drosophila) |
| GO | positive regulation of calcium ion tra | 1 | 11 | 0.5411214 | 5025 | purinergic receptor P2X, ligand-gated ion channel, 4 |
| GO | Ras GTPase binding | 1 | 11 | 0.5411214 | 57139 | ral guanine nucleotide dissociation stimulator-like 3 |
| GO | intermediate filament cytoskeleton | 1 | 11 | 0.5411214 | 573 | BCL2-associated athanogene |
| GO | neuropeptide receptor activity | 1 | 11 | 0.5411214 | 57537 | sortilin-related VPS10 domain containing receptor 2 |
| GO | replication fork | 1 | 11 | 0.5411214 | 604 | B-cell CLL/lymphoma 6 |
| GO | npBAF complex | 1 | 11 | 0.5411214 | 6604 | SWI/SNF related, matrix associated, actin dependent regulator of chro |
| GO | cellular response to oxidative stress | 1 | 11 | 0.5411214 | 6622 | synuclein, alpha (non A4 component of amyloid precursor) |
| GO | response to magnesium ion | 1 | 11 | 0.5411214 | 6622 | synuclein, alpha (non A4 component of amyloid precursor) |
| GO | positive regulation of interferon-gam | 1 | 11 | 0.5411214 | 7098 | toll-like receptor 3 |
| GO | positive regulation of interferon-gam | 1 | 11 | 0.5411214 | 7099 | toll-like receptor 4 |

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|---|---|---|---|---|---|---|
| GO | initiation of viral infection | 1 | 11 | 0.5411214 | 7852 | chemokine (C-X-C motif) receptor 4 |
| GO | positive regulation of erythrocyte dif | 1 | 11 | 0.5411214 | 91 | activin A receptor, type IB |
| GO | phosphatidylinositol-3,4-bisphosphat | 1 | 11 | 0.5411214 | 91404 | SEC14 and spectrin domains 1 |
| GO | pyridine nucleotide biosynthetic proc | 1 | 11 | 0.5411214 | 93100 | nicotinate phosphoribosyltransferase domain containing 1 |
| GO | P-P-bond-hydrolysis-driven protein tr | 1 | 11 | 0.5411214 | 9804 | translocase of outer mitochondrial membrane 20 homolog (yeast) |
| GO | bile acid metabolic process | 1 | 11 | 0.5411214 | 9971 | nuclear receptor subfamily 1, group H, member 4 |
| GO | oocyte maturation | 1 | 11 | 0.5411214 | 9985 | REC8 homolog (yeast) |
| GO | transcription regulator activity | 7 | 102 | 0.5515791 | 124 | alcohol dehydrogenase 1A (class I), alpha polypeptide |
| GO | transcription regulator activity | 7 | 102 | 0.5515791 | 23648 | single stranded DNA binding protein 3 |
| GO | transcription regulator activity | 7 | 102 | 0.5515791 | 2624 | GATA binding protein 2 |
| GO | transcription regulator activity | 7 | 102 | 0.5515791 | 4778 | nuclear factor (erythroid-derived 2), 45kDa |
| GO | transcription regulator activity | 7 | 102 | 0.5515791 | 4849 | CCR4-NOT transcription complex, subunit 3 |
| GO | transcription regulator activity | 7 | 102 | 0.5515791 | 5371 | promyelocytic leukemia |
| GO | transcription regulator activity | 7 | 102 | 0.5515791 | 6604 | SWI/SNF related, matrix associated, actin dependent regulator of chro |
| GO | synaptic vesicle membrane | 3 | 42 | 0.5546329 | 143425 | synaptotagmin IX |
| GO | synaptic vesicle membrane | 3 | 42 | 0.5546329 | 23208 | synaptotagmin XI |
| GO | synaptic vesicle membrane | 3 | 42 | 0.5546329 | 6857 | synaptotagmin I |
| GO | JAK-STAT cascade | 2 | 27 | 0.5594311 | 23529 | cardiotrophin-like cytokine factor 1 |
| GO | JAK-STAT cascade | 2 | 27 | 0.5594311 | 9021 | suppressor of cytokine signaling 3 |
| GO | negative regulation of Wnt receptor s | 2 | 27 | 0.5594311 | 27123 | dickkopf homolog 2 (Xenopus laevis) |
| GO | negative regulation of Wnt receptor s | 2 | 27 | 0.5594311 | 8313 | axin 2 |
| GO | phagocytosis | 2 | 27 | 0.5594311 | 311 | annexin A11 |
| GO | phagocytosis | 2 | 27 | 0.5594311 | 929 | CD14 molecule |
| GO | cell aging | 2 | 27 | 0.5594311 | 3845 | v-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog |
| GO | cell aging | 2 | 27 | 0.5594311 | 5371 | promyelocytic leukemia |
| GO | meiosis | 4 | 58 | 0.5665303 | 143689 | piwi-like 4 (Drosophila) |
| GO | meiosis | 4 | 58 | 0.5665303 | 55124 | piwi-like 2 (Drosophila) |
| GO | meiosis | 4 | 58 | 0.5665303 | 9271 | piwi-like 1 (Drosophila) |
| GO | meiosis | 4 | 58 | 0.5665303 | 9985 | REC8 homolog (yeast) |
| GO | structural constituent of muscle | 3 | 43 | 0.5708446 | 27295 | PDZ and LIM domain 3 |
| GO | structural constituent of muscle | 3 | 43 | 0.5708446 | 84033 | obscurin, cytoskeletal calmodulin and titin-interacting RhoGEF |
| GO | structural constituent of muscle | 3 | 43 | 0.5708446 | 8736 | myomesin 1, 185kDa |
| GO | ligand-dependent nuclear receptor b | 1 | 12 | 0.5725031 | 10891 | peroxisome proliferator-activated receptor gamma, coactivator 1 alph |
| GO | lysophospholipase activity | 1 | 12 | 0.5725031 | 11343 | monoglyceride lipase |
| GO | response to chemical stimulus | 1 | 12 | 0.5725031 | 1139 | cholinergic receptor, nicotinic, alpha 7 |
| GO | endothelial cell migration | 1 | 12 | 0.5725031 | 1803 | dipeptidyl-peptidase 4 |

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|---|---|---|---|---|---|---|
| GO | release of sequestered calcium ion in | 1 | 12 | 0.5725031 | 1813 | dopamine receptor D2 |
| GO | ephrin receptor activity | 1 | 12 | 0.5725031 | 1969 | EPH receptor A2 |
| GO | acetyltransferase activity | 1 | 12 | 0.5725031 | 2033 | E1A binding protein p300 |
| GO | arylsulfatase activity | 1 | 12 | 0.5725031 | 22901 | arylsulfatase G |
| GO | glutamate receptor activity | 1 | 12 | 0.5725031 | 2911 | glutamate receptor, metabotropic 1 |
| GO | estradiol 17-beta-dehydrogenase act | 1 | 12 | 0.5725031 | 3294 | hydroxysteroid (17-beta) dehydrogenase 2 |
| GO | male meiosis | 1 | 12 | 0.5725031 | 3306 | heat shock 70kDa protein 2 |
| GO | positive regulation of peptidyl-serine | 1 | 12 | 0.5725031 | 3569 | interleukin 6 (interferon, beta 2) |
| GO | cGMP biosynthetic process | 1 | 12 | 0.5725031 | 358 | aquaporin 1 (Colton blood group) |
| GO | activation of protein kinase activity | 1 | 12 | 0.5725031 | 3643 | insulin receptor |
| GO | platelet-derived growth factor recept | 1 | 12 | 0.5725031 | 3678 | integrin, alpha 5 (fibronectin receptor, alpha polypeptide) |
| GO | smooth muscle contraction | 1 | 12 | 0.5725031 | 3827 | kininogen 1 |
| GO | endochondral ossification | 1 | 12 | 0.5725031 | 4209 | myocyte enhancer factor 2D |
| GO | hydrolase activity, acting on carbon-r | 1 | 12 | 0.5725031 | 4817 | nitrilase 1 |
| GO | mitochondrial ATP synthesis coupled | 1 | 12 | 0.5725031 | 498 | ATP synthase, H+ transporting, mitochondrial F1 complex, alpha subun |
| GO | triglyceride homeostasis | 1 | 12 | 0.5725031 | 51085 | MLX interacting protein-like |
| GO | axon terminus | 1 | 12 | 0.5725031 | 5122 | proprotein convertase subtilisin/kexin type 1 |
| GO | costamere | 1 | 12 | 0.5725031 | 5239 | phosphoglucomutase 5 |
| GO | histone methylation | 1 | 12 | 0.5725031 | 54904 | Wolf-Hirschhorn syndrome candidate 1-like 1 |
| GO | iron-sulfur cluster binding | 1 | 12 | 0.5725031 | 55140 | elongation protein 3 homolog (S. cerevisiae) |
| GO | calcium channel regulator activity | 1 | 12 | 0.5725031 | 57620 | stromal interaction molecule 2 |
| GO | positive regulation of cellular compoı | 1 | 12 | 0.5725031 | 604 | B-cell CLL/lymphoma 6 |
| GO | voltage-gated sodium channel compl | 1 | 12 | 0.5725031 | 6330 | sodium channel, voltage-gated, type IV, beta |
| GO | positive regulation of innate immune | 1 | 12 | 0.5725031 | 64127 | nucleotide-binding oligomerization domain containing 2 |
| GO | dorsal/ventral neural tube patterning | 1 | 12 | 0.5725031 | 652 | bone morphogenetic protein 4 |
| GO | nBAF complex | 1 | 12 | 0.5725031 | 6604 | SWI/SNF related, matrix associated, actin dependent regulator of chroı |
| GO | alpha-tubulin binding | 1 | 12 | 0.5725031 | 6622 | synuclein, alpha (non A4 component of amyloid precursor) |
| GO | ferrous iron binding | 1 | 12 | 0.5725031 | 6622 | synuclein, alpha (non A4 component of amyloid precursor) |
| GO | glutamate signaling pathway | 1 | 12 | 0.5725031 | 6751 | somatostatin receptor 1 |
| GO | T cell receptor complex | 1 | 12 | 0.5725031 | 6850 | spleen tyrosine kinase |
| GO | negative regulation of cyclin-depende | 1 | 12 | 0.5725031 | 7026 | nuclear receptor subfamily 2, group F, member 2 |
| GO | regulation of muscle contraction | 1 | 12 | 0.5725031 | 7170 | tropomyosin 3 |
| GO | NLS-bearing substrate import into nu | 1 | 12 | 0.5725031 | 7227 | trichorhinophalangeal syndrome I |
| GO | mammary gland alveolus developme | 1 | 12 | 0.5725031 | 8600 | tumor necrosis factor (ligand) superfamily, member 11 |
| GO | regulation of lipid metabolic process | 1 | 12 | 0.5725031 | 8660 | insulin receptor substrate 2 |
| GO | cholesterol transporter activity | 1 | 12 | 0.5725031 | 9619 | ATP-binding cassette, sub-family G (WHITE), member 1 |

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|---|---|---|---|---|---|---|
| GO | protein oligomerization | 2 | 28 | 0.579464 | 10439 | olfactomedin 1 |
| GO | protein oligomerization | 2 | 28 | 0.579464 | 64127 | nucleotide-binding oligomerization domain containing 2 |
| GO | activation of phospholipase C activity | 2 | 28 | 0.579464 | 183 | angiotensinogen (serpin peptidase inhibitor, clade A, member 8) |
| GO | activation of phospholipase C activity | 2 | 28 | 0.579464 | 56923 | neuromedin U receptor 2 |
| GO | negative regulation of transforming g | 2 | 28 | 0.579464 | 2122 | MDS1 and EVI1 complex locus |
| GO | negative regulation of transforming g | 2 | 28 | 0.579464 | 3175 | one cut homeobox 1 |
| GO | small GTPase regulator activity | 2 | 28 | 0.579464 | 23043 | TRAF2 and NCK interacting kinase |
| GO | small GTPase regulator activity | 2 | 28 | 0.579464 | 5900 | ral guanine nucleotide dissociation stimulator |
| GO | antigen processing and presentation | 2 | 28 | 0.579464 | 3134 | major histocompatibility complex, class I, F |
| GO | antigen processing and presentation | 2 | 28 | 0.579464 | 5698 | proteasome (prosome, macropain) subunit, beta type, 9 (large multifu |
| GO | regulation of cell migration | 2 | 28 | 0.579464 | 3911 | laminin, alpha 5 |
| GO | regulation of cell migration | 2 | 28 | 0.579464 | 6750 | somatostatin |
| GO | ruffle membrane | 2 | 29 | 0.5988191 | 3678 | integrin, alpha 5 (fibronectin receptor, alpha polypeptide) |
| GO | ruffle membrane | 2 | 29 | 0.5988191 | 5152 | phosphodiesterase 9A |
| GO | chaperone binding | 2 | 29 | 0.5988191 | 5071 | Parkinson disease (autosomal recessive, juvenile) 2, parkin |
| GO | chaperone binding | 2 | 29 | 0.5988191 | 5122 | proprotein convertase subtilisin/kexin type 1 |
| GO | cyclin-dependent protein kinase activ | 2 | 29 | 0.5988191 | 5129 | cyclin-dependent kinase 18 |
| GO | cyclin-dependent protein kinase activ | 2 | 29 | 0.5988191 | 5218 | cyclin-dependent kinase 14 |
| GO | phosphate binding | 1 | 13 | 0.6017402 | 10568 | solute carrier family 34 (sodium phosphate), member 2 |
| GO | cAMP biosynthetic process | 1 | 13 | 0.6017402 | 112 | adenylate cyclase 6 |
| GO | folic acid binding | 1 | 13 | 0.6017402 | 113235 | solute carrier family 46 (folate transporter), member 1 |
| GO | cell wall macromolecule catabolic pro | 1 | 13 | 0.6017402 | 135112 | nuclear receptor coactivator 7 |
| GO | regulation of cell differentiation | 1 | 13 | 0.6017402 | 150094 | salt-inducible kinase 1 |
| GO | bone resorption | 1 | 13 | 0.6017402 | 154 | adrenergic, beta-2-, receptor, surface |
| GO | steroid hormone receptor signaling p | 1 | 13 | 0.6017402 | 158800 | Rhox homeobox family, member 1 |
| GO | epidermal growth factor receptor bin | 1 | 13 | 0.6017402 | 1839 | heparin-binding EGF-like growth factor |
| GO | positive regulation of hormone secre | 1 | 13 | 0.6017402 | 1906 | endothelin 1 |
| GO | endosome organization | 1 | 13 | 0.6017402 | 259173 | ALS2 C-terminal like |
| GO | receptor signaling complex scaffold a | 1 | 13 | 0.6017402 | 26119 | low density lipoprotein receptor adaptor protein 1 |
| GO | fibroblast growth factor receptor bin | 1 | 13 | 0.6017402 | 26281 | fibroblast growth factor 20 |
| GO | superoxide anion generation | 1 | 13 | 0.6017402 | 27035 | NADPH oxidase 1 |
| GO | serotonin receptor activity | 1 | 13 | 0.6017402 | 3355 | 5-hydroxytryptamine (serotonin) receptor 1F |
| GO | glial cell differentiation | 1 | 13 | 0.6017402 | 3479 | insulin-like growth factor 1 (somatomedin C) |
| GO | myoblast differentiation | 1 | 13 | 0.6017402 | 3479 | insulin-like growth factor 1 (somatomedin C) |
| GO | extracellular matrix binding | 1 | 13 | 0.6017402 | 3491 | cysteine-rich, angiogenic inducer, 61 |
| GO | oligodendrocyte development | 1 | 13 | 0.6017402 | 429 | achaete-scute complex homolog 1 (Drosophila) |

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|---|---|---|---|---|---|---|
| GO | hydrogen ion transporting ATP syntha | 1 | 13 | 0.6017402 | 498 | ATP synthase, H+ transporting, mitochondrial F1 complex, alpha subun |
| GO | protein autoubiquitination | 1 | 13 | 0.6017402 | 5071 | Parkinson disease (autosomal recessive, juvenile) 2, parkin |
| GO | retrograde transport, endosome to G | 1 | 13 | 0.6017402 | 51272 | blocked early in transport 1 homolog (S. cerevisiae)-like |
| GO | transcription elongation factor comp | 1 | 13 | 0.6017402 | 55140 | elongation protein 3 homolog (S. cerevisiae) |
| GO | regulation of protein kinase activity | 1 | 13 | 0.6017402 | 5577 | protein kinase, cAMP-dependent, regulatory, type II, beta |
| GO | organic anion transport | 1 | 13 | 0.6017402 | 55867 | solute carrier family 22 (organic anion/urate transporter), member 11 |
| GO | regulation of smooth muscle contrac | 1 | 13 | 0.6017402 | 56923 | neuromedin U receptor 2 |
| GO | hippo signaling pathway | 1 | 13 | 0.6017402 | 60485 | salvador homolog 1 (Drosophila) |
| GO | negative regulation of phosphorylatio | 1 | 13 | 0.6017402 | 652 | bone morphogenetic protein 4 |
| GO | low-density lipoprotein binding | 1 | 13 | 0.6017402 | 6653 | sortilin-related receptor, L(DLR class) A repeats-containing |
| GO | myosin binding | 1 | 13 | 0.6017402 | 84059 | G protein-coupled receptor 98 |
| GO | lipid homeostasis | 1 | 13 | 0.6017402 | 8660 | insulin receptor substrate 2 |
| GO | T cell homeostasis | 1 | 13 | 0.6017402 | 8740 | tumor necrosis factor (ligand) superfamily, member 14 |
| GO | response to bacterium | 1 | 13 | 0.6017402 | 9021 | suppressor of cytokine signaling 3 |
| GO | high-density lipoprotein particle rem | 1 | 13 | 0.6017402 | 9619 | ATP-binding cassette, sub-family G (WHITE), member 1 |
| GO | DNA-directed RNA polymerase II, cor | 1 | 14 | 0.6289792 | 10891 | peroxisome proliferator-activated receptor gamma, coactivator 1 alpha |
| GO | senescence | 1 | 14 | 0.6289792 | 11200 | CHK2 checkpoint homolog (S. pombe) |
| GO | dynein complex | 1 | 14 | 0.6289792 | 144132 | dynein heavy chain domain 1 |
| GO | nuclear heterochromatin | 1 | 14 | 0.6289792 | 2296 | forkhead box C1 |
| GO | DNA methylation | 1 | 14 | 0.6289792 | 2353 | FBJ murine osteosarcoma viral oncogene homolog |
| GO | cellular response to starvation | 1 | 14 | 0.6289792 | 255738 | proprotein convertase subtilisin/kexin type 9 |
| GO | membrane protein ectodomain prote | 1 | 14 | 0.6289792 | 25825 | beta-site APP-cleaving enzyme 2 |
| GO | regulation of action potential | 1 | 14 | 0.6289792 | 27345 | potassium large conductance calcium-activated channel, subfamily M, |
| GO | anatomical structure formation invol | 1 | 14 | 0.6289792 | 2737 | GLI family zinc finger 3 |
| GO | positive regulation of transforming gr | 1 | 14 | 0.6289792 | 28996 | homeodomain interacting protein kinase 2 |
| GO | regulation of transforming growth fa | 1 | 14 | 0.6289792 | 4087 | SMAD family member 2 |
| GO | phosphoinositide phosphorylation | 1 | 14 | 0.6289792 | 5295 | phosphoinositide-3-kinase, regulatory subunit 1 (alpha) |
| GO | 3'-5' exonuclease activity | 1 | 14 | 0.6289792 | 54932 | exonuclease 3'-5' domain containing 3 |
| GO | cytokine production | 1 | 14 | 0.6289792 | 5724 | platelet-activating factor receptor |
| GO | microtubule-based flagellum | 1 | 14 | 0.6289792 | 64064 | 3-oxoacid CoA transferase 2 |
| GO | response to interferon-gamma | 1 | 14 | 0.6289792 | 6622 | synuclein, alpha (non A4 component of amyloid precursor) |
| GO | tropomyosin binding | 1 | 14 | 0.6289792 | 7111 | tropomodulin 1 |
| GO | filamentous actin | 1 | 14 | 0.6289792 | 7170 | tropomyosin 3 |
| GO | voltage-gated potassium channel acti | 3 | 63 | 0.989 | 10008 | potassium voltage-gated channel, Isk-related family, member 3 |
| GO | voltage-gated potassium channel acti | 3 | 63 | 0.989 | 3786 | potassium voltage-gated channel, KQT-like subfamily, member 3 |
| GO | voltage-gated potassium channel acti | 3 | 63 | 0.989 | 8514 | potassium voltage-gated channel, shaker-related subfamily, beta mem |

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|---|---|---|---|---|---|---|
| GO | chromatin modification | 11 | 204 | 0.989 | 10014 | histone deacetylase 5 |
| GO | chromatin modification | 11 | 204 | 0.989 | 151636 | deltex 3-like (Drosophila) |
| GO | chromatin modification | 11 | 204 | 0.989 | 23081 | lysine (K)-specific demethylase 4C |
| GO | chromatin modification | 11 | 204 | 0.989 | 23492 | chromobox homolog 7 |
| GO | chromatin modification | 11 | 204 | 0.989 | 23774 | bromodomain containing 1 |
| GO | chromatin modification | 11 | 204 | 0.989 | 54904 | Wolf-Hirschhorn syndrome candidate 1-like 1 |
| GO | chromatin modification | 11 | 204 | 0.989 | 55693 | lysine (K)-specific demethylase 4D |
| GO | chromatin modification | 11 | 204 | 0.989 | 55870 | ash1 (absent, small, or homeotic)-like (Drosophila) |
| GO | chromatin modification | 11 | 204 | 0.989 | 6604 | SWI/SNF related, matrix associated, actin dependent regulator of chro |
| GO | chromatin modification | 11 | 204 | 0.989 | 7404 | ubiquitously transcribed tetratricopeptide repeat gene, Y-linked |
| GO | chromatin modification | 11 | 204 | 0.989 | 9734 | histone deacetylase 9 |
| GO | chromatin organization | 1 | 19 | 0.989 | 10014 | histone deacetylase 5 |
| GO | chromatin remodeling | 2 | 46 | 0.989 | 10014 | histone deacetylase 5 |
| GO | chromatin remodeling | 2 | 46 | 0.989 | 3169 | forkhead box A1 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 10014 | histone deacetylase 5 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 10023 | frequently rearranged in advanced T-cell lymphomas |
| GO | cytoplasm | 293 | 4355 | 0.989 | 1009 | cadherin 11, type 2, OB-cadherin (osteoblast) |
| GO | cytoplasm | 293 | 4355 | 0.989 | 10116 | fem-1 homolog b (C. elegans) |
| GO | cytoplasm | 293 | 4355 | 0.989 | 10156 | RAS p21 protein activator 4 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 10221 | tribbles homolog 1 (Drosophila) |
| GO | cytoplasm | 293 | 4355 | 0.989 | 10252 | sprouty homolog 1, antagonist of FGF signaling (Drosophila) |
| GO | cytoplasm | 293 | 4355 | 0.989 | 10253 | sprouty homolog 2 (Drosophila) |
| GO | cytoplasm | 293 | 4355 | 0.989 | 10335 | murine retrovirus integration site 1 homolog |
| GO | cytoplasm | 293 | 4355 | 0.989 | 10346 | tripartite motif-containing 22 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 10397 | N-myc downstream regulated 1 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 10435 | CDC42 effector protein (Rho GTPase binding) 2 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 10561 | interferon-induced protein 44 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 10628 | thioredoxin interacting protein |
| GO | cytoplasm | 293 | 4355 | 0.989 | 10766 | transducer of ERBB2, 2 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 1080 | cystic fibrosis transmembrane conductance regulator (ATP-binding cas |
| GO | cytoplasm | 293 | 4355 | 0.989 | 10811 | NADPH oxidase activator 1 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 10942 | protease, serine, 21 (testisin) |
| GO | cytoplasm | 293 | 4355 | 0.989 | 10964 | interferon-induced protein 44-like |
| GO | cytoplasm | 293 | 4355 | 0.989 | 11030 | RNA binding protein with multiple splicing |
| GO | cytoplasm | 293 | 4355 | 0.989 | 11043 | midline 2 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 11074 | tripartite motif-containing 31 |

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|---|---|---|---|---|---|---|
| GO | cytoplasm | 293 | 4355 | 0.989 | 11078 | TRIO and F-actin binding protein |
| GO | cytoplasm | 293 | 4355 | 0.989 | 11155 | LIM domain binding 3 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 11213 | interleukin-1 receptor-associated kinase 3 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 113235 | solute carrier family 46 (folate transporter), member 1 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 113263 | glucocorticoid induced transcript 1 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 114569 | mal, T-cell differentiation protein 2 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 1152 | creatine kinase, brain |
| GO | cytoplasm | 293 | 4355 | 0.989 | 115265 | DNA-damage-inducible transcript 4-like |
| GO | cytoplasm | 293 | 4355 | 0.989 | 116113 | forkhead box P4 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 116984 | ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 2 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 1193 | chloride intracellular channel 2 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 123 | perilipin 2 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 124 | alcohol dehydrogenase 1A (class I), alpha polypeptide |
| GO | cytoplasm | 293 | 4355 | 0.989 | 125 | alcohol dehydrogenase 1B (class I), beta polypeptide |
| GO | cytoplasm | 293 | 4355 | 0.989 | 127933 | U2AF homology motif (UHM) kinase 1 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 134549 | shroom family member 1 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 1373 | carbamoyl-phosphate synthetase 1, mitochondrial |
| GO | cytoplasm | 293 | 4355 | 0.989 | 1382 | cellular retinoic acid binding protein 2 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 140901 | serine/threonine kinase 35 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 143689 | piwi-like 4 (Drosophila) |
| GO | cytoplasm | 293 | 4355 | 0.989 | 148170 | CDC42 effector protein (Rho GTPase binding) 5 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 150094 | salt-inducible kinase 1 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 1508 | cathepsin B |
| GO | cytoplasm | 293 | 4355 | 0.989 | 151636 | deltex 3-like (Drosophila) |
| GO | cytoplasm | 293 | 4355 | 0.989 | 152273 | FYVE, RhoGEF and PH domain containing 5 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 1540 | cylindromatosis (turban tumor syndrome) |
| GO | cytoplasm | 293 | 4355 | 0.989 | 154043 | CNKSR family member 3 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 154810 | angiomotin like 1 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 157506 | retinol dehydrogenase 10 (all-trans) |
| GO | cytoplasm | 293 | 4355 | 0.989 | 157638 | family with sequence similarity 84, member B |
| GO | cytoplasm | 293 | 4355 | 0.989 | 1612 | death-associated protein kinase 1 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 1755 | deleted in malignant brain tumors 1 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 1785 | dynamin 2 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 1820 | AT rich interactive domain 3A (BRIGHT-like) |
| GO | cytoplasm | 293 | 4355 | 0.989 | 1821 | dystrophin related protein 2 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 1822 | atrophin 1 |

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|---|---|---|---|---|---|---|
| GO | cytoplasm | 293 | 4355 | 0.989 | 1906 | endothelin 1 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 1915 | eukaryotic translation elongation factor 1 alpha 1 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 1958 | early growth response 1 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 196383 | Rab interacting lysosomal protein-like 2 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 1983 | eukaryotic translation initiation factor 5 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 1999 | E74-like factor 3 (ets domain transcription factor, epithelial-specific ) |
| GO | cytoplasm | 293 | 4355 | 0.989 | 2026 | enolase 2 (gamma, neuronal) |
| GO | cytoplasm | 293 | 4355 | 0.989 | 2033 | E1A binding protein p300 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 2039 | erythrocyte membrane protein band 4.9 (dematin) |
| GO | cytoplasm | 293 | 4355 | 0.989 | 2066 | v-erb-a erythroblastic leukemia viral oncogene homolog 4 (avian) |
| GO | cytoplasm | 293 | 4355 | 0.989 | 2263 | fibroblast growth factor receptor 2 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 22906 | trafficking protein, kinesin binding 1 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 23035 | PH domain and leucine rich repeat protein phosphatase 2 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 23043 | TRAF2 and NCK interacting kinase |
| GO | cytoplasm | 293 | 4355 | 0.989 | 23048 | formin binding protein 1 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 23092 | Rho GTPase activating protein 26 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 23095 | kinesin family member 1B |
| GO | cytoplasm | 293 | 4355 | 0.989 | 23263 | MCF.2 cell line derived transforming sequence-like |
| GO | cytoplasm | 293 | 4355 | 0.989 | 23303 | kinesin family member 13B |
| GO | cytoplasm | 293 | 4355 | 0.989 | 23365 | Rho guanine nucleotide exchange factor (GEF) 12 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 23368 | protein phosphatase 1, regulatory (inhibitor) subunit 13B |
| GO | cytoplasm | 293 | 4355 | 0.989 | 23373 | CREB regulated transcription coactivator 1 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 23387 | SIK family kinase 3 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 23476 | bromodomain containing 4 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 23604 | death-associated protein kinase 2 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 23650 | tripartite motif-containing 29 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 23780 | apolipoprotein L, 2 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 240 | arachidonate 5-lipoxygenase |
| GO | cytoplasm | 293 | 4355 | 0.989 | 2517 | fucosidase, alpha-L- 1, tissue |
| GO | cytoplasm | 293 | 4355 | 0.989 | 257019 | FERM domain containing 3 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 2571 | glutamate decarboxylase 1 (brain, 67kDa) |
| GO | cytoplasm | 293 | 4355 | 0.989 | 259173 | ALS2 C-terminal like |
| GO | cytoplasm | 293 | 4355 | 0.989 | 25946 | zinc finger protein 385A |
| GO | cytoplasm | 293 | 4355 | 0.989 | 25956 | SEC31 homolog B (S. cerevisiae) |
| GO | cytoplasm | 293 | 4355 | 0.989 | 26119 | low density lipoprotein receptor adaptor protein 1 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 26191 | protein tyrosine phosphatase, non-receptor type 22 (lymphoid) |

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|---|---|---|---|---|---|---|
| GO | cytoplasm | 293 | 4355 | 0.989 | 26270 | F-box protein 6 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 27035 | NADPH oxidase 1 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 27295 | PDZ and LIM domain 3 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 2737 | GLI family zinc finger 3 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 2752 | glutamate-ammonia ligase (glutamine synthetase) |
| GO | cytoplasm | 293 | 4355 | 0.989 | 28951 | tribbles homolog 2 (Drosophila) |
| GO | cytoplasm | 293 | 4355 | 0.989 | 28996 | homeodomain interacting protein kinase 2 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 29108 | PYD and CARD domain containing |
| GO | cytoplasm | 293 | 4355 | 0.989 | 29116 | myosin regulatory light chain interacting protein |
| GO | cytoplasm | 293 | 4355 | 0.989 | 2947 | glutathione S-transferase mu 3 (brain) |
| GO | cytoplasm | 293 | 4355 | 0.989 | 29760 | B-cell linker |
| GO | cytoplasm | 293 | 4355 | 0.989 | 29943 | peptidyl arginine deiminase, type I |
| GO | cytoplasm | 293 | 4355 | 0.989 | 3034 | histidine ammonia-lyase |
| GO | cytoplasm | 293 | 4355 | 0.989 | 311 | annexin A11 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 3142 | H2.0-like homeobox |
| GO | cytoplasm | 293 | 4355 | 0.989 | 316 | aldehyde oxidase 1 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 3192 | heterogeneous nuclear ribonucleoprotein U (scaffold attachment factc |
| GO | cytoplasm | 293 | 4355 | 0.989 | 3428 | interferon, gamma-inducible protein 16 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 345895 | radial spoke head 4 homolog A (Chlamydomonas) |
| GO | cytoplasm | 293 | 4355 | 0.989 | 358 | aquaporin 1 (Colton blood group) |
| GO | cytoplasm | 293 | 4355 | 0.989 | 3587 | interleukin 10 receptor, alpha |
| GO | cytoplasm | 293 | 4355 | 0.989 | 3665 | interferon regulatory factor 7 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 3709 | inositol 1,4,5-triphosphate receptor, type 2 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 375449 | microtubule associated serine/threonine kinase family member 4 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 3775 | potassium channel, subfamily K, member 1 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 3790 | potassium voltage-gated channel, delayed-rectifier, subfamily S, memb |
| GO | cytoplasm | 293 | 4355 | 0.989 | 3815 | v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog |
| GO | cytoplasm | 293 | 4355 | 0.989 | 388743 | calpain 8 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 389337 | Rho guanine nucleotide exchange factor (GEF) 37 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 395 | Rho GTPase activating protein 6 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 3958 | lectin, galactoside-binding, soluble, 3 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 3983 | actin binding LIM protein 1 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 3993 | lethal giant larvae homolog 2 (Drosophila) |
| GO | cytoplasm | 293 | 4355 | 0.989 | 4008 | LIM domain 7 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 4087 | SMAD family member 2 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 4163 | mutated in colorectal cancers |

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|---|---|---|---|---|---|---|
| GO | cytoplasm | 293 | 4355 | 0.989 | 4170 | myeloid cell leukemia sequence 1 (BCL2-related) |
| GO | cytoplasm | 293 | 4355 | 0.989 | 4209 | myocyte enhancer factor 2D |
| GO | cytoplasm | 293 | 4355 | 0.989 | 4212 | Meis homeobox 2 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 4223 | mesenchyme homeobox 2 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 4254 | KIT ligand |
| GO | cytoplasm | 293 | 4355 | 0.989 | 4306 | nuclear receptor subfamily 3, group C, member 2 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 4582 | mucin 1, cell surface associated |
| GO | cytoplasm | 293 | 4355 | 0.989 | 4599 | myxovirus (influenza virus) resistance 1, interferon-inducible protein p |
| GO | cytoplasm | 293 | 4355 | 0.989 | 4600 | myxovirus (influenza virus) resistance 2 (mouse) |
| GO | cytoplasm | 293 | 4355 | 0.989 | 4692 | necdin homolog (mouse) |
| GO | cytoplasm | 293 | 4355 | 0.989 | 4778 | nuclear factor (erythroid-derived 2), 45kDa |
| GO | cytoplasm | 293 | 4355 | 0.989 | 4791 | nuclear factor of kappa light polypeptide gene enhancer in B-cells 2 (p |
| GO | cytoplasm | 293 | 4355 | 0.989 | 4792 | nuclear factor of kappa light polypeptide gene enhancer in B-cells inhi |
| GO | cytoplasm | 293 | 4355 | 0.989 | 4794 | nuclear factor of kappa light polypeptide gene enhancer in B-cells inhi |
| GO | cytoplasm | 293 | 4355 | 0.989 | 48 | aconitase 1, soluble |
| GO | cytoplasm | 293 | 4355 | 0.989 | 4817 | nitrilase 1 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 4842 | nitric oxide synthase 1 (neuronal) |
| GO | cytoplasm | 293 | 4355 | 0.989 | 4849 | CCR4-NOT transcription complex, subunit 3 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 4851 | Notch homolog 1, translocation-associated (Drosophila) |
| GO | cytoplasm | 293 | 4355 | 0.989 | 4889 | neuropeptide Y receptor Y5 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 4929 | nuclear receptor subfamily 4, group A, member 2 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 5071 | Parkinson disease (autosomal recessive, juvenile) 2, parkin |
| GO | cytoplasm | 293 | 4355 | 0.989 | 50865 | heme binding protein 1 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 51085 | MLX interacting protein-like |
| GO | cytoplasm | 293 | 4355 | 0.989 | 51168 | myosin XVA |
| GO | cytoplasm | 293 | 4355 | 0.989 | 51228 | glycolipid transfer protein |
| GO | cytoplasm | 293 | 4355 | 0.989 | 51314 | thioredoxin domain containing 3 (spermatozoa) |
| GO | cytoplasm | 293 | 4355 | 0.989 | 5132 | phosducin |
| GO | cytoplasm | 293 | 4355 | 0.989 | 5152 | phosphodiesterase 9A |
| GO | cytoplasm | 293 | 4355 | 0.989 | 51523 | CXXC finger 5 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 51655 | RAS, dexamethasone-induced 1 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 51710 | zinc finger protein 44 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 51754 | transmembrane protein 8B |
| GO | cytoplasm | 293 | 4355 | 0.989 | 5187 | period homolog 1 (Drosophila) |
| GO | cytoplasm | 293 | 4355 | 0.989 | 5218 | cyclin-dependent kinase 14 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 5239 | phosphoglucomutase 5 |

