**Table S14: Signaling pathways controlled by genes correlated with tumor stages**

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| --- | --- | --- | --- | --- |
| **ID** | **Gene Name** | **KEGG\_PATHWAY** | **BBID\_PATHWAY** | **BIOCARTA\_PATHWAY** |
| KAT2B | K(lysine) acetyltransferase 2B | Notch signaling pathway | Nuclear Receptor Coactivator Complex | hpcaf pathwayhrarrxr pathwayh\_ vdr pathway |
| CDKN1B | cyclin-dependent kinase inhibitor 1B (p27, Kip1) | ErbB signaling pathway, Cell cycle, Pathways in cancer | RB phosphor E2F, cyclin-CDK\_complexes, cyclins & p27\_cell cycle, G1-phase progression by Myc, Ubiquitination Pathways Cell Cycle | hcell cycle pathwayhctcf pathwayhg1 pathwayhmcm pathwayhp27 pathwayhpten pathwayhRac CycD pathway |
| MAP4K4 | mitogen-activated protein kinase kinase kinase kinase 4 | MAPK signaling pathway |  | hmapk pathway |
| RRM2B | ribonucleotide reductase M2 B (TP53 inducible) | Purine metabolism, Pyrimidine metabolism, Glutathione metabolism, p53 signaling pathway |  |  |
| SLC2A4 | solute carrier family 2 (facilitated glucose transporter), member 4 | Insulin signaling pathway, Adipocytokine signaling pathway, Type II diabetes mellitus |  | hgh pathwayh\_insulin pathwayhpgc1a pathway |
| ZMAT3 | zinc finger, matrin type 3 | p53 signaling pathway |  |  |