

| ID | Description | GeneRatio | BgRatio | pvalue | p.adjust | qvalue | geneID | Count |
|------------|-----------------------------------|-----------|-----------|-------------|-------------|-------------|-----------------------------|-------|
| GO:0004252 | serine-type endopeptidase act | 16/397 | 160/17696 | 6.51864E-07 | 0.000206609 | 0.000180504 | PRSS8/TMPRSS4/RHBDL2/TMPR | 16 |
| GO:0016825 | hydrolase activity, acting on a | 17/397 | 186/17696 | 1.04348E-06 | 0.000206609 | 0.000180504 | PRSS8/TMPRSS4/RHBDL2/TMPR | 17 |
| GO:0017171 | serine hydrolase activity | 17/397 | 186/17696 | 1.04348E-06 | 0.000206609 | 0.000180504 | PRSS8/TMPRSS4/RHBDL2/TMPR | 17 |
| GO:0098641 | cadherin binding involved in c | 6/397 | 19/17696 | 2.60078E-06 | 0.000386216 | 0.000337417 | BAIAP2L1/PKP3/EPCAM/KRT18/ | 6 |
| GO:0008236 | serine-type peptidase activity | 16/397 | 182/17696 | 3.6021E-06 | 0.000427929 | 0.00037386 | PRSS8/TMPRSS4/RHBDL2/TMPR | 16 |
| GO:0001228 | DNA-binding transcription acti | 26/397 | 439/17696 | 7.26198E-06 | 0.000641614 | 0.000560545 | ELF3/IRF6/KLF5/OVOL2/HNF4G/ | 26 |
| GO:0001216 | DNA-binding transcription acti | 26/397 | 440/17696 | 7.56111E-06 | 0.000641614 | 0.000560545 | ELF3/IRF6/KLF5/OVOL2/HNF4G/ | 26 |
| GO:0098632 | cell-cell adhesion mediator act | 7/397 | 50/17696 | 0.000117946 | 0.008757465 | 0.007650948 | BAIAP2L1/PKP3/EPCAM/KRT18/ | 7 |
| GO:0098631 | cell adhesion mediator activity | 7/397 | 59/17696 | 0.000338871 | 0.022365498 | 0.019539589 | BAIAP2L1/PKP3/EPCAM/KRT18/ | 7 |
| GO:0004175 | endopeptidase activity | 21/397 | 427/17696 | 0.000690307 | 0.041004255 | 0.035823317 | CAPN5/PRSS8/TMPRSS4/RHBDL2 | 21 |
| GO:0005044 | scavenger receptor activity | 6/397 | 51/17696 | 0.000942303 | 0.050884382 | 0.044455078 | TMPRSS4/TMPRSS2/PRSS12/TM | 6 |
| GO:0045296 | cadherin binding | 17/397 | 331/17696 | 0.001375974 | 0.068110722 | 0.059504849 | BAIAP2L1/CGN/PKP3/EPCAM/AR | 17 |
| GO:0140103 | catalytic activity, acting on a g | 4/397 | 23/17696 | 0.001575551 | 0.07199054 | 0.062894446 | B3GNT3/B4GALNT3/GCNT3/ABC | 4 |
| GO:0003779 | actin binding | 20/397 | 431/17696 | 0.001840675 | 0.078097195 | 0.068229518 | BAIAP2L1/MYH14/CGN/MLPH/C | 20 |
| GO:0004620 | phospholipase activity | 8/397 | 102/17696 | 0.002093389 | 0.078401731 | 0.068495576 | LIPH/PLA2G10/PLA2G4F/PLCD3/ | 8 |
| GO:0050839 | cell adhesion molecule binding | 22/397 | 499/17696 | 0.002111831 | 0.078401731 | 0.068495576 | BAIAP2L1/CGN/PKP3/EPCAM/AR | 22 |
| GO:0016298 | lipase activity | 9/397 | 127/17696 | 0.002274962 | 0.079489858 | 0.069446216 | LIPH/PLA2G10/PLA2G4F/PLCD3/ | 9 |
| GO:0004033 | aldo-keto reductase (NADP) ac | 4/397 | 26/17696 | 0.00252273 | 0.080514139 | 0.070341078 | AKR7A3/ALDH3A1/AKR1B10/AKI | 4 |
| GO:0004714 | transmembrane receptor prot | 6/397 | 62/17696 | 0.002617117 | 0.080514139 | 0.070341078 | MST1R/ERBB3/EPHA2/MET/EPH | 6 |
| GO:0016725 | oxidoreductase activity, acting | 3/397 | 13/17696 | 0.002710914 | 0.080514139 | 0.070341078 | CYP3A5/CYP2C9/CYP3A4 | 3 |
| GO:0004864 | protein phosphatase inhibitor | 5/397 | 44/17696 | 0.002931733 | 0.082926165 | 0.072448342 | SH3RF2/PPP1R14D/PPP1R36/PP | 5 |