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|---|---|---|---|---|---|---|
| GO | cytoplasm | 293 | 4355 | 0.989 | 5327 | plasminogen activator, tissue |
| GO | cytoplasm | 293 | 4355 | 0.989 | 53347 | ubiquitin associated and SH3 domain containing, A |
| GO | cytoplasm | 293 | 4355 | 0.989 | 53405 | chloride intracellular channel 5 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 5371 | promyelocytic leukemia |
| GO | cytoplasm | 293 | 4355 | 0.989 | 5460 | POU class 5 homeobox 1 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 54739 | XIAP associated factor 1 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 54877 | zinc finger, CCHC domain containing 2 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 54961 | slingshot homolog 3 (Drosophila) |
| GO | cytoplasm | 293 | 4355 | 0.989 | 55124 | piwi-like 2 (Drosophila) |
| GO | cytoplasm | 293 | 4355 | 0.989 | 55140 | elongation protein 3 homolog (S. cerevisiae) |
| GO | cytoplasm | 293 | 4355 | 0.989 | 55160 | Rho guanine nucleotide exchange factor (GEF) 10-like |
| GO | cytoplasm | 293 | 4355 | 0.989 | 55200 | pleckstrin homology domain containing, family G (with RhoGef domain |
| GO | cytoplasm | 293 | 4355 | 0.989 | 55249 | YY1 associated protein 1 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 55616 | ArfGAP with SH3 domain, ankyrin repeat and PH domain 3 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 55638 | Golgi-localized protein |
| GO | cytoplasm | 293 | 4355 | 0.989 | 55705 | importin 9 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 55740 | enabled homolog (Drosophila) |
| GO | cytoplasm | 293 | 4355 | 0.989 | 5577 | protein kinase, cAMP-dependent, regulatory, type II, beta |
| GO | cytoplasm | 293 | 4355 | 0.989 | 55893 | zinc finger protein 395 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 55909 | bridging integrator 3 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 56271 | brain expressed, X-linked 4 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 56288 | par-3 partitioning defective 3 homolog (C. elegans) |
| GO | cytoplasm | 293 | 4355 | 0.989 | 5696 | proteasome (prosome, macropain) subunit, beta type, 8 (large multifu |
| GO | cytoplasm | 293 | 4355 | 0.989 | 5698 | proteasome (prosome, macropain) subunit, beta type, 9 (large multifu |
| GO | cytoplasm | 293 | 4355 | 0.989 | 5699 | proteasome (prosome, macropain) subunit, beta type, 10 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 57118 | calcium/calmodulin-dependent protein kinase ID |
| GO | cytoplasm | 293 | 4355 | 0.989 | 57132 | chromatin modifying protein 1B |
| GO | cytoplasm | 293 | 4355 | 0.989 | 57147 | SCY1-like 3 (S. cerevisiae) |
| GO | cytoplasm | 293 | 4355 | 0.989 | 57186 | Ral GTPase activating protein, alpha subunit 2 (catalytic) |
| GO | cytoplasm | 293 | 4355 | 0.989 | 57214 | KIAA1199 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 573 | BCL2-associated athanogene |
| GO | cytoplasm | 293 | 4355 | 0.989 | 57379 | activation-induced cytidine deaminase |
| GO | cytoplasm | 293 | 4355 | 0.989 | 5742 | prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase a |
| GO | cytoplasm | 293 | 4355 | 0.989 | 57524 | CASK interacting protein 1 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 57619 | shroom family member 3 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 5774 | protein tyrosine phosphatase, non-receptor type 3 |

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|---|---|---|---|---|---|---|
| GO | cytoplasm | 293 | 4355 | 0.989 | 5791 | protein tyrosine phosphatase, receptor type, E |
| GO | cytoplasm | 293 | 4355 | 0.989 | 5794 | protein tyrosine phosphatase, receptor type, H |
| GO | cytoplasm | 293 | 4355 | 0.989 | 5801 | protein tyrosine phosphatase, receptor type, R |
| GO | cytoplasm | 293 | 4355 | 0.989 | 60485 | salvador homolog 1 (Drosophila) |
| GO | cytoplasm | 293 | 4355 | 0.989 | 6239 | ras responsive element binding protein 1 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 64083 | golgi phosphoprotein 3 (coat-protein) |
| GO | cytoplasm | 293 | 4355 | 0.989 | 64108 | receptor (chemosensory) transporter protein 4 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 64127 | nucleotide-binding oligomerization domain containing 2 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 64135 | interferon induced with helicase C domain 1 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 642273 | family with sequence similarity 110, member C |
| GO | cytoplasm | 293 | 4355 | 0.989 | 64359 | nucleoredoxin |
| GO | cytoplasm | 293 | 4355 | 0.989 | 6446 | serum/glucocorticoid regulated kinase 1 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 6494 | signal-induced proliferation-associated 1 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 652 | bone morphogenetic protein 4 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 6622 | synuclein, alpha (non A4 component of amyloid precursor) |
| GO | cytoplasm | 293 | 4355 | 0.989 | 6706 | small proline-rich protein 2G |
| GO | cytoplasm | 293 | 4355 | 0.989 | 6710 | spectrin, beta, erythrocytic |
| GO | cytoplasm | 293 | 4355 | 0.989 | 6778 | signal transducer and activator of transcription 6, interleukin-4 induce |
| GO | cytoplasm | 293 | 4355 | 0.989 | 6812 | syntaxin binding protein 1 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 6819 | sulfotransferase family, cytosolic, 1C, member 2 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 6850 | spleen tyrosine kinase |
| GO | cytoplasm | 293 | 4355 | 0.989 | 6857 | synaptotagmin I |
| GO | cytoplasm | 293 | 4355 | 0.989 | 7001 | peroxiredoxin 2 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 7097 | toll-like receptor 2 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 7098 | toll-like receptor 3 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 7099 | toll-like receptor 4 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 7111 | tropomodulin 1 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 7170 | tropomyosin 3 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 7474 | wingless-type MMTV integration site family, member 5A |
| GO | cytoplasm | 293 | 4355 | 0.989 | 7538 | zinc finger protein 36, C3H type, homolog (mouse) |
| GO | cytoplasm | 293 | 4355 | 0.989 | 7597 | zinc finger and BTB domain containing 25 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 760 | carbonic anhydrase II |
| GO | cytoplasm | 293 | 4355 | 0.989 | 7706 | tripartite motif-containing 25 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 7852 | chemokine (C-X-C motif) receptor 4 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 79092 | caspase recruitment domain family, member 14 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 79098 | chromosome 1 open reading frame 116 |

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| GO | cytoplasm | 293 | 4355 | 0.989 | 79132 | DEXH (Asp-Glu-X-His) box polypeptide 58 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 79444 | baculoviral IAP repeat-containing 7 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 79661 | nei endonuclease VIII-like 1 (E. coli) |
| GO | cytoplasm | 293 | 4355 | 0.989 | 79789 | calmin (calponin-like, transmembrane) |
| GO | cytoplasm | 293 | 4355 | 0.989 | 79816 | transducin-like enhancer of split 6 (E(sp1) homolog, Drosophila) |
| GO | cytoplasm | 293 | 4355 | 0.989 | 79987 | sushi, von Willebrand factor type A, EGF and pentraxin domain contain |
| GO | cytoplasm | 293 | 4355 | 0.989 | 80830 | apolipoprotein L, 6 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 80833 | apolipoprotein L, 3 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 81544 | glycerophosphodiester phosphodiesterase domain containing 5 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 8313 | axin 2 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 834 | caspase 1, apoptosis-related cysteine peptidase (interleukin 1, beta, co |
| GO | cytoplasm | 293 | 4355 | 0.989 | 83593 | Ras association (RalGDS/AF-6) domain family member 5 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 83595 | SRY (sex determining region Y)-box 7 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 83666 | poly (ADP-ribose) polymerase family, member 9 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 84033 | obscurin, cytoskeletal calmodulin and titin-interacting RhoGEF |
| GO | cytoplasm | 293 | 4355 | 0.989 | 84059 | G protein-coupled receptor 98 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 8418 | cytidine monophosphate-N-acetylneuraminic acid hydroxylase (CMP-N |
| GO | cytoplasm | 293 | 4355 | 0.989 | 84875 | poly (ADP-ribose) polymerase family, member 10 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 84941 | hematopoietic SH2 domain containing |
| GO | cytoplasm | 293 | 4355 | 0.989 | 85004 | RAS-like, estrogen-regulated, growth inhibitor |
| GO | cytoplasm | 293 | 4355 | 0.989 | 8514 | potassium voltage-gated channel, shaker-related subfamily, beta mem |
| GO | cytoplasm | 293 | 4355 | 0.989 | 8527 | diacylglycerol kinase, delta 130kDa |
| GO | cytoplasm | 293 | 4355 | 0.989 | 8531 | cold shock domain protein A |
| GO | cytoplasm | 293 | 4355 | 0.989 | 85477 | scinderin |
| GO | cytoplasm | 293 | 4355 | 0.989 | 8556 | CDC14 cell division cycle 14 homolog A (S. cerevisiae) |
| GO | cytoplasm | 293 | 4355 | 0.989 | 8600 | tumor necrosis factor (ligand) superfamily, member 11 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 8631 | src kinase associated phosphoprotein 1 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 8653 | DEAD (Asp-Glu-Ala-Asp) box polypeptide 3, Y-linked |
| GO | cytoplasm | 293 | 4355 | 0.989 | 8660 | insulin receptor substrate 2 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 8740 | tumor necrosis factor (ligand) superfamily, member 14 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 8796 | sciellin |
| GO | cytoplasm | 293 | 4355 | 0.989 | 8839 | WNT1 inducible signaling pathway protein 2 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 8848 | TSC22 domain family, member 1 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 8863 | period homolog 3 (Drosophila) |
| GO | cytoplasm | 293 | 4355 | 0.989 | 8864 | period homolog 2 (Drosophila) |
| GO | cytoplasm | 293 | 4355 | 0.989 | 8912 | calcium channel, voltage-dependent, T type, alpha 1H subunit |

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|---|---|---|---|---|---|---|
| GO | cytoplasm | 293 | 4355 | 0.989 | 89778 | serpin peptidase inhibitor, clade B (ovalbumin), member 11 (gene/pseu |
| GO | cytoplasm | 293 | 4355 | 0.989 | 8996 | nucleolar protein 3 (apoptosis repressor with CARD domain) |
| GO | cytoplasm | 293 | 4355 | 0.989 | 9021 | suppressor of cytokine signaling 3 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 90362 | family with sequence similarity 110, member B |
| GO | cytoplasm | 293 | 4355 | 0.989 | 9050 | proline-serine-threonine phosphatase interacting protein 2 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 9087 | thymosin beta 4, Y-linked |
| GO | cytoplasm | 293 | 4355 | 0.989 | 9185 | RALBP1 associated Eps domain containing 2 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 9271 | piwi-like 1 (Drosophila) |
| GO | cytoplasm | 293 | 4355 | 0.989 | 93100 | nicotinate phosphoribosyltransferase domain containing 1 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 9414 | tight junction protein 2 (zona occludens 2) |
| GO | cytoplasm | 293 | 4355 | 0.989 | 9592 | immediate early response 2 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 9595 | cytohesin 1 interacting protein |
| GO | cytoplasm | 293 | 4355 | 0.989 | 9633 | metallothionein-like 5, testis-specific (tesmin) |
| GO | cytoplasm | 293 | 4355 | 0.989 | 9734 | histone deacetylase 9 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 9764 | KIAA0513 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 9788 | metastasis suppressor 1 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 9904 | RNA binding motif protein 19 |
| GO | cytoplasm | 293 | 4355 | 0.989 | 9935 | v-maf musculoaponeurotic fibrosarcoma oncogene homolog B (avian) |
| GO | cytoplasm | 293 | 4355 | 0.989 | 9962 | solute carrier family 23 (nucleobase transporters), member 2 |
| GO | hydrolase activity | 61 | 917 | 0.989 | 10014 | histone deacetylase 5 |
| GO | hydrolase activity | 61 | 917 | 0.989 | 10076 | protein tyrosine phosphatase, receptor type, U |
| GO | hydrolase activity | 61 | 917 | 0.989 | 10106 | CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) sma |
| GO | hydrolase activity | 61 | 917 | 0.989 | 104 | adenosine deaminase, RNA-specific, B1 (RED1 homolog rat) |
| GO | hydrolase activity | 61 | 917 | 0.989 | 1080 | cystic fibrosis transmembrane conductance regulator (ATP-binding cas |
| GO | hydrolase activity | 61 | 917 | 0.989 | 11156 | protein tyrosine phosphatase type IVA, member 3 |
| GO | hydrolase activity | 61 | 917 | 0.989 | 1117 | chitinase 3-like 2 |
| GO | hydrolase activity | 61 | 917 | 0.989 | 11343 | monoglyceride lipase |
| GO | hydrolase activity | 61 | 917 | 0.989 | 130367 | sphingosine-1-phosphate phosphotase 2 |
| GO | hydrolase activity | 61 | 917 | 0.989 | 148229 | ATPase, class I, type 8B, member 3 |
| GO | hydrolase activity | 61 | 917 | 0.989 | 1785 | dynamin 2 |
| GO | hydrolase activity | 61 | 917 | 0.989 | 1843 | dual specificity phosphatase 1 |
| GO | hydrolase activity | 61 | 917 | 0.989 | 1844 | dual specificity phosphatase 2 |
| GO | hydrolase activity | 61 | 917 | 0.989 | 1847 | dual specificity phosphatase 5 |
| GO | hydrolase activity | 61 | 917 | 0.989 | 22901 | arylsulfatase G |
| GO | hydrolase activity | 61 | 917 | 0.989 | 23035 | PH domain and leucine rich repeat protein phosphatase 2 |
| GO | hydrolase activity | 61 | 917 | 0.989 | 23371 | tensin like C1 domain containing phosphatase (tensin 2) |

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| GO | hydrolase activity | 61 | 917 | 0.989 | 23382 | adenosylhomocysteinase-like 2 |
| GO | hydrolase activity | 61 | 917 | 0.989 | 26191 | protein tyrosine phosphatase, non-receptor type 22 (lymphoid) |
| GO | hydrolase activity | 61 | 917 | 0.989 | 271 | adenosine monophosphate deaminase 2 |
| GO | hydrolase activity | 61 | 917 | 0.989 | 27165 | glutaminase 2 (liver, mitochondrial) |
| GO | hydrolase activity | 61 | 917 | 0.989 | 29943 | peptidyl arginine deiminase, type I |
| GO | hydrolase activity | 61 | 917 | 0.989 | 340654 | lipase, family member M |
| GO | hydrolase activity | 61 | 917 | 0.989 | 412 | steroid sulfatase (microsomal), isozyme S |
| GO | hydrolase activity | 61 | 917 | 0.989 | 493 | ATPase, Ca++ transporting, plasma membrane 4 |
| GO | hydrolase activity | 61 | 917 | 0.989 | 5136 | phosphodiesterase 1A, calmodulin-dependent |
| GO | hydrolase activity | 61 | 917 | 0.989 | 5152 | phosphodiesterase 9A |
| GO | hydrolase activity | 61 | 917 | 0.989 | 5158 | phosphodiesterase 6B, cGMP-specific, rod, beta |
| GO | hydrolase activity | 61 | 917 | 0.989 | 5243 | ATP-binding cassette, sub-family B (MDR/TAP), member 1 |
| GO | hydrolase activity | 61 | 917 | 0.989 | 5244 | ATP-binding cassette, sub-family B (MDR/TAP), member 4 |
| GO | hydrolase activity | 61 | 917 | 0.989 | 54932 | exonuclease 3'-5' domain containing 3 |
| GO | hydrolase activity | 61 | 917 | 0.989 | 54961 | slingshot homolog 3 (Drosophila) |
| GO | hydrolase activity | 61 | 917 | 0.989 | 55601 | DEAD (Asp-Glu-Ala-Asp) box polypeptide 60 |
| GO | hydrolase activity | 61 | 917 | 0.989 | 56261 | glycerophosphocholine phosphodiesterase GDE1 homolog (S. cerevisia |
| GO | hydrolase activity | 61 | 917 | 0.989 | 57104 | patatin-like phospholipase domain containing 2 |
| GO | hydrolase activity | 61 | 917 | 0.989 | 57379 | activation-induced cytidine deaminase |
| GO | hydrolase activity | 61 | 917 | 0.989 | 5774 | protein tyrosine phosphatase, non-receptor type 3 |
| GO | hydrolase activity | 61 | 917 | 0.989 | 5787 | protein tyrosine phosphatase, receptor type, B |
| GO | hydrolase activity | 61 | 917 | 0.989 | 5789 | protein tyrosine phosphatase, receptor type, D |
| GO | hydrolase activity | 61 | 917 | 0.989 | 5791 | protein tyrosine phosphatase, receptor type, E |
| GO | hydrolase activity | 61 | 917 | 0.989 | 5794 | protein tyrosine phosphatase, receptor type, H |
| GO | hydrolase activity | 61 | 917 | 0.989 | 5799 | protein tyrosine phosphatase, receptor type, N polypeptide 2 |
| GO | hydrolase activity | 61 | 917 | 0.989 | 5801 | protein tyrosine phosphatase, receptor type, R |
| GO | hydrolase activity | 61 | 917 | 0.989 | 58489 | family with sequence similarity 108, member C1 |
| GO | hydrolase activity | 61 | 917 | 0.989 | 64135 | interferon induced with helicase C domain 1 |
| GO | hydrolase activity | 61 | 917 | 0.989 | 79132 | DEXH (Asp-Glu-X-His) box polypeptide 58 |
| GO | hydrolase activity | 61 | 917 | 0.989 | 7941 | phospholipase A2, group VII (platelet-activating factor acetylhydrolase, |
| GO | hydrolase activity | 61 | 917 | 0.989 | 79887 | phospholipase B domain containing 1 |
| GO | hydrolase activity | 61 | 917 | 0.989 | 79895 | ATPase, class I, type 8B, member 4 |
| GO | hydrolase activity | 61 | 917 | 0.989 | 81544 | glycerophosphodiester phosphodiesterase domain containing 5 |
| GO | hydrolase activity | 61 | 917 | 0.989 | 8509 | N-deacetylase/N-sulfotransferase (heparan glucosaminyl) 2 |
| GO | hydrolase activity | 61 | 917 | 0.989 | 85441 | peroxisomal proliferator-activated receptor A interacting complex 285 |
| GO | hydrolase activity | 61 | 917 | 0.989 | 8556 | CDC14 cell division cycle 14 homolog A (S. cerevisiae) |

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|---|---|---|---|---|---|---|
| GO | hydrolase activity | 61 | 917 | 0.989 | 8622 | phosphodiesterase 8B |
| GO | hydrolase activity | 61 | 917 | 0.989 | 8635 | ribonuclease T2 |
| GO | hydrolase activity | 61 | 917 | 0.989 | 8653 | DEAD (Asp-Glu-Ala-Asp) box polypeptide 3, Y-linked |
| GO | hydrolase activity | 61 | 917 | 0.989 | 8992 | ATPase, H+ transporting, lysosomal 9kDa, V0 subunit e1 |
| GO | hydrolase activity | 61 | 917 | 0.989 | 9563 | hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase) |
| GO | hydrolase activity | 61 | 917 | 0.989 | 9615 | guanine deaminase |
| GO | hydrolase activity | 61 | 917 | 0.989 | 9734 | histone deacetylase 9 |
| GO | hydrolase activity | 61 | 917 | 0.989 | 9914 | ATPase, Ca++ transporting, type 2C, member 2 |
| GO | nucleus | 305 | 4735 | 0.989 | 10014 | histone deacetylase 5 |
| GO | nucleus | 305 | 4735 | 0.989 | 10081 | programmed cell death 7 |
| GO | nucleus | 305 | 4735 | 0.989 | 10106 | CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) sma |
| GO | nucleus | 305 | 4735 | 0.989 | 10221 | tribbles homolog 1 (Drosophila) |
| GO | nucleus | 305 | 4735 | 0.989 | 10346 | tripartite motif-containing 22 |
| GO | nucleus | 305 | 4735 | 0.989 | 10397 | N-myc downstream regulated 1 |
| GO | nucleus | 305 | 4735 | 0.989 | 104 | adenosine deaminase, RNA-specific, B1 (RED1 homolog rat) |
| GO | nucleus | 305 | 4735 | 0.989 | 10481 | homeobox B13 |
| GO | nucleus | 305 | 4735 | 0.989 | 10628 | thioredoxin interacting protein |
| GO | nucleus | 305 | 4735 | 0.989 | 10766 | transducer of ERBB2, 2 |
| GO | nucleus | 305 | 4735 | 0.989 | 10838 | zinc finger protein 275 |
| GO | nucleus | 305 | 4735 | 0.989 | 10891 | peroxisome proliferator-activated receptor gamma, coactivator 1 alpha |
| GO | nucleus | 305 | 4735 | 0.989 | 10957 | proline-rich nuclear receptor coactivator 1 |
| GO | nucleus | 305 | 4735 | 0.989 | 11030 | RNA binding protein with multiple splicing |
| GO | nucleus | 305 | 4735 | 0.989 | 11078 | TRIO and F-actin binding protein |
| GO | nucleus | 305 | 4735 | 0.989 | 11187 | plakophilin 3 |
| GO | nucleus | 305 | 4735 | 0.989 | 11200 | CHK2 checkpoint homolog (S. pombe) |
| GO | nucleus | 305 | 4735 | 0.989 | 11213 | interleukin-1 receptor-associated kinase 3 |
| GO | nucleus | 305 | 4735 | 0.989 | 11279 | Kruppel-like factor 8 |
| GO | nucleus | 305 | 4735 | 0.989 | 115196 | zinc finger protein 554 |
| GO | nucleus | 305 | 4735 | 0.989 | 116071 | basic leucine zipper transcription factor, ATF-like 2 |
| GO | nucleus | 305 | 4735 | 0.989 | 116113 | forkhead box P4 |
| GO | nucleus | 305 | 4735 | 0.989 | 116844 | leucine-rich alpha-2-glycoprotein 1 |
| GO | nucleus | 305 | 4735 | 0.989 | 1193 | chloride intracellular channel 2 |
| GO | nucleus | 305 | 4735 | 0.989 | 123 | perilipin 2 |
| GO | nucleus | 305 | 4735 | 0.989 | 123036 | tandem C2 domains, nuclear |
| GO | nucleus | 305 | 4735 | 0.989 | 127343 | diencephalon/mesencephalon homeobox 1 |
| GO | nucleus | 305 | 4735 | 0.989 | 127933 | U2AF homology motif (UHM) kinase 1 |

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|---|---|---|---|---|---|---|
| GO | nucleus | 305 | 4735 | 0.989 | 135112 | nuclear receptor coactivator 7 |
| GO | nucleus | 305 | 4735 | 0.989 | 1382 | cellular retinoic acid binding protein 2 |
| GO | nucleus | 305 | 4735 | 0.989 | 140901 | serine/threonine kinase 35 |
| GO | nucleus | 305 | 4735 | 0.989 | 143689 | piwi-like 4 (Drosophila) |
| GO | nucleus | 305 | 4735 | 0.989 | 147694 | zinc finger protein 548 |
| GO | nucleus | 305 | 4735 | 0.989 | 147923 | zinc finger protein 420 |
| GO | nucleus | 305 | 4735 | 0.989 | 148398 | sterile alpha motif domain containing 11 |
| GO | nucleus | 305 | 4735 | 0.989 | 150094 | salt-inducible kinase 1 |
| GO | nucleus | 305 | 4735 | 0.989 | 151636 | deltex 3-like (Drosophila) |
| GO | nucleus | 305 | 4735 | 0.989 | 154 | adrenergic, beta-2-, receptor, surface |
| GO | nucleus | 305 | 4735 | 0.989 | 157506 | retinol dehydrogenase 10 (all-trans) |
| GO | nucleus | 305 | 4735 | 0.989 | 158800 | Rhox homeobox family, member 1 |
| GO | nucleus | 305 | 4735 | 0.989 | 1628 | D site of albumin promoter (albumin D-box) binding protein |
| GO | nucleus | 305 | 4735 | 0.989 | 162962 | zinc finger protein 836 |
| GO | nucleus | 305 | 4735 | 0.989 | 163050 | zinc finger protein 564 |
| GO | nucleus | 305 | 4735 | 0.989 | 163115 | zinc finger protein 781 |
| GO | nucleus | 305 | 4735 | 0.989 | 171483 | family with sequence similarity 9, member B |
| GO | nucleus | 305 | 4735 | 0.989 | 1820 | AT rich interactive domain 3A (BRIGHT-like) |
| GO | nucleus | 305 | 4735 | 0.989 | 1822 | atrophin 1 |
| GO | nucleus | 305 | 4735 | 0.989 | 1843 | dual specificity phosphatase 1 |
| GO | nucleus | 305 | 4735 | 0.989 | 1844 | dual specificity phosphatase 2 |
| GO | nucleus | 305 | 4735 | 0.989 | 1847 | dual specificity phosphatase 5 |
| GO | nucleus | 305 | 4735 | 0.989 | 1958 | early growth response 1 |
| GO | nucleus | 305 | 4735 | 0.989 | 1959 | early growth response 2 |
| GO | nucleus | 305 | 4735 | 0.989 | 1960 | early growth response 3 |
| GO | nucleus | 305 | 4735 | 0.989 | 1999 | E74-like factor 3 (ets domain transcription factor, epithelial-specific ) |
| GO | nucleus | 305 | 4735 | 0.989 | 2033 | E1A binding protein p300 |
| GO | nucleus | 305 | 4735 | 0.989 | 2066 | v-erb-a erythroblastic leukemia viral oncogene homolog 4 (avian) |
| GO | nucleus | 305 | 4735 | 0.989 | 2114 | v-ets erythroblastosis virus E26 oncogene homolog 2 (avian) |
| GO | nucleus | 305 | 4735 | 0.989 | 2115 | ets variant 1 |
| GO | nucleus | 305 | 4735 | 0.989 | 2117 | ets variant 3 |
| GO | nucleus | 305 | 4735 | 0.989 | 2122 | MDS1 and EVI1 complex locus |
| GO | nucleus | 305 | 4735 | 0.989 | 219539 | yippee-like 4 (Drosophila) |
| GO | nucleus | 305 | 4735 | 0.989 | 220359 | tigger transposable element derived 3 |
| GO | nucleus | 305 | 4735 | 0.989 | 222546 | regulatory factor X, 6 |
| GO | nucleus | 305 | 4735 | 0.989 | 2263 | fibroblast growth factor receptor 2 |

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|---|---|---|---|---|---|---|
| GO | nucleus | 305 | 4735 | 0.989 | 22807 | IKAROS family zinc finger 2 (Helios) |
| GO | nucleus | 305 | 4735 | 0.989 | 2290 | forkhead box G1 |
| GO | nucleus | 305 | 4735 | 0.989 | 22906 | trafficking protein, kinesin binding 1 |
| GO | nucleus | 305 | 4735 | 0.989 | 2296 | forkhead box C1 |
| GO | nucleus | 305 | 4735 | 0.989 | 2303 | forkhead box C2 (MFH-1, mesenchyme forkhead 1) |
| GO | nucleus | 305 | 4735 | 0.989 | 23035 | PH domain and leucine rich repeat protein phosphatase 2 |
| GO | nucleus | 305 | 4735 | 0.989 | 23043 | TRAF2 and NCK interacting kinase |
| GO | nucleus | 305 | 4735 | 0.989 | 2306 | forkhead box D2 |
| GO | nucleus | 305 | 4735 | 0.989 | 23081 | lysine (K)-specific demethylase 4C |
| GO | nucleus | 305 | 4735 | 0.989 | 23099 | zinc finger and BTB domain containing 43 |
| GO | nucleus | 305 | 4735 | 0.989 | 23119 | hypermethylated in cancer 2 |
| GO | nucleus | 305 | 4735 | 0.989 | 23368 | protein phosphatase 1, regulatory (inhibitor) subunit 13B |
| GO | nucleus | 305 | 4735 | 0.989 | 23373 | CREB regulated transcription coactivator 1 |
| GO | nucleus | 305 | 4735 | 0.989 | 23476 | bromodomain containing 4 |
| GO | nucleus | 305 | 4735 | 0.989 | 23492 | chromobox homolog 7 |
| GO | nucleus | 305 | 4735 | 0.989 | 2353 | FBJ murine osteosarcoma viral oncogene homolog |
| GO | nucleus | 305 | 4735 | 0.989 | 2354 | FBJ murine osteosarcoma viral oncogene homolog B |
| GO | nucleus | 305 | 4735 | 0.989 | 23648 | single stranded DNA binding protein 3 |
| GO | nucleus | 305 | 4735 | 0.989 | 23774 | bromodomain containing 1 |
| GO | nucleus | 305 | 4735 | 0.989 | 240 | arachidonate 5-lipoxygenase |
| GO | nucleus | 305 | 4735 | 0.989 | 2521 | fused in sarcoma |
| GO | nucleus | 305 | 4735 | 0.989 | 256051 | zinc finger protein 549 |
| GO | nucleus | 305 | 4735 | 0.989 | 25946 | zinc finger protein 385A |
| GO | nucleus | 305 | 4735 | 0.989 | 2624 | GATA binding protein 2 |
| GO | nucleus | 305 | 4735 | 0.989 | 26240 | family with sequence similarity 50, member B |
| GO | nucleus | 305 | 4735 | 0.989 | 26468 | LIM homeobox 6 |
| GO | nucleus | 305 | 4735 | 0.989 | 27090 | ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1,3)-N-acetylgalact |
| GO | nucleus | 305 | 4735 | 0.989 | 27295 | PDZ and LIM domain 3 |
| GO | nucleus | 305 | 4735 | 0.989 | 2737 | GLI family zinc finger 3 |
| GO | nucleus | 305 | 4735 | 0.989 | 27434 | polymerase (DNA directed), mu |
| GO | nucleus | 305 | 4735 | 0.989 | 284346 | zinc finger protein 575 |
| GO | nucleus | 305 | 4735 | 0.989 | 28959 | transmembrane protein 176B |
| GO | nucleus | 305 | 4735 | 0.989 | 28996 | homeodomain interacting protein kinase 2 |
| GO | nucleus | 305 | 4735 | 0.989 | 2911 | glutamate receptor, metabotropic 1 |
| GO | nucleus | 305 | 4735 | 0.989 | 29123 | ankyrin repeat domain 11 |
| GO | nucleus | 305 | 4735 | 0.989 | 311 | annexin A11 |

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|---|---|---|---|---|---|---|
| GO | nucleus | 305 | 4735 | 0.989 | 3131 | hepatic leukemia factor |
| GO | nucleus | 305 | 4735 | 0.989 | 3142 | H2.0-like homeobox |
| GO | nucleus | 305 | 4735 | 0.989 | 3164 | nuclear receptor subfamily 4, group A, member 1 |
| GO | nucleus | 305 | 4735 | 0.989 | 3169 | forkhead box A1 |
| GO | nucleus | 305 | 4735 | 0.989 | 3175 | one cut homeobox 1 |
| GO | nucleus | 305 | 4735 | 0.989 | 3192 | heterogeneous nuclear ribonucleoprotein U (scaffold attachment facto |
| GO | nucleus | 305 | 4735 | 0.989 | 3400 | inhibitor of DNA binding 4, dominant negative helix-loop-helix protein |
| GO | nucleus | 305 | 4735 | 0.989 | 3428 | interferon, gamma-inducible protein 16 |
| GO | nucleus | 305 | 4735 | 0.989 | 342908 | zinc finger protein 404 |
| GO | nucleus | 305 | 4735 | 0.989 | 345462 | zinc finger protein 879 |
| GO | nucleus | 305 | 4735 | 0.989 | 3486 | insulin-like growth factor binding protein 3 |
| GO | nucleus | 305 | 4735 | 0.989 | 358 | aquaporin 1 (Colton blood group) |
| GO | nucleus | 305 | 4735 | 0.989 | 3601 | interleukin 15 receptor, alpha |
| GO | nucleus | 305 | 4735 | 0.989 | 3643 | insulin receptor |
| GO | nucleus | 305 | 4735 | 0.989 | 3659 | interferon regulatory factor 1 |
| GO | nucleus | 305 | 4735 | 0.989 | 3665 | interferon regulatory factor 7 |
| GO | nucleus | 305 | 4735 | 0.989 | 3725 | jun oncogene |
| GO | nucleus | 305 | 4735 | 0.989 | 3726 | jun B proto-oncogene |
| GO | nucleus | 305 | 4735 | 0.989 | 379 | ADP-ribosylation factor-like 4D |
| GO | nucleus | 305 | 4735 | 0.989 | 387496 | RAS-like, family 11, member A |
| GO | nucleus | 305 | 4735 | 0.989 | 388536 | zinc finger protein 790 |
| GO | nucleus | 305 | 4735 | 0.989 | 388558 | zinc finger protein 808 |
| GO | nucleus | 305 | 4735 | 0.989 | 388567 | zinc finger protein 749 |
| GO | nucleus | 305 | 4735 | 0.989 | 389058 | Sp5 transcription factor |
| GO | nucleus | 305 | 4735 | 0.989 | 3958 | lectin, galactoside-binding, soluble, 3 |
| GO | nucleus | 305 | 4735 | 0.989 | 3959 | lectin, galactoside-binding, soluble, 3 binding protein |
| GO | nucleus | 305 | 4735 | 0.989 | 4005 | LIM domain only 2 (rhombotin-like 1) |
| GO | nucleus | 305 | 4735 | 0.989 | 4008 | LIM domain 7 |
| GO | nucleus | 305 | 4735 | 0.989 | 4015 | lysyl oxidase |
| GO | nucleus | 305 | 4735 | 0.989 | 4056 | leukotriene C4 synthase |
| GO | nucleus | 305 | 4735 | 0.989 | 4087 | SMAD family member 2 |
| GO | nucleus | 305 | 4735 | 0.989 | 4163 | mutated in colorectal cancers |
| GO | nucleus | 305 | 4735 | 0.989 | 4170 | myeloid cell leukemia sequence 1 (BCL2-related) |
| GO | nucleus | 305 | 4735 | 0.989 | 4194 | Mdm4 p53 binding protein homolog (mouse) |
| GO | nucleus | 305 | 4735 | 0.989 | 4204 | methyl CpG binding protein 2 (Rett syndrome) |
| GO | nucleus | 305 | 4735 | 0.989 | 4209 | myocyte enhancer factor 2D |

