|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ID** | **Type** | **DE** | **Total** | **p-value** | **GO Term** |
| KEGG: 04350 | Pathway | 4 | 84 | 0.025 | TGF-beta signaling pathway |
| KEGG: 05215 | Pathway | 4 | 86 | 0.025 | Prostate cancer |
| GO: 005102 | Molecular Function | 14 | 1130 | 0.027 | Receptor binding |
|  |  |  |  |  |  |

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| --- | --- | --- | --- | --- |
| GO:0006694 | 6 | 136 | 0.00754 | steroid biosynthetic process |
| GO:0006796 | 22 | 2411 | 0.00754 | phosphate-containing compound metabolic process |
| GO:0007166 | 22 | 2414 | 0.00754 | cell surface receptor signaling pathway |
| GO:0009967 | 13 | 853 | 0.00754 | positive regulation of signal transduction |
| GO:0010646 | 21 | 2156 | 0.00754 | regulation of cell communication |
| GO:0010647 | 13 | 898 | 0.00754 | positive regulation of cell communication |
| GO:0023051 | 21 | 2152 | 0.00754 | regulation of signaling |
| GO:0023056 | 13 | 895 | 0.00754 | positive regulation of signaling |
| GO:0032879 | 18 | 1439 | 0.00754 | regulation of localization |
| GO:0050673 | 8 | 249 | 0.00754 | epithelial cell proliferation |
| GO:0006793 | 22 | 2457 | 0.00789 | phosphorus metabolic process |
| GO:0030334 | 9 | 406 | 0.00789 | regulation of cell migration |
| GO:0031649 | 3 | 13 | 0.00789 | heat generation |
| GO:0045834 | 5 | 97 | 0.01064 | positive regulation of lipid metabolic process |
| GO:2000145 | 9 | 429 | 0.01064 | regulation of cell motility |
| GO:0006468 | 14 | 1126 | 0.01322 | protein phosphorylation |
| GO:0045940 | 3 | 19 | 0.01322 | positive regulation of steroid metabolic process |
| GO:2001237 | 4 | 50 | 0.01322 | negative regulation of extrinsic apoptotic signaling pathway |
| GO:0040012 | 9 | 463 | 0.01446 | regulation of locomotion |
| GO:0070887 | 18 | 1892 | 0.01446 | cellular response to chemical stimulus |
| GO:0001503 | 7 | 281 | 0.01965 | ossification |
| GO:0048584 | 14 | 1247 | 0.01965 | positive regulation of response to stimulus |
| GO:0043567 | 3 | 22 | 0.01971 | regulation of insulin-like growth factor receptor signaling pathway |
| GO:0048660 | 4 | 66 | 0.01971 | regulation of smooth muscle cell proliferation |
| GO:0051270 | 9 | 490 | 0.01971 | regulation of cellular component movement |
| GO:0009966 | 18 | 1916 | 0.0199 | regulation of signal transduction |
| GO:0019218 | 4 | 65 | 0.0199 | regulation of steroid metabolic process |
| GO:0048659 | 4 | 69 | 0.0211 | smooth muscle cell proliferation |
| GO:0008610 | 9 | 557 | 0.02149 | lipid biosynthetic process |
| GO:0016310 | 14 | 1269 | 0.02149 | phosphorylation |
| GO:0019220 | 14 | 1261 | 0.02149 | regulation of phosphate metabolic process |
| GO:0046165 | 5 | 134 | 0.02149 | alcohol biosynthetic process |
| GO:0051174 | 14 | 1274 | 0.02149 | regulation of phosphorus metabolic process |
| GO:0051897 | 4 | 66 | 0.02149 | positive regulation of protein kinase B signaling cascade |
| GO:0019216 | 6 | 214 | 0.02246 | regulation of lipid metabolic process |
| GO:0001932 | 11 | 826 | 0.02325 | regulation of protein phosphorylation |
| GO:0030336 | 5 | 129 | 0.02543 | negative regulation of cell migration |
| GO:0043570 | 2 | 4 | 0.02569 | maintenance of DNA repeat elements |
| GO:0001659 | 3 | 28 | 0.0264 | temperature homeostasis |
| GO:0071462 | 2 | 4 | 0.0264 | cellular response to water stimulus |