| GO:0005543 | phospholipid binding | 19/397 | 427/17696 | 0.003752304 | 0.097031824 | 0.084771733 | SDCBP2/PLEK2/PLA2G10/ANXA1 | 19 |
| GO:0008376 | acetylgalactosaminyltransfera | 5/397 | 47/17696 | 0.003920478 | 0.097031824 | 0.084771733 | B3GNT3/GALNT5/B3GALT5/B4G | 5 |
| GO:0019212 | phosphatase inhibitor activity | 5/397 | 47/17696 | 0.003920478 | 0.097031824 | 0.084771733 | SH3RF2/PPP1R14D/PPP1R36/PP | 5 |
| GO:0005523 | tropomyosin binding | 3/397 | 15/17696 | 0.004171608 | 0.099117418 | 0.08659381 | S100A6/NEBL/TNNT2 | 3 |
| GO:0016712 | oxidoreductase activity, acting | 4/397 | 32/17696 | 0.005459913 | 0.124738023 | 0.10897722 | CYP3A5/CYP2C18/CYP2C9/CYP3/ | 4 |
| GO:0005005 | transmembrane-ephrin recept | 3/397 | 17/17696 | 0.00603083 | 0.12951135 | 0.113147431 | EPHA2/EPHB3/EFNA3 | 3 |
| GO:0005154 | epidermal growth factor rece | 4/397 | 33/17696 | 0.006104912 | 0.12951135 | 0.113147431 | CBLC/AGR2/AREG/EREG | 4 |
| GO:0005544 | calcium-dependent phospholi | 5/397 | 53/17696 | 0.006576173 | 0.134698155 | 0.117678878 | ANXA10/PLA2G4F/SYT13/ANXA1 | 5 |
| GO:0004497 | monooxygenase activity | 7/397 | 99/17696 | 0.006902246 | 0.136664473 | 0.119396748 | CYP3A5/CYP2C18/AGMO/CYP2C | 7 |
| GO:0038024 | cargo receptor activity | 6/397 | 76/17696 | 0.007169433 | 0.137375583 | 0.120018009 | TMPRSS4/TMPRSS2/PRSS12/TM | 6 |
| GO:0005003 | ephrin receptor activity | 3/397 | 19/17696 | 0.008313842 | 0.150085668 | 0.131122159 | EPHA2/EPHB3/EFNA3 | 3 |

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|------------|-----------------------------------|--------|-----------|-------------|-------------|-------------|-----------------------------|----|
| GO:0017080 | sodium channel regulator activity | 4/397 | 36/17696 | 0.008338093 | 0.150085668 | 0.131122159 | FXD3/PRSS8/PTPN3/TMPRSS3 | 4 |
| GO:0019199 | transmembrane receptor protein | 6/397 | 79/17696 | 0.008621797 | 0.150627859 | 0.131595844 | MST1R/ERBB3/EPHA2/MET/EPH | 6 |
| GO:0001786 | phosphatidylserine binding | 5/397 | 58/17696 | 0.009590601 | 0.162766196 | 0.142200487 | SCIN/SYT13/ANXA13/SYT8/CD30 | 5 |
| GO:0008395 | steroid hydroxylase activity | 4/397 | 38/17696 | 0.010089538 | 0.166477383 | 0.145442761 | CYP3A5/CYP2C18/CYP2C9/CYP3A | 4 |
| GO:0004713 | protein tyrosine kinase activity | 8/397 | 134/17696 | 0.010762768 | 0.172574386 | 0.1507694 | STYK1/MST1R/PTK6/ERBB3/EPH | 8 |
| GO:0008106 | alcohol dehydrogenase (NADP+) | 3/397 | 21/17696 | 0.011040112 | 0.172574386 | 0.1507694 | ALDH3A1/AKR1B10/AKR1C4 | 3 |
| GO:0048306 | calcium-dependent protein binding | 5/397 | 61/17696 | 0.011794472 | 0.179638881 | 0.156941288 | S100A6/S100P/STX1A/DMBT1/S | 5 |
| GO:0051015 | actin filament binding | 10/397 | 198/17696 | 0.014150178 | 0.210130137 | 0.183579935 | MYH14/CORO2A/PLS1/MISP/VIL | 10 |
| GO:0072341 | modified amino acid binding | 6/397 | 89/17696 | 0.014979981 | 0.217027044 | 0.18960541 | SCIN/SYT13/ANXA13/MGST1/SY | 6 |
| GO:0016247 | channel regulator activity | 8/397 | 144/17696 | 0.016060538 | 0.227141897 | 0.198442239 | FXD3/PRSS8/PTPN3/TMPRSS3/ | 8 |