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| GO | nucleus | 305 | 4735 | 0.989 | 4212 | Meis homeobox 2 |
| GO | nucleus | 305 | 4735 | 0.989 | 4223 | mesenchyme homeobox 2 |
| GO | nucleus | 305 | 4735 | 0.989 | 4286 | microphthalmia-associated transcription factor |
| GO | nucleus | 305 | 4735 | 0.989 | 429 | achaete-scute complex homolog 1 (Drosophila) |
| GO | nucleus | 305 | 4735 | 0.989 | 4306 | nuclear receptor subfamily 3, group C, member 2 |
| GO | nucleus | 305 | 4735 | 0.989 | 440603 | BCL2-like 15 |
| GO | nucleus | 305 | 4735 | 0.989 | 4582 | mucin 1, cell surface associated |
| GO | nucleus | 305 | 4735 | 0.989 | 4600 | myxovirus (influenza virus) resistance 2 (mouse) |
| GO | nucleus | 305 | 4735 | 0.989 | 4613 | v-myc myelocytomatosis viral related oncogene, neuroblastoma derive |
| GO | nucleus | 305 | 4735 | 0.989 | 467 | activating transcription factor 3 |
| GO | nucleus | 305 | 4735 | 0.989 | 4692 | necdin homolog (mouse) |
| GO | nucleus | 305 | 4735 | 0.989 | 4778 | nuclear factor (erythroid-derived 2), 45kDa |
| GO | nucleus | 305 | 4735 | 0.989 | 4783 | nuclear factor, interleukin 3 regulated |
| GO | nucleus | 305 | 4735 | 0.989 | 4784 | nuclear factor I/X (CCAAT-binding transcription factor) |
| GO | nucleus | 305 | 4735 | 0.989 | 4791 | nuclear factor of kappa light polypeptide gene enhancer in B-cells 2 (p4 |
| GO | nucleus | 305 | 4735 | 0.989 | 4792 | nuclear factor of kappa light polypeptide gene enhancer in B-cells inhib |
| GO | nucleus | 305 | 4735 | 0.989 | 4794 | nuclear factor of kappa light polypeptide gene enhancer in B-cells inhib |
| GO | nucleus | 305 | 4735 | 0.989 | 4802 | nuclear transcription factor Y, gamma |
| GO | nucleus | 305 | 4735 | 0.989 | 4849 | CCR4-NOT transcription complex, subunit 3 |
| GO | nucleus | 305 | 4735 | 0.989 | 4851 | Notch homolog 1, translocation-associated (Drosophila) |
| GO | nucleus | 305 | 4735 | 0.989 | 4853 | Notch homolog 2 (Drosophila) |
| GO | nucleus | 305 | 4735 | 0.989 | 4929 | nuclear receptor subfamily 4, group A, member 2 |
| GO | nucleus | 305 | 4735 | 0.989 | 4939 | 2'-5'-oligoadenylate synthetase 2, 69/71kDa |
| GO | nucleus | 305 | 4735 | 0.989 | 5071 | Parkinson disease (autosomal recessive, juvenile) 2, parkin |
| GO | nucleus | 305 | 4735 | 0.989 | 50809 | heterochromatin protein 1, binding protein 3 |
| GO | nucleus | 305 | 4735 | 0.989 | 5083 | paired box 9 |
| GO | nucleus | 305 | 4735 | 0.989 | 51085 | MLX interacting protein-like |
| GO | nucleus | 305 | 4735 | 0.989 | 51274 | Kruppel-like factor 3 (basic) |
| GO | nucleus | 305 | 4735 | 0.989 | 51523 | CXXC finger 5 |
| GO | nucleus | 305 | 4735 | 0.989 | 51621 | Kruppel-like factor 13 |
| GO | nucleus | 305 | 4735 | 0.989 | 51655 | RAS, dexamethasone-induced 1 |
| GO | nucleus | 305 | 4735 | 0.989 | 51710 | zinc finger protein 44 |
| GO | nucleus | 305 | 4735 | 0.989 | 51754 | transmembrane protein 8B |
| GO | nucleus | 305 | 4735 | 0.989 | 5187 | period homolog 1 (Drosophila) |
| GO | nucleus | 305 | 4735 | 0.989 | 5218 | cyclin-dependent kinase 14 |
| GO | nucleus | 305 | 4735 | 0.989 | 5307 | paired-like homeodomain 1 |

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|---|---|---|---|---|---|---|
| GO | nucleus | 305 | 4735 | 0.989 | 5308 | paired-like homeodomain 2 |
| GO | nucleus | 305 | 4735 | 0.989 | 5318 | plakophilin 2 |
| GO | nucleus | 305 | 4735 | 0.989 | 5325 | pleiomorphic adenoma gene-like 1 |
| GO | nucleus | 305 | 4735 | 0.989 | 53347 | ubiquitin associated and SH3 domain containing, A |
| GO | nucleus | 305 | 4735 | 0.989 | 5367 | pro-melanin-concentrating hormone |
| GO | nucleus | 305 | 4735 | 0.989 | 5371 | promyelocytic leukemia |
| GO | nucleus | 305 | 4735 | 0.989 | 5396 | paired related homeobox 1 |
| GO | nucleus | 305 | 4735 | 0.989 | 5460 | POU class 5 homeobox 1 |
| GO | nucleus | 305 | 4735 | 0.989 | 5463 | POU class 6 homeobox 1 |
| GO | nucleus | 305 | 4735 | 0.989 | 5465 | peroxisome proliferator-activated receptor alpha |
| GO | nucleus | 305 | 4735 | 0.989 | 54739 | XIAP associated factor 1 |
| GO | nucleus | 305 | 4735 | 0.989 | 54894 | ring finger protein 43 |
| GO | nucleus | 305 | 4735 | 0.989 | 54904 | Wolf-Hirschhorn syndrome candidate 1-like 1 |
| GO | nucleus | 305 | 4735 | 0.989 | 54961 | slingshot homolog 3 (Drosophila) |
| GO | nucleus | 305 | 4735 | 0.989 | 55140 | elongation protein 3 homolog (S. cerevisiae) |
| GO | nucleus | 305 | 4735 | 0.989 | 55249 | YY1 associated protein 1 |
| GO | nucleus | 305 | 4735 | 0.989 | 55657 | zinc finger protein 692 |
| GO | nucleus | 305 | 4735 | 0.989 | 55693 | lysine (K)-specific demethylase 4D |
| GO | nucleus | 305 | 4735 | 0.989 | 55705 | importin 9 |
| GO | nucleus | 305 | 4735 | 0.989 | 55762 | zinc finger protein 701 |
| GO | nucleus | 305 | 4735 | 0.989 | 55769 | zinc finger protein 83 |
| GO | nucleus | 305 | 4735 | 0.989 | 55810 | forkhead box J2 |
| GO | nucleus | 305 | 4735 | 0.989 | 55870 | ash1 (absent, small, or homeotic)-like (Drosophila) |
| GO | nucleus | 305 | 4735 | 0.989 | 55893 | zinc finger protein 395 |
| GO | nucleus | 305 | 4735 | 0.989 | 56271 | brain expressed, X-linked 4 |
| GO | nucleus | 305 | 4735 | 0.989 | 5696 | proteasome (prosome, macropain) subunit, beta type, 8 (large multifu |
| GO | nucleus | 305 | 4735 | 0.989 | 56978 | PR domain containing 8 |
| GO | nucleus | 305 | 4735 | 0.989 | 5698 | proteasome (prosome, macropain) subunit, beta type, 9 (large multifu |
| GO | nucleus | 305 | 4735 | 0.989 | 5699 | proteasome (prosome, macropain) subunit, beta type, 10 |
| GO | nucleus | 305 | 4735 | 0.989 | 57018 | cyclin L1 |
| GO | nucleus | 305 | 4735 | 0.989 | 57118 | calcium/calmodulin-dependent protein kinase ID |
| GO | nucleus | 305 | 4735 | 0.989 | 573 | BCL2-associated athanogene |
| GO | nucleus | 305 | 4735 | 0.989 | 5742 | prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase a |
| GO | nucleus | 305 | 4735 | 0.989 | 57459 | GATA zinc finger domain containing 2B |
| GO | nucleus | 305 | 4735 | 0.989 | 57594 | homeobox and leucine zipper encoding |
| GO | nucleus | 305 | 4735 | 0.989 | 5791 | protein tyrosine phosphatase, receptor type, E |

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|---|---|---|---|---|---|---|
| GO | nucleus | 305 | 4735 | 0.989 | 5801 | protein tyrosine phosphatase, receptor type, R |
| GO | nucleus | 305 | 4735 | 0.989 | 604 | B-cell CLL/lymphoma 6 |
| GO | nucleus | 305 | 4735 | 0.989 | 60485 | salvador homolog 1 (Drosophila) |
| GO | nucleus | 305 | 4735 | 0.989 | 6096 | RAR-related orphan receptor B |
| GO | nucleus | 305 | 4735 | 0.989 | 6097 | RAR-related orphan receptor C |
| GO | nucleus | 305 | 4735 | 0.989 | 6239 | ras responsive element binding protein 1 |
| GO | nucleus | 305 | 4735 | 0.989 | 6256 | retinoid X receptor, alpha |
| GO | nucleus | 305 | 4735 | 0.989 | 64135 | interferon induced with helicase C domain 1 |
| GO | nucleus | 305 | 4735 | 0.989 | 64332 | nuclear factor of kappa light polypeptide gene enhancer in B-cells inhib |
| GO | nucleus | 305 | 4735 | 0.989 | 64359 | nucleoredoxin |
| GO | nucleus | 305 | 4735 | 0.989 | 6446 | serum/glucocorticoid regulated kinase 1 |
| GO | nucleus | 305 | 4735 | 0.989 | 64651 | cysteine-serine-rich nuclear protein 1 |
| GO | nucleus | 305 | 4735 | 0.989 | 6604 | SWI/SNF related, matrix associated, actin dependent regulator of chro |
| GO | nucleus | 305 | 4735 | 0.989 | 6622 | synuclein, alpha (non A4 component of amyloid precursor) |
| GO | nucleus | 305 | 4735 | 0.989 | 6778 | signal transducer and activator of transcription 6, interleukin-4 induce |
| GO | nucleus | 305 | 4735 | 0.989 | 687 | Kruppel-like factor 9 |
| GO | nucleus | 305 | 4735 | 0.989 | 6921 | transcription elongation factor B (SIII), polypeptide 1 (15kDa, elongin C |
| GO | nucleus | 305 | 4735 | 0.989 | 6941 | transcription factor 19 |
| GO | nucleus | 305 | 4735 | 0.989 | 7008 | thyrotrophic embryonic factor |
| GO | nucleus | 305 | 4735 | 0.989 | 7022 | transcription factor AP-2 gamma (activating enhancer binding protein |
| GO | nucleus | 305 | 4735 | 0.989 | 7026 | nuclear receptor subfamily 2, group F, member 2 |
| GO | nucleus | 305 | 4735 | 0.989 | 7069 | thyroid hormone responsive (SPOT14 homolog, rat) |
| GO | nucleus | 305 | 4735 | 0.989 | 7071 | Kruppel-like factor 10 |
| GO | nucleus | 305 | 4735 | 0.989 | 7089 | transducin-like enhancer of split 2 (E(sp1) homolog, Drosophila) |
| GO | nucleus | 305 | 4735 | 0.989 | 7090 | transducin-like enhancer of split 3 (E(sp1) homolog, Drosophila) |
| GO | nucleus | 305 | 4735 | 0.989 | 7111 | tropomodulin 1 |
| GO | nucleus | 305 | 4735 | 0.989 | 7227 | trichorhinophalangeal syndrome I |
| GO | nucleus | 305 | 4735 | 0.989 | 7404 | ubiquitously transcribed tetratricopeptide repeat gene, Y-linked |
| GO | nucleus | 305 | 4735 | 0.989 | 7538 | zinc finger protein 36, C3H type, homolog (mouse) |
| GO | nucleus | 305 | 4735 | 0.989 | 7546 | Zic family member 2 (odd-paired homolog, Drosophila) |
| GO | nucleus | 305 | 4735 | 0.989 | 7565 | zinc finger protein 17 |
| GO | nucleus | 305 | 4735 | 0.989 | 7597 | zinc finger and BTB domain containing 25 |
| GO | nucleus | 305 | 4735 | 0.989 | 760 | carbonic anhydrase II |
| GO | nucleus | 305 | 4735 | 0.989 | 7678 | zinc finger protein 124 |
| GO | nucleus | 305 | 4735 | 0.989 | 7706 | tripartite motif-containing 25 |
| GO | nucleus | 305 | 4735 | 0.989 | 79444 | baculoviral IAP repeat-containing 7 |

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|---|---|---|---|---|---|---|
| GO | nucleus | 305 | 4735 | 0.989 | 79661 | nei endonuclease VIII-like 1 (E. coli) |
| GO | nucleus | 305 | 4735 | 0.989 | 79673 | zinc finger protein 329 |
| GO | nucleus | 305 | 4735 | 0.989 | 79816 | transducin-like enhancer of split 6 (E(sp1) homolog, Drosophila) |
| GO | nucleus | 305 | 4735 | 0.989 | 79894 | zinc finger protein 672 |
| GO | nucleus | 305 | 4735 | 0.989 | 8013 | nuclear receptor subfamily 4, group A, member 3 |
| GO | nucleus | 305 | 4735 | 0.989 | 80169 | chromosome 17 open reading frame 68 |
| GO | nucleus | 305 | 4735 | 0.989 | 80714 | pre-B-cell leukemia homeobox 4 |
| GO | nucleus | 305 | 4735 | 0.989 | 80763 | chromosome 12 open reading frame 39 |
| GO | nucleus | 305 | 4735 | 0.989 | 81603 | tripartite motif-containing 8 |
| GO | nucleus | 305 | 4735 | 0.989 | 8313 | axin 2 |
| GO | nucleus | 305 | 4735 | 0.989 | 834 | caspase 1, apoptosis-related cysteine peptidase (interleukin 1, beta, co |
| GO | nucleus | 305 | 4735 | 0.989 | 83595 | SRY (sex determining region Y)-box 7 |
| GO | nucleus | 305 | 4735 | 0.989 | 83666 | poly (ADP-ribose) polymerase family, member 9 |
| GO | nucleus | 305 | 4735 | 0.989 | 83719 | yippee-like 3 (Drosophila) |
| GO | nucleus | 305 | 4735 | 0.989 | 84124 | zinc finger protein 394 |
| GO | nucleus | 305 | 4735 | 0.989 | 84159 | AT rich interactive domain 5B (MRF1-like) |
| GO | nucleus | 305 | 4735 | 0.989 | 84366 | prostate cancer susceptibility candidate |
| GO | nucleus | 305 | 4735 | 0.989 | 8462 | Kruppel-like factor 11 |
| GO | nucleus | 305 | 4735 | 0.989 | 84858 | zinc finger protein 503 |
| GO | nucleus | 305 | 4735 | 0.989 | 84875 | poly (ADP-ribose) polymerase family, member 10 |
| GO | nucleus | 305 | 4735 | 0.989 | 84911 | zinc finger protein 382 |
| GO | nucleus | 305 | 4735 | 0.989 | 84941 | hematopoietic SH2 domain containing |
| GO | nucleus | 305 | 4735 | 0.989 | 84969 | TOX high mobility group box family member 2 |
| GO | nucleus | 305 | 4735 | 0.989 | 85004 | RAS-like, estrogen-regulated, growth inhibitor |
| GO | nucleus | 305 | 4735 | 0.989 | 8531 | cold shock domain protein A |
| GO | nucleus | 305 | 4735 | 0.989 | 85416 | Zic family member 5 (odd-paired homolog, Drosophila) |
| GO | nucleus | 305 | 4735 | 0.989 | 85441 | peroxisomal proliferator-activated receptor A interacting complex 285 |
| GO | nucleus | 305 | 4735 | 0.989 | 8553 | basic helix-loop-helix family, member e40 |
| GO | nucleus | 305 | 4735 | 0.989 | 8556 | CDC14 cell division cycle 14 homolog A (S. cerevisiae) |
| GO | nucleus | 305 | 4735 | 0.989 | 862 | runt-related transcription factor 1; translocated to, 1 (cyclin D-related) |
| GO | nucleus | 305 | 4735 | 0.989 | 8631 | src kinase associated phosphoprotein 1 |
| GO | nucleus | 305 | 4735 | 0.989 | 8653 | DEAD (Asp-Glu-Ala-Asp) box polypeptide 3, Y-linked |
| GO | nucleus | 305 | 4735 | 0.989 | 8848 | TSC22 domain family, member 1 |
| GO | nucleus | 305 | 4735 | 0.989 | 8863 | period homolog 3 (Drosophila) |
| GO | nucleus | 305 | 4735 | 0.989 | 8864 | period homolog 2 (Drosophila) |
| GO | nucleus | 305 | 4735 | 0.989 | 8900 | cyclin A1 |

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|---|---|---|---|---|---|---|
| GO | nucleus | 305 | 4735 | 0.989 | 8912 | calcium channel, voltage-dependent, T type, alpha 1H subunit |
| GO | nucleus | 305 | 4735 | 0.989 | 8996 | nucleolar protein 3 (apoptosis repressor with CARD domain) |
| GO | nucleus | 305 | 4735 | 0.989 | 90592 | zinc finger protein 700 |
| GO | nucleus | 305 | 4735 | 0.989 | 90993 | cAMP responsive element binding protein 3-like 1 |
| GO | nucleus | 305 | 4735 | 0.989 | 91607 | schlafen family member 11 |
| GO | nucleus | 305 | 4735 | 0.989 | 91748 | chromosome 14 open reading frame 43 |
| GO | nucleus | 305 | 4735 | 0.989 | 92283 | zinc finger protein 461 |
| GO | nucleus | 305 | 4735 | 0.989 | 9263 | serine/threonine kinase 17a |
| GO | nucleus | 305 | 4735 | 0.989 | 92822 | zinc finger protein 276 |
| GO | nucleus | 305 | 4735 | 0.989 | 9314 | Kruppel-like factor 4 (gut) |
| GO | nucleus | 305 | 4735 | 0.989 | 9324 | high mobility group nucleosomal binding domain 3 |
| GO | nucleus | 305 | 4735 | 0.989 | 93349 | SP140 nuclear body protein-like |
| GO | nucleus | 305 | 4735 | 0.989 | 9414 | tight junction protein 2 (zona occludens 2) |
| GO | nucleus | 305 | 4735 | 0.989 | 9422 | zinc finger protein 264 |
| GO | nucleus | 305 | 4735 | 0.989 | 9496 | T-box 4 |
| GO | nucleus | 305 | 4735 | 0.989 | 952 | CD38 molecule |
| GO | nucleus | 305 | 4735 | 0.989 | 9572 | nuclear receptor subfamily 1, group D, member 1 |
| GO | nucleus | 305 | 4735 | 0.989 | 9633 | metallothionein-like 5, testis-specific (tesmin) |
| GO | nucleus | 305 | 4735 | 0.989 | 9734 | histone deacetylase 9 |
| GO | nucleus | 305 | 4735 | 0.989 | 9764 | KIAA0513 |
| GO | nucleus | 305 | 4735 | 0.989 | 9875 | URB1 ribosome biogenesis 1 homolog (S. cerevisiae) |
| GO | nucleus | 305 | 4735 | 0.989 | 9904 | RNA binding motif protein 19 |
| GO | nucleus | 305 | 4735 | 0.989 | 9935 | v-maf musculoaponeurotic fibrosarcoma oncogene homolog B (avian) |
| GO | nucleus | 305 | 4735 | 0.989 | 9971 | nuclear receptor subfamily 1, group H, member 4 |
| GO | nucleus | 305 | 4735 | 0.989 | 9985 | REC8 homolog (yeast) |
| GO | regulation of transcription | 64 | 956 | 0.989 | 10014 | histone deacetylase 5 |
| GO | regulation of transcription | 64 | 956 | 0.989 | 10628 | thioredoxin interacting protein |
| GO | regulation of transcription | 64 | 956 | 0.989 | 10957 | proline-rich nuclear receptor coactivator 1 |
| GO | regulation of transcription | 64 | 956 | 0.989 | 11030 | RNA binding protein with multiple splicing |
| GO | regulation of transcription | 64 | 956 | 0.989 | 11279 | Kruppel-like factor 8 |
| GO | regulation of transcription | 64 | 956 | 0.989 | 135112 | nuclear receptor coactivator 7 |
| GO | regulation of transcription | 64 | 956 | 0.989 | 163115 | zinc finger protein 781 |
| GO | regulation of transcription | 64 | 956 | 0.989 | 1785 | dynamin 2 |
| GO | regulation of transcription | 64 | 956 | 0.989 | 1960 | early growth response 3 |
| GO | regulation of transcription | 64 | 956 | 0.989 | 2033 | E1A binding protein p300 |
| GO | regulation of transcription | 64 | 956 | 0.989 | 2066 | v-erb-a erythroblastic leukemia viral oncogene homolog 4 (avian) |

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|---|---|---|---|---|---|---|
| GO | regulation of transcription | 64 | 956 | 0.989 | 220359 | tigger transposable element derived 3 |
| GO | regulation of transcription | 64 | 956 | 0.989 | 22807 | IKAROS family zinc finger 2 (Helios) |
| GO | regulation of transcription | 64 | 956 | 0.989 | 22904 | strawberry notch homolog 2 (Drosophila) |
| GO | regulation of transcription | 64 | 956 | 0.989 | 23081 | lysine (K)-specific demethylase 4C |
| GO | regulation of transcription | 64 | 956 | 0.989 | 23099 | zinc finger and BTB domain containing 43 |
| GO | regulation of transcription | 64 | 956 | 0.989 | 23119 | hypermethylated in cancer 2 |
| GO | regulation of transcription | 64 | 956 | 0.989 | 23373 | CREB regulated transcription coactivator 1 |
| GO | regulation of transcription | 64 | 956 | 0.989 | 23492 | chromobox homolog 7 |
| GO | regulation of transcription | 64 | 956 | 0.989 | 23648 | single stranded DNA binding protein 3 |
| GO | regulation of transcription | 64 | 956 | 0.989 | 25946 | zinc finger protein 385A |
| GO | regulation of transcription | 64 | 956 | 0.989 | 284346 | zinc finger protein 575 |
| GO | regulation of transcription | 64 | 956 | 0.989 | 28996 | homeodomain interacting protein kinase 2 |
| GO | regulation of transcription | 64 | 956 | 0.989 | 387496 | RAS-like, family 11, member A |
| GO | regulation of transcription | 64 | 956 | 0.989 | 388567 | zinc finger protein 749 |
| GO | regulation of transcription | 64 | 956 | 0.989 | 389058 | Sp5 transcription factor |
| GO | regulation of transcription | 64 | 956 | 0.989 | 429 | achaete-scute complex homolog 1 (Drosophila) |
| GO | regulation of transcription | 64 | 956 | 0.989 | 4849 | CCR4-NOT transcription complex, subunit 3 |
| GO | regulation of transcription | 64 | 956 | 0.989 | 4851 | Notch homolog 1, translocation-associated (Drosophila) |
| GO | regulation of transcription | 64 | 956 | 0.989 | 51274 | Kruppel-like factor 3 (basic) |
| GO | regulation of transcription | 64 | 956 | 0.989 | 51621 | Kruppel-like factor 13 |
| GO | regulation of transcription | 64 | 956 | 0.989 | 5325 | pleiomorphic adenoma gene-like 1 |
| GO | regulation of transcription | 64 | 956 | 0.989 | 54904 | Wolf-Hirschhorn syndrome candidate 1-like 1 |
| GO | regulation of transcription | 64 | 956 | 0.989 | 55140 | elongation protein 3 homolog (S. cerevisiae) |
| GO | regulation of transcription | 64 | 956 | 0.989 | 55657 | zinc finger protein 692 |
| GO | regulation of transcription | 64 | 956 | 0.989 | 55693 | lysine (K)-specific demethylase 4D |
| GO | regulation of transcription | 64 | 956 | 0.989 | 55870 | ash1 (absent, small, or homeotic)-like (Drosophila) |
| GO | regulation of transcription | 64 | 956 | 0.989 | 56978 | PR domain containing 8 |
| GO | regulation of transcription | 64 | 956 | 0.989 | 57018 | cyclin L1 |
| GO | regulation of transcription | 64 | 956 | 0.989 | 604 | B-cell CLL/lymphoma 6 |
| GO | regulation of transcription | 64 | 956 | 0.989 | 64332 | nuclear factor of kappa light polypeptide gene enhancer in B-cells inhib |
| GO | regulation of transcription | 64 | 956 | 0.989 | 687 | Kruppel-like factor 9 |
| GO | regulation of transcription | 64 | 956 | 0.989 | 6921 | transcription elongation factor B (SIII), polypeptide 1 (15kDa, elongin C |
| GO | regulation of transcription | 64 | 956 | 0.989 | 6941 | transcription factor 19 |
| GO | regulation of transcription | 64 | 956 | 0.989 | 7071 | Kruppel-like factor 10 |
| GO | regulation of transcription | 64 | 956 | 0.989 | 7089 | transducin-like enhancer of split 2 (E(sp1) homolog, Drosophila) |
| GO | regulation of transcription | 64 | 956 | 0.989 | 7597 | zinc finger and BTB domain containing 25 |

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|---|---|---|---|---|---|---|
| GO | regulation of transcription | 64 | 956 | 0.989 | 79673 | zinc finger protein 329 |
| GO | regulation of transcription | 64 | 956 | 0.989 | 79816 | transducin-like enhancer of split 6 (E(sp1) homolog, Drosophila) |
| GO | regulation of transcription | 64 | 956 | 0.989 | 79894 | zinc finger protein 672 |
| GO | regulation of transcription | 64 | 956 | 0.989 | 83595 | SRY (sex determining region Y)-box 7 |
| GO | regulation of transcription | 64 | 956 | 0.989 | 84159 | AT rich interactive domain 5B (MRF1-like) |
| GO | regulation of transcription | 64 | 956 | 0.989 | 8462 | Kruppel-like factor 11 |
| GO | regulation of transcription | 64 | 956 | 0.989 | 84858 | zinc finger protein 503 |
| GO | regulation of transcription | 64 | 956 | 0.989 | 84969 | TOX high mobility group box family member 2 |
| GO | regulation of transcription | 64 | 956 | 0.989 | 8543 | LIM domain only 4 |
| GO | regulation of transcription | 64 | 956 | 0.989 | 85441 | peroxisomal proliferator-activated receptor A interacting complex 285 |
| GO | regulation of transcription | 64 | 956 | 0.989 | 91 | activin A receptor, type IB |
| GO | regulation of transcription | 64 | 956 | 0.989 | 91748 | chromosome 14 open reading frame 43 |
| GO | regulation of transcription | 64 | 956 | 0.989 | 92822 | zinc finger protein 276 |
| GO | regulation of transcription | 64 | 956 | 0.989 | 9314 | Kruppel-like factor 4 (gut) |
| GO | regulation of transcription | 64 | 956 | 0.989 | 94 | activin A receptor type II-like 1 |
| GO | regulation of transcription | 64 | 956 | 0.989 | 9619 | ATP-binding cassette, sub-family G (WHITE), member 1 |
| GO | regulation of transcription | 64 | 956 | 0.989 | 9734 | histone deacetylase 9 |
| GO | specific transcriptional repressor acti | 2 | 38 | 0.989 | 10014 | histone deacetylase 5 |
| GO | specific transcriptional repressor acti | 2 | 38 | 0.989 | 9734 | histone deacetylase 9 |
| GO | homophilic cell adhesion | 8 | 135 | 0.989 | 1004 | cadherin 6, type 2, K-cadherin (fetal kidney) |
| GO | homophilic cell adhesion | 8 | 135 | 0.989 | 1009 | cadherin 11, type 2, OB-cadherin (osteoblast) |
| GO | homophilic cell adhesion | 8 | 135 | 0.989 | 1014 | cadherin 16, KSP-cadherin |
| GO | homophilic cell adhesion | 8 | 135 | 0.989 | 1016 | cadherin 18, type 2 |
| GO | homophilic cell adhesion | 8 | 135 | 0.989 | 10205 | myelin protein zero-like 2 |
| GO | homophilic cell adhesion | 8 | 135 | 0.989 | 5099 | protocadherin 7 |
| GO | homophilic cell adhesion | 8 | 135 | 0.989 | 57453 | Down syndrome cell adhesion molecule like 1 |
| GO | homophilic cell adhesion | 8 | 135 | 0.989 | 57863 | cell adhesion molecule 3 |
| GO | Wnt receptor signaling pathway thro | 1 | 23 | 0.989 | 10076 | protein tyrosine phosphatase, receptor type, U |
| GO | RNA splicing | 5 | 251 | 0.989 | 10081 | programmed cell death 7 |
| GO | RNA splicing | 5 | 251 | 0.989 | 10891 | peroxisome proliferator-activated receptor gamma, coactivator 1 alpha |
| GO | RNA splicing | 5 | 251 | 0.989 | 2521 | fused in sarcoma |
| GO | RNA splicing | 5 | 251 | 0.989 | 3192 | heterogeneous nuclear ribonucleoprotein U (scaffold attachment facto |
| GO | RNA splicing | 5 | 251 | 0.989 | 8996 | nucleolar protein 3 (apoptosis repressor with CARD domain) |
| GO | carbohydrate biosynthetic process | 1 | 17 | 0.989 | 10090 | uronyl-2-sulfotransferase |
| GO | transferase activity | 57 | 1127 | 0.989 | 10090 | uronyl-2-sulfotransferase |
| GO | transferase activity | 57 | 1127 | 0.989 | 10162 | lysophosphatidylcholine acyltransferase 3 |

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|---|---|---|---|---|---|---|
| GO | transferase activity | 57 | 1127 | 0.989 | 10769 | polo-like kinase 2 (Drosophila) |
| GO | transferase activity | 57 | 1127 | 0.989 | 11200 | CHK2 checkpoint homolog (S. pombe) |
| GO | transferase activity | 57 | 1127 | 0.989 | 11213 | interleukin-1 receptor-associated kinase 3 |
| GO | transferase activity | 57 | 1127 | 0.989 | 127933 | U2AF homology motif (UHM) kinase 1 |
| GO | transferase activity | 57 | 1127 | 0.989 | 130399 | activin A receptor, type IC |
| GO | transferase activity | 57 | 1127 | 0.989 | 140901 | serine/threonine kinase 35 |
| GO | transferase activity | 57 | 1127 | 0.989 | 150094 | salt-inducible kinase 1 |
| GO | transferase activity | 57 | 1127 | 0.989 | 154141 | membrane bound O-acyltransferase domain containing 1 |
| GO | transferase activity | 57 | 1127 | 0.989 | 1612 | death-associated protein kinase 1 |
| GO | transferase activity | 57 | 1127 | 0.989 | 166929 | sphingomyelin synthase 2 |
| GO | transferase activity | 57 | 1127 | 0.989 | 1969 | EPH receptor A2 |
| GO | transferase activity | 57 | 1127 | 0.989 | 2033 | E1A binding protein p300 |
| GO | transferase activity | 57 | 1127 | 0.989 | 2044 | EPH receptor A5 |
| GO | transferase activity | 57 | 1127 | 0.989 | 205 | adenylate kinase 3-like 1 |
| GO | transferase activity | 57 | 1127 | 0.989 | 2066 | v-erb-a erythroblastic leukemia viral oncogene homolog 4 (avian) |
| GO | transferase activity | 57 | 1127 | 0.989 | 2263 | fibroblast growth factor receptor 2 |
| GO | transferase activity | 57 | 1127 | 0.989 | 23043 | TRAF2 and NCK interacting kinase |
| GO | transferase activity | 57 | 1127 | 0.989 | 23387 | SIK family kinase 3 |
| GO | transferase activity | 57 | 1127 | 0.989 | 23604 | death-associated protein kinase 2 |
| GO | transferase activity | 57 | 1127 | 0.989 | 27434 | polymerase (DNA directed), mu |
| GO | transferase activity | 57 | 1127 | 0.989 | 28996 | homeodomain interacting protein kinase 2 |
| GO | transferase activity | 57 | 1127 | 0.989 | 2947 | glutathione S-transferase mu 3 (brain) |
| GO | transferase activity | 57 | 1127 | 0.989 | 3643 | insulin receptor |
| GO | transferase activity | 57 | 1127 | 0.989 | 375449 | microtubule associated serine/threonine kinase family member 4 |
| GO | transferase activity | 57 | 1127 | 0.989 | 3815 | v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog |
| GO | transferase activity | 57 | 1127 | 0.989 | 415116 | pim-3 oncogene |
| GO | transferase activity | 57 | 1127 | 0.989 | 4293 | mitogen-activated protein kinase kinase kinase 9 |
| GO | transferase activity | 57 | 1127 | 0.989 | 4486 | macrophage stimulating 1 receptor (c-met-related tyrosine kinase) |
| GO | transferase activity | 57 | 1127 | 0.989 | 4638 | myosin light chain kinase |
| GO | transferase activity | 57 | 1127 | 0.989 | 4915 | neurotrophic tyrosine kinase, receptor, type 2 |
| GO | transferase activity | 57 | 1127 | 0.989 | 4939 | 2'-5'-oligoadenylate synthetase 2, 69/71kDa |
| GO | transferase activity | 57 | 1127 | 0.989 | 5063 | p21 protein (Cdc42/Rac)-activated kinase 3 |
| GO | transferase activity | 57 | 1127 | 0.989 | 5129 | cyclin-dependent kinase 18 |
| GO | transferase activity | 57 | 1127 | 0.989 | 5218 | cyclin-dependent kinase 14 |
| GO | transferase activity | 57 | 1127 | 0.989 | 54904 | Wolf-Hirschhorn syndrome candidate 1-like 1 |
| GO | transferase activity | 57 | 1127 | 0.989 | 54947 | lysophosphatidylcholine acyltransferase 2 |