| GO:2000026 | 13 | 1152 | 0.0264 | regulation of multicellular organismal development |
| GO:2000146 | 5 | 132 | 0.0264 | negative regulation of cell motility |
| GO:0051271 | 5 | 137 | 0.02904 | negative regulation of cellular component movement |
| GO:0006066 | 7 | 349 | 0.03104 | alcohol metabolic process |
| GO:0051239 | 17 | 1915 | 0.03209 | regulation of multicellular organismal process |
| GO:0008202 | 6 | 262 | 0.03249 | steroid metabolic process |
| GO:0016477 | 11 | 858 | 0.03249 | cell migration |
| GO:0042325 | 11 | 882 | 0.03249 | regulation of phosphorylation |
| GO:2001234 | 4 | 86 | 0.03249 | negative regulation of apoptotic signaling pathway |
| GO:0048583 | 20 | 2536 | 0.03339 | regulation of response to stimulus |
| GO:0001660 | 2 | 7 | 0.03436 | fever generation |
| GO:0010648 | 10 | 749 | 0.03436 | negative regulation of cell communication |
| GO:0023057 | 10 | 747 | 0.03436 | negative regulation of signaling |
| GO:0031620 | 2 | 7 | 0.03436 | regulation of fever generation |
| GO:0031622 | 2 | 7 | 0.03436 | positive regulation of fever generation |
| GO:0040013 | 5 | 151 | 0.03436 | negative regulation of locomotion |
| GO:0051345 | 8 | 476 | 0.03436 | positive regulation of hydrolase activity |
| GO:2001236 | 4 | 88 | 0.03436 | regulation of extrinsic apoptotic signaling pathway |
| GO:0030282 | 4 | 87 | 0.0362 | bone mineralization |
| GO:0051336 | 10 | 777 | 0.0362 | regulation of hydrolase activity |
| GO:0051716 | 31 | 5138 | 0.0362 | cellular response to stimulus |
| GO:1901617 | 5 | 172 | 0.0362 | organic hydroxy compound biosynthetic process |
| GO:0010740 | 8 | 500 | 0.03646 | positive regulation of intracellular protein kinase cascade |
| GO:0042221 | 21 | 2889 | 0.03842 | response to chemical stimulus |
| GO:0044281 | 19 | 2566 | 0.03947 | small molecule metabolic process |
| GO:0002118 | 2 | 8 | 0.04032 | aggressive behavior |
| GO:0009415 | 2 | 7 | 0.04032 | response to water stimulus |
| GO:0009893 | 17 | 2044 | 0.04032 | positive regulation of metabolic process |
| GO:0048009 | 3 | 35 | 0.04032 | insulin-like growth factor receptor signaling pathway |
| GO:0048518 | 24 | 3547 | 0.04032 | positive regulation of biological process |
| GO:0051896 | 4 | 93 | 0.04032 | regulation of protein kinase B signaling cascade |
| GO:0048870 | 11 | 928 | 0.04156 | cell motility |
| GO:0051674 | 11 | 928 | 0.04156 | localization of cell |
| GO:0007178 | 6 | 272 | 0.04287 | transmembrane receptor protein serine/threonine kinase signaling pathway |
| GO:0046890 | 4 | 98 | 0.04287 | regulation of lipid biosynthetic process |
| GO:0051246 | 14 | 1523 | 0.04325 | regulation of protein metabolic process |
| GO:1901701 | 9 | 658 | 0.04373 | cellular response to oxygen-containing compound |
| GO:0048522 | 22 | 3149 | 0.04472 | positive regulation of cellular process |
| GO:0008283 | 14 | 1546 | 0.04474 | cell proliferation |
| GO:0031652 | 2 | 9 | 0.04539 | positive regulation of heat generation |
| GO:0071230 | 3 | 37 | 0.04539 | cellular response to amino acid stimulus |
| GO:0046889 | 3 | 44 | 0.04658 | positive regulation of lipid biosynthetic process |
| GO:0033002 | 4 | 105 | 0.0472 | muscle cell proliferation |
| GO:0044283 | 7 | 439 | 0.04773 | small molecule biosynthetic process |
| GO:0044710 | 21 | 3095 | 0.04865 | single-organism metabolic process |