**Supplementary Table 2**. Ten genes identified by gene co-expression network with degree, betweenness centrality, and k-core value

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Gene symbol | Gene Title | Degree | Betweenness  Centrality | k-core |
| Pik3r1 | phosphoinositide-3-kinase regulatory subunit 1 | 26 | 0.034003726 | 8 |
| Pik3r5 | phosphoinositide-3-kinase regulatory subunit 5 | 26 | 0.029969106 | 8 |
| Pik3cg | phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit gamma | 25 | 0.029669981 | 8 |
| Pik3cd | phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit delta | 25 | 0.032424374 | 8 |
| Plcb1 | phospholipase C beta 1 | 24 | 0.075079978 | 8 |
| Plcg1 | phospholipase C gamma 1 | 21 | 0.088140522 | 8 |
| Prkaca | protein kinase cAMP-activated catalytic subunit alpha | 19 | 0.048988348 | 8 |
| Nras | NRAS proto-oncogene, GTPase | 17 | 0.039932909 | 8 |
| Prkcb | protein kinase C beta | 17 | 0.070327033 | 8 |
| Prkca | protein kinase C alpha | 16 | 0.061078437 | 8 |