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|---|---|---|---|---|---|---|
| GO | transferase activity | 57 | 1127 | 0.989 | 55140 | elongation protein 3 homolog (S. cerevisiae) |
| GO | transferase activity | 57 | 1127 | 0.989 | 55870 | ash1 (absent, small, or homeotic)-like (Drosophila) |
| GO | transferase activity | 57 | 1127 | 0.989 | 5608 | mitogen-activated protein kinase kinase 6 |
| GO | transferase activity | 57 | 1127 | 0.989 | 57118 | calcium/calmodulin-dependent protein kinase ID |
| GO | transferase activity | 57 | 1127 | 0.989 | 64064 | 3-oxoacid CoA transferase 2 |
| GO | transferase activity | 57 | 1127 | 0.989 | 6446 | serum/glucocorticoid regulated kinase 1 |
| GO | transferase activity | 57 | 1127 | 0.989 | 6819 | sulfotransferase family, cytosolic, 1C, member 2 |
| GO | transferase activity | 57 | 1127 | 0.989 | 6850 | spleen tyrosine kinase |
| GO | transferase activity | 57 | 1127 | 0.989 | 81788 | NUAK family, SNF1-like kinase, 2 |
| GO | transferase activity | 57 | 1127 | 0.989 | 83666 | poly (ADP-ribose) polymerase family, member 9 |
| GO | transferase activity | 57 | 1127 | 0.989 | 84033 | obscurin, cytoskeletal calmodulin and titin-interacting RhoGEF |
| GO | transferase activity | 57 | 1127 | 0.989 | 8509 | N-deacetylase/N-sulfotransferase (heparan glucosaminyl) 2 |
| GO | transferase activity | 57 | 1127 | 0.989 | 8527 | diacylglycerol kinase, delta 130kDa |
| GO | transferase activity | 57 | 1127 | 0.989 | 9064 | mitogen-activated protein kinase kinase kinase 6 |
| GO | transferase activity | 57 | 1127 | 0.989 | 91 | activin A receptor, type IB |
| GO | transferase activity | 57 | 1127 | 0.989 | 91461 | protein kinase domain containing, cytoplasmic homolog (mouse) |
| GO | transferase activity | 57 | 1127 | 0.989 | 9263 | serine/threonine kinase 17a |
| GO | transferase activity | 57 | 1127 | 0.989 | 94 | activin A receptor type II-like 1 |
| GO | transferase activity | 57 | 1127 | 0.989 | 9435 | carbohydrate (N-acetylglucosamine-6-O) sulfotransferase 2 |
| GO | lysosomal membrane | 2 | 83 | 0.989 | 10103 | tetraspanin 1 |
| GO | lysosomal membrane | 2 | 83 | 0.989 | 55332 | DNA-damage regulated autophagy modulator 1 |
| GO | soluble fraction | 20 | 315 | 0.989 | 10106 | CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) sma |
| GO | soluble fraction | 20 | 315 | 0.989 | 10516 | fibulin 5 |
| GO | soluble fraction | 20 | 315 | 0.989 | 1508 | cathepsin B |
| GO | soluble fraction | 20 | 315 | 0.989 | 1604 | CD55 molecule, decay accelerating factor for complement (Cromer blo |
| GO | soluble fraction | 20 | 315 | 0.989 | 1803 | dipeptidyl-peptidase 4 |
| GO | soluble fraction | 20 | 315 | 0.989 | 183 | angiotensinogen (serpin peptidase inhibitor, clade A, member 8) |
| GO | soluble fraction | 20 | 315 | 0.989 | 1843 | dual specificity phosphatase 1 |
| GO | soluble fraction | 20 | 315 | 0.989 | 2026 | enolase 2 (gamma, neuronal) |
| GO | soluble fraction | 20 | 315 | 0.989 | 240 | arachidonate 5-lipoxygenase |
| GO | soluble fraction | 20 | 315 | 0.989 | 2517 | fucosidase, alpha-L- 1, tissue |
| GO | soluble fraction | 20 | 315 | 0.989 | 26281 | fibroblast growth factor 20 |
| GO | soluble fraction | 20 | 315 | 0.989 | 27090 | ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1,3)-N-acetylgalact |
| GO | soluble fraction | 20 | 315 | 0.989 | 2947 | glutathione S-transferase mu 3 (brain) |
| GO | soluble fraction | 20 | 315 | 0.989 | 3034 | histidine ammonia-lyase |
| GO | soluble fraction | 20 | 315 | 0.989 | 3643 | insulin receptor |

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|---|---|---|---|---|---|---|
| GO | soluble fraction | 20 | 315 | 0.989 | 5046 | proprotein convertase subtilisin/kexin type 6 |
| GO | soluble fraction | 20 | 315 | 0.989 | 51655 | RAS, dexamethasone-induced 1 |
| GO | soluble fraction | 20 | 315 | 0.989 | 5577 | protein kinase, cAMP-dependent, regulatory, type II, beta |
| GO | soluble fraction | 20 | 315 | 0.989 | 8839 | WNT1 inducible signaling pathway protein 2 |
| GO | soluble fraction | 20 | 315 | 0.989 | 9633 | metallothionein-like 5, testis-specific (tesmin) |
| GO | cellular_component | 34 | 528 | 0.989 | 10116 | fem-1 homolog b (C. elegans) |
| GO | cellular_component | 34 | 528 | 0.989 | 10231 | regulator of calcineurin 2 |
| GO | cellular_component | 34 | 528 | 0.989 | 1154 | cytokine inducible SH2-containing protein |
| GO | cellular_component | 34 | 528 | 0.989 | 117157 | SH2 domain containing 1B |
| GO | cellular_component | 34 | 528 | 0.989 | 1953 | multiple EGF-like-domains 6 |
| GO | cellular_component | 34 | 528 | 0.989 | 202 | absent in melanoma 1 |
| GO | cellular_component | 34 | 528 | 0.989 | 22904 | strawberry notch homolog 2 (Drosophila) |
| GO | cellular_component | 34 | 528 | 0.989 | 23092 | Rho GTPase activating protein 26 |
| GO | cellular_component | 34 | 528 | 0.989 | 23179 | ral guanine nucleotide dissociation stimulator-like 1 |
| GO | cellular_component | 34 | 528 | 0.989 | 23348 | dedicator of cytokinesis 9 |
| GO | cellular_component | 34 | 528 | 0.989 | 23682 | RAB38, member RAS oncogene family |
| GO | cellular_component | 34 | 528 | 0.989 | 25837 | RAB26, member RAS oncogene family |
| GO | cellular_component | 34 | 528 | 0.989 | 26053 | autism susceptibility candidate 2 |
| GO | cellular_component | 34 | 528 | 0.989 | 271 | adenosine monophosphate deaminase 2 |
| GO | cellular_component | 34 | 528 | 0.989 | 27202 | G protein-coupled receptor 77 |
| GO | cellular_component | 34 | 528 | 0.989 | 3268 | ArfGAP with FG repeats 2 |
| GO | cellular_component | 34 | 528 | 0.989 | 3437 | interferon-induced protein with tetratricopeptide repeats 3 |
| GO | cellular_component | 34 | 528 | 0.989 | 345275 | hydroxysteroid (17-beta) dehydrogenase 13 |
| GO | cellular_component | 34 | 528 | 0.989 | 376940 | zinc finger CCCH-type containing 6 |
| GO | cellular_component | 34 | 528 | 0.989 | 4007 | prickle homolog 3 (Drosophila) |
| GO | cellular_component | 34 | 528 | 0.989 | 4038 | low density lipoprotein receptor-related protein 4 |
| GO | cellular_component | 34 | 528 | 0.989 | 4246 | secretoglobin, family 2A, member 1 |
| GO | cellular_component | 34 | 528 | 0.989 | 4293 | mitogen-activated protein kinase kinase kinase 9 |
| GO | cellular_component | 34 | 528 | 0.989 | 50486 | G0/G1switch 2 |
| GO | cellular_component | 34 | 528 | 0.989 | 5129 | cyclin-dependent kinase 18 |
| GO | cellular_component | 34 | 528 | 0.989 | 54436 | SH3 domain and tetratricopeptide repeats 1 |
| GO | cellular_component | 34 | 528 | 0.989 | 54664 | transmembrane protein 106B |
| GO | cellular_component | 34 | 528 | 0.989 | 57464 | family with sequence similarity 40, member B |
| GO | cellular_component | 34 | 528 | 0.989 | 57535 | KIAA1324 |
| GO | cellular_component | 34 | 528 | 0.989 | 6343 | secretin |
| GO | cellular_component | 34 | 528 | 0.989 | 64651 | cysteine-serine-rich nuclear protein 1 |

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| GO | cellular_component | 34 | 528 | 0.989 | 80833 | apolipoprotein L, 3 |
| GO | cellular_component | 34 | 528 | 0.989 | 8382 | non-metastatic cells 5, protein expressed in (nucleoside-diphosphate k |
| GO | cellular_component | 34 | 528 | 0.989 | 8622 | phosphodiesterase 8B |
| GO | cytosol | 59 | 1230 | 0.989 | 10156 | RAS p21 protein activator 4 |
| GO | cytosol | 59 | 1230 | 0.989 | 10252 | sprouty homolog 1, antagonist of FGF signaling (Drosophila) |
| GO | cytosol | 59 | 1230 | 0.989 | 10253 | sprouty homolog 2 (Drosophila) |
| GO | cytosol | 59 | 1230 | 0.989 | 10891 | peroxisome proliferator-activated receptor gamma, coactivator 1 alpha |
| GO | cytosol | 59 | 1230 | 0.989 | 1152 | creatine kinase, brain |
| GO | cytosol | 59 | 1230 | 0.989 | 150094 | salt-inducible kinase 1 |
| GO | cytosol | 59 | 1230 | 0.989 | 1915 | eukaryotic translation elongation factor 1 alpha 1 |
| GO | cytosol | 59 | 1230 | 0.989 | 196383 | Rab interacting lysosomal protein-like 2 |
| GO | cytosol | 59 | 1230 | 0.989 | 1983 | eukaryotic translation initiation factor 5 |
| GO | cytosol | 59 | 1230 | 0.989 | 23263 | MCF.2 cell line derived transforming sequence-like |
| GO | cytosol | 59 | 1230 | 0.989 | 23365 | Rho guanine nucleotide exchange factor (GEF) 12 |
| GO | cytosol | 59 | 1230 | 0.989 | 240 | arachidonate 5-lipoxygenase |
| GO | cytosol | 59 | 1230 | 0.989 | 26119 | low density lipoprotein receptor adaptor protein 1 |
| GO | cytosol | 59 | 1230 | 0.989 | 2737 | GLI family zinc finger 3 |
| GO | cytosol | 59 | 1230 | 0.989 | 2752 | glutamate-ammonia ligase (glutamine synthetase) |
| GO | cytosol | 59 | 1230 | 0.989 | 3034 | histidine ammonia-lyase |
| GO | cytosol | 59 | 1230 | 0.989 | 3643 | insulin receptor |
| GO | cytosol | 59 | 1230 | 0.989 | 3665 | interferon regulatory factor 7 |
| GO | cytosol | 59 | 1230 | 0.989 | 3725 | jun oncogene |
| GO | cytosol | 59 | 1230 | 0.989 | 4087 | SMAD family member 2 |
| GO | cytosol | 59 | 1230 | 0.989 | 440603 | BCL2-like 15 |
| GO | cytosol | 59 | 1230 | 0.989 | 4524 | 5,10-methylenetetrahydrofolate reductase (NADPH) |
| GO | cytosol | 59 | 1230 | 0.989 | 4599 | myxovirus (influenza virus) resistance 1, interferon-inducible protein p |
| GO | cytosol | 59 | 1230 | 0.989 | 4638 | myosin light chain kinase |
| GO | cytosol | 59 | 1230 | 0.989 | 4792 | nuclear factor of kappa light polypeptide gene enhancer in B-cells inhib |
| GO | cytosol | 59 | 1230 | 0.989 | 48 | aconitase 1, soluble |
| GO | cytosol | 59 | 1230 | 0.989 | 4886 | neuropeptide Y receptor Y1 |
| GO | cytosol | 59 | 1230 | 0.989 | 5071 | Parkinson disease (autosomal recessive, juvenile) 2, parkin |
| GO | cytosol | 59 | 1230 | 0.989 | 50865 | heme binding protein 1 |
| GO | cytosol | 59 | 1230 | 0.989 | 5132 | phosducin |
| GO | cytosol | 59 | 1230 | 0.989 | 5136 | phosphodiesterase 1A, calmodulin-dependent |
| GO | cytosol | 59 | 1230 | 0.989 | 5152 | phosphodiesterase 9A |
| GO | cytosol | 59 | 1230 | 0.989 | 5218 | cyclin-dependent kinase 14 |

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| GO | cytosol | 59 | 1230 | 0.989 | 5295 | phosphoinositide-3-kinase, regulatory subunit 1 (alpha) |
| GO | cytosol | 59 | 1230 | 0.989 | 53347 | ubiquitin associated and SH3 domain containing, A |
| GO | cytosol | 59 | 1230 | 0.989 | 5460 | POU class 5 homeobox 1 |
| GO | cytosol | 59 | 1230 | 0.989 | 55740 | enabled homolog (Drosophila) |
| GO | cytosol | 59 | 1230 | 0.989 | 5577 | protein kinase, cAMP-dependent, regulatory, type II, beta |
| GO | cytosol | 59 | 1230 | 0.989 | 57104 | patatin-like phospholipase domain containing 2 |
| GO | cytosol | 59 | 1230 | 0.989 | 57132 | chromatin modifying protein 1B |
| GO | cytosol | 59 | 1230 | 0.989 | 57161 | pellino homolog 2 (Drosophila) |
| GO | cytosol | 59 | 1230 | 0.989 | 5900 | ral guanine nucleotide dissociation stimulator |
| GO | cytosol | 59 | 1230 | 0.989 | 64083 | golgi phosphoprotein 3 (coat-protein) |
| GO | cytosol | 59 | 1230 | 0.989 | 64127 | nucleotide-binding oligomerization domain containing 2 |
| GO | cytosol | 59 | 1230 | 0.989 | 64359 | nucleoredoxin |
| GO | cytosol | 59 | 1230 | 0.989 | 6622 | synuclein, alpha (non A4 component of amyloid precursor) |
| GO | cytosol | 59 | 1230 | 0.989 | 6710 | spectrin, beta, erythrocytic |
| GO | cytosol | 59 | 1230 | 0.989 | 6921 | transcription elongation factor B (SIII), polypeptide 1 (15kDa, elongin C |
| GO | cytosol | 59 | 1230 | 0.989 | 7538 | zinc finger protein 36, C3H type, homolog (mouse) |
| GO | cytosol | 59 | 1230 | 0.989 | 760 | carbonic anhydrase II |
| GO | cytosol | 59 | 1230 | 0.989 | 84033 | obscurin, cytoskeletal calmodulin and titin-interacting RhoGEF |
| GO | cytosol | 59 | 1230 | 0.989 | 85004 | RAS-like, estrogen-regulated, growth inhibitor |
| GO | cytosol | 59 | 1230 | 0.989 | 8660 | insulin receptor substrate 2 |
| GO | cytosol | 59 | 1230 | 0.989 | 8900 | cyclin A1 |
| GO | cytosol | 59 | 1230 | 0.989 | 8996 | nucleolar protein 3 (apoptosis repressor with CARD domain) |
| GO | cytosol | 59 | 1230 | 0.989 | 9050 | proline-serine-threonine phosphatase interacting protein 2 |
| GO | cytosol | 59 | 1230 | 0.989 | 9182 | Ras association (RalGDS/AF-6) domain family (N-terminal) member 9 |
| GO | cytosol | 59 | 1230 | 0.989 | 93100 | nicotinate phosphoribosyltransferase domain containing 1 |
| GO | cytosol | 59 | 1230 | 0.989 | 9459 | Rac/Cdc42 guanine nucleotide exchange factor (GEF) 6 |
| GO | acyltransferase activity | 5 | 133 | 0.989 | 10162 | lysophosphatidylcholine acyltransferase 3 |
| GO | acyltransferase activity | 5 | 133 | 0.989 | 154141 | membrane bound O-acyltransferase domain containing 1 |
| GO | acyltransferase activity | 5 | 133 | 0.989 | 54947 | lysophosphatidylcholine acyltransferase 2 |
| GO | acyltransferase activity | 5 | 133 | 0.989 | 55140 | elongation protein 3 homolog (S. cerevisiae) |
| GO | acyltransferase activity | 5 | 133 | 0.989 | 55304 | serine palmitoyltransferase, long chain base subunit 3 |
| GO | integral to endoplasmic reticulum me | 2 | 46 | 0.989 | 10170 | dehydrogenase/reductase (SDR family) member 9 |
| GO | integral to endoplasmic reticulum me | 2 | 46 | 0.989 | 6238 | ribosome binding protein 1 homolog 180kDa (dog) |
| GO | cytoskeleton | 39 | 635 | 0.989 | 10205 | myelin protein zero-like 2 |
| GO | cytoskeleton | 39 | 635 | 0.989 | 10435 | CDC42 effector protein (Rho GTPase binding) 2 |
| GO | cytoskeleton | 39 | 635 | 0.989 | 11043 | midline 2 |

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| GO | cytoskeleton | 39 | 635 | 0.989 | 11155 | LIM domain binding 3 |
| GO | cytoskeleton | 39 | 635 | 0.989 | 134549 | shroom family member 1 |
| GO | cytoskeleton | 39 | 635 | 0.989 | 148170 | CDC42 effector protein (Rho GTPase binding) 5 |
| GO | cytoskeleton | 39 | 635 | 0.989 | 152273 | FYVE, RhoGEF and PH domain containing 5 |
| GO | cytoskeleton | 39 | 635 | 0.989 | 1540 | cylindromatosis (turban tumor syndrome) |
| GO | cytoskeleton | 39 | 635 | 0.989 | 1785 | dynamin 2 |
| GO | cytoskeleton | 39 | 635 | 0.989 | 1821 | dystrophin related protein 2 |
| GO | cytoskeleton | 39 | 635 | 0.989 | 2040 | stomatin |
| GO | cytoskeleton | 39 | 635 | 0.989 | 23048 | formin binding protein 1 |
| GO | cytoskeleton | 39 | 635 | 0.989 | 23092 | Rho GTPase activating protein 26 |
| GO | cytoskeleton | 39 | 635 | 0.989 | 23095 | kinesin family member 1B |
| GO | cytoskeleton | 39 | 635 | 0.989 | 23303 | kinesin family member 13B |
| GO | cytoskeleton | 39 | 635 | 0.989 | 257019 | FERM domain containing 3 |
| GO | cytoskeleton | 39 | 635 | 0.989 | 28951 | tribbles homolog 2 (Drosophila) |
| GO | cytoskeleton | 39 | 635 | 0.989 | 29116 | myosin regulatory light chain interacting protein |
| GO | cytoskeleton | 39 | 635 | 0.989 | 311 | annexin A11 |
| GO | cytoskeleton | 39 | 635 | 0.989 | 345895 | radial spoke head 4 homolog A (Chlamydomonas) |
| GO | cytoskeleton | 39 | 635 | 0.989 | 4254 | KIT ligand |
| GO | cytoskeleton | 39 | 635 | 0.989 | 4842 | nitric oxide synthase 1 (neuronal) |
| GO | cytoskeleton | 39 | 635 | 0.989 | 51168 | myosin XVA |
| GO | cytoskeleton | 39 | 635 | 0.989 | 5239 | phosphoglucomutase 5 |
| GO | cytoskeleton | 39 | 635 | 0.989 | 54961 | slingshot homolog 3 (Drosophila) |
| GO | cytoskeleton | 39 | 635 | 0.989 | 55200 | pleckstrin homology domain containing, family G (with RhoGef domain |
| GO | cytoskeleton | 39 | 635 | 0.989 | 55638 | Golgi-localized protein |
| GO | cytoskeleton | 39 | 635 | 0.989 | 55740 | enabled homolog (Drosophila) |
| GO | cytoskeleton | 39 | 635 | 0.989 | 55909 | bridging integrator 3 |
| GO | cytoskeleton | 39 | 635 | 0.989 | 56288 | par-3 partitioning defective 3 homolog (C. elegans) |
| GO | cytoskeleton | 39 | 635 | 0.989 | 57619 | shroom family member 3 |
| GO | cytoskeleton | 39 | 635 | 0.989 | 5774 | protein tyrosine phosphatase, non-receptor type 3 |
| GO | cytoskeleton | 39 | 635 | 0.989 | 642273 | family with sequence similarity 110, member C |
| GO | cytoskeleton | 39 | 635 | 0.989 | 7170 | tropomyosin 3 |
| GO | cytoskeleton | 39 | 635 | 0.989 | 85477 | scinderin |
| GO | cytoskeleton | 39 | 635 | 0.989 | 8556 | CDC14 cell division cycle 14 homolog A (S. cerevisiae) |
| GO | cytoskeleton | 39 | 635 | 0.989 | 90362 | family with sequence similarity 110, member B |
| GO | cytoskeleton | 39 | 635 | 0.989 | 9050 | proline-serine-threonine phosphatase interacting protein 2 |
| GO | cytoskeleton | 39 | 635 | 0.989 | 9087 | thymosin beta 4, Y-linked |

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|---|---|---|---|---|---|---|
| GO | ATP binding | 87 | 1426 | 0.989 | 10221 | tribbles homolog 1 (Drosophila) |
| GO | ATP binding | 87 | 1426 | 0.989 | 10769 | polo-like kinase 2 (Drosophila) |
| GO | ATP binding | 87 | 1426 | 0.989 | 1080 | cystic fibrosis transmembrane conductance regulator (ATP-binding cas |
| GO | ATP binding | 87 | 1426 | 0.989 | 112 | adenylate cyclase 6 |
| GO | ATP binding | 87 | 1426 | 0.989 | 11200 | CHK2 checkpoint homolog (S. pombe) |
| GO | ATP binding | 87 | 1426 | 0.989 | 11213 | interleukin-1 receptor-associated kinase 3 |
| GO | ATP binding | 87 | 1426 | 0.989 | 1152 | creatine kinase, brain |
| GO | ATP binding | 87 | 1426 | 0.989 | 127933 | U2AF homology motif (UHM) kinase 1 |
| GO | ATP binding | 87 | 1426 | 0.989 | 130399 | activin A receptor, type IC |
| GO | ATP binding | 87 | 1426 | 0.989 | 134111 | ubiquitin-conjugating enzyme E2Q family-like 1 |
| GO | ATP binding | 87 | 1426 | 0.989 | 1373 | carbamoyl-phosphate synthetase 1, mitochondrial |
| GO | ATP binding | 87 | 1426 | 0.989 | 140901 | serine/threonine kinase 35 |
| GO | ATP binding | 87 | 1426 | 0.989 | 147945 | NLR family, pyrin domain containing 4 |
| GO | ATP binding | 87 | 1426 | 0.989 | 148229 | ATPase, class I, type 8B, member 3 |
| GO | ATP binding | 87 | 1426 | 0.989 | 150094 | salt-inducible kinase 1 |
| GO | ATP binding | 87 | 1426 | 0.989 | 1612 | death-associated protein kinase 1 |
| GO | ATP binding | 87 | 1426 | 0.989 | 1969 | EPH receptor A2 |
| GO | ATP binding | 87 | 1426 | 0.989 | 197259 | mixed lineage kinase domain-like |
| GO | ATP binding | 87 | 1426 | 0.989 | 2044 | EPH receptor A5 |
| GO | ATP binding | 87 | 1426 | 0.989 | 205 | adenylate kinase 3-like 1 |
| GO | ATP binding | 87 | 1426 | 0.989 | 2066 | v-erb-a erythroblastic leukemia viral oncogene homolog 4 (avian) |
| GO | ATP binding | 87 | 1426 | 0.989 | 2182 | acyl-CoA synthetase long-chain family member 4 |
| GO | ATP binding | 87 | 1426 | 0.989 | 2263 | fibroblast growth factor receptor 2 |
| GO | ATP binding | 87 | 1426 | 0.989 | 23043 | TRAF2 and NCK interacting kinase |
| GO | ATP binding | 87 | 1426 | 0.989 | 23095 | kinesin family member 1B |
| GO | ATP binding | 87 | 1426 | 0.989 | 23303 | kinesin family member 13B |
| GO | ATP binding | 87 | 1426 | 0.989 | 23387 | SIK family kinase 3 |
| GO | ATP binding | 87 | 1426 | 0.989 | 23604 | death-associated protein kinase 2 |
| GO | ATP binding | 87 | 1426 | 0.989 | 2752 | glutamate-ammonia ligase (glutamine synthetase) |
| GO | ATP binding | 87 | 1426 | 0.989 | 284716 | ribosomal modification protein rimK-like family member A |
| GO | ATP binding | 87 | 1426 | 0.989 | 28951 | tribbles homolog 2 (Drosophila) |
| GO | ATP binding | 87 | 1426 | 0.989 | 28996 | homeodomain interacting protein kinase 2 |
| GO | ATP binding | 87 | 1426 | 0.989 | 3192 | heterogeneous nuclear ribonucleoprotein U (scaffold attachment facto |
| GO | ATP binding | 87 | 1426 | 0.989 | 3306 | heat shock 70kDa protein 2 |
| GO | ATP binding | 87 | 1426 | 0.989 | 343450 | potassium channel, subfamily T, member 2 |
| GO | ATP binding | 87 | 1426 | 0.989 | 3643 | insulin receptor |

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| GO | ATP binding | 87 | 1426 | 0.989 | 368 | ATP-binding cassette, sub-family C (CFTR/MRP), member 6 |
| GO | ATP binding | 87 | 1426 | 0.989 | 375449 | microtubule associated serine/threonine kinase family member 4 |
| GO | ATP binding | 87 | 1426 | 0.989 | 3815 | v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog |
| GO | ATP binding | 87 | 1426 | 0.989 | 415116 | pim-3 oncogene |
| GO | ATP binding | 87 | 1426 | 0.989 | 4293 | mitogen-activated protein kinase kinase kinase 9 |
| GO | ATP binding | 87 | 1426 | 0.989 | 4486 | macrophage stimulating 1 receptor (c-met-related tyrosine kinase) |
| GO | ATP binding | 87 | 1426 | 0.989 | 4638 | myosin light chain kinase |
| GO | ATP binding | 87 | 1426 | 0.989 | 4645 | myosin VB |
| GO | ATP binding | 87 | 1426 | 0.989 | 4915 | neurotrophic tyrosine kinase, receptor, type 2 |
| GO | ATP binding | 87 | 1426 | 0.989 | 493 | ATPase, Ca++ transporting, plasma membrane 4 |
| GO | ATP binding | 87 | 1426 | 0.989 | 4939 | 2'-5'-oligoadenylate synthetase 2, 69/71kDa |
| GO | ATP binding | 87 | 1426 | 0.989 | 498 | ATP synthase, H+ transporting, mitochondrial F1 complex, alpha subun |
| GO | ATP binding | 87 | 1426 | 0.989 | 5025 | purinergic receptor P2X, ligand-gated ion channel, 4 |
| GO | ATP binding | 87 | 1426 | 0.989 | 5063 | p21 protein (Cdc42/Rac)-activated kinase 3 |
| GO | ATP binding | 87 | 1426 | 0.989 | 51168 | myosin XVA |
| GO | ATP binding | 87 | 1426 | 0.989 | 5129 | cyclin-dependent kinase 18 |
| GO | ATP binding | 87 | 1426 | 0.989 | 51314 | thioredoxin domain containing 3 (spermatozoa) |
| GO | ATP binding | 87 | 1426 | 0.989 | 51703 | acyl-CoA synthetase long-chain family member 5 |
| GO | ATP binding | 87 | 1426 | 0.989 | 5218 | cyclin-dependent kinase 14 |
| GO | ATP binding | 87 | 1426 | 0.989 | 5243 | ATP-binding cassette, sub-family B (MDR/TAP), member 1 |
| GO | ATP binding | 87 | 1426 | 0.989 | 5244 | ATP-binding cassette, sub-family B (MDR/TAP), member 4 |
| GO | ATP binding | 87 | 1426 | 0.989 | 55601 | DEAD (Asp-Glu-Ala-Asp) box polypeptide 60 |
| GO | ATP binding | 87 | 1426 | 0.989 | 5608 | mitogen-activated protein kinase kinase 6 |
| GO | ATP binding | 87 | 1426 | 0.989 | 57118 | calcium/calmodulin-dependent protein kinase ID |
| GO | ATP binding | 87 | 1426 | 0.989 | 57147 | SCY1-like 3 (S. cerevisiae) |
| GO | ATP binding | 87 | 1426 | 0.989 | 57494 | ribosomal modification protein rimK-like family member B |
| GO | ATP binding | 87 | 1426 | 0.989 | 64127 | nucleotide-binding oligomerization domain containing 2 |
| GO | ATP binding | 87 | 1426 | 0.989 | 64135 | interferon induced with helicase C domain 1 |
| GO | ATP binding | 87 | 1426 | 0.989 | 6446 | serum/glucocorticoid regulated kinase 1 |
| GO | ATP binding | 87 | 1426 | 0.989 | 6850 | spleen tyrosine kinase |
| GO | ATP binding | 87 | 1426 | 0.989 | 774 | calcium channel, voltage-dependent, N type, alpha 1B subunit |
| GO | ATP binding | 87 | 1426 | 0.989 | 79132 | DEXH (Asp-Glu-X-His) box polypeptide 58 |
| GO | ATP binding | 87 | 1426 | 0.989 | 79611 | acyl-CoA synthetase short-chain family member 3 |
| GO | ATP binding | 87 | 1426 | 0.989 | 79895 | ATPase, class I, type 8B, member 4 |
| GO | ATP binding | 87 | 1426 | 0.989 | 81788 | NUAK family, SNF1-like kinase, 2 |
| GO | ATP binding | 87 | 1426 | 0.989 | 8382 | non-metastatic cells 5, protein expressed in (nucleoside-diphosphate k |

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| GO | ATP binding | 87 | 1426 | 0.989 | 83858 | ATPase family, AAA domain containing 3B |
| GO | ATP binding | 87 | 1426 | 0.989 | 84033 | obscurin, cytoskeletal calmodulin and titin-interacting RhoGEF |
| GO | ATP binding | 87 | 1426 | 0.989 | 8527 | diacylglycerol kinase, delta 130kDa |
| GO | ATP binding | 87 | 1426 | 0.989 | 85441 | peroxisomal proliferator-activated receptor A interacting complex 285 |
| GO | ATP binding | 87 | 1426 | 0.989 | 8653 | DEAD (Asp-Glu-Ala-Asp) box polypeptide 3, Y-linked |
| GO | ATP binding | 87 | 1426 | 0.989 | 9060 | 3'-phosphoadenosine 5'-phosphosulfate synthase 2 |
| GO | ATP binding | 87 | 1426 | 0.989 | 9064 | mitogen-activated protein kinase kinase kinase 6 |
| GO | ATP binding | 87 | 1426 | 0.989 | 91 | activin A receptor, type IB |
| GO | ATP binding | 87 | 1426 | 0.989 | 91461 | protein kinase domain containing, cytoplasmic homolog (mouse) |
| GO | ATP binding | 87 | 1426 | 0.989 | 91607 | schlafen family member 11 |
| GO | ATP binding | 87 | 1426 | 0.989 | 9263 | serine/threonine kinase 17a |
| GO | ATP binding | 87 | 1426 | 0.989 | 94 | activin A receptor type II-like 1 |
| GO | ATP binding | 87 | 1426 | 0.989 | 9445 | integral membrane protein 2B |
| GO | ATP binding | 87 | 1426 | 0.989 | 9619 | ATP-binding cassette, sub-family G (WHITE), member 1 |
| GO | ATP binding | 87 | 1426 | 0.989 | 9914 | ATPase, Ca++ transporting, type 2C, member 2 |
| GO | negative regulation of transcription f | 1 | 30 | 0.989 | 10221 | tribbles homolog 1 (Drosophila) |
| GO | protein kinase activity | 7 | 170 | 0.989 | 10221 | tribbles homolog 1 (Drosophila) |
| GO | protein kinase activity | 7 | 170 | 0.989 | 197259 | mixed lineage kinase domain-like |
| GO | protein kinase activity | 7 | 170 | 0.989 | 28951 | tribbles homolog 2 (Drosophila) |
| GO | protein kinase activity | 7 | 170 | 0.989 | 28996 | homeodomain interacting protein kinase 2 |
| GO | protein kinase activity | 7 | 170 | 0.989 | 57147 | SCY1-like 3 (S. cerevisiae) |
| GO | protein kinase activity | 7 | 170 | 0.989 | 6850 | spleen tyrosine kinase |
| GO | protein kinase activity | 7 | 170 | 0.989 | 91461 | protein kinase domain containing, cytoplasmic homolog (mouse) |
| GO | microtubule | 9 | 233 | 0.989 | 10253 | sprouty homolog 2 (Drosophila) |
| GO | microtubule | 9 | 233 | 0.989 | 11043 | midline 2 |
| GO | microtubule | 9 | 233 | 0.989 | 134549 | shroom family member 1 |
| GO | microtubule | 9 | 233 | 0.989 | 1785 | dynamin 2 |
| GO | microtubule | 9 | 233 | 0.989 | 23095 | kinesin family member 1B |
| GO | microtubule | 9 | 233 | 0.989 | 23303 | kinesin family member 13B |
| GO | microtubule | 9 | 233 | 0.989 | 57619 | shroom family member 3 |
| GO | microtubule | 9 | 233 | 0.989 | 642273 | family with sequence similarity 110, member C |
| GO | microtubule | 9 | 233 | 0.989 | 83593 | Ras association (RalGDS/AF-6) domain family member 5 |
| GO | intracellular protein transport | 2 | 174 | 0.989 | 10268 | receptor (G protein-coupled) activity modifying protein 3 |
| GO | intracellular protein transport | 2 | 174 | 0.989 | 55705 | importin 9 |
| GO | protein transporter activity | 2 | 69 | 0.989 | 10268 | receptor (G protein-coupled) activity modifying protein 3 |
| GO | protein transporter activity | 2 | 69 | 0.989 | 55705 | importin 9 |

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|---|---|---|---|---|---|---|
| GO | protein transport | 25 | 388 | 0.989 | 10268 | receptor (G protein-coupled) activity modifying protein 3 |
| GO | protein transport | 25 | 388 | 0.989 | 10282 | blocked early in transport 1 homolog (S. cerevisiae) |
| GO | protein transport | 25 | 388 | 0.989 | 112574 | sorting nexin 18 |
| GO | protein transport | 25 | 388 | 0.989 | 127845 | golgi transport 1 homolog A (S. cerevisiae) |
| GO | protein transport | 25 | 388 | 0.989 | 1755 | deleted in malignant brain tumors 1 |
| GO | protein transport | 25 | 388 | 0.989 | 23682 | RAB38, member RAS oncogene family |
| GO | protein transport | 25 | 388 | 0.989 | 25837 | RAB26, member RAS oncogene family |
| GO | protein transport | 25 | 388 | 0.989 | 25956 | SEC31 homolog B (S. cerevisiae) |
| GO | protein transport | 25 | 388 | 0.989 | 375056 | melanoma inhibitory activity family, member 3 |
| GO | protein transport | 25 | 388 | 0.989 | 387923 | stress-associated endoplasmic reticulum protein family member 2 |
| GO | protein transport | 25 | 388 | 0.989 | 405753 | dual oxidase maturation factor 2 |
| GO | protein transport | 25 | 388 | 0.989 | 4645 | myosin VB |
| GO | protein transport | 25 | 388 | 0.989 | 51272 | blocked early in transport 1 homolog (S. cerevisiae)-like |
| GO | protein transport | 25 | 388 | 0.989 | 55275 | vacuolar protein sorting 53 homolog (S. cerevisiae) |
| GO | protein transport | 25 | 388 | 0.989 | 57132 | chromatin modifying protein 1B |
| GO | protein transport | 25 | 388 | 0.989 | 57799 | RAB40C, member RAS oncogene family |
| GO | protein transport | 25 | 388 | 0.989 | 5873 | RAB27A, member RAS oncogene family |
| GO | protein transport | 25 | 388 | 0.989 | 6238 | ribosome binding protein 1 homolog 180kDa (dog) |
| GO | protein transport | 25 | 388 | 0.989 | 6564 | solute carrier family 15 (oligopeptide transporter), member 1 |
| GO | protein transport | 25 | 388 | 0.989 | 6565 | solute carrier family 15 (H+/peptide transporter), member 2 |
| GO | protein transport | 25 | 388 | 0.989 | 6812 | syntaxin binding protein 1 |
| GO | protein transport | 25 | 388 | 0.989 | 80223 | RAB11 family interacting protein 1 (class I) |
| GO | protein transport | 25 | 388 | 0.989 | 8527 | diacylglycerol kinase, delta 130kDa |
| GO | protein transport | 25 | 388 | 0.989 | 89866 | SEC16 homolog B (S. cerevisiae) |
| GO | protein transport | 25 | 388 | 0.989 | 91461 | protein kinase domain containing, cytoplasmic homolog (mouse) |
| GO | ER to Golgi vesicle-mediated transpo | 1 | 41 | 0.989 | 10282 | blocked early in transport 1 homolog (S. cerevisiae) |
| GO | vesicle-mediated transport | 6 | 165 | 0.989 | 10282 | blocked early in transport 1 homolog (S. cerevisiae) |
| GO | vesicle-mediated transport | 6 | 165 | 0.989 | 127845 | golgi transport 1 homolog A (S. cerevisiae) |
| GO | vesicle-mediated transport | 6 | 165 | 0.989 | 25956 | SEC31 homolog B (S. cerevisiae) |
| GO | vesicle-mediated transport | 6 | 165 | 0.989 | 6812 | syntaxin binding protein 1 |
| GO | vesicle-mediated transport | 6 | 165 | 0.989 | 8673 | vesicle-associated membrane protein 8 (endobrevin) |
| GO | vesicle-mediated transport | 6 | 165 | 0.989 | 89866 | SEC16 homolog B (S. cerevisiae) |
| GO | membrane fraction | 31 | 472 | 0.989 | 10288 | leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIN |
| GO | membrane fraction | 31 | 472 | 0.989 | 10942 | protease, serine, 21 (testisin) |
| GO | membrane fraction | 31 | 472 | 0.989 | 112 | adenylate cyclase 6 |
| GO | membrane fraction | 31 | 472 | 0.989 | 154 | adrenergic, beta-2-, receptor, surface |

