**Supplementary Table 2.** Functional enrichment analysis of genes negatively related to TK1 in cervical cancer

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| --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Category** | **Description** | **GeneRatio** | **p.adjust** | **q-value** | **Count** |
| GO:0007156 | BP | homophilic cell adhesion via plasma membrane adhesion molecules | 19/334 | 1.30E-08 | 1.06E-08 | 19 |
| GO:0098742 | BP | cell-cell adhesion via plasma-membrane adhesion molecules | 22/334 | 8.36E-07 | 6.83E-07 | 22 |
| GO:0048667 | BP | cell morphogenesis involved in neuron differentiation | 31/334 | 5.89E-06 | 4.81E-06 | 31 |
| GO:0050808 | BP | synapse organization | 25/334 | 9.17E-05 | 7.49E-05 | 25 |
| GO:0061564 | BP | axon development | 26/334 | 0.000150044 | 0.000122558 | 26 |
| GO:0031012 | CC | extracellular matrix | 30/336 | 6.08E-07 | 4.98E-07 | 30 |
| GO:0062023 | CC | collagen-containing extracellular matrix | 27/336 | 6.42E-07 | 5.26E-07 | 27 |
| GO:0097060 | CC | synaptic membrane | 21/336 | 0.001110305 | 0.000909022 | 21 |
| GO:0044420 | CC | extracellular matrix component | 7/336 | 0.001528481 | 0.001251388 | 7 |
| GO:0045211 | CC | postsynaptic membrane | 17/336 | 0.002006181 | 0.001642488 | 17 |
| GO:0005201 | MF | extracellular matrix structural constituent | 15/334 | 0.000238769 | 0.000209926 | 15 |
| GO:0030594 | MF | neurotransmitter receptor activity | 10/334 | 0.001062708 | 0.000934333 | 10 |
| GO:0008201 | MF | heparin binding | 13/334 | 0.001062708 | 0.000934333 | 13 |
| GO:0005539 | MF | glycosaminoglycan binding | 15/334 | 0.001062708 | 0.000934333 | 15 |
| GO:0004970 | MF | ionotropic glutamate receptor activity | 5/334 | 0.001738927 | 0.001528865 | 5 |
| hsa05168 | KEGG | Herpes simplex virus 1 infection | 32/180 | 7.86E-06 | 6.68E-06 | 32 |
| hsa04020 | KEGG | Calcium signaling pathway | 20/180 | 3.29E-05 | 2.80E-05 | 20 |
| hsa04022 | KEGG | cGMP-PKG signaling pathway | 14/180 | 0.001323174 | 0.001124965 | 14 |
| hsa04151 | KEGG | PI3K-Akt signaling pathway | 20/180 | 0.005620681 | 0.004778717 | 20 |
| hsa04014 | KEGG | Ras signaling pathway | 15/180 | 0.008028306 | 0.006825685 | 15 |