**Supplementary Table 3.** Functional enrichment analysis of genes positively related to TK2 in cervical cancer

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Category** | **Description** | **GeneRatio** | **p.adjust** | **q-value** | **Count** |
| GO:0001655 | BP | urogenital system development | 33/488 | 6.37E-08 | 5.03E-08 | 33 |
| GO:0072001 | BP | renal system development | 29/488 | 7.22E-07 | 5.70E-07 | 29 |
| GO:0001763 | BP | morphogenesis of a branching structure | 23/488 | 7.22E-07 | 5.70E-07 | 23 |
| GO:0061138 | BP | morphogenesis of a branching epithelium | 22/488 | 7.22E-07 | 5.70E-07 | 22 |
| GO:0048754 | BP | branching morphogenesis of an epithelial tube | 20/488 | 7.22E-07 | 5.70E-07 | 20 |
| GO:0062023 | CC | collagen-containing extracellular matrix | 39/507 | 3.31E-09 | 2.72E-09 | 39 |
| GO:0042383 | CC | sarcolemma | 16/507 | 8.82E-05 | 7.25E-05 | 16 |
| GO:0014069 | CC | postsynaptic density | 24/507 | 0.000355 | 0.000292 | 24 |
| GO:0032279 | CC | asymmetric synapse | 24/507 | 0.000355 | 0.000292 | 24 |
| GO:0099572 | CC | postsynaptic specialization | 24/507 | 0.000623 | 0.000512 | 24 |
| GO:0005201 | MF | extracellular matrix structural constituent | 18/488 | 0.000506 | 0.000451 | 18 |
| GO:0008013 | MF | beta-catenin binding | 11/488 | 0.004238 | 0.003777 | 11 |
| GO:0043548 | MF | phosphatidylinositol 3-kinase binding | 7/488 | 0.004238 | 0.003777 | 7 |
| GO:0004879 | MF | nuclear receptor activity | 8/488 | 0.008079 | 0.0072 | 8 |
| GO:0098531 | MF | ligand-activated transcription factor activity | 8/488 | 0.008079 | 0.0072 | 8 |
| hsa04820 | KEGG | Cytoskeleton in muscle cells | 23/256 | 6.38E-05 | 4.37E-05 | 23 |
| hsa04510 | KEGG | Focal adhesion | 19/256 | 0.000878 | 0.000601 | 19 |
| hsa05412 | KEGG | Arrhythmogenic right ventricular cardiomyopathy | 11/256 | 0.00247 | 0.001691 | 11 |
| hsa04310 | KEGG | Wnt signaling pathway | 16/256 | 0.00247 | 0.001691 | 16 |
| hsa04910 | KEGG | Insulin signaling pathway | 14/256 | 0.00247 | 0.001691 | 14 |