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|---|---|---|---|---|---|---|
| GO | membrane fraction | 31 | 472 | 0.989 | 157506 | retinol dehydrogenase 10 (all-trans) |
| GO | membrane fraction | 31 | 472 | 0.989 | 1803 | dipeptidyl-peptidase 4 |
| GO | membrane fraction | 31 | 472 | 0.989 | 2525 | fucosyltransferase 3 (galactoside 3(4)-L-fucosyltransferase, Lewis bloo |
| GO | membrane fraction | 31 | 472 | 0.989 | 2526 | fucosyltransferase 4 (alpha (1,3) fucosyltransferase, myeloid-specific) |
| GO | membrane fraction | 31 | 472 | 0.989 | 368 | ATP-binding cassette, sub-family C (CFTR/MRP), member 6 |
| GO | membrane fraction | 31 | 472 | 0.989 | 3845 | v-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog |
| GO | membrane fraction | 31 | 472 | 0.989 | 412 | steroid sulfatase (microsomal), isozyme S |
| GO | membrane fraction | 31 | 472 | 0.989 | 4121 | mannosidase, alpha, class 1A, member 1 |
| GO | membrane fraction | 31 | 472 | 0.989 | 5243 | ATP-binding cassette, sub-family B (MDR/TAP), member 1 |
| GO | membrane fraction | 31 | 472 | 0.989 | 5244 | ATP-binding cassette, sub-family B (MDR/TAP), member 4 |
| GO | membrane fraction | 31 | 472 | 0.989 | 53947 | alpha 1,4-galactosyltransferase |
| GO | membrane fraction | 31 | 472 | 0.989 | 5577 | protein kinase, cAMP-dependent, regulatory, type II, beta |
| GO | membrane fraction | 31 | 472 | 0.989 | 6004 | regulator of G-protein signaling 16 |
| GO | membrane fraction | 31 | 472 | 0.989 | 6505 | solute carrier family 1 (neuronal/epithelial high affinity glutamate tran |
| GO | membrane fraction | 31 | 472 | 0.989 | 6542 | solute carrier family 7 (cationic amino acid transporter, y+ system), me |
| GO | membrane fraction | 31 | 472 | 0.989 | 6564 | solute carrier family 15 (oligopeptide transporter), member 1 |
| GO | membrane fraction | 31 | 472 | 0.989 | 6565 | solute carrier family 15 (H+/peptide transporter), member 2 |
| GO | membrane fraction | 31 | 472 | 0.989 | 6692 | serine peptidase inhibitor, Kunitz type 1 |
| GO | membrane fraction | 31 | 472 | 0.989 | 6751 | somatostatin receptor 1 |
| GO | membrane fraction | 31 | 472 | 0.989 | 7133 | tumor necrosis factor receptor superfamily, member 1B |
| GO | membrane fraction | 31 | 472 | 0.989 | 8434 | reversion-inducing-cysteine-rich protein with kazal motifs |
| GO | membrane fraction | 31 | 472 | 0.989 | 8673 | vesicle-associated membrane protein 8 (endobrevin) |
| GO | membrane fraction | 31 | 472 | 0.989 | 8992 | ATPase, H+ transporting, lysosomal 9kDa, V0 subunit e1 |
| GO | membrane fraction | 31 | 472 | 0.989 | 9050 | proline-serine-threonine phosphatase interacting protein 2 |
| GO | membrane fraction | 31 | 472 | 0.989 | 9194 | solute carrier family 16, member 7 (monocarboxylic acid transporter 2) |
| GO | membrane fraction | 31 | 472 | 0.989 | 952 | CD38 molecule |
| GO | membrane fraction | 31 | 472 | 0.989 | 9962 | solute carrier family 23 (nucleobase transporters), member 2 |
| GO | hydrogen ion transmembrane transp | 1 | 20 | 0.989 | 10312 | T-cell, immune regulator 1, ATPase, H+ transporting, lysosomal V0 sub |
| GO | mitochondrion | 51 | 1193 | 0.989 | 10312 | T-cell, immune regulator 1, ATPase, H+ transporting, lysosomal V0 sub |
| GO | mitochondrion | 51 | 1193 | 0.989 | 11067 | chromosome 10 open reading frame 10 |
| GO | mitochondrion | 51 | 1193 | 0.989 | 11074 | tripartite motif-containing 31 |
| GO | mitochondrion | 51 | 1193 | 0.989 | 11199 | annexin A10 |
| GO | mitochondrion | 51 | 1193 | 0.989 | 11238 | carbonic anhydrase VB, mitochondrial |
| GO | mitochondrion | 51 | 1193 | 0.989 | 112724 | retinol dehydrogenase 13 (all-trans/9-cis) |
| GO | mitochondrion | 51 | 1193 | 0.989 | 1152 | creatine kinase, brain |
| GO | mitochondrion | 51 | 1193 | 0.989 | 123096 | solute carrier family 25, member 29 |

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|---|---|---|---|---|---|---|
| GO | mitochondrion | 51 | 1193 | 0.989 | 1373 | carbamoyl-phosphate synthetase 1, mitochondrial |
| GO | mitochondrion | 51 | 1193 | 0.989 | 137994 | leucine zipper-EF-hand containing transmembrane protein 2 |
| GO | mitochondrion | 51 | 1193 | 0.989 | 1508 | cathepsin B |
| GO | mitochondrion | 51 | 1193 | 0.989 | 1571 | cytochrome P450, family 2, subfamily E, polypeptide 1 |
| GO | mitochondrion | 51 | 1193 | 0.989 | 205 | adenylate kinase 3-like 1 |
| GO | mitochondrion | 51 | 1193 | 0.989 | 2182 | acyl-CoA synthetase long-chain family member 4 |
| GO | mitochondrion | 51 | 1193 | 0.989 | 22906 | trafficking protein, kinesin binding 1 |
| GO | mitochondrion | 51 | 1193 | 0.989 | 23095 | kinesin family member 1B |
| GO | mitochondrion | 51 | 1193 | 0.989 | 23151 | GRAM domain containing 4 |
| GO | mitochondrion | 51 | 1193 | 0.989 | 23263 | MCF.2 cell line derived transforming sequence-like |
| GO | mitochondrion | 51 | 1193 | 0.989 | 2571 | glutamate decarboxylase 1 (brain, 67kDa) |
| GO | mitochondrion | 51 | 1193 | 0.989 | 27165 | glutaminase 2 (liver, mitochondrial) |
| GO | mitochondrion | 51 | 1193 | 0.989 | 2752 | glutamate-ammonia ligase (glutamine synthetase) |
| GO | mitochondrion | 51 | 1193 | 0.989 | 29103 | DnaJ (Hsp40) homolog, subfamily C, member 15 |
| GO | mitochondrion | 51 | 1193 | 0.989 | 3306 | heat shock 70kDa protein 2 |
| GO | mitochondrion | 51 | 1193 | 0.989 | 3429 | interferon, alpha-inducible protein 27 |
| GO | mitochondrion | 51 | 1193 | 0.989 | 35 | acyl-Coenzyme A dehydrogenase, C-2 to C-3 short chain |
| GO | mitochondrion | 51 | 1193 | 0.989 | 3845 | v-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog |
| GO | mitochondrion | 51 | 1193 | 0.989 | 4128 | monoamine oxidase A |
| GO | mitochondrion | 51 | 1193 | 0.989 | 4129 | monoamine oxidase B |
| GO | mitochondrion | 51 | 1193 | 0.989 | 4170 | myeloid cell leukemia sequence 1 (BCL2-related) |
| GO | mitochondrion | 51 | 1193 | 0.989 | 4817 | nitrilase 1 |
| GO | mitochondrion | 51 | 1193 | 0.989 | 4939 | 2'-5'-oligoadenylate synthetase 2, 69/71kDa |
| GO | mitochondrion | 51 | 1193 | 0.989 | 498 | ATP synthase, H+ transporting, mitochondrial F1 complex, alpha subun |
| GO | mitochondrion | 51 | 1193 | 0.989 | 50865 | heme binding protein 1 |
| GO | mitochondrion | 51 | 1193 | 0.989 | 51703 | acyl-CoA synthetase long-chain family member 5 |
| GO | mitochondrion | 51 | 1193 | 0.989 | 51754 | transmembrane protein 8B |
| GO | mitochondrion | 51 | 1193 | 0.989 | 54739 | XIAP associated factor 1 |
| GO | mitochondrion | 51 | 1193 | 0.989 | 55268 | enoyl Coenzyme A hydratase domain containing 2 |
| GO | mitochondrion | 51 | 1193 | 0.989 | 622 | 3-hydroxybutyrate dehydrogenase, type 1 |
| GO | mitochondrion | 51 | 1193 | 0.989 | 64064 | 3-oxoacid CoA transferase 2 |
| GO | mitochondrion | 51 | 1193 | 0.989 | 64083 | golgi phosphoprotein 3 (coat-protein) |
| GO | mitochondrion | 51 | 1193 | 0.989 | 6812 | syntaxin binding protein 1 |
| GO | mitochondrion | 51 | 1193 | 0.989 | 682 | basigin (Ok blood group) |
| GO | mitochondrion | 51 | 1193 | 0.989 | 7001 | peroxiredoxin 2 |
| GO | mitochondrion | 51 | 1193 | 0.989 | 79611 | acyl-CoA synthetase short-chain family member 3 |

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|---|---|---|---|---|---|---|
| GO | mitochondrion | 51 | 1193 | 0.989 | 79899 | proline rich 5 like |
| GO | mitochondrion | 51 | 1193 | 0.989 | 83857 | transmembrane and tetratricopeptide repeat containing 1 |
| GO | mitochondrion | 51 | 1193 | 0.989 | 84277 | DnaJ (Hsp40) homolog, subfamily C, member 30 |
| GO | mitochondrion | 51 | 1193 | 0.989 | 8673 | vesicle-associated membrane protein 8 (endobrevin) |
| GO | mitochondrion | 51 | 1193 | 0.989 | 90362 | family with sequence similarity 110, member B |
| GO | mitochondrion | 51 | 1193 | 0.989 | 9481 | solute carrier family 25, member 27 |
| GO | mitochondrion | 51 | 1193 | 0.989 | 9804 | translocase of outer mitochondrial membrane 20 homolog (yeast) |
| GO | Cajal body | 1 | 38 | 0.989 | 10346 | tripartite motif-containing 22 |
| GO | ligase activity | 16 | 303 | 0.989 | 10346 | tripartite motif-containing 22 |
| GO | ligase activity | 16 | 303 | 0.989 | 11074 | tripartite motif-containing 31 |
| GO | ligase activity | 16 | 303 | 0.989 | 134111 | ubiquitin-conjugating enzyme E2Q family-like 1 |
| GO | ligase activity | 16 | 303 | 0.989 | 1373 | carbamoyl-phosphate synthetase 1, mitochondrial |
| GO | ligase activity | 16 | 303 | 0.989 | 151636 | deltex 3-like (Drosophila) |
| GO | ligase activity | 16 | 303 | 0.989 | 154214 | ring finger protein 217 |
| GO | ligase activity | 16 | 303 | 0.989 | 2182 | acyl-CoA synthetase long-chain family member 4 |
| GO | ligase activity | 16 | 303 | 0.989 | 255488 | ring finger protein 144B |
| GO | ligase activity | 16 | 303 | 0.989 | 2752 | glutamate-ammonia ligase (glutamine synthetase) |
| GO | ligase activity | 16 | 303 | 0.989 | 29116 | myosin regulatory light chain interacting protein |
| GO | ligase activity | 16 | 303 | 0.989 | 5071 | Parkinson disease (autosomal recessive, juvenile) 2, parkin |
| GO | ligase activity | 16 | 303 | 0.989 | 51703 | acyl-CoA synthetase long-chain family member 5 |
| GO | ligase activity | 16 | 303 | 0.989 | 54894 | ring finger protein 43 |
| GO | ligase activity | 16 | 303 | 0.989 | 7706 | tripartite motif-containing 25 |
| GO | ligase activity | 16 | 303 | 0.989 | 79611 | acyl-CoA synthetase short-chain family member 3 |
| GO | ligase activity | 16 | 303 | 0.989 | 79872 | Cas-Br-M (murine) ecotropic retroviral transforming sequence-like 1 |
| GO | nuclear speck | 4 | 111 | 0.989 | 10346 | tripartite motif-containing 22 |
| GO | nuclear speck | 4 | 111 | 0.989 | 2122 | MDS1 and EVI1 complex locus |
| GO | nuclear speck | 4 | 111 | 0.989 | 57018 | cyclin L1 |
| GO | nuclear speck | 4 | 111 | 0.989 | 6239 | ras responsive element binding protein 1 |
| GO | double-stranded RNA binding | 2 | 31 | 0.989 | 104 | adenosine deaminase, RNA-specific, B1 (RED1 homolog rat) |
| GO | double-stranded RNA binding | 2 | 31 | 0.989 | 7098 | toll-like receptor 3 |
| GO | mRNA processing | 5 | 231 | 0.989 | 104 | adenosine deaminase, RNA-specific, B1 (RED1 homolog rat) |
| GO | mRNA processing | 5 | 231 | 0.989 | 10891 | peroxisome proliferator-activated receptor gamma, coactivator 1 alph |
| GO | mRNA processing | 5 | 231 | 0.989 | 3192 | heterogeneous nuclear ribonucleoprotein U (scaffold attachment facto |
| GO | mRNA processing | 5 | 231 | 0.989 | 57379 | activation-induced cytidine deaminase |
| GO | mRNA processing | 5 | 231 | 0.989 | 8996 | nucleolar protein 3 (apoptosis repressor with CARD domain) |
| GO | nucleolus | 41 | 692 | 0.989 | 104 | adenosine deaminase, RNA-specific, B1 (RED1 homolog rat) |

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|---|---|---|---|---|---|---|
| GO | nucleolus | 41 | 692 | 0.989 | 10838 | zinc finger protein 275 |
| GO | nucleolus | 41 | 692 | 0.989 | 116113 | forkhead box P4 |
| GO | nucleolus | 41 | 692 | 0.989 | 140901 | serine/threonine kinase 35 |
| GO | nucleolus | 41 | 692 | 0.989 | 2033 | E1A binding protein p300 |
| GO | nucleolus | 41 | 692 | 0.989 | 219539 | yippee-like 4 (Drosophila) |
| GO | nucleolus | 41 | 692 | 0.989 | 23043 | TRAF2 and NCK interacting kinase |
| GO | nucleolus | 41 | 692 | 0.989 | 23099 | zinc finger and BTB domain containing 43 |
| GO | nucleolus | 41 | 692 | 0.989 | 23476 | bromodomain containing 4 |
| GO | nucleolus | 41 | 692 | 0.989 | 2353 | FBJ murine osteosarcoma viral oncogene homolog |
| GO | nucleolus | 41 | 692 | 0.989 | 2521 | fused in sarcoma |
| GO | nucleolus | 41 | 692 | 0.989 | 25946 | zinc finger protein 385A |
| GO | nucleolus | 41 | 692 | 0.989 | 2624 | GATA binding protein 2 |
| GO | nucleolus | 41 | 692 | 0.989 | 27295 | PDZ and LIM domain 3 |
| GO | nucleolus | 41 | 692 | 0.989 | 3142 | H2.0-like homeobox |
| GO | nucleolus | 41 | 692 | 0.989 | 3428 | interferon, gamma-inducible protein 16 |
| GO | nucleolus | 41 | 692 | 0.989 | 3726 | jun B proto-oncogene |
| GO | nucleolus | 41 | 692 | 0.989 | 379 | ADP-ribosylation factor-like 4D |
| GO | nucleolus | 41 | 692 | 0.989 | 387496 | RAS-like, family 11, member A |
| GO | nucleolus | 41 | 692 | 0.989 | 4209 | myocyte enhancer factor 2D |
| GO | nucleolus | 41 | 692 | 0.989 | 4212 | Meis homeobox 2 |
| GO | nucleolus | 41 | 692 | 0.989 | 467 | activating transcription factor 3 |
| GO | nucleolus | 41 | 692 | 0.989 | 4778 | nuclear factor (erythroid-derived 2), 45kDa |
| GO | nucleolus | 41 | 692 | 0.989 | 4794 | nuclear factor of kappa light polypeptide gene enhancer in B-cells inhib |
| GO | nucleolus | 41 | 692 | 0.989 | 5307 | paired-like homeodomain 1 |
| GO | nucleolus | 41 | 692 | 0.989 | 5371 | promyelocytic leukemia |
| GO | nucleolus | 41 | 692 | 0.989 | 55140 | elongation protein 3 homolog (S. cerevisiae) |
| GO | nucleolus | 41 | 692 | 0.989 | 55762 | zinc finger protein 701 |
| GO | nucleolus | 41 | 692 | 0.989 | 57459 | GATA zinc finger domain containing 2B |
| GO | nucleolus | 41 | 692 | 0.989 | 604 | B-cell CLL/lymphoma 6 |
| GO | nucleolus | 41 | 692 | 0.989 | 6778 | signal transducer and activator of transcription 6, interleukin-4 induced |
| GO | nucleolus | 41 | 692 | 0.989 | 7404 | ubiquitously transcribed tetratricopeptide repeat gene, Y-linked |
| GO | nucleolus | 41 | 692 | 0.989 | 7706 | tripartite motif-containing 25 |
| GO | nucleolus | 41 | 692 | 0.989 | 80763 | chromosome 12 open reading frame 39 |
| GO | nucleolus | 41 | 692 | 0.989 | 83719 | yippee-like 3 (Drosophila) |
| GO | nucleolus | 41 | 692 | 0.989 | 84875 | poly (ADP-ribose) polymerase family, member 10 |
| GO | nucleolus | 41 | 692 | 0.989 | 8996 | nucleolar protein 3 (apoptosis repressor with CARD domain) |

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|---|---|---|---|---|---|---|
| GO | nucleolus | 41 | 692 | 0.989 | 91748 | chromosome 14 open reading frame 43 |
| GO | nucleolus | 41 | 692 | 0.989 | 9314 | Kruppel-like factor 4 (gut) |
| GO | nucleolus | 41 | 692 | 0.989 | 9875 | URB1 ribosome biogenesis 1 homolog (S. cerevisiae) |
| GO | nucleolus | 41 | 692 | 0.989 | 9904 | RNA binding motif protein 19 |
| GO | nucleoplasm | 12 | 455 | 0.989 | 104 | adenosine deaminase, RNA-specific, B1 (RED1 homolog rat) |
| GO | nucleoplasm | 12 | 455 | 0.989 | 311 | annexin A11 |
| GO | nucleoplasm | 12 | 455 | 0.989 | 3164 | nuclear receptor subfamily 4, group A, member 1 |
| GO | nucleoplasm | 12 | 455 | 0.989 | 3428 | interferon, gamma-inducible protein 16 |
| GO | nucleoplasm | 12 | 455 | 0.989 | 3665 | interferon regulatory factor 7 |
| GO | nucleoplasm | 12 | 455 | 0.989 | 3725 | jun oncogene |
| GO | nucleoplasm | 12 | 455 | 0.989 | 4087 | SMAD family member 2 |
| GO | nucleoplasm | 12 | 455 | 0.989 | 4170 | myeloid cell leukemia sequence 1 (BCL2-related) |
| GO | nucleoplasm | 12 | 455 | 0.989 | 5371 | promyelocytic leukemia |
| GO | nucleoplasm | 12 | 455 | 0.989 | 6604 | SWI/SNF related, matrix associated, actin dependent regulator of chro |
| GO | nucleoplasm | 12 | 455 | 0.989 | 6921 | transcription elongation factor B (SIII), polypeptide 1 (15kDa, elongin C |
| GO | nucleoplasm | 12 | 455 | 0.989 | 9904 | RNA binding motif protein 19 |
| GO | RNA binding | 17 | 562 | 0.989 | 104 | adenosine deaminase, RNA-specific, B1 (RED1 homolog rat) |
| GO | RNA binding | 17 | 562 | 0.989 | 10891 | peroxisome proliferator-activated receptor gamma, coactivator 1 alph |
| GO | RNA binding | 17 | 562 | 0.989 | 11030 | RNA binding protein with multiple splicing |
| GO | RNA binding | 17 | 562 | 0.989 | 127933 | U2AF homology motif (UHM) kinase 1 |
| GO | RNA binding | 17 | 562 | 0.989 | 2521 | fused in sarcoma |
| GO | RNA binding | 17 | 562 | 0.989 | 3192 | heterogeneous nuclear ribonucleoprotein U (scaffold attachment facto |
| GO | RNA binding | 17 | 562 | 0.989 | 48 | aconitase 1, soluble |
| GO | RNA binding | 17 | 562 | 0.989 | 4939 | 2'-5'-oligoadenylate synthetase 2, 69/71kDa |
| GO | RNA binding | 17 | 562 | 0.989 | 55601 | DEAD (Asp-Glu-Ala-Asp) box polypeptide 60 |
| GO | RNA binding | 17 | 562 | 0.989 | 64135 | interferon induced with helicase C domain 1 |
| GO | RNA binding | 17 | 562 | 0.989 | 79132 | DEXH (Asp-Glu-X-His) box polypeptide 58 |
| GO | RNA binding | 17 | 562 | 0.989 | 80315 | cytoplasmic polyadenylation element binding protein 4 |
| GO | RNA binding | 17 | 562 | 0.989 | 85441 | peroxisomal proliferator-activated receptor A interacting complex 285 |
| GO | RNA binding | 17 | 562 | 0.989 | 8635 | ribonuclease T2 |
| GO | RNA binding | 17 | 562 | 0.989 | 8653 | DEAD (Asp-Glu-Ala-Asp) box polypeptide 3, Y-linked |
| GO | RNA binding | 17 | 562 | 0.989 | 8996 | nucleolar protein 3 (apoptosis repressor with CARD domain) |
| GO | RNA binding | 17 | 562 | 0.989 | 9904 | RNA binding motif protein 19 |
| GO | RNA processing | 3 | 80 | 0.989 | 104 | adenosine deaminase, RNA-specific, B1 (RED1 homolog rat) |
| GO | RNA processing | 3 | 80 | 0.989 | 11030 | RNA binding protein with multiple splicing |
| GO | RNA processing | 3 | 80 | 0.989 | 3192 | heterogeneous nuclear ribonucleoprotein U (scaffold attachment facto |

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|---|---|---|---|---|---|---|
| GO | axon guidance | 4 | 71 | 0.989 | 10417 | spondin 2, extracellular matrix protein |
| GO | axon guidance | 4 | 71 | 0.989 | 2737 | GLI family zinc finger 3 |
| GO | axon guidance | 4 | 71 | 0.989 | 627 | brain-derived neurotrophic factor |
| GO | axon guidance | 4 | 71 | 0.989 | 7869 | sema domain, immunoglobulin domain (Ig), short basic domain, secret |
| GO | endoplasmic reticulum lumen | 3 | 68 | 0.989 | 10439 | olfactomedin 1 |
| GO | endoplasmic reticulum lumen | 3 | 68 | 0.989 | 121506 | endoplasmic reticulum protein 27 |
| GO | endoplasmic reticulum lumen | 3 | 68 | 0.989 | 9563 | hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase) |
| GO | biological_process | 36 | 547 | 0.989 | 10447 | family with sequence similarity 3, member C |
| GO | biological_process | 36 | 547 | 0.989 | 11043 | midline 2 |
| GO | biological_process | 36 | 547 | 0.989 | 11273 | ataxin 2-like |
| GO | biological_process | 36 | 547 | 0.989 | 116844 | leucine-rich alpha-2-glycoprotein 1 |
| GO | biological_process | 36 | 547 | 0.989 | 117157 | SH2 domain containing 1B |
| GO | biological_process | 36 | 547 | 0.989 | 125476 | INO80 complex subunit C |
| GO | biological_process | 36 | 547 | 0.989 | 1953 | multiple EGF-like-domains 6 |
| GO | biological_process | 36 | 547 | 0.989 | 202 | absent in melanoma 1 |
| GO | biological_process | 36 | 547 | 0.989 | 2117 | ets variant 3 |
| GO | biological_process | 36 | 547 | 0.989 | 22807 | IKAROS family zinc finger 2 (Helios) |
| GO | biological_process | 36 | 547 | 0.989 | 23348 | dedicator of cytokinesis 9 |
| GO | biological_process | 36 | 547 | 0.989 | 23767 | fibronectin leucine rich transmembrane protein 3 |
| GO | biological_process | 36 | 547 | 0.989 | 25837 | RAB26, member RAS oncogene family |
| GO | biological_process | 36 | 547 | 0.989 | 26053 | autism susceptibility candidate 2 |
| GO | biological_process | 36 | 547 | 0.989 | 266675 | bestrophin 4 |
| GO | biological_process | 36 | 547 | 0.989 | 26998 | fetuin B |
| GO | biological_process | 36 | 547 | 0.989 | 27202 | G protein-coupled receptor 77 |
| GO | biological_process | 36 | 547 | 0.989 | 3268 | ArfGAP with FG repeats 2 |
| GO | biological_process | 36 | 547 | 0.989 | 3437 | interferon-induced protein with tetratricopeptide repeats 3 |
| GO | biological_process | 36 | 547 | 0.989 | 345275 | hydroxysteroid (17-beta) dehydrogenase 13 |
| GO | biological_process | 36 | 547 | 0.989 | 376940 | zinc finger CCCH-type containing 6 |
| GO | biological_process | 36 | 547 | 0.989 | 4007 | prickle homolog 3 (Drosophila) |
| GO | biological_process | 36 | 547 | 0.989 | 4038 | low density lipoprotein receptor-related protein 4 |
| GO | biological_process | 36 | 547 | 0.989 | 4246 | secretoglobin, family 2A, member 1 |
| GO | biological_process | 36 | 547 | 0.989 | 4817 | nitrilase 1 |
| GO | biological_process | 36 | 547 | 0.989 | 5239 | phosphoglucomutase 5 |
| GO | biological_process | 36 | 547 | 0.989 | 5304 | prolactin-induced protein |
| GO | biological_process | 36 | 547 | 0.989 | 54436 | SH3 domain and tetratricopeptide repeats 1 |
| GO | biological_process | 36 | 547 | 0.989 | 54664 | transmembrane protein 106B |

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|---|---|---|---|---|---|---|
| GO | biological_process | 36 | 547 | 0.989 | 57464 | family with sequence similarity 40, member B |
| GO | biological_process | 36 | 547 | 0.989 | 57535 | KIAA1324 |
| GO | biological_process | 36 | 547 | 0.989 | 8013 | nuclear receptor subfamily 4, group A, member 3 |
| GO | biological_process | 36 | 547 | 0.989 | 81603 | tripartite motif-containing 8 |
| GO | biological_process | 36 | 547 | 0.989 | 8418 | cytidine monophosphate-N-acetylneuraminic acid hydroxylase (CMP-N |
| GO | biological_process | 36 | 547 | 0.989 | 9324 | high mobility group nucleosomal binding domain 3 |
| GO | biological_process | 36 | 547 | 0.989 | 9875 | URB1 ribosome biogenesis 1 homolog (S. cerevisiae) |
| GO | sodium ion transport | 7 | 129 | 0.989 | 10568 | solute carrier family 34 (sodium phosphate), member 2 |
| GO | sodium ion transport | 7 | 129 | 0.989 | 259232 | sodium leak channel, non-selective |
| GO | sodium ion transport | 7 | 129 | 0.989 | 6330 | sodium channel, voltage-gated, type IV, beta |
| GO | sodium ion transport | 7 | 129 | 0.989 | 6446 | serum/glucocorticoid regulated kinase 1 |
| GO | sodium ion transport | 7 | 129 | 0.989 | 6535 | solute carrier family 6 (neurotransmitter transporter, creatine), membe |
| GO | sodium ion transport | 7 | 129 | 0.989 | 8671 | solute carrier family 4, sodium bicarbonate cotransporter, member 4 |
| GO | sodium ion transport | 7 | 129 | 0.989 | 9962 | solute carrier family 23 (nucleobase transporters), member 2 |
| GO | cell cycle | 19 | 458 | 0.989 | 10628 | thioredoxin interacting protein |
| GO | cell cycle | 19 | 458 | 0.989 | 11200 | CHK2 checkpoint homolog (S. pombe) |
| GO | cell cycle | 19 | 458 | 0.989 | 150094 | salt-inducible kinase 1 |
| GO | cell cycle | 19 | 458 | 0.989 | 1540 | cylindromatosis (turban tumor syndrome) |
| GO | cell cycle | 19 | 458 | 0.989 | 1843 | dual specificity phosphatase 1 |
| GO | cell cycle | 19 | 458 | 0.989 | 2033 | E1A binding protein p300 |
| GO | cell cycle | 19 | 458 | 0.989 | 311 | annexin A11 |
| GO | cell cycle | 19 | 458 | 0.989 | 3993 | lethal giant larvae homolog 2 (Drosophila) |
| GO | cell cycle | 19 | 458 | 0.989 | 415116 | pim-3 oncogene |
| GO | cell cycle | 19 | 458 | 0.989 | 50486 | G0/G1switch 2 |
| GO | cell cycle | 19 | 458 | 0.989 | 5218 | cyclin-dependent kinase 14 |
| GO | cell cycle | 19 | 458 | 0.989 | 55909 | bridging integrator 3 |
| GO | cell cycle | 19 | 458 | 0.989 | 56288 | par-3 partitioning defective 3 homolog (C. elegans) |
| GO | cell cycle | 19 | 458 | 0.989 | 5655 | kallikrein-related peptidase 10 |
| GO | cell cycle | 19 | 458 | 0.989 | 57132 | chromatin modifying protein 1B |
| GO | cell cycle | 19 | 458 | 0.989 | 60370 | arginine vasopressin-induced 1 |
| GO | cell cycle | 19 | 458 | 0.989 | 83937 | Ras association (RalGDS/AF-6) domain family member 4 |
| GO | cell cycle | 19 | 458 | 0.989 | 8556 | CDC14 cell division cycle 14 homolog A (S. cerevisiae) |
| GO | cell cycle | 19 | 458 | 0.989 | 8900 | cyclin A1 |
| GO | female gamete generation | 1 | 15 | 0.989 | 10766 | transducer of ERBB2, 2 |
| GO | regulation of gene expression | 2 | 32 | 0.989 | 10766 | transducer of ERBB2, 2 |
| GO | regulation of gene expression | 2 | 32 | 0.989 | 5460 | POU class 5 homeobox 1 |

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|---|---|---|---|---|---|---|
| GO | nucleotide binding | 110 | 1859 | 0.989 | 10769 | polo-like kinase 2 (Drosophila) |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 1080 | cystic fibrosis transmembrane conductance regulator (ATP-binding cass |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 10891 | peroxisome proliferator-activated receptor gamma, coactivator 1 alpha |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 11030 | RNA binding protein with multiple splicing |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 112 | adenylate cyclase 6 |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 11200 | CHK2 checkpoint homolog (S. pombe) |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 11213 | interleukin-1 receptor-associated kinase 3 |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 1152 | creatine kinase, brain |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 115273 | RAB42, member RAS oncogene family |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 127933 | U2AF homology motif (UHM) kinase 1 |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 130399 | activin A receptor, type IC |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 134111 | ubiquitin-conjugating enzyme E2Q family-like 1 |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 1373 | carbamoyl-phosphate synthetase 1, mitochondrial |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 140901 | serine/threonine kinase 35 |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 147945 | NLR family, pyrin domain containing 4 |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 148229 | ATPase, class I, type 8B, member 3 |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 150094 | salt-inducible kinase 1 |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 1612 | death-associated protein kinase 1 |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 1785 | dynamin 2 |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 1915 | eukaryotic translation elongation factor 1 alpha 1 |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 1969 | EPH receptor A2 |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 1983 | eukaryotic translation initiation factor 5 |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 2044 | EPH receptor A5 |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 205 | adenylate kinase 3-like 1 |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 2066 | v-erb-a erythroblastic leukemia viral oncogene homolog 4 (avian) |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 2182 | acyl-CoA synthetase long-chain family member 4 |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 2263 | fibroblast growth factor receptor 2 |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 23043 | TRAF2 and NCK interacting kinase |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 23095 | kinesin family member 1B |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 23303 | kinesin family member 13B |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 23387 | SIK family kinase 3 |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 23604 | death-associated protein kinase 2 |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 23682 | RAB38, member RAS oncogene family |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 25837 | RAB26, member RAS oncogene family |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 26157 | GTPase, IMAP family member 2 |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 2633 | guanylate binding protein 1, interferon-inducible, 67kDa |

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|---|---|---|---|---|---|---|
| GO | nucleotide binding | 110 | 1859 | 0.989 | 2634 | guanylate binding protein 2, interferon-inducible |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 2635 | guanylate binding protein 3 |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 2752 | glutamate-ammonia ligase (glutamine synthetase) |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 2769 | guanine nucleotide binding protein (G protein), alpha 15 (Gq class) |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 284716 | ribosomal modification protein rimK-like family member A |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 28951 | tribbles homolog 2 (Drosophila) |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 28996 | homeodomain interacting protein kinase 2 |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 3192 | heterogeneous nuclear ribonucleoprotein U (scaffold attachment facto |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 3306 | heat shock 70kDa protein 2 |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 343450 | potassium channel, subfamily T, member 2 |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 3643 | insulin receptor |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 368 | ATP-binding cassette, sub-family C (CFTR/MRP), member 6 |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 375449 | microtubule associated serine/threonine kinase family member 4 |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 379 | ADP-ribosylation factor-like 4D |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 3815 | v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 3845 | v-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 387496 | RAS-like, family 11, member A |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 392509 | ADP-ribosylation factor-like 13A |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 415116 | pim-3 oncogene |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 4293 | mitogen-activated protein kinase kinase kinase 9 |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 4486 | macrophage stimulating 1 receptor (c-met-related tyrosine kinase) |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 4599 | myxovirus (influenza virus) resistance 1, interferon-inducible protein p |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 4600 | myxovirus (influenza virus) resistance 2 (mouse) |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 4638 | myosin light chain kinase |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 4645 | myosin VB |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 4915 | neurotrophic tyrosine kinase, receptor, type 2 |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 493 | ATPase, Ca++ transporting, plasma membrane 4 |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 4939 | 2'-5'-oligoadenylate synthetase 2, 69/71kDa |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 498 | ATP synthase, H+ transporting, mitochondrial F1 complex, alpha subun |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 5063 | p21 protein (Cdc42/Rac)-activated kinase 3 |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 51168 | myosin XVA |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 51285 | RAS-like, family 12 |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 5129 | cyclin-dependent kinase 18 |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 51655 | RAS, dexamethasone-induced 1 |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 51703 | acyl-CoA synthetase long-chain family member 5 |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 5218 | cyclin-dependent kinase 14 |

