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| **Table S1****Top 20 with combined score that the PPI of PKP3 co-expression genes in ovarian cancer.** |
| **ID** | **String** | **GEPIA** |
| **#node1** | **node2** | **node1 string internal id** | **node2 string internal id** | **homology** | **coexpression** | **Experimentally determined interaction** | **Automated textmining** | **Combined score** | **R** | ***P* value** |
| 1 | PKP3 | DSG2 | 1851375 | 1844942 | 0 | 0.054 | 0.528 | 0.517 | 0.766 | 0.2 | < 0.001 |
| 2 | PKP3 | DSG1 | 1851375 | 1844491 | 0 | 0.047 | 0.528 | 0.515 | 0.763 | 0.28 | < 0.001 |
| 3 | PKP3 | DSG3 | 1851375 | 1844490 | 0 | 0.084 | 0.528 | 0.491 | 0.762 | 0.28 | < 0.001 |
| 4 | DSC3 | PKP3 | 1854004 | 1851375 | 0 | 0.06 | 0.528 | 0.393 | 0.708 | 0.22 | < 0.001 |
| 5 | PKP3 | DSC2 | 1851375 | 1846694 | 0 | 0.086 | 0.528 | 0.367 | 0.704 | 0.37 | < 0.001 |
| 6 | DSP | PKP3 | 1857096 | 1851375 | 0 | 0.138 | 0.359 | 0.505 | 0.703 | 0.45 | < 0.001 |
| 7 | PKP3 | JUP | 1851375 | 1849380 | 0 | 0.153 | 0.459 | 0.369 | 0.687 | 0.53 | < 0.001 |
| 8 | PKP3 | DSC1 | 1851375 | 1844492 | 0 | 0.06 | 0.528 | 0.326 | 0.675 | 0.12 | 0.006 |
| 9 | DCHS2 | PKP3 | 1853491 | 1851375 | 0 | 0.085 | 0.602 | 0.148 | 0.662 | 0.054 | 0.23 |
| 10 | FAT4 | PKP3 | 1858183 | 1851375 | 0 | 0.085 | 0.602 | 0.148 | 0.662 | -0.39 | < 0.001 |
| 11 | PKP3 | CDH1 | 1851375 | 1844988 | 0 | 0.316 | 0.295 | 0.304 | 0.635 | 0.5 | < 0.001 |
| 12 | ZEB1 | PKP3 | 1854128 | 1851375 | 0 | 0 | 0 | 0.624 | 0.624 | -0.35 | < 0.001 |
| 13 | SFN | PKP3 | 1852398 | 1851375 | 0 | 0.238 | 0.086 | 0.459 | 0.591 | 0.36 | < 0.001 |
| 14 | PPL | PKP3 | 1852335 | 1851375 | 0 | 0.5 | 0 | 0.205 | 0.586 | 0.46 | < 0.001 |
| 15 | PKP3 | ARMC3 | 1851375 | 1847921 | 0 | 0 | 0 | 0.573 | 0.573 | 0.26 | < 0.001 |
| 16 | PKP3 | CDH17 | 1851375 | 1842198 | 0 | 0.047 | 0.295 | 0.366 | 0.536 | 0.013 | 0.76 |
| 17 | PKP3 | SEZ6L2 | 1851375 | 1849545 | 0 | 0 | 0 | 0.51 | 0.51 | 0.26 | < 0.001 |
| 18 | CTNNB1 | PKP3 | 1852818 | 1851375 | 0 | 0.06 | 0.192 | 0.402 | 0.506 | -0.005 | 0.91 |
| 19 | PKP3 | FBXO7 | 1851375 | 1845857 | 0 | 0 | 0 | 0.504 | 0.504 | 0.061 | 0.17 |
| 20 | PKP3 | CDH3 | 1851375 | 1845457 | 0 | 0.269 | 0.295 | 0.104 | 0.497 | -0.084 | 0.057 |