

GeDiPNet Cluster 605 -- Enriched Pathways

Pathway enrichment: KEGG + Reactome, upper-tail hypergeometric test, Benjamini-Hochberg FDR-corrected. Fold enrichment = (overlap / cluster gene count) / (pathway gene count / universe size). Top 15 pathways per cluster by q-value. See [scripts/build_cluster_enrichment.php](scripts/build_cluster_enrichment.php) on gedipnet.bicnirrh.res.in. Data as of: 2026-10-20 03:30:09. · Rows: 15 · Generated: 2026-10-20 00:03:53

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
APC truncation mutants have impaired AXIN binding	Reactome	4	PPP2R5D, PPP2R1A, PPP2CA, PPP2R5C	14	4	857.86	1.155e-12	2.171e-10
AXIN missense mutants destabilize the destruction complex	Reactome	4	PPP2R5D, PPP2R1A, PPP2CA, PPP2R5C	14	4	857.86	1.155e-12	2.171e-10
Truncations of AMER1 destabilize the destruction complex	Reactome	4	PPP2R5D, PPP2R1A, PPP2CA, PPP2R5C	14	4	857.86	1.155e-12	2.171e-10
Misspliced GSK3beta mutants stabilize beta-catenin	Reactome	4	PPP2R5D, PPP2R1A, PPP2CA, PPP2R5C	15	4	800.67	1.575e-12	2.859e-10
S33 mutants of beta-catenin aren't phosphorylated	Reactome	4	PPP2R5D, PPP2R1A, PPP2CA, PPP2R5C	15	4	800.67	1.575e-12	2.859e-10
S37 mutants of beta-catenin aren't phosphorylated	Reactome	4	PPP2R5D, PPP2R1A, PPP2CA, PPP2R5C	15	4	800.67	1.575e-12	2.859e-10
S45 mutants of beta-catenin aren't phosphorylated	Reactome	4	PPP2R5D, PPP2R1A, PPP2CA, PPP2R5C	15	4	800.67	1.575e-12	2.859e-10
T41 mutants of beta-catenin aren't phosphorylated	Reactome	4	PPP2R5D, PPP2R1A, PPP2CA, PPP2R5C	15	4	800.67	1.575e-12	2.859e-10
Beta-catenin phosphorylation cascade	Reactome	4	PPP2R5D, PPP2R1A, PPP2CA, PPP2R5C	17	4	706.47	2.747e-12	4.711e-10
Platelet sensitization by LDL	Reactome	4	PPP2R5D, PPP2R1A, PPP2CA, PPP2R5C	17	4	706.47	2.747e-12	4.711e-10
CTLA4 inhibitory signaling	Reactome	4	PPP2R5D, PPP2R1A, PPP2CA, PPP2R5C	21	4	571.90	6.907e-12	1.088e-9
Disassembly of the destruction complex and recruitment of AXIN to the membrane	Reactome	4	PPP2R5D, PPP2R1A, PPP2CA, PPP2R5C	30	4	400.33	3.163e-11	4.269e-9
RAF activation	Reactome	4	PPP2R5D, PPP2R1A, PPP2CA, PPP2R5C	32	4	375.31	4.150e-11	5.441e-9
Negative regulation of MAPK pathway	Reactome	4	PPP2R5D, PPP2R1A, PPP2CA, PPP2R5C	38	4	316.05	8.519e-11	1.017e-8
Degradation of beta-catenin by the destruction complex	Reactome	4	PPP2R5D, PPP2R1A, PPP2CA, PPP2R5C	69	4	174.06	9.977e-10	9.319e-8