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| GO | nucleotide binding | 110 | 1859 | 0.989 | 5243 | ATP-binding cassette, sub-family B (MDR/TAP), member 1 |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 5244 | ATP-binding cassette, sub-family B (MDR/TAP), member 4 |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 54769 | DIRAS family, GTP-binding RAS-like 2 |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 55068 | ecto-NOX disulfide-thiol exchanger 1 |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 55601 | DEAD (Asp-Glu-Ala-Asp) box polypeptide 60 |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 5577 | protein kinase, cAMP-dependent, regulatory, type II, beta |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 5608 | mitogen-activated protein kinase kinase 6 |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 57118 | calcium/calmodulin-dependent protein kinase ID |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 57494 | ribosomal modification protein rimK-like family member B |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 57799 | RAB40C, member RAS oncogene family |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 5873 | RAB27A, member RAS oncogene family |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 64127 | nucleotide-binding oligomerization domain containing 2 |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 64135 | interferon induced with helicase C domain 1 |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 6446 | serum/glucocorticoid regulated kinase 1 |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 6850 | spleen tyrosine kinase |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 774 | calcium channel, voltage-dependent, N type, alpha 1B subunit |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 79132 | DEXH (Asp-Glu-X-His) box polypeptide 58 |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 79611 | acyl-CoA synthetase short-chain family member 3 |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 79895 | ATPase, class I, type 8B, member 4 |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 80315 | cytoplasmic polyadenylation element binding protein 4 |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 81788 | NUAK family, SNF1-like kinase, 2 |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 83858 | ATPase family, AAA domain containing 3B |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 84033 | obscurin, cytoskeletal calmodulin and titin-interacting RhoGEF |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 85004 | RAS-like, estrogen-regulated, growth inhibitor |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 8527 | diacylglycerol kinase, delta 130kDa |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 85441 | peroxisomal proliferator-activated receptor A interacting complex 285 |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 8653 | DEAD (Asp-Glu-Ala-Asp) box polypeptide 3, Y-linked |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 9060 | 3'-phosphoadenosine 5'-phosphosulfate synthase 2 |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 9064 | mitogen-activated protein kinase kinase kinase 6 |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 91 | activin A receptor, type IB |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 91461 | protein kinase domain containing, cytoplasmic homolog (mouse) |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 91607 | schlafen family member 11 |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 9263 | serine/threonine kinase 17a |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 94 | activin A receptor type II-like 1 |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 9567 | GTP binding protein 1 |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 9619 | ATP-binding cassette, sub-family G (WHITE), member 1 |

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| GO | nucleotide binding | 110 | 1859 | 0.989 | 9904 | RNA binding motif protein 19 |
| GO | nucleotide binding | 110 | 1859 | 0.989 | 9914 | ATPase, Ca++ transporting, type 2C, member 2 |
| GO | ATPase activity | 8 | 128 | 0.989 | 1080 | cystic fibrosis transmembrane conductance regulator (ATP-binding cas |
| GO | ATPase activity | 8 | 128 | 0.989 | 148229 | ATPase, class I, type 8B, member 3 |
| GO | ATPase activity | 8 | 128 | 0.989 | 23095 | kinesin family member 1B |
| GO | ATPase activity | 8 | 128 | 0.989 | 368 | ATP-binding cassette, sub-family C (CFTR/MRP), member 6 |
| GO | ATPase activity | 8 | 128 | 0.989 | 498 | ATP synthase, H+ transporting, mitochondrial F1 complex, alpha subun |
| GO | ATPase activity | 8 | 128 | 0.989 | 5243 | ATP-binding cassette, sub-family B (MDR/TAP), member 1 |
| GO | ATPase activity | 8 | 128 | 0.989 | 5244 | ATP-binding cassette, sub-family B (MDR/TAP), member 4 |
| GO | ATPase activity | 8 | 128 | 0.989 | 9619 | ATP-binding cassette, sub-family G (WHITE), member 1 |
| GO | cholesterol biosynthetic process | 1 | 25 | 0.989 | 1080 | cystic fibrosis transmembrane conductance regulator (ATP-binding cas |
| GO | cytoplasmic vesicle membrane | 4 | 61 | 0.989 | 1080 | cystic fibrosis transmembrane conductance regulator (ATP-binding cas |
| GO | cytoplasmic vesicle membrane | 4 | 61 | 0.989 | 23095 | kinesin family member 1B |
| GO | cytoplasmic vesicle membrane | 4 | 61 | 0.989 | 3601 | interleukin 15 receptor, alpha |
| GO | cytoplasmic vesicle membrane | 4 | 61 | 0.989 | 79971 | wntless homolog (Drosophila) |
| GO | early endosome membrane | 1 | 37 | 0.989 | 1080 | cystic fibrosis transmembrane conductance regulator (ATP-binding cas |
| GO | enzyme binding | 7 | 114 | 0.989 | 1080 | cystic fibrosis transmembrane conductance regulator (ATP-binding cas |
| GO | enzyme binding | 7 | 114 | 0.989 | 10811 | NADPH oxidase activator 1 |
| GO | enzyme binding | 7 | 114 | 0.989 | 1571 | cytochrome P450, family 2, subfamily E, polypeptide 1 |
| GO | enzyme binding | 7 | 114 | 0.989 | 1785 | dynamin 2 |
| GO | enzyme binding | 7 | 114 | 0.989 | 3570 | interleukin 6 receptor |
| GO | enzyme binding | 7 | 114 | 0.989 | 64127 | nucleotide-binding oligomerization domain containing 2 |
| GO | enzyme binding | 7 | 114 | 0.989 | 79444 | baculoviral IAP repeat-containing 7 |
| GO | androgen receptor binding | 1 | 29 | 0.989 | 10891 | peroxisome proliferator-activated receptor gamma, coactivator 1 alpha |
| GO | androgen receptor signaling pathway | 1 | 39 | 0.989 | 10891 | peroxisome proliferator-activated receptor gamma, coactivator 1 alpha |
| GO | ligand-dependent nuclear receptor tr | 1 | 31 | 0.989 | 10891 | peroxisome proliferator-activated receptor gamma, coactivator 1 alpha |
| GO | mitochondrion organization | 1 | 25 | 0.989 | 10891 | peroxisome proliferator-activated receptor gamma, coactivator 1 alpha |
| GO | RNA polymerase II transcription med | 1 | 28 | 0.989 | 10891 | peroxisome proliferator-activated receptor gamma, coactivator 1 alpha |
| GO | transcription initiation from RNA pol | 1 | 64 | 0.989 | 10891 | peroxisome proliferator-activated receptor gamma, coactivator 1 alpha |
| GO | DNA repair | 2 | 182 | 0.989 | 10912 | growth arrest and DNA-damage-inducible, gamma |
| GO | DNA repair | 2 | 182 | 0.989 | 26270 | F-box protein 6 |
| GO | molecular_function | 27 | 577 | 0.989 | 11043 | midline 2 |
| GO | molecular_function | 27 | 577 | 0.989 | 11273 | ataxin 2-like |
| GO | molecular_function | 27 | 577 | 0.989 | 1154 | cytokine inducible SH2-containing protein |
| GO | molecular_function | 27 | 577 | 0.989 | 116844 | leucine-rich alpha-2-glycoprotein 1 |
| GO | molecular_function | 27 | 577 | 0.989 | 117157 | SH2 domain containing 1B |

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|---|---|---|---|---|---|---|
| GO | molecular_function | 27 | 577 | 0.989 | 125476 | INO80 complex subunit C |
| GO | molecular_function | 27 | 577 | 0.989 | 134218 | DnaJ (Hsp40) homolog, subfamily C, member 21 |
| GO | molecular_function | 27 | 577 | 0.989 | 202 | absent in melanoma 1 |
| GO | molecular_function | 27 | 577 | 0.989 | 2117 | ets variant 3 |
| GO | molecular_function | 27 | 577 | 0.989 | 22807 | IKAROS family zinc finger 2 (Helios) |
| GO | molecular_function | 27 | 577 | 0.989 | 26053 | autism susceptibility candidate 2 |
| GO | molecular_function | 27 | 577 | 0.989 | 266675 | bestrophin 4 |
| GO | molecular_function | 27 | 577 | 0.989 | 26998 | fetuin B |
| GO | molecular_function | 27 | 577 | 0.989 | 3268 | ArfGAP with FG repeats 2 |
| GO | molecular_function | 27 | 577 | 0.989 | 3429 | interferon, alpha-inducible protein 27 |
| GO | molecular_function | 27 | 577 | 0.989 | 3437 | interferon-induced protein with tetratricopeptide repeats 3 |
| GO | molecular_function | 27 | 577 | 0.989 | 345275 | hydroxysteroid (17-beta) dehydrogenase 13 |
| GO | molecular_function | 27 | 577 | 0.989 | 345895 | radial spoke head 4 homolog A (Chlamydomonas) |
| GO | molecular_function | 27 | 577 | 0.989 | 376940 | zinc finger CCCH-type containing 6 |
| GO | molecular_function | 27 | 577 | 0.989 | 50486 | G0/G1switch 2 |
| GO | molecular_function | 27 | 577 | 0.989 | 5318 | plakophilin 2 |
| GO | molecular_function | 27 | 577 | 0.989 | 54664 | transmembrane protein 106B |
| GO | molecular_function | 27 | 577 | 0.989 | 57464 | family with sequence similarity 40, member B |
| GO | molecular_function | 27 | 577 | 0.989 | 57535 | KIAA1324 |
| GO | molecular_function | 27 | 577 | 0.989 | 64651 | cysteine-serine-rich nuclear protein 1 |
| GO | molecular_function | 27 | 577 | 0.989 | 7170 | tropomyosin 3 |
| GO | molecular_function | 27 | 577 | 0.989 | 9875 | URB1 ribosome biogenesis 1 homolog (S. cerevisiae) |
| GO | identical protein binding | 22 | 338 | 0.989 | 11156 | protein tyrosine phosphatase type IVA, member 3 |
| GO | identical protein binding | 22 | 338 | 0.989 | 11213 | interleukin-1 receptor-associated kinase 3 |
| GO | identical protein binding | 22 | 338 | 0.989 | 1364 | claudin 4 |
| GO | identical protein binding | 22 | 338 | 0.989 | 154810 | angiomotin like 1 |
| GO | identical protein binding | 22 | 338 | 0.989 | 196383 | Rab interacting lysosomal protein-like 2 |
| GO | identical protein binding | 22 | 338 | 0.989 | 23048 | formin binding protein 1 |
| GO | identical protein binding | 22 | 338 | 0.989 | 23604 | death-associated protein kinase 2 |
| GO | identical protein binding | 22 | 338 | 0.989 | 255738 | proprotein convertase subtilisin/kexin type 9 |
| GO | identical protein binding | 22 | 338 | 0.989 | 259173 | ALS2 C-terminal like |
| GO | identical protein binding | 22 | 338 | 0.989 | 2752 | glutamate-ammonia ligase (glutamine synthetase) |
| GO | identical protein binding | 22 | 338 | 0.989 | 285704 | RGM domain family, member B |
| GO | identical protein binding | 22 | 338 | 0.989 | 2947 | glutathione S-transferase mu 3 (brain) |
| GO | identical protein binding | 22 | 338 | 0.989 | 4254 | KIT ligand |
| GO | identical protein binding | 22 | 338 | 0.989 | 467 | activating transcription factor 3 |

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| GO | identical protein binding | 22 | 338 | 0.989 | 4792 | nuclear factor of kappa light polypeptide gene enhancer in B-cells inhib |
| GO | identical protein binding | 22 | 338 | 0.989 | 60485 | salvador homolog 1 (Drosophila) |
| GO | identical protein binding | 22 | 338 | 0.989 | 6622 | synuclein, alpha (non A4 component of amyloid precursor) |
| GO | identical protein binding | 22 | 338 | 0.989 | 6812 | syntaxin binding protein 1 |
| GO | identical protein binding | 22 | 338 | 0.989 | 6857 | synaptotagmin I |
| GO | identical protein binding | 22 | 338 | 0.989 | 83593 | Ras association (RalGDS/AF-6) domain family member 5 |
| GO | identical protein binding | 22 | 338 | 0.989 | 8996 | nucleolar protein 3 (apoptosis repressor with CARD domain) |
| GO | identical protein binding | 22 | 338 | 0.989 | 9071 | claudin 10 |
| GO | inhibition of adenylate cyclase activit | 2 | 30 | 0.989 | 112 | adenylate cyclase 6 |
| GO | inhibition of adenylate cyclase activit | 2 | 30 | 0.989 | 4886 | neuropeptide Y receptor Y1 |
| GO | chromosome, telomeric region | 1 | 23 | 0.989 | 11200 | CHK2 checkpoint homolog (S. pombe) |
| GO | response to DNA damage stimulus | 3 | 78 | 0.989 | 11200 | CHK2 checkpoint homolog (S. pombe) |
| GO | response to DNA damage stimulus | 3 | 78 | 0.989 | 151636 | deltex 3-like (Drosophila) |
| GO | response to DNA damage stimulus | 3 | 78 | 0.989 | 604 | B-cell CLL/lymphoma 6 |
| GO | neuron projection morphogenesis | 1 | 17 | 0.989 | 11202 | kallikrein-related peptidase 8 |
| GO | cell communication | 5 | 90 | 0.989 | 112574 | sorting nexin 18 |
| GO | cell communication | 5 | 90 | 0.989 | 2707 | gap junction protein, beta 3, 31kDa |
| GO | cell communication | 5 | 90 | 0.989 | 3691 | integrin, beta 4 |
| GO | cell communication | 5 | 90 | 0.989 | 54877 | zinc finger, CCHC domain containing 2 |
| GO | cell communication | 5 | 90 | 0.989 | 84059 | G protein-coupled receptor 98 |
| GO | phosphoinositide binding | 3 | 56 | 0.989 | 112574 | sorting nexin 18 |
| GO | phosphoinositide binding | 3 | 56 | 0.989 | 3709 | inositol 1,4,5-triphosphate receptor, type 2 |
| GO | phosphoinositide binding | 3 | 56 | 0.989 | 54877 | zinc finger, CCHC domain containing 2 |
| GO | cellular calcium ion homeostasis | 4 | 60 | 0.989 | 1139 | cholinergic receptor, nicotinic, alpha 7 |
| GO | cellular calcium ion homeostasis | 4 | 60 | 0.989 | 1813 | dopamine receptor D2 |
| GO | cellular calcium ion homeostasis | 4 | 60 | 0.989 | 1815 | dopamine receptor D4 |
| GO | cellular calcium ion homeostasis | 4 | 60 | 0.989 | 57620 | stromal interaction molecule 2 |
| GO | extracellular ligand-gated ion channe | 3 | 46 | 0.989 | 1139 | cholinergic receptor, nicotinic, alpha 7 |
| GO | extracellular ligand-gated ion channe | 3 | 46 | 0.989 | 2564 | gamma-aminobutyric acid (GABA) A receptor, epsilon |
| GO | extracellular ligand-gated ion channe | 3 | 46 | 0.989 | 8973 | cholinergic receptor, nicotinic, alpha 6 |
| GO | postsynaptic membrane | 7 | 149 | 0.989 | 1139 | cholinergic receptor, nicotinic, alpha 7 |
| GO | postsynaptic membrane | 7 | 149 | 0.989 | 1785 | dynamin 2 |
| GO | postsynaptic membrane | 7 | 149 | 0.989 | 2564 | gamma-aminobutyric acid (GABA) A receptor, epsilon |
| GO | postsynaptic membrane | 7 | 149 | 0.989 | 399694 | SHC (Src homology 2 domain containing) family, member 4 |
| GO | postsynaptic membrane | 7 | 149 | 0.989 | 8082 | sarcospan (Kras oncogene-associated gene) |
| GO | postsynaptic membrane | 7 | 149 | 0.989 | 8973 | cholinergic receptor, nicotinic, alpha 6 |

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|---|---|---|---|---|---|---|
| GO | postsynaptic membrane | 7 | 149 | 0.989 | 9892 | synaptosomal-associated protein, 91kDa homolog (mouse) |
| GO | synapse | 16 | 255 | 0.989 | 1139 | cholinergic receptor, nicotinic, alpha 7 |
| GO | synapse | 16 | 255 | 0.989 | 143425 | synaptotagmin IX |
| GO | synapse | 16 | 255 | 0.989 | 1785 | dynamin 2 |
| GO | synapse | 16 | 255 | 0.989 | 23208 | synaptotagmin XI |
| GO | synapse | 16 | 255 | 0.989 | 2564 | gamma-aminobutyric acid (GABA) A receptor, epsilon |
| GO | synapse | 16 | 255 | 0.989 | 2571 | glutamate decarboxylase 1 (brain, 67kDa) |
| GO | synapse | 16 | 255 | 0.989 | 3643 | insulin receptor |
| GO | synapse | 16 | 255 | 0.989 | 375790 | agrin |
| GO | synapse | 16 | 255 | 0.989 | 399694 | SHC (Src homology 2 domain containing) family, member 4 |
| GO | synapse | 16 | 255 | 0.989 | 5025 | purinergic receptor P2X, ligand-gated ion channel, 4 |
| GO | synapse | 16 | 255 | 0.989 | 5327 | plasminogen activator, tissue |
| GO | synapse | 16 | 255 | 0.989 | 55740 | enabled homolog (Drosophila) |
| GO | synapse | 16 | 255 | 0.989 | 6857 | synaptotagmin I |
| GO | synapse | 16 | 255 | 0.989 | 729993 | shisa homolog 9 (Xenopus laevis) |
| GO | synapse | 16 | 255 | 0.989 | 8082 | sarcospan (Kras oncogene-associated gene) |
| GO | synapse | 16 | 255 | 0.989 | 8973 | cholinergic receptor, nicotinic, alpha 6 |
| GO | G-protein coupled receptor protein s | 43 | 725 | 0.989 | 115330 | G protein-coupled receptor 146 |
| GO | G-protein coupled receptor protein s | 43 | 725 | 0.989 | 121130 | olfactory receptor, family 10, subfamily P, member 1 |
| GO | G-protein coupled receptor protein s | 43 | 725 | 0.989 | 143503 | olfactory receptor, family 51, subfamily E, member 1 |
| GO | G-protein coupled receptor protein s | 43 | 725 | 0.989 | 154 | adrenergic, beta-2-, receptor, surface |
| GO | G-protein coupled receptor protein s | 43 | 725 | 0.989 | 1813 | dopamine receptor D2 |
| GO | G-protein coupled receptor protein s | 43 | 725 | 0.989 | 183 | angiotensinogen (serpin peptidase inhibitor, clade A, member 8) |
| GO | G-protein coupled receptor protein s | 43 | 725 | 0.989 | 1901 | sphingosine-1-phosphate receptor 1 |
| GO | G-protein coupled receptor protein s | 43 | 725 | 0.989 | 1902 | lysophosphatidic acid receptor 1 |
| GO | G-protein coupled receptor protein s | 43 | 725 | 0.989 | 1906 | endothelin 1 |
| GO | G-protein coupled receptor protein s | 43 | 725 | 0.989 | 2015 | egf-like module containing, mucin-like, hormone receptor-like 1 |
| GO | G-protein coupled receptor protein s | 43 | 725 | 0.989 | 222545 | G protein-coupled receptor, family C, group 6, member A |
| GO | G-protein coupled receptor protein s | 43 | 725 | 0.989 | 22859 | latrophilin 1 |
| GO | G-protein coupled receptor protein s | 43 | 725 | 0.989 | 23266 | latrophilin 2 |
| GO | G-protein coupled receptor protein s | 43 | 725 | 0.989 | 23284 | latrophilin 3 |
| GO | G-protein coupled receptor protein s | 43 | 725 | 0.989 | 23365 | Rho guanine nucleotide exchange factor (GEF) 12 |
| GO | G-protein coupled receptor protein s | 43 | 725 | 0.989 | 2642 | glucagon receptor |
| GO | G-protein coupled receptor protein s | 43 | 725 | 0.989 | 27202 | G protein-coupled receptor 77 |
| GO | G-protein coupled receptor protein s | 43 | 725 | 0.989 | 283383 | G protein-coupled receptor 133 |
| GO | G-protein coupled receptor protein s | 43 | 725 | 0.989 | 2861 | G protein-coupled receptor 37 (endothelin receptor type B-like) |

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|---|---|---|---|---|---|---|
| GO | G-protein coupled receptor protein s | 43 | 725 | 0.989 | 2865 | free fatty acid receptor 3 |
| GO | G-protein coupled receptor protein s | 43 | 725 | 0.989 | 2867 | free fatty acid receptor 2 |
| GO | G-protein coupled receptor protein s | 43 | 725 | 0.989 | 2911 | glutamate receptor, metabotropic 1 |
| GO | G-protein coupled receptor protein s | 43 | 725 | 0.989 | 338557 | G protein-coupled receptor 120 |
| GO | G-protein coupled receptor protein s | 43 | 725 | 0.989 | 353345 | G protein-coupled receptor 141 |
| GO | G-protein coupled receptor protein s | 43 | 725 | 0.989 | 3643 | insulin receptor |
| GO | G-protein coupled receptor protein s | 43 | 725 | 0.989 | 387509 | G protein-coupled receptor 153 |
| GO | G-protein coupled receptor protein s | 43 | 725 | 0.989 | 392392 | olfactory receptor, family 1, subfamily K, member 1 |
| GO | G-protein coupled receptor protein s | 43 | 725 | 0.989 | 4889 | neuropeptide Y receptor Y5 |
| GO | G-protein coupled receptor protein s | 43 | 725 | 0.989 | 5132 | phosducin |
| GO | G-protein coupled receptor protein s | 43 | 725 | 0.989 | 51655 | RAS, dexamethasone-induced 1 |
| GO | G-protein coupled receptor protein s | 43 | 725 | 0.989 | 5724 | platelet-activating factor receptor |
| GO | G-protein coupled receptor protein s | 43 | 725 | 0.989 | 5732 | prostaglandin E receptor 2 (subtype EP2), 53kDa |
| GO | G-protein coupled receptor protein s | 43 | 725 | 0.989 | 5734 | prostaglandin E receptor 4 (subtype EP4) |
| GO | G-protein coupled receptor protein s | 43 | 725 | 0.989 | 5737 | prostaglandin F receptor (FP) |
| GO | G-protein coupled receptor protein s | 43 | 725 | 0.989 | 57512 | G protein-coupled receptor 158 |
| GO | G-protein coupled receptor protein s | 43 | 725 | 0.989 | 6750 | somatostatin |
| GO | G-protein coupled receptor protein s | 43 | 725 | 0.989 | 718 | complement component 3 |
| GO | G-protein coupled receptor protein s | 43 | 725 | 0.989 | 7852 | chemokine (C-X-C motif) receptor 4 |
| GO | G-protein coupled receptor protein s | 43 | 725 | 0.989 | 799 | calcitonin receptor |
| GO | G-protein coupled receptor protein s | 43 | 725 | 0.989 | 81285 | olfactory receptor, family 51, subfamily E, member 2 |
| GO | G-protein coupled receptor protein s | 43 | 725 | 0.989 | 81470 | olfactory receptor, family 2, subfamily G, member 2 |
| GO | G-protein coupled receptor protein s | 43 | 725 | 0.989 | 84059 | G protein-coupled receptor 98 |
| GO | G-protein coupled receptor protein s | 43 | 725 | 0.989 | 8938 | BAI1-associated protein 3 |
| GO | electron carrier activity | 10 | 149 | 0.989 | 1193 | chloride intracellular channel 2 |
| GO | electron carrier activity | 10 | 149 | 0.989 | 1558 | cytochrome P450, family 2, subfamily C, polypeptide 8 |
| GO | electron carrier activity | 10 | 149 | 0.989 | 1559 | cytochrome P450, family 2, subfamily C, polypeptide 9 |
| GO | electron carrier activity | 10 | 149 | 0.989 | 1571 | cytochrome P450, family 2, subfamily E, polypeptide 1 |
| GO | electron carrier activity | 10 | 149 | 0.989 | 1577 | cytochrome P450, family 3, subfamily A, polypeptide 5 |
| GO | electron carrier activity | 10 | 149 | 0.989 | 27035 | NADPH oxidase 1 |
| GO | electron carrier activity | 10 | 149 | 0.989 | 316 | aldehyde oxidase 1 |
| GO | electron carrier activity | 10 | 149 | 0.989 | 4129 | monoamine oxidase B |
| GO | electron carrier activity | 10 | 149 | 0.989 | 6916 | thromboxane A synthase 1 (platelet) |
| GO | electron carrier activity | 10 | 149 | 0.989 | 79689 | STEAP family member 4 |
| GO | protein disulfide oxidoreductase acti | 1 | 15 | 0.989 | 1193 | chloride intracellular channel 2 |
| GO | olfactory receptor activity | 5 | 290 | 0.989 | 121130 | olfactory receptor, family 10, subfamily P, member 1 |

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|---|---|---|---|---|---|---|
| GO | olfactory receptor activity | 5 | 290 | 0.989 | 143503 | olfactory receptor, family 51, subfamily E, member 1 |
| GO | olfactory receptor activity | 5 | 290 | 0.989 | 392392 | olfactory receptor, family 1, subfamily K, member 1 |
| GO | olfactory receptor activity | 5 | 290 | 0.989 | 81285 | olfactory receptor, family 51, subfamily E, member 2 |
| GO | olfactory receptor activity | 5 | 290 | 0.989 | 81470 | olfactory receptor, family 2, subfamily G, member 2 |
| GO | response to stimulus | 17 | 477 | 0.989 | 121130 | olfactory receptor, family 10, subfamily P, member 1 |
| GO | response to stimulus | 17 | 477 | 0.989 | 143503 | olfactory receptor, family 51, subfamily E, member 1 |
| GO | response to stimulus | 17 | 477 | 0.989 | 23418 | crumbs homolog 1 (Drosophila) |
| GO | response to stimulus | 17 | 477 | 0.989 | 368 | ATP-binding cassette, sub-family C (CFTR/MRP), member 6 |
| GO | response to stimulus | 17 | 477 | 0.989 | 392392 | olfactory receptor, family 1, subfamily K, member 1 |
| GO | response to stimulus | 17 | 477 | 0.989 | 5132 | phosducin |
| GO | response to stimulus | 17 | 477 | 0.989 | 5158 | phosphodiesterase 6B, cGMP-specific, rod, beta |
| GO | response to stimulus | 17 | 477 | 0.989 | 5950 | retinol binding protein 4, plasma |
| GO | response to stimulus | 17 | 477 | 0.989 | 6096 | RAR-related orphan receptor B |
| GO | response to stimulus | 17 | 477 | 0.989 | 6101 | retinitis pigmentosa 1 (autosomal dominant) |
| GO | response to stimulus | 17 | 477 | 0.989 | 81285 | olfactory receptor, family 51, subfamily E, member 2 |
| GO | response to stimulus | 17 | 477 | 0.989 | 81470 | olfactory receptor, family 2, subfamily G, member 2 |
| GO | response to stimulus | 17 | 477 | 0.989 | 83394 | PITPNM family member 3 |
| GO | response to stimulus | 17 | 477 | 0.989 | 83872 | hemicentin 1 |
| GO | response to stimulus | 17 | 477 | 0.989 | 84059 | G protein-coupled receptor 98 |
| GO | response to stimulus | 17 | 477 | 0.989 | 8842 | prominin 1 |
| GO | response to stimulus | 17 | 477 | 0.989 | 93589 | calcium channel, voltage-dependent, alpha 2/delta subunit 4 |
| GO | sensory perception of smell | 6 | 305 | 0.989 | 121130 | olfactory receptor, family 10, subfamily P, member 1 |
| GO | sensory perception of smell | 6 | 305 | 0.989 | 143503 | olfactory receptor, family 51, subfamily E, member 1 |
| GO | sensory perception of smell | 6 | 305 | 0.989 | 1813 | dopamine receptor D2 |
| GO | sensory perception of smell | 6 | 305 | 0.989 | 392392 | olfactory receptor, family 1, subfamily K, member 1 |
| GO | sensory perception of smell | 6 | 305 | 0.989 | 81285 | olfactory receptor, family 51, subfamily E, member 2 |
| GO | sensory perception of smell | 6 | 305 | 0.989 | 81470 | olfactory receptor, family 2, subfamily G, member 2 |
| GO | mitochondrial inner membrane | 10 | 231 | 0.989 | 123096 | solute carrier family 25, member 29 |
| GO | mitochondrial inner membrane | 10 | 231 | 0.989 | 1373 | carbamoyl-phosphate synthetase 1, mitochondrial |
| GO | mitochondrial inner membrane | 10 | 231 | 0.989 | 137994 | leucine zipper-EF-hand containing transmembrane protein 2 |
| GO | mitochondrial inner membrane | 10 | 231 | 0.989 | 3958 | lectin, galactoside-binding, soluble, 3 |
| GO | mitochondrial inner membrane | 10 | 231 | 0.989 | 4129 | monoamine oxidase B |
| GO | mitochondrial inner membrane | 10 | 231 | 0.989 | 498 | ATP synthase, H+ transporting, mitochondrial F1 complex, alpha subun |
| GO | mitochondrial inner membrane | 10 | 231 | 0.989 | 51703 | acyl-CoA synthetase long-chain family member 5 |
| GO | mitochondrial inner membrane | 10 | 231 | 0.989 | 5577 | protein kinase, cAMP-dependent, regulatory, type II, beta |
| GO | mitochondrial inner membrane | 10 | 231 | 0.989 | 622 | 3-hydroxybutyrate dehydrogenase, type 1 |

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|---|---|---|---|---|---|---|
| GO | mitochondrial inner membrane | 10 | 231 | 0.989 | 9481 | solute carrier family 25, member 27 |
| GO | MLL1 complex | 1 | 26 | 0.989 | 125476 | INO80 complex subunit C |
| GO | cell cycle arrest | 5 | 108 | 0.989 | 127933 | U2AF homology motif (UHM) kinase 1 |
| GO | cell cycle arrest | 5 | 108 | 0.989 | 4853 | Notch homolog 2 (Drosophila) |
| GO | cell cycle arrest | 5 | 108 | 0.989 | 5325 | pleiomorphic adenoma gene-like 1 |
| GO | cell cycle arrest | 5 | 108 | 0.989 | 5371 | promyelocytic leukemia |
| GO | cell cycle arrest | 5 | 108 | 0.989 | 5608 | mitogen-activated protein kinase kinase 6 |
| GO | neuron projection development | 2 | 41 | 0.989 | 127933 | U2AF homology motif (UHM) kinase 1 |
| GO | neuron projection development | 2 | 41 | 0.989 | 3569 | interleukin 6 (interferon, beta 2) |
| GO | peptidyl-serine phosphorylation | 1 | 26 | 0.989 | 127933 | U2AF homology motif (UHM) kinase 1 |
| GO | Rab GTPase activator activity | 2 | 44 | 0.989 | 129049 | small G protein signaling modulator 1 |
| GO | Rab GTPase activator activity | 2 | 44 | 0.989 | 55357 | TBC1 domain family, member 2 |
| GO | regulation of Rab GTPase activity | 2 | 44 | 0.989 | 129049 | small G protein signaling modulator 1 |
| GO | regulation of Rab GTPase activity | 2 | 44 | 0.989 | 55357 | TBC1 domain family, member 2 |
| GO | post-translational protein modificatio | 1 | 27 | 0.989 | 134111 | ubiquitin-conjugating enzyme E2Q family-like 1 |
| GO | regulation of protein metabolic proce | 2 | 42 | 0.989 | 134111 | ubiquitin-conjugating enzyme E2Q family-like 1 |
| GO | regulation of protein metabolic proce | 2 | 42 | 0.989 | 3479 | insulin-like growth factor 1 (somatomedin C) |
| GO | heat shock protein binding | 4 | 62 | 0.989 | 134218 | DnaJ (Hsp40) homolog, subfamily C, member 21 |
| GO | heat shock protein binding | 4 | 62 | 0.989 | 29103 | DnaJ (Hsp40) homolog, subfamily C, member 15 |
| GO | heat shock protein binding | 4 | 62 | 0.989 | 4792 | nuclear factor of kappa light polypeptide gene enhancer in B-cells inhib |
| GO | heat shock protein binding | 4 | 62 | 0.989 | 84277 | DnaJ (Hsp40) homolog, subfamily C, member 30 |
| GO | nucleic acid binding | 9 | 254 | 0.989 | 134218 | DnaJ (Hsp40) homolog, subfamily C, member 21 |
| GO | nucleic acid binding | 9 | 254 | 0.989 | 201501 | zinc finger and BTB domain containing 7C |
| GO | nucleic acid binding | 9 | 254 | 0.989 | 23081 | lysine (K)-specific demethylase 4C |
| GO | nucleic acid binding | 9 | 254 | 0.989 | 376940 | zinc finger CCCH-type containing 6 |
| GO | nucleic acid binding | 9 | 254 | 0.989 | 400713 | zinc finger protein 880 |
| GO | nucleic acid binding | 9 | 254 | 0.989 | 54877 | zinc finger, CCHC domain containing 2 |
| GO | nucleic acid binding | 9 | 254 | 0.989 | 54932 | exonuclease 3'-5' domain containing 3 |
| GO | nucleic acid binding | 9 | 254 | 0.989 | 55068 | ecto-NOX disulfide-thiol exchanger 1 |
| GO | nucleic acid binding | 9 | 254 | 0.989 | 94059 | leukocyte receptor cluster (LRC) member 9 |
| GO | protein folding | 5 | 139 | 0.989 | 134218 | DnaJ (Hsp40) homolog, subfamily C, member 21 |
| GO | protein folding | 5 | 139 | 0.989 | 4802 | nuclear transcription factor Y, gamma |
| GO | protein folding | 5 | 139 | 0.989 | 51303 | FK506 binding protein 11, 19 kDa |
| GO | protein folding | 5 | 139 | 0.989 | 56605 | ERO1-like beta (S. cerevisiae) |
| GO | protein folding | 5 | 139 | 0.989 | 84277 | DnaJ (Hsp40) homolog, subfamily C, member 30 |
| GO | ribosome | 3 | 172 | 0.989 | 134218 | DnaJ (Hsp40) homolog, subfamily C, member 21 |

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|---|---|---|---|---|---|---|
| GO | ribosome | 3 | 172 | 0.989 | 1540 | cylindromatosis (turban tumor syndrome) |
| GO | ribosome | 3 | 172 | 0.989 | 6238 | ribosome binding protein 1 homolog 180kDa (dog) |
| GO | actin filament binding | 3 | 50 | 0.989 | 134549 | shroom family member 1 |
| GO | actin filament binding | 3 | 50 | 0.989 | 6710 | spectrin, beta, erythrocytic |
| GO | actin filament binding | 3 | 50 | 0.989 | 85477 | scinderin |
| GO | metabolic process | 31 | 455 | 0.989 | 1363 | carboxypeptidase E |
| GO | metabolic process | 31 | 455 | 0.989 | 148229 | ATPase, class I, type 8B, member 3 |
| GO | metabolic process | 31 | 455 | 0.989 | 157855 | potassium channel, subfamily U, member 1 |
| GO | metabolic process | 31 | 455 | 0.989 | 200150 | phospholipase D family, member 5 |
| GO | metabolic process | 31 | 455 | 0.989 | 2182 | acyl-CoA synthetase long-chain family member 4 |
| GO | metabolic process | 31 | 455 | 0.989 | 22901 | arylsulfatase G |
| GO | metabolic process | 31 | 455 | 0.989 | 23382 | adenosylhomocysteinase-like 2 |
| GO | metabolic process | 31 | 455 | 0.989 | 2517 | fucosidase, alpha-L- 1, tissue |
| GO | metabolic process | 31 | 455 | 0.989 | 2947 | glutathione S-transferase mu 3 (brain) |
| GO | metabolic process | 31 | 455 | 0.989 | 2990 | glucuronidase, beta |
| GO | metabolic process | 31 | 455 | 0.989 | 3373 | hyaluronoglucosaminidase 1 |
| GO | metabolic process | 31 | 455 | 0.989 | 343450 | potassium channel, subfamily T, member 2 |
| GO | metabolic process | 31 | 455 | 0.989 | 412 | steroid sulfatase (microsomal), isozyme S |
| GO | metabolic process | 31 | 455 | 0.989 | 4121 | mannosidase, alpha, class 1A, member 1 |
| GO | metabolic process | 31 | 455 | 0.989 | 4316 | matrix metallopeptidase 7 (matrilysin, uterine) |
| GO | metabolic process | 31 | 455 | 0.989 | 48 | aconitase 1, soluble |
| GO | metabolic process | 31 | 455 | 0.989 | 493 | ATPase, Ca++ transporting, plasma membrane 4 |
| GO | metabolic process | 31 | 455 | 0.989 | 5122 | proprotein convertase subtilisin/kexin type 1 |
| GO | metabolic process | 31 | 455 | 0.989 | 51703 | acyl-CoA synthetase long-chain family member 5 |
| GO | metabolic process | 31 | 455 | 0.989 | 54511 | 3-hydroxymethyl-3-methylglutaryl-Coenzyme A lyase-like 1 |
| GO | metabolic process | 31 | 455 | 0.989 | 54947 | lysophosphatidylcholine acyltransferase 2 |
| GO | metabolic process | 31 | 455 | 0.989 | 55140 | elongation protein 3 homolog (S. cerevisiae) |
| GO | metabolic process | 31 | 455 | 0.989 | 55268 | enoyl Coenzyme A hydratase domain containing 2 |
| GO | metabolic process | 31 | 455 | 0.989 | 57104 | patatin-like phospholipase domain containing 2 |
| GO | metabolic process | 31 | 455 | 0.989 | 57134 | mannosidase, alpha, class 1C, member 1 |
| GO | metabolic process | 31 | 455 | 0.989 | 622 | 3-hydroxybutyrate dehydrogenase, type 1 |
| GO | metabolic process | 31 | 455 | 0.989 | 64064 | 3-oxoacid CoA transferase 2 |
| GO | metabolic process | 31 | 455 | 0.989 | 79611 | acyl-CoA synthetase short-chain family member 3 |
| GO | metabolic process | 31 | 455 | 0.989 | 79661 | nei endonuclease VIII-like 1 (E. coli) |
| GO | metabolic process | 31 | 455 | 0.989 | 952 | CD38 molecule |
| GO | metabolic process | 31 | 455 | 0.989 | 9914 | ATPase, Ca++ transporting, type 2C, member 2 |

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|---|---|---|---|---|---|---|
| GO | metallopeptidase activity | 6 | 88 | 0.989 | 1363 | carboxypeptidase E |
| GO | metallopeptidase activity | 6 | 88 | 0.989 | 1368 | carboxypeptidase M |
| GO | metallopeptidase activity | 6 | 88 | 0.989 | 57094 | carboxypeptidase A6 |
| GO | metallopeptidase activity | 6 | 88 | 0.989 | 79956 | endoplasmic reticulum metallopeptidase 1 |
| GO | metallopeptidase activity | 6 | 88 | 0.989 | 8751 | ADAM metallopeptidase domain 15 |
| GO | metallopeptidase activity | 6 | 88 | 0.989 | 9510 | ADAM metallopeptidase with thrombospondin type 1 motif, 1 |
| GO | protein modification process | 9 | 145 | 0.989 | 1363 | carboxypeptidase E |
| GO | protein modification process | 9 | 145 | 0.989 | 26232 | F-box protein 2 |
| GO | protein modification process | 9 | 145 | 0.989 | 284716 | ribosomal modification protein rimK-like family member A |
| GO | protein modification process | 9 | 145 | 0.989 | 29943 | peptidyl arginine deiminase, type I |
| GO | protein modification process | 9 | 145 | 0.989 | 4015 | lysyl oxidase |
| GO | protein modification process | 9 | 145 | 0.989 | 5066 | peptidylglycine alpha-amidating monooxygenase |
| GO | protein modification process | 9 | 145 | 0.989 | 5327 | plasminogen activator, tissue |
| GO | protein modification process | 9 | 145 | 0.989 | 5351 | procollagen-lysine 1, 2-oxoglutarate 5-dioxygenase 1 |
| GO | protein modification process | 9 | 145 | 0.989 | 57494 | ribosomal modification protein rimK-like family member B |
| GO | structural molecule activity | 8 | 196 | 0.989 | 1364 | claudin 4 |
| GO | structural molecule activity | 8 | 196 | 0.989 | 3911 | laminin, alpha 5 |
| GO | structural molecule activity | 8 | 196 | 0.989 | 3913 | laminin, beta 2 (laminin S) |
| GO | structural molecule activity | 8 | 196 | 0.989 | 3914 | laminin, beta 3 |
| GO | structural molecule activity | 8 | 196 | 0.989 | 4359 | myelin protein zero |
| GO | structural molecule activity | 8 | 196 | 0.989 | 5239 | phosphoglucomutase 5 |
| GO | structural molecule activity | 8 | 196 | 0.989 | 9019 | myelin protein zero-like 1 |
| GO | structural molecule activity | 8 | 196 | 0.989 | 9071 | claudin 10 |
| GO | mitochondrial matrix | 5 | 147 | 0.989 | 1373 | carbamoyl-phosphate synthetase 1, mitochondrial |
| GO | mitochondrial matrix | 5 | 147 | 0.989 | 205 | adenylate kinase 3-like 1 |
| GO | mitochondrial matrix | 5 | 147 | 0.989 | 35 | acyl-Coenzyme A dehydrogenase, C-2 to C-3 short chain |
| GO | mitochondrial matrix | 5 | 147 | 0.989 | 498 | ATP synthase, H+ transporting, mitochondrial F1 complex, alpha subun |
| GO | mitochondrial matrix | 5 | 147 | 0.989 | 622 | 3-hydroxybutyrate dehydrogenase, type 1 |
| GO | mitochondrial nucleoid | 1 | 31 | 0.989 | 1373 | carbamoyl-phosphate synthetase 1, mitochondrial |
| GO | protein complex | 8 | 153 | 0.989 | 1373 | carbamoyl-phosphate synthetase 1, mitochondrial |
| GO | protein complex | 8 | 153 | 0.989 | 4005 | LIM domain only 2 (rhombotin-like 1) |
| GO | protein complex | 8 | 153 | 0.989 | 5071 | Parkinson disease (autosomal recessive, juvenile) 2, parkin |
| GO | protein complex | 8 | 153 | 0.989 | 57161 | pellino homolog 2 (Drosophila) |
| GO | protein complex | 8 | 153 | 0.989 | 6494 | signal-induced proliferation-associated 1 |
| GO | protein complex | 8 | 153 | 0.989 | 6710 | spectrin, beta, erythrocytic |
| GO | protein complex | 8 | 153 | 0.989 | 6812 | syntaxin binding protein 1 |

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|---|---|---|---|---|---|---|
| GO | protein complex | 8 | 153 | 0.989 | 85477 | scinderin |
| GO | cytoplasmic vesicle | 14 | 229 | 0.989 | 143425 | synaptotagmin IX |
| GO | cytoplasmic vesicle | 14 | 229 | 0.989 | 23208 | synaptotagmin XI |
| GO | cytoplasmic vesicle | 14 | 229 | 0.989 | 25956 | SEC31 homolog B (S. cerevisiae) |
| GO | cytoplasmic vesicle | 14 | 229 | 0.989 | 3601 | interleukin 15 receptor, alpha |
| GO | cytoplasmic vesicle | 14 | 229 | 0.989 | 4179 | CD46 molecule, complement regulatory protein |
| GO | cytoplasmic vesicle | 14 | 229 | 0.989 | 5016 | oviductal glycoprotein 1, 120kDa |
| GO | cytoplasmic vesicle | 14 | 229 | 0.989 | 5122 | proprotein convertase subtilisin/kexin type 1 |
| GO | cytoplasmic vesicle | 14 | 229 | 0.989 | 6857 | synaptotagmin I |
| GO | cytoplasmic vesicle | 14 | 229 | 0.989 | 7852 | chemokine (C-X-C motif) receptor 4 |
| GO | cytoplasmic vesicle | 14 | 229 | 0.989 | 79971 | wntless homolog (Drosophila) |
| GO | cytoplasmic vesicle | 14 | 229 | 0.989 | 80223 | RAB11 family interacting protein 1 (class I) |
| GO | cytoplasmic vesicle | 14 | 229 | 0.989 | 80763 | chromosome 12 open reading frame 39 |
| GO | cytoplasmic vesicle | 14 | 229 | 0.989 | 9143 | synaptogyrin 3 |
| GO | cytoplasmic vesicle | 14 | 229 | 0.989 | 9510 | ADAM metallopeptidase with thrombospondin type 1 motif, 1 |
| GO | homeostasis of number of cells withi | 1 | 15 | 0.989 | 1435 | colony stimulating factor 1 (macrophage) |
| GO | positive regulation of protein kinase | 1 | 16 | 0.989 | 1435 | colony stimulating factor 1 (macrophage) |
| GO | regulation of translation | 3 | 61 | 0.989 | 143689 | piwi-like 4 (Drosophila) |
| GO | regulation of translation | 3 | 61 | 0.989 | 84919 | protein phosphatase 1, regulatory (inhibitor) subunit 15B |
| GO | regulation of translation | 3 | 61 | 0.989 | 9271 | piwi-like 1 (Drosophila) |
| GO | spermatogenesis | 16 | 261 | 0.989 | 143689 | piwi-like 4 (Drosophila) |
| GO | spermatogenesis | 16 | 261 | 0.989 | 3815 | v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog |
| GO | spermatogenesis | 16 | 261 | 0.989 | 4851 | Notch homolog 1, translocation-associated (Drosophila) |
| GO | spermatogenesis | 16 | 261 | 0.989 | 51314 | thioredoxin domain containing 3 (spermatozoa) |
| GO | spermatogenesis | 16 | 261 | 0.989 | 5367 | pro-melanin-concentrating hormone |
| GO | spermatogenesis | 16 | 261 | 0.989 | 55124 | piwi-like 2 (Drosophila) |
| GO | spermatogenesis | 16 | 261 | 0.989 | 5950 | retinol binding protein 4, plasma |
| GO | spermatogenesis | 16 | 261 | 0.989 | 604 | B-cell CLL/lymphoma 6 |
| GO | spermatogenesis | 16 | 261 | 0.989 | 79820 | cation channel, sperm-associated, beta |
| GO | spermatogenesis | 16 | 261 | 0.989 | 8382 | non-metastatic cells 5, protein expressed in (nucleoside-diphosphate k |
| GO | spermatogenesis | 16 | 261 | 0.989 | 83890 | spermatogenesis associated 9 |
| GO | spermatogenesis | 16 | 261 | 0.989 | 8531 | cold shock domain protein A |
| GO | spermatogenesis | 16 | 261 | 0.989 | 8900 | cyclin A1 |
| GO | spermatogenesis | 16 | 261 | 0.989 | 9271 | piwi-like 1 (Drosophila) |
| GO | spermatogenesis | 16 | 261 | 0.989 | 9633 | metallothionein-like 5, testis-specific (tesmin) |
| GO | spermatogenesis | 16 | 261 | 0.989 | 9985 | REC8 homolog (yeast) |

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|---|---|---|---|---|---|---|
| GO | microtubule motor activity | 3 | 76 | 0.989 | 144132 | dynein heavy chain domain 1 |
| GO | microtubule motor activity | 3 | 76 | 0.989 | 23095 | kinesin family member 1B |
| GO | microtubule motor activity | 3 | 76 | 0.989 | 23303 | kinesin family member 13B |
| GO | microtubule-based movement | 3 | 84 | 0.989 | 144132 | dynein heavy chain domain 1 |
| GO | microtubule-based movement | 3 | 84 | 0.989 | 23095 | kinesin family member 1B |
| GO | microtubule-based movement | 3 | 84 | 0.989 | 23303 | kinesin family member 13B |
| GO | hyaluronic acid binding | 1 | 19 | 0.989 | 1462 | versican |
| GO | Rho protein signal transduction | 2 | 36 | 0.989 | 148170 | CDC42 effector protein (Rho GTPase binding) 5 |
| GO | Rho protein signal transduction | 2 | 36 | 0.989 | 395 | Rho GTPase activating protein 6 |
| GO | binding of sperm to zona pellucida | 1 | 15 | 0.989 | 148229 | ATPase, class I, type 8B, member 3 |
| GO | autophagy | 2 | 36 | 0.989 | 1508 | cathepsin B |
| GO | autophagy | 2 | 36 | 0.989 | 55332 | DNA-damage regulated autophagy modulator 1 |
| GO | histone binding | 3 | 44 | 0.989 | 151636 | deltex 3-like (Drosophila) |
| GO | histone binding | 3 | 44 | 0.989 | 55705 | importin 9 |
| GO | histone binding | 3 | 44 | 0.989 | 6622 | synuclein, alpha (non A4 component of amyloid precursor) |
| GO | ruffle | 3 | 53 | 0.989 | 152273 | FYVE, RhoGEF and PH domain containing 5 |
| GO | ruffle | 3 | 53 | 0.989 | 3678 | integrin, alpha 5 (fibronectin receptor, alpha polypeptide) |
| GO | ruffle | 3 | 53 | 0.989 | 9788 | metastasis suppressor 1 |
| GO | cysteine-type peptidase activity | 3 | 76 | 0.989 | 1540 | cylindromatosis (turban tumor syndrome) |
| GO | cysteine-type peptidase activity | 3 | 76 | 0.989 | 25862 | ubiquitin specific peptidase 49 |
| GO | cysteine-type peptidase activity | 3 | 76 | 0.989 | 55432 | YOD1 OTU deubiquinating enzyme 1 homolog (S. cerevisiae) |
| GO | structural constituent of ribosome | 1 | 146 | 0.989 | 1540 | cylindromatosis (turban tumor syndrome) |
| GO | translation | 2 | 197 | 0.989 | 1540 | cylindromatosis (turban tumor syndrome) |
| GO | translation | 2 | 197 | 0.989 | 6238 | ribosome binding protein 1 homolog 180kDa (dog) |
| GO | ubiquitin thiolesterase activity | 3 | 68 | 0.989 | 1540 | cylindromatosis (turban tumor syndrome) |
| GO | ubiquitin thiolesterase activity | 3 | 68 | 0.989 | 159195 | ubiquitin specific peptidase 54 |
| GO | ubiquitin thiolesterase activity | 3 | 68 | 0.989 | 25862 | ubiquitin specific peptidase 49 |
| GO | ubiquitin-dependent protein cataboli | 5 | 139 | 0.989 | 1540 | cylindromatosis (turban tumor syndrome) |
| GO | ubiquitin-dependent protein cataboli | 5 | 139 | 0.989 | 159195 | ubiquitin specific peptidase 54 |
| GO | ubiquitin-dependent protein cataboli | 5 | 139 | 0.989 | 25862 | ubiquitin specific peptidase 49 |
| GO | ubiquitin-dependent protein cataboli | 5 | 139 | 0.989 | 5071 | Parkinson disease (autosomal recessive, juvenile) 2, parkin |
| GO | ubiquitin-dependent protein cataboli | 5 | 139 | 0.989 | 6921 | transcription elongation factor B (SIII), polypeptide 1 (15kDa, elongin C |
| GO | intrinsic to endoplasmic reticulum me | 1 | 16 | 0.989 | 1571 | cytochrome P450, family 2, subfamily E, polypeptide 1 |
| GO | RNA polymerase II transcription facto | 8 | 126 | 0.989 | 1628 | D site of albumin promoter (albumin D-box) binding protein |
| GO | RNA polymerase II transcription facto | 8 | 126 | 0.989 | 3725 | jun oncogene |
| GO | RNA polymerase II transcription facto | 8 | 126 | 0.989 | 3726 | jun B proto-oncogene |

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|---|---|---|---|---|---|---|
| GO | RNA polymerase II transcription factc | 8 | 126 | 0.989 | 4802 | nuclear transcription factor Y, gamma |
| GO | RNA polymerase II transcription factc | 8 | 126 | 0.989 | 51621 | Kruppel-like factor 13 |
| GO | RNA polymerase II transcription factc | 8 | 126 | 0.989 | 55870 | ash1 (absent, small, or homeotic)-like (Drosophila) |
| GO | RNA polymerase II transcription factc | 8 | 126 | 0.989 | 7008 | thyrotrophic embryonic factor |
| GO | RNA polymerase II transcription factc | 8 | 126 | 0.989 | 8531 | cold shock domain protein A |
| GO | kinase activity | 2 | 117 | 0.989 | 166929 | sphingomyelin synthase 2 |
| GO | kinase activity | 2 | 117 | 0.989 | 57147 | SCY1-like 3 (S. cerevisiae) |
| GO | metalloendopeptidase activity | 6 | 102 | 0.989 | 170692 | ADAM metallopeptidase with thrombospondin type 1 motif, 18 |
| GO | metalloendopeptidase activity | 6 | 102 | 0.989 | 4316 | matrix metallopeptidase 7 (matrilysin, uterine) |
| GO | metalloendopeptidase activity | 6 | 102 | 0.989 | 56547 | matrix metallopeptidase 26 |
| GO | metalloendopeptidase activity | 6 | 102 | 0.989 | 7092 | tolloid-like 1 |
| GO | metalloendopeptidase activity | 6 | 102 | 0.989 | 8751 | ADAM metallopeptidase domain 15 |
| GO | metalloendopeptidase activity | 6 | 102 | 0.989 | 9510 | ADAM metallopeptidase with thrombospondin type 1 motif, 1 |
| GO | microtubule binding | 1 | 58 | 0.989 | 1785 | dynamin 2 |
| GO | motor activity | 3 | 64 | 0.989 | 1785 | dynamin 2 |
| GO | motor activity | 3 | 64 | 0.989 | 4645 | myosin VB |
| GO | motor activity | 3 | 64 | 0.989 | 51168 | myosin XVA |
| GO | post-Golgi vesicle-mediated transpor | 2 | 37 | 0.989 | 1785 | dynamin 2 |
| GO | post-Golgi vesicle-mediated transpor | 2 | 37 | 0.989 | 8673 | vesicle-associated membrane protein 8 (endobrevin) |
| GO | aminopeptidase activity | 1 | 28 | 0.989 | 1803 | dipeptidyl-peptidase 4 |
| GO | collagen binding | 2 | 34 | 0.989 | 1803 | dipeptidyl-peptidase 4 |
| GO | collagen binding | 2 | 34 | 0.989 | 22795 | nidogen 2 (osteonidogen) |
| GO | response to cocaine | 1 | 16 | 0.989 | 1813 | dopamine receptor D2 |
| GO | synapse assembly | 2 | 33 | 0.989 | 1813 | dopamine receptor D2 |
| GO | synapse assembly | 2 | 33 | 0.989 | 375790 | agrin |
| GO | regulation of neuron differentiation | 1 | 19 | 0.989 | 1822 | atrophin 1 |
| GO | regulation of heart contraction | 2 | 32 | 0.989 | 1839 | heparin-binding EGF-like growth factor |
| GO | regulation of heart contraction | 2 | 32 | 0.989 | 8912 | calcium channel, voltage-dependent, T type, alpha 1H subunit |
| GO | inactivation of MAPK activity | 1 | 20 | 0.989 | 1844 | dual specificity phosphatase 2 |
| GO | glucose transport | 1 | 22 | 0.989 | 1906 | endothelin 1 |
| GO | translation elongation factor activity | 1 | 20 | 0.989 | 1915 | eukaryotic translation elongation factor 1 alpha 1 |
| GO | translational elongation | 1 | 87 | 0.989 | 1915 | eukaryotic translation elongation factor 1 alpha 1 |
| GO | T cell differentiation | 1 | 19 | 0.989 | 1958 | early growth response 1 |
| GO | myelination | 1 | 29 | 0.989 | 1959 | early growth response 2 |
| GO | vasculogenesis | 2 | 42 | 0.989 | 1969 | EPH receptor A2 |
| GO | vasculogenesis | 2 | 42 | 0.989 | 3726 | jun B proto-oncogene |

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|---|---|---|---|---|---|---|
| GO | regulation of translational initiation | 1 | 24 | 0.989 | 1983 | eukaryotic translation initiation factor 5 |
| GO | translation factor activity, nucleic aci | 1 | 21 | 0.989 | 1983 | eukaryotic translation initiation factor 5 |
| GO | translation initiation factor activity | 1 | 49 | 0.989 | 1983 | eukaryotic translation initiation factor 5 |
| GO | translational initiation | 1 | 36 | 0.989 | 1983 | eukaryotic translation initiation factor 5 |
| GO | glycolysis | 1 | 41 | 0.989 | 2026 | enolase 2 (gamma, neuronal) |
| GO | synaptosome | 5 | 91 | 0.989 | 2026 | enolase 2 (gamma, neuronal) |
| GO | synaptosome | 5 | 91 | 0.989 | 2353 | FBJ murine osteosarcoma viral oncogene homolog |
| GO | synaptosome | 5 | 91 | 0.989 | 3678 | integrin, alpha 5 (fibronectin receptor, alpha polypeptide) |
| GO | synaptosome | 5 | 91 | 0.989 | 4645 | myosin VB |
| GO | synaptosome | 5 | 91 | 0.989 | 6622 | synuclein, alpha (non A4 component of amyloid precursor) |
| GO | histone acetyltransferase activity | 2 | 38 | 0.989 | 2033 | E1A binding protein p300 |
| GO | histone acetyltransferase activity | 2 | 38 | 0.989 | 55140 | elongation protein 3 homolog (S. cerevisiae) |
| GO | histone H4 acetylation | 1 | 15 | 0.989 | 2033 | E1A binding protein p300 |
| GO | ceramide metabolic process | 1 | 16 | 0.989 | 2055 | ceroid-lipofuscinosis, neuronal 8 (epilepsy, progressive with mental ret |
| GO | ER-Golgi intermediate compartment | 1 | 17 | 0.989 | 2055 | ceroid-lipofuscinosis, neuronal 8 (epilepsy, progressive with mental ret |
| GO | lysosome organization | 1 | 22 | 0.989 | 2055 | ceroid-lipofuscinosis, neuronal 8 (epilepsy, progressive with mental ret |
| GO | positive regulation of epithelial cell p | 2 | 34 | 0.989 | 2066 | v-erb-a erythroblastic leukemia viral oncogene homolog 4 (avian) |
| GO | positive regulation of epithelial cell p | 2 | 34 | 0.989 | 3479 | insulin-like growth factor 1 (somatomedin C) |
| GO | mitochondrial outer membrane | 5 | 81 | 0.989 | 2182 | acyl-CoA synthetase long-chain family member 4 |
| GO | mitochondrial outer membrane | 5 | 81 | 0.989 | 4128 | monoamine oxidase A |
| GO | mitochondrial outer membrane | 5 | 81 | 0.989 | 4129 | monoamine oxidase B |
| GO | mitochondrial outer membrane | 5 | 81 | 0.989 | 4170 | myeloid cell leukemia sequence 1 (BCL2-related) |
| GO | mitochondrial outer membrane | 5 | 81 | 0.989 | 51703 | acyl-CoA synthetase long-chain family member 5 |
| GO | neuronal cell body | 10 | 148 | 0.989 | 2182 | acyl-CoA synthetase long-chain family member 4 |
| GO | neuronal cell body | 10 | 148 | 0.989 | 3759 | potassium inwardly-rectifying channel, subfamily J, member 2 |
| GO | neuronal cell body | 10 | 148 | 0.989 | 429 | achaete-scute complex homolog 1 (Drosophila) |
| GO | neuronal cell body | 10 | 148 | 0.989 | 4645 | myosin VB |
| GO | neuronal cell body | 10 | 148 | 0.989 | 4684 | neural cell adhesion molecule 1 |
| GO | neuronal cell body | 10 | 148 | 0.989 | 4856 | nephroblastoma overexpressed gene |
| GO | neuronal cell body | 10 | 148 | 0.989 | 5025 | purinergic receptor P2X, ligand-gated ion channel, 4 |
| GO | neuronal cell body | 10 | 148 | 0.989 | 5122 | proprotein convertase subtilisin/kexin type 1 |
| GO | neuronal cell body | 10 | 148 | 0.989 | 6750 | somatostatin |
| GO | neuronal cell body | 10 | 148 | 0.989 | 799 | calcitonin receptor |
| GO | peroxisomal membrane | 1 | 41 | 0.989 | 2182 | acyl-CoA synthetase long-chain family member 4 |
| GO | peroxisome | 1 | 92 | 0.989 | 2182 | acyl-CoA synthetase long-chain family member 4 |
| GO | chromosome, centromeric region | 1 | 47 | 0.989 | 220359 | tigger transposable element derived 3 |

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|---|---|---|---|---|---|---|
| GO | fibroblast growth factor receptor sigr | 2 | 33 | 0.989 | 2263 | fibroblast growth factor receptor 2 |
| GO | fibroblast growth factor receptor sigr | 2 | 33 | 0.989 | 26281 | fibroblast growth factor 20 |
| GO | positive regulation of cell cycle | 1 | 15 | 0.989 | 2290 | forkhead box G1 |
| GO | cell development | 1 | 15 | 0.989 | 2303 | forkhead box C2 (MFH-1, mesenchyme forkhead 1) |
| GO | mesoderm development | 1 | 27 | 0.989 | 2303 | forkhead box C2 (MFH-1, mesenchyme forkhead 1) |
| GO | microtubule associated complex | 1 | 25 | 0.989 | 23095 | kinesin family member 1B |
| GO | protein C-terminus binding | 9 | 146 | 0.989 | 23119 | hypermethylated in cancer 2 |
| GO | protein C-terminus binding | 9 | 146 | 0.989 | 26119 | low density lipoprotein receptor adaptor protein 1 |
| GO | protein C-terminus binding | 9 | 146 | 0.989 | 4692 | necdin homolog (mouse) |
| GO | protein C-terminus binding | 9 | 146 | 0.989 | 6494 | signal-induced proliferation-associated 1 |
| GO | protein C-terminus binding | 9 | 146 | 0.989 | 6521 | solute carrier family 4, anion exchanger, member 1 (erythrocyte memb |
| GO | protein C-terminus binding | 9 | 146 | 0.989 | 774 | calcium channel, voltage-dependent, N type, alpha 1B subunit |
| GO | protein C-terminus binding | 9 | 146 | 0.989 | 79661 | nei endonuclease VIII-like 1 (E. coli) |
| GO | protein C-terminus binding | 9 | 146 | 0.989 | 8938 | BAI1-associated protein 3 |
| GO | protein C-terminus binding | 9 | 146 | 0.989 | 9414 | tight junction protein 2 (zona occludens 2) |
| GO | mitochondrial membrane | 1 | 51 | 0.989 | 23151 | GRAM domain containing 4 |
| GO | protein kinase binding | 7 | 113 | 0.989 | 23303 | kinesin family member 13B |
| GO | protein kinase binding | 7 | 113 | 0.989 | 3689 | integrin, beta 2 (complement component 3 receptor 3 and 4 subunit) |
| GO | protein kinase binding | 7 | 113 | 0.989 | 5801 | protein tyrosine phosphatase, receptor type, R |
| GO | protein kinase binding | 7 | 113 | 0.989 | 64127 | nucleotide-binding oligomerization domain containing 2 |
| GO | protein kinase binding | 7 | 113 | 0.989 | 8313 | axin 2 |
| GO | protein kinase binding | 7 | 113 | 0.989 | 8631 | src kinase associated phosphoprotein 1 |
| GO | protein kinase binding | 7 | 113 | 0.989 | 8660 | insulin receptor substrate 2 |
| GO | GTPase binding | 1 | 15 | 0.989 | 23348 | dedicator of cytokinesis 9 |
| GO | G-protein-coupled receptor binding | 1 | 24 | 0.989 | 23365 | Rho guanine nucleotide exchange factor (GEF) 12 |
| GO | chromatin assembly or disassembly | 1 | 36 | 0.989 | 23492 | chromobox homolog 7 |
| GO | chromatin binding | 7 | 156 | 0.989 | 23492 | chromobox homolog 7 |
| GO | chromatin binding | 7 | 156 | 0.989 | 2737 | GLI family zinc finger 3 |
| GO | chromatin binding | 7 | 156 | 0.989 | 4087 | SMAD family member 2 |
| GO | chromatin binding | 7 | 156 | 0.989 | 4286 | microphthalmia-associated transcription factor |
| GO | chromatin binding | 7 | 156 | 0.989 | 604 | B-cell CLL/lymphoma 6 |
| GO | chromatin binding | 7 | 156 | 0.989 | 79987 | sushi, von Willebrand factor type A, EGF and pentraxin domain contain |
| GO | chromatin binding | 7 | 156 | 0.989 | 9324 | high mobility group nucleosomal binding domain 3 |
| GO | chromatin | 4 | 81 | 0.989 | 23492 | chromobox homolog 7 |
| GO | chromatin | 4 | 81 | 0.989 | 3726 | jun B proto-oncogene |
| GO | chromatin | 4 | 81 | 0.989 | 4613 | v-myc myelocytomatosis viral related oncogene, neuroblastoma derive |

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|---|---|---|---|---|---|---|
| GO | chromatin | 4 | 81 | 0.989 | 9324 | high mobility group nucleosomal binding domain 3 |
| GO | single-stranded DNA binding | 3 | 49 | 0.989 | 23648 | single stranded DNA binding protein 3 |
| GO | single-stranded DNA binding | 3 | 49 | 0.989 | 80169 | chromosome 17 open reading frame 68 |
| GO | single-stranded DNA binding | 3 | 49 | 0.989 | 8531 | cold shock domain protein A |
| GO | protein binding, bridging | 2 | 44 | 0.989 | 23767 | fibronectin leucine rich transmembrane protein 3 |
| GO | protein binding, bridging | 2 | 44 | 0.989 | 26119 | low density lipoprotein receptor adaptor protein 1 |
| GO | nuclear matrix | 2 | 62 | 0.989 | 240 | arachidonate 5-lipoxygenase |
| GO | nuclear matrix | 2 | 62 | 0.989 | 5371 | promyelocytic leukemia |
| GO | nuclear membrane | 5 | 87 | 0.989 | 240 | arachidonate 5-lipoxygenase |
| GO | nuclear membrane | 5 | 87 | 0.989 | 28959 | transmembrane protein 176B |
| GO | nuclear membrane | 5 | 87 | 0.989 | 358 | aquaporin 1 (Colton blood group) |
| GO | nuclear membrane | 5 | 87 | 0.989 | 3601 | interleukin 15 receptor, alpha |
| GO | nuclear membrane | 5 | 87 | 0.989 | 5371 | promyelocytic leukemia |
| GO | ubiquitin ligase complex | 3 | 54 | 0.989 | 255488 | ring finger protein 144B |
| GO | ubiquitin ligase complex | 3 | 54 | 0.989 | 4008 | LIM domain 7 |
| GO | ubiquitin ligase complex | 3 | 54 | 0.989 | 79872 | Cas-Br-M (murine) ecotropic retroviral transforming sequence-like 1 |
| GO | late endosome | 2 | 43 | 0.989 | 255738 | proprotein convertase subtilisin/kexin type 9 |
| GO | late endosome | 2 | 43 | 0.989 | 5873 | RAB27A, member RAS oncogene family |
| GO | GABA-A receptor activity | 1 | 19 | 0.989 | 2564 | gamma-aminobutyric acid (GABA) A receptor, epsilon |
| GO | gamma-aminobutyric acid signaling p | 1 | 20 | 0.989 | 2564 | gamma-aminobutyric acid (GABA) A receptor, epsilon |
| GO | pyridoxal phosphate binding | 2 | 51 | 0.989 | 2571 | glutamate decarboxylase 1 (brain, 67kDa) |
| GO | pyridoxal phosphate binding | 2 | 51 | 0.989 | 55304 | serine palmitoyltransferase, long chain base subunit 3 |
| GO | vesicle membrane | 1 | 15 | 0.989 | 2571 | glutamate decarboxylase 1 (brain, 67kDa) |
| GO | manganese ion binding | 1 | 32 | 0.989 | 2589 | UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosami |
| GO | Rab GTPase binding | 2 | 33 | 0.989 | 259173 | ALS2 C-terminal like |
| GO | Rab GTPase binding | 2 | 33 | 0.989 | 4645 | myosin VB |
| GO | isomerase activity | 4 | 99 | 0.989 | 26035 | glucuronic acid epimerase |
| GO | isomerase activity | 4 | 99 | 0.989 | 51303 | FK506 binding protein 11, 19 kDa |
| GO | isomerase activity | 4 | 99 | 0.989 | 6916 | thromboxane A synthase 1 (platelet) |
| GO | isomerase activity | 4 | 99 | 0.989 | 81888 | hydroxypyruvate isomerase homolog (E. coli) |
| GO | generation of precursor metabolites | 3 | 55 | 0.989 | 2642 | glucagon receptor |
| GO | generation of precursor metabolites | 3 | 55 | 0.989 | 862 | runt-related transcription factor 1; translocated to, 1 (cyclin D-related) |
| GO | generation of precursor metabolites | 3 | 55 | 0.989 | 9481 | solute carrier family 25, member 27 |
| GO | peptide hormone binding | 1 | 22 | 0.989 | 2642 | glucagon receptor |
| GO | electron transport chain | 4 | 86 | 0.989 | 27035 | NADPH oxidase 1 |
| GO | electron transport chain | 4 | 86 | 0.989 | 55068 | ecto-NOX disulfide-thiol exchanger 1 |

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|---|---|---|---|---|---|---|
| GO | electron transport chain | 4 | 86 | 0.989 | 56605 | ERO1-like beta (S. cerevisiae) |
| GO | electron transport chain | 4 | 86 | 0.989 | 79152 | fatty acid 2-hydroxylase |
| GO | male genitalia development | 1 | 17 | 0.989 | 2706 | gap junction protein, beta 2, 26kDa |
| GO | purine ribonucleoside monophospha | 1 | 17 | 0.989 | 271 | adenosine monophosphate deaminase 2 |
| GO | chemotaxis | 7 | 117 | 0.989 | 27202 | G protein-coupled receptor 77 |
| GO | chemotaxis | 7 | 117 | 0.989 | 2921 | chemokine (C-X-C motif) ligand 3 |
| GO | chemotaxis | 7 | 117 | 0.989 | 3491 | cysteine-rich, angiogenic inducer, 61 |
| GO | chemotaxis | 7 | 117 | 0.989 | 56477 | chemokine (C-C motif) ligand 28 |
| GO | chemotaxis | 7 | 117 | 0.989 | 5724 | platelet-activating factor receptor |
| GO | chemotaxis | 7 | 117 | 0.989 | 6372 | chemokine (C-X-C motif) ligand 6 (granulocyte chemotactic protein 2) |
| GO | chemotaxis | 7 | 117 | 0.989 | 6374 | chemokine (C-X-C motif) ligand 5 |
| GO | neuron apoptosis | 1 | 16 | 0.989 | 27242 | tumor necrosis factor receptor superfamily, member 21 |
| GO | anterior/posterior pattern formation | 4 | 81 | 0.989 | 2737 | GLI family zinc finger 3 |
| GO | anterior/posterior pattern formation | 4 | 81 | 0.989 | 28996 | homeodomain interacting protein kinase 2 |
| GO | anterior/posterior pattern formation | 4 | 81 | 0.989 | 4087 | SMAD family member 2 |
| GO | anterior/posterior pattern formation | 4 | 81 | 0.989 | 7026 | nuclear receptor subfamily 2, group F, member 2 |
| GO | cilium | 2 | 90 | 0.989 | 2737 | GLI family zinc finger 3 |
| GO | cilium | 2 | 90 | 0.989 | 5132 | phosducin |
| GO | embryonic skeletal system morphoge | 2 | 36 | 0.989 | 2737 | GLI family zinc finger 3 |
| GO | embryonic skeletal system morphoge | 2 | 36 | 0.989 | 57453 | Down syndrome cell adhesion molecule like 1 |
| GO | histone deacetylase binding | 2 | 39 | 0.989 | 2737 | GLI family zinc finger 3 |
| GO | histone deacetylase binding | 2 | 39 | 0.989 | 9734 | histone deacetylase 9 |
| GO | mediator complex | 1 | 31 | 0.989 | 2737 | GLI family zinc finger 3 |
| GO | proximal/distal pattern formation | 1 | 22 | 0.989 | 2737 | GLI family zinc finger 3 |
| GO | DNA replication | 3 | 146 | 0.989 | 27434 | polymerase (DNA directed), mu |
| GO | DNA replication | 3 | 146 | 0.989 | 3479 | insulin-like growth factor 1 (somatomedin C) |
| GO | DNA replication | 3 | 146 | 0.989 | 4784 | nuclear factor I/X (CCAAT-binding transcription factor) |
| GO | DNA-directed DNA polymerase activi | 1 | 30 | 0.989 | 27434 | polymerase (DNA directed), mu |
| GO | guanyl nucleotide binding | 1 | 17 | 0.989 | 2769 | guanine nucleotide binding protein (G protein), alpha 15 (Gq class) |
| GO | protein amino acid ADP-ribosylation | 1 | 22 | 0.989 | 2769 | guanine nucleotide binding protein (G protein), alpha 15 (Gq class) |
| GO | cellular iron ion homeostasis | 1 | 24 | 0.989 | 286133 | scavenger receptor class A, member 5 (putative) |
| GO | induction of apoptosis by intracellula | 1 | 15 | 0.989 | 28996 | homeodomain interacting protein kinase 2 |
| GO | protein ubiquitination | 4 | 85 | 0.989 | 29116 | myosin regulatory light chain interacting protein |
| GO | protein ubiquitination | 4 | 85 | 0.989 | 4008 | LIM domain 7 |
| GO | protein ubiquitination | 4 | 85 | 0.989 | 54876 | DDB1 and CUL4 associated factor 16 |
| GO | protein ubiquitination | 4 | 85 | 0.989 | 79872 | Cas-Br-M (murine) ecotropic retroviral transforming sequence-like 1 |

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|---|---|---|---|---|---|---|
| GO | negative regulation of T cell prolifera | 1 | 18 | 0.989 | 29126 | CD274 molecule |
| GO | glutathione transferase activity | 1 | 17 | 0.989 | 2947 | glutathione S-transferase mu 3 (brain) |
| GO | biosynthetic process | 2 | 49 | 0.989 | 3034 | histidine ammonia-lyase |
| GO | biosynthetic process | 2 | 49 | 0.989 | 55304 | serine palmitoyltransferase, long chain base subunit 3 |
| GO | cell division | 6 | 246 | 0.989 | 311 | annexin A11 |
| GO | cell division | 6 | 246 | 0.989 | 3993 | lethal giant larvae homolog 2 (Drosophila) |
| GO | cell division | 6 | 246 | 0.989 | 5218 | cyclin-dependent kinase 14 |
| GO | cell division | 6 | 246 | 0.989 | 57132 | chromatin modifying protein 1B |
| GO | cell division | 6 | 246 | 0.989 | 8556 | CDC14 cell division cycle 14 homolog A (S. cerevisiae) |
| GO | cell division | 6 | 246 | 0.989 | 8900 | cyclin A1 |
| GO | midbody | 1 | 25 | 0.989 | 311 | annexin A11 |
| GO | spindle | 3 | 90 | 0.989 | 311 | annexin A11 |
| GO | spindle | 3 | 90 | 0.989 | 56288 | par-3 partitioning defective 3 homolog (C. elegans) |
| GO | spindle | 3 | 90 | 0.989 | 8556 | CDC14 cell division cycle 14 homolog A (S. cerevisiae) |
| GO | MHC class I protein complex | 1 | 18 | 0.989 | 3134 | major histocompatibility complex, class I, F |
| GO | NAD or NADH binding | 1 | 37 | 0.989 | 316 | aldehyde oxidase 1 |
| GO | positive regulation of mitotic cell cycl | 1 | 16 | 0.989 | 3169 | forkhead box A1 |
| GO | heterogeneous nuclear ribonucleopr | 1 | 15 | 0.989 | 3192 | heterogeneous nuclear ribonucleoprotein U (scaffold attachment fact |
| GO | ribonucleoprotein complex | 1 | 95 | 0.989 | 3192 | heterogeneous nuclear ribonucleoprotein U (scaffold attachment fact |
| GO | spliceosomal complex | 1 | 118 | 0.989 | 3192 | heterogeneous nuclear ribonucleoprotein U (scaffold attachment fact |
| GO | steroid biosynthetic process | 1 | 30 | 0.989 | 3294 | hydroxysteroid (17-beta) dehydrogenase 2 |
| GO | unfolded protein binding | 4 | 103 | 0.989 | 3306 | heat shock 70kDa protein 2 |
| GO | unfolded protein binding | 4 | 103 | 0.989 | 56605 | ERO1-like beta (S. cerevisiae) |
| GO | unfolded protein binding | 4 | 103 | 0.989 | 84277 | DnaJ (Hsp40) homolog, subfamily C, member 30 |
| GO | unfolded protein binding | 4 | 103 | 0.989 | 9804 | translocase of outer mitochondrial membrane 20 homolog (yeast) |
| GO | G1/S transition of mitotic cell cycle | 2 | 42 | 0.989 | 3400 | inhibitor of DNA binding 4, dominant negative helix-loop-helix protein |
| GO | G1/S transition of mitotic cell cycle | 2 | 42 | 0.989 | 91 | activin A receptor, type IB |
| GO | hippocampus development | 1 | 20 | 0.989 | 3400 | inhibitor of DNA binding 4, dominant negative helix-loop-helix protein |
| GO | lipid catabolic process | 5 | 90 | 0.989 | 340654 | lipase, family member M |
| GO | lipid catabolic process | 5 | 90 | 0.989 | 5346 | perilipin 1 |
| GO | lipid catabolic process | 5 | 90 | 0.989 | 57104 | patatin-like phospholipase domain containing 2 |
| GO | lipid catabolic process | 5 | 90 | 0.989 | 7941 | phospholipase A2, group VII (platelet-activating factor acetylhydrolase, |
| GO | lipid catabolic process | 5 | 90 | 0.989 | 79887 | phospholipase B domain containing 1 |
| GO | activation of pro-apoptotic gene proc | 1 | 22 | 0.989 | 3429 | interferon, alpha-inducible protein 27 |
| GO | cilium axoneme | 1 | 26 | 0.989 | 345895 | radial spoke head 4 homolog A (Chlamydomonas) |
| GO | phosphoinositide-mediated signaling | 2 | 33 | 0.989 | 3479 | insulin-like growth factor 1 (somatomedin C) |

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|---|---|---|---|---|---|---|
| GO | phosphoinositide-mediated signaling | 2 | 33 | 0.989 | 5724 | platelet-activating factor receptor |
| GO | Ras protein signal transduction | 4 | 64 | 0.989 | 3479 | insulin-like growth factor 1 (somatomedin C) |
| GO | Ras protein signal transduction | 4 | 64 | 0.989 | 3845 | v-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog |
| GO | Ras protein signal transduction | 4 | 64 | 0.989 | 5900 | ral guanine nucleotide dissociation stimulator |
| GO | Ras protein signal transduction | 4 | 64 | 0.989 | 6239 | ras responsive element binding protein 1 |
| GO | negative regulation of translation | 1 | 18 | 0.989 | 3488 | insulin-like growth factor binding protein 5 |
| GO | acyl-CoA binding | 1 | 15 | 0.989 | 35 | acyl-Coenzyme A dehydrogenase, C-2 to C-3 short chain |
| GO | fatty acid beta-oxidation | 1 | 21 | 0.989 | 35 | acyl-Coenzyme A dehydrogenase, C-2 to C-3 short chain |
| GO | platelet activation | 1 | 24 | 0.989 | 3569 | interleukin 6 (interferon, beta 2) |
| GO | positive regulation of T cell proliferat | 1 | 27 | 0.989 | 3569 | interleukin 6 (interferon, beta 2) |
| GO | brush border | 1 | 22 | 0.989 | 358 | aquaporin 1 (Colton blood group) |
| GO | cytokine receptor activity | 1 | 17 | 0.989 | 3601 | interleukin 15 receptor, alpha |
| GO | endosome membrane | 5 | 92 | 0.989 | 3643 | insulin receptor |
| GO | endosome membrane | 5 | 92 | 0.989 | 3665 | interferon regulatory factor 7 |
| GO | endosome membrane | 5 | 92 | 0.989 | 3949 | low density lipoprotein receptor |
| GO | endosome membrane | 5 | 92 | 0.989 | 55275 | vacuolar protein sorting 53 homolog (S. cerevisiae) |
| GO | endosome membrane | 5 | 92 | 0.989 | 7098 | toll-like receptor 3 |
| GO | negative regulation of gene expressic | 1 | 23 | 0.989 | 3643 | insulin receptor |
| GO | response to activity | 1 | 18 | 0.989 | 3643 | insulin receptor |
| GO | response to tumor necrosis factor | 1 | 17 | 0.989 | 3643 | insulin receptor |
| GO | sarcoplasmic reticulum membrane | 1 | 17 | 0.989 | 3709 | inositol 1,4,5-triphosphate receptor, type 2 |
| GO | nuclear chromatin | 1 | 16 | 0.989 | 3725 | jun oncogene |
| GO | nuclear chromosome | 1 | 23 | 0.989 | 3725 | jun oncogene |
| GO | structural constituent of cytoskeletor | 2 | 73 | 0.989 | 375790 | agrin |
| GO | structural constituent of cytoskeletor | 2 | 73 | 0.989 | 6710 | spectrin, beta, erythrocytic |
| GO | protein secretion | 1 | 16 | 0.989 | 379 | ADP-ribosylation factor-like 4D |
| GO | intracellular membrane-bounded org | 8 | 127 | 0.989 | 3790 | potassium voltage-gated channel, delayed-rectifier, subfamily S, memb |
| GO | intracellular membrane-bounded org | 8 | 127 | 0.989 | 3959 | lectin, galactoside-binding, soluble, 3 binding protein |
| GO | intracellular membrane-bounded org | 8 | 127 | 0.989 | 4209 | myocyte enhancer factor 2D |
| GO | intracellular membrane-bounded org | 8 | 127 | 0.989 | 4582 | mucin 1, cell surface associated |
| GO | intracellular membrane-bounded org | 8 | 127 | 0.989 | 4794 | nuclear factor of kappa light polypeptide gene enhancer in B-cells inhib |
| GO | intracellular membrane-bounded org | 8 | 127 | 0.989 | 54947 | lysophosphatidylcholine acyltransferase 2 |
| GO | intracellular membrane-bounded org | 8 | 127 | 0.989 | 7049 | transforming growth factor, beta receptor III |
| GO | intracellular membrane-bounded org | 8 | 127 | 0.989 | 80763 | chromosome 12 open reading frame 39 |
| GO | transcription | 1 | 69 | 0.989 | 388558 | zinc finger protein 808 |
| GO | focal adhesion assembly | 1 | 15 | 0.989 | 3911 | laminin, alpha 5 |

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|---|---|---|---|---|---|---|
| GO | coated pit | 2 | 41 | 0.989 | 3949 | low density lipoprotein receptor |
| GO | coated pit | 2 | 41 | 0.989 | 9892 | synaptosomal-associated protein, 91kDa homolog (mouse) |
| GO | actin filament | 1 | 28 | 0.989 | 395 | Rho GTPase activating protein 6 |
| GO | regulation of GTPase activity | 1 | 16 | 0.989 | 395 | Rho GTPase activating protein 6 |
| GO | collagen | 1 | 22 | 0.989 | 4015 | lysyl oxidase |
| GO | enzyme activator activity | 1 | 40 | 0.989 | 4056 | leukotriene C4 synthase |
| GO | nuclear outer membrane | 1 | 20 | 0.989 | 4056 | leukotriene C4 synthase |
| GO | gastrulation | 1 | 15 | 0.989 | 4087 | SMAD family member 2 |
| GO | insulin secretion | 1 | 23 | 0.989 | 4087 | SMAD family member 2 |
| GO | protein N-terminus binding | 3 | 72 | 0.989 | 4204 | methyl CpG binding protein 2 (Rett syndrome) |
| GO | protein N-terminus binding | 3 | 72 | 0.989 | 4778 | nuclear factor (erythroid-derived 2), 45kDa |
| GO | protein N-terminus binding | 3 | 72 | 0.989 | 9143 | synaptogyrin 3 |
| GO | cerebral cortex development | 1 | 16 | 0.989 | 429 | achaete-scute complex homolog 1 (Drosophila) |
| GO | muscle contraction | 6 | 97 | 0.989 | 4638 | myosin light chain kinase |
| GO | muscle contraction | 6 | 97 | 0.989 | 6535 | solute carrier family 6 (neurotransmitter transporter, creatine), membe |
| GO | muscle contraction | 6 | 97 | 0.989 | 7170 | tropomyosin 3 |
| GO | muscle contraction | 6 | 97 | 0.989 | 8082 | sarcospan (Kras oncogene-associated gene) |
| GO | muscle contraction | 6 | 97 | 0.989 | 8736 | myomesin 1, 185kDa |
| GO | muscle contraction | 6 | 97 | 0.989 | 8912 | calcium channel, voltage-dependent, T type, alpha 1H subunit |
| GO | myosin complex | 2 | 41 | 0.989 | 4645 | myosin VB |
| GO | myosin complex | 2 | 41 | 0.989 | 51168 | myosin XVA |
| GO | regulation of protein localization | 1 | 18 | 0.989 | 4645 | myosin VB |
| GO | centrosome | 2 | 117 | 0.989 | 4692 | necdin homolog (mouse) |
| GO | centrosome | 2 | 117 | 0.989 | 55762 | zinc finger protein 701 |
| GO | neuron development | 1 | 27 | 0.989 | 4692 | necdin homolog (mouse) |
| GO | 4 iron, 4 sulfur cluster binding | 1 | 25 | 0.989 | 48 | aconitase 1, soluble |
| GO | tricarboxylic acid cycle | 1 | 21 | 0.989 | 48 | aconitase 1, soluble |
| GO | hair follicle morphogenesis | 1 | 16 | 0.989 | 4851 | Notch homolog 1, translocation-associated (Drosophila) |
| GO | cation transport | 2 | 65 | 0.989 | 493 | ATPase, Ca++ transporting, plasma membrane 4 |
| GO | cation transport | 2 | 65 | 0.989 | 9914 | ATPase, Ca++ transporting, type 2C, member 2 |
| GO | nucleotidyltransferase activity | 2 | 71 | 0.989 | 4939 | 2'-5'-oligoadenylate synthetase 2, 69/71kDa |
| GO | nucleotidyltransferase activity | 2 | 71 | 0.989 | 9060 | 3'-phosphoadenosine 5'-phosphosulfate synthase 2 |
| GO | mitochondrial proton-transporting A | 1 | 16 | 0.989 | 498 | ATP synthase, H+ transporting, mitochondrial F1 complex, alpha subun |
| GO | endopeptidase activity | 1 | 15 | 0.989 | 5046 | proprotein convertase subtilisin/kexin type 6 |
| GO | amino acid binding | 1 | 15 | 0.989 | 5053 | phenylalanine hydroxylase |
| GO | cellular amino acid biosynthetic proc | 1 | 24 | 0.989 | 5053 | phenylalanine hydroxylase |

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|---|---|---|---|---|---|---|
| GO | cofactor binding | 1 | 19 | 0.989 | 5053 | phenylalanine hydroxylase |
| GO | acid-amino acid ligase activity | 2 | 34 | 0.989 | 5071 | Parkinson disease (autosomal recessive, juvenile) 2, parkin |
| GO | acid-amino acid ligase activity | 2 | 34 | 0.989 | 7706 | tripartite motif-containing 25 |
| GO | kinase binding | 1 | 27 | 0.989 | 5071 | Parkinson disease (autosomal recessive, juvenile) 2, parkin |
| GO | neuron projection | 2 | 60 | 0.989 | 5071 | Parkinson disease (autosomal recessive, juvenile) 2, parkin |
| GO | neuron projection | 2 | 60 | 0.989 | 6857 | synaptotagmin I |
| GO | protein polyubiquitination | 1 | 25 | 0.989 | 5071 | Parkinson disease (autosomal recessive, juvenile) 2, parkin |
| GO | chromosome | 2 | 135 | 0.989 | 50809 | heterochromatin protein 1, binding protein 3 |
| GO | chromosome | 2 | 135 | 0.989 | 80169 | chromosome 17 open reading frame 68 |
| GO | nucleosome assembly | 1 | 65 | 0.989 | 50809 | heterochromatin protein 1, binding protein 3 |
| GO | nucleosome | 1 | 52 | 0.989 | 50809 | heterochromatin protein 1, binding protein 3 |
| GO | trans-Golgi network | 3 | 51 | 0.989 | 5122 | proprotein convertase subtilisin/kexin type 1 |
| GO | trans-Golgi network | 3 | 51 | 0.989 | 64083 | golgi phosphoprotein 3 (coat-protein) |
| GO | trans-Golgi network | 3 | 51 | 0.989 | 9435 | carbohydrate (N-acetylglucosamine-6-O) sulfotransferase 2 |
| GO | SNAP receptor activity | 1 | 20 | 0.989 | 51272 | blocked early in transport 1 homolog (S. cerevisiae)-like |
| GO | peptidyl-prolyl cis-trans isomerase ac | 1 | 32 | 0.989 | 51303 | FK506 binding protein 11, 19 kDa |
| GO | phototransduction | 1 | 21 | 0.989 | 5132 | phosducin |
| GO | calcium channel activity | 3 | 44 | 0.989 | 53373 | two pore segment channel 1 |
| GO | calcium channel activity | 3 | 44 | 0.989 | 783 | calcium channel, voltage-dependent, beta 2 subunit |
| GO | calcium channel activity | 3 | 44 | 0.989 | 93589 | calcium channel, voltage-dependent, alpha 2/delta subunit 4 |
| GO | microtubule organizing center | 4 | 96 | 0.989 | 53405 | chloride intracellular channel 5 |
| GO | microtubule organizing center | 4 | 96 | 0.989 | 642273 | family with sequence similarity 110, member C |
| GO | microtubule organizing center | 4 | 96 | 0.989 | 8556 | CDC14 cell division cycle 14 homolog A (S. cerevisiae) |
| GO | microtubule organizing center | 4 | 96 | 0.989 | 90362 | family with sequence similarity 110, member B |
| GO | lactation | 1 | 28 | 0.989 | 5367 | pro-melanin-concentrating hormone |
| GO | negative regulation of angiogenesis | 1 | 28 | 0.989 | 5371 | promyelocytic leukemia |
| GO | response to UV | 1 | 30 | 0.989 | 5371 | promyelocytic leukemia |
| GO | sex differentiation | 1 | 23 | 0.989 | 54361 | wingless-type MMTV integration site family, member 4 |
| GO | cis-Golgi network | 1 | 17 | 0.989 | 54463 | family with sequence similarity 134, member B |
| GO | methyltransferase activity | 2 | 106 | 0.989 | 54904 | Wolf-Hirschhorn syndrome candidate 1-like 1 |
| GO | methyltransferase activity | 2 | 106 | 0.989 | 55870 | ash1 (absent, small, or homeotic)-like (Drosophila) |
| GO | N-acetyltransferase activity | 1 | 20 | 0.989 | 55140 | elongation protein 3 homolog (S. cerevisiae) |
| GO | spindle pole | 2 | 50 | 0.989 | 55200 | pleckstrin homology domain containing, family G (with RhoGef domain |
| GO | spindle pole | 2 | 50 | 0.989 | 642273 | family with sequence similarity 110, member C |
| GO | endoplasmic reticulum unfolded prot | 1 | 20 | 0.989 | 55432 | YOD1 OTU deubiquinating enzyme 1 homolog (S. cerevisiae) |
| GO | ubiquitin-specific protease activity | 1 | 28 | 0.989 | 55432 | YOD1 OTU deubiquinating enzyme 1 homolog (S. cerevisiae) |

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|---|---|---|---|---|---|---|
| GO | ATP-dependent helicase activity | 2 | 61 | 0.989 | 55601 | DEAD (Asp-Glu-Ala-Asp) box polypeptide 60 |
| GO | ATP-dependent helicase activity | 2 | 61 | 0.989 | 8653 | DEAD (Asp-Glu-Ala-Asp) box polypeptide 3, Y-linked |
| GO | helicase activity | 5 | 107 | 0.989 | 55601 | DEAD (Asp-Glu-Ala-Asp) box polypeptide 60 |
| GO | helicase activity | 5 | 107 | 0.989 | 64135 | interferon induced with helicase C domain 1 |
| GO | helicase activity | 5 | 107 | 0.989 | 79132 | DEXH (Asp-Glu-X-His) box polypeptide 58 |
| GO | helicase activity | 5 | 107 | 0.989 | 85441 | peroxisomal proliferator-activated receptor A interacting complex 285 |
| GO | helicase activity | 5 | 107 | 0.989 | 8653 | DEAD (Asp-Glu-Ala-Asp) box polypeptide 3, Y-linked |
| GO | filopodium | 1 | 25 | 0.989 | 55740 | enabled homolog (Drosophila) |
| GO | intracellular transport | 1 | 17 | 0.989 | 55740 | enabled homolog (Drosophila) |
| GO | cAMP binding | 1 | 17 | 0.989 | 5577 | protein kinase, cAMP-dependent, regulatory, type II, beta |
| GO | cAMP-dependent protein kinase regu | 1 | 16 | 0.989 | 5577 | protein kinase, cAMP-dependent, regulatory, type II, beta |
| GO | MAPKKK cascade | 1 | 31 | 0.989 | 55816 | docking protein 5 |
| GO | cytokinesis | 1 | 34 | 0.989 | 55909 | bridging integrator 3 |
| GO | cardiac muscle contraction | 1 | 17 | 0.989 | 5608 | mitogen-activated protein kinase kinase 6 |
| GO | anaphase-promoting complex-depen | 3 | 63 | 0.989 | 5696 | proteasome (prosome, macropain) subunit, beta type, 8 (large multifu |
| GO | anaphase-promoting complex-depen | 3 | 63 | 0.989 | 5698 | proteasome (prosome, macropain) subunit, beta type, 9 (large multifu |
| GO | anaphase-promoting complex-depen | 3 | 63 | 0.989 | 5699 | proteasome (prosome, macropain) subunit, beta type, 10 |
| GO | negative regulation of ubiquitin-prot | 3 | 62 | 0.989 | 5696 | proteasome (prosome, macropain) subunit, beta type, 8 (large multifu |
| GO | negative regulation of ubiquitin-prot | 3 | 62 | 0.989 | 5698 | proteasome (prosome, macropain) subunit, beta type, 9 (large multifu |
| GO | negative regulation of ubiquitin-prot | 3 | 62 | 0.989 | 5699 | proteasome (prosome, macropain) subunit, beta type, 10 |
| GO | positive regulation of ubiquitin-prote | 3 | 65 | 0.989 | 5696 | proteasome (prosome, macropain) subunit, beta type, 8 (large multifu |
| GO | positive regulation of ubiquitin-prote | 3 | 65 | 0.989 | 5698 | proteasome (prosome, macropain) subunit, beta type, 9 (large multifu |
| GO | positive regulation of ubiquitin-prote | 3 | 65 | 0.989 | 5699 | proteasome (prosome, macropain) subunit, beta type, 10 |
| GO | proteasome complex | 3 | 56 | 0.989 | 5696 | proteasome (prosome, macropain) subunit, beta type, 8 (large multifu |
| GO | proteasome complex | 3 | 56 | 0.989 | 5698 | proteasome (prosome, macropain) subunit, beta type, 9 (large multifu |
| GO | proteasome complex | 3 | 56 | 0.989 | 5699 | proteasome (prosome, macropain) subunit, beta type, 10 |
| GO | triglyceride lipase activity | 1 | 16 | 0.989 | 57104 | patatin-like phospholipase domain containing 2 |
| GO | late endosome membrane | 1 | 51 | 0.989 | 57132 | chromatin modifying protein 1B |
| GO | protein amino acid N-linked glycosyla | 1 | 15 | 0.989 | 57134 | mannosidase, alpha, class 1C, member 1 |
| GO | ARF guanyl-nucleotide exchange fact | 1 | 17 | 0.989 | 57221 | KIAA1244 |
| GO | regulation of ARF protein signal trans | 1 | 16 | 0.989 | 57221 | KIAA1244 |
| GO | peroxidase activity | 1 | 17 | 0.989 | 5742 | prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase a |
| GO | dephosphorylation | 1 | 21 | 0.989 | 5787 | protein tyrosine phosphatase, receptor type, B |
| GO | embryonic skeletal system developm | 1 | 23 | 0.989 | 5950 | retinol binding protein 4, plasma |
| GO | voltage-gated sodium channel activit | 1 | 15 | 0.989 | 6330 | sodium channel, voltage-gated, type IV, beta |
| GO | metal ion transmembrane transporte | 1 | 16 | 0.989 | 64116 | solute carrier family 39 (zinc transporter), member 8 |

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|---|---|---|---|---|---|---|
| GO | metal ion transport | 1 | 20 | 0.989 | 64116 | solute carrier family 39 (zinc transporter), member 8 |
| GO | zinc ion transport | 1 | 24 | 0.989 | 64116 | solute carrier family 39 (zinc transporter), member 8 |
| GO | defense response to bacterium | 4 | 75 | 0.989 | 64127 | nucleotide-binding oligomerization domain containing 2 |
| GO | defense response to bacterium | 4 | 75 | 0.989 | 7098 | toll-like receptor 3 |
| GO | defense response to bacterium | 4 | 75 | 0.989 | 7099 | toll-like receptor 4 |
| GO | defense response to bacterium | 4 | 75 | 0.989 | 7100 | toll-like receptor 5 |
| GO | positive regulation of protein ubiquit | 1 | 25 | 0.989 | 64127 | nucleotide-binding oligomerization domain containing 2 |
| GO | vesicle | 1 | 17 | 0.989 | 64127 | nucleotide-binding oligomerization domain containing 2 |
| GO | chemoattractant activity | 1 | 15 | 0.989 | 652 | bone morphogenetic protein 4 |
| GO | germ cell development | 1 | 22 | 0.989 | 652 | bone morphogenetic protein 4 |
| GO | growth | 1 | 29 | 0.989 | 652 | bone morphogenetic protein 4 |
| GO | positive regulation of endothelial cell | 2 | 31 | 0.989 | 652 | bone morphogenetic protein 4 |
| GO | positive regulation of endothelial cell | 2 | 31 | 0.989 | 7474 | wingless-type MMTV integration site family, member 5A |
| GO | neurotransmitter transport | 1 | 40 | 0.989 | 6535 | solute carrier family 6 (neurotransmitter transporter, creatine), membe |
| GO | amino acid transport | 1 | 46 | 0.989 | 6542 | solute carrier family 7 (cationic amino acid transporter, y+ system), me |
| GO | SWI/SNF complex | 1 | 15 | 0.989 | 6604 | SWI/SNF related, matrix associated, actin dependent regulator of chro |
| GO | growth cone | 3 | 58 | 0.989 | 6622 | synuclein, alpha (non A4 component of amyloid precursor) |
| GO | growth cone | 3 | 58 | 0.989 | 7170 | tropomyosin 3 |
| GO | growth cone | 3 | 58 | 0.989 | 81544 | glycerophosphodiester phosphodiesterase domain containing 5 |
| GO | keratinization | 1 | 31 | 0.989 | 6706 | small proline-rich protein 2G |
| GO | vesicle docking involved in exocytosis | 1 | 19 | 0.989 | 6812 | syntaxin binding protein 1 |
| GO | mannose binding | 1 | 16 | 0.989 | 682 | basigin (Ok blood group) |
| GO | non-membrane spanning protein tyro | 1 | 40 | 0.989 | 6850 | spleen tyrosine kinase |
| GO | endocytic vesicle membrane | 1 | 22 | 0.989 | 6857 | synaptotagmin I |
| GO | hydrogen peroxide catabolic process | 1 | 16 | 0.989 | 7001 | peroxiredoxin 2 |
| GO | thymus development | 1 | 23 | 0.989 | 7001 | peroxiredoxin 2 |
| GO | response to zinc ion | 1 | 18 | 0.989 | 760 | carbonic anhydrase II |
| GO | C-C chemokine receptor activity | 1 | 16 | 0.989 | 7852 | chemokine (C-X-C motif) receptor 4 |
| GO | cell leading edge | 1 | 17 | 0.989 | 7852 | chemokine (C-X-C motif) receptor 4 |
| GO | DNA fragmentation involved in apopt | 1 | 18 | 0.989 | 79444 | baculoviral IAP repeat-containing 7 |
| GO | base-excision repair | 1 | 19 | 0.989 | 79661 | nei endonuclease VIII-like 1 (E. coli) |
| GO | damaged DNA binding | 1 | 44 | 0.989 | 79661 | nei endonuclease VIII-like 1 (E. coli) |
| GO | nucleotide-excision repair | 1 | 26 | 0.989 | 79661 | nei endonuclease VIII-like 1 (E. coli) |
| GO | iron ion transport | 1 | 22 | 0.989 | 79689 | STEAP family member 4 |
| GO | flagellum | 1 | 19 | 0.989 | 79820 | cation channel, sperm-associated, beta |
| GO | phospholipid transport | 1 | 18 | 0.989 | 79895 | ATPase, class I, type 8B, member 4 |

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|---|---|---|---|---|---|---|
| GO | nuclear chromosome, telomeric regi | 1 | 16 | 0.989 | 80169 | chromosome 17 open reading frame 68 |
| GO | telomere maintenance | 1 | 19 | 0.989 | 80169 | chromosome 17 open reading frame 68 |
| GO | cell adhesion molecule binding | 1 | 15 | 0.989 | 819 | calcium modulating ligand |
| GO | nucleoside metabolic process | 1 | 16 | 0.989 | 8382 | non-metastatic cells 5, protein expressed in (nucleoside-diphosphate k |
| GO | nucleoside-triphosphatase activity | 1 | 59 | 0.989 | 83858 | ATPase family, AAA domain containing 3B |
| GO | protein serine/threonine phosphatas | 1 | 37 | 0.989 | 84919 | protein phosphatase 1, regulatory (inhibitor) subunit 15B |
| GO | estrogen receptor binding | 1 | 15 | 0.989 | 85004 | RAS-like, estrogen-regulated, growth inhibitor |
| GO | diacylglycerol kinase activity | 1 | 15 | 0.989 | 8527 | diacylglycerol kinase, delta 130kDa |
| GO | fertilization | 1 | 17 | 0.989 | 8531 | cold shock domain protein A |
| GO | mRNA 3'-UTR binding | 1 | 17 | 0.989 | 8531 | cold shock domain protein A |
| GO | high-density lipoprotein particle | 1 | 19 | 0.989 | 8542 | apolipoprotein L, 1 |
| GO | very-low-density lipoprotein particle | 1 | 19 | 0.989 | 8542 | apolipoprotein L, 1 |
| GO | T cell receptor signaling pathway | 1 | 22 | 0.989 | 8631 | src kinase associated phosphoprotein 1 |
| GO | endonuclease activity | 1 | 57 | 0.989 | 8635 | ribonuclease T2 |
| GO | gastrulation with mouth forming seco | 1 | 21 | 0.989 | 8646 | chordin |
| GO | positive regulation of cell adhesion | 1 | 20 | 0.989 | 8646 | chordin |
| GO | cellular membrane fusion | 1 | 22 | 0.989 | 8673 | vesicle-associated membrane protein 8 (endobrevin) |
| GO | neuropeptide hormone activity | 1 | 21 | 0.989 | 885 | cholecystokinin |
| GO | mitosis | 1 | 199 | 0.989 | 8900 | cyclin A1 |
| GO | MAP kinase kinase kinase activity | 1 | 15 | 0.989 | 9064 | mitogen-activated protein kinase kinase kinase 6 |
| GO | growth factor binding | 1 | 23 | 0.989 | 91 | activin A receptor, type IB |
| GO | peptidyl-threonine phosphorylation | 1 | 18 | 0.989 | 91 | activin A receptor, type IB |
| GO | neuromuscular junction | 1 | 24 | 0.989 | 9143 | synaptogyrin 3 |
| GO | endosome transport | 1 | 21 | 0.989 | 9182 | Ras association (RalGDS/AF-6) domain family (N-terminal) member 9 |
| GO | thyroid hormone receptor binding | 1 | 25 | 0.989 | 9324 | high mobility group nucleosomal binding domain 3 |
| GO | RNA metabolic process | 1 | 19 | 0.989 | 94059 | leukocyte receptor cluster (LRC) member 9 |
| GO | N-acetylglucosamine metabolic proce | 1 | 15 | 0.989 | 9435 | carbohydrate (N-acetylglucosamine-6-O) sulfotransferase 2 |
| GO | cholesterol binding | 1 | 18 | 0.989 | 9619 | ATP-binding cassette, sub-family G (WHITE), member 1 |
| GO | cholesterol efflux | 1 | 19 | 0.989 | 9619 | ATP-binding cassette, sub-family G (WHITE), member 1 |
| GO | reverse cholesterol transport | 1 | 15 | 0.989 | 9619 | ATP-binding cassette, sub-family G (WHITE), member 1 |
| GO | histone methyltransferase complex | 1 | 17 | 0.989 | 9734 | histone deacetylase 9 |
| GO | phosphoprotein phosphatase inhibito | 1 | 18 | 0.989 | 9749 | phosphatase and actin regulator 2 |
| GO | protein targeting to mitochondrion | 1 | 25 | 0.989 | 9804 | translocase of outer mitochondrial membrane 20 homolog (yeast) |
| GO | regulation of endocytosis | 1 | 15 | 0.989 | 9892 | synaptosomal-associated protein, 91kDa homolog (mouse) |
| GO | male germ cell nucleus | 1 | 15 | 0.989 | 9985 | REC8 homolog (yeast) |
| GO | reciprocal meiotic recombination | 1 | 22 | 0.989 | 9985 | REC8 homolog (yeast) |

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ed, (semaphorin) 3D

ed, (semaphorin) 3B

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