

GeDiPNet Cluster 321 -- 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](#) on [gedipnet.bicnirrh.res.in](#). Data as of: 2026-10-07 03:30:09. · Rows: 15 · Generated: 2026-10-07 13:51:39

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
PI3K Cascade	Reactome	3	FGF10, FGFR2, FGFR3	39	5	184.77	3.152e-7	1.789e-5
Constitutive Signaling by Aberrant PI3K in Cancer	Reactome	3	FGF10, FGFR2, FGFR3	75	5	96.08	2.318e-6	1.001e-4
PIP3 activates AKT signaling	Reactome	3	FGF10, FGFR2, FGFR3	93	5	77.48	4.445e-6	1.725e-4
PI5P, PP2A and IER3 Regulate PI3K/AKT Signaling	Reactome	3	FGF10, FGFR2, FGFR3	103	5	69.96	6.051e-6	2.205e-4
FGFR2b ligand binding and activation	Reactome	2	FGF10, FGFR2	10	5	480.40	6.232e-6	2.256e-4
RAF/MAP kinase cascade	Reactome	3	FGF10, FGFR2, FGFR3	124	5	58.11	1.058e-5	3.516e-4
Activated point mutants of FGFR2	Reactome	2	FGF10, FGFR2	17	5	282.59	1.881e-5	5.705e-4
Phospholipase C-mediated cascade; FGFR2	Reactome	2	FGF10, FGFR2	18	5	266.89	2.116e-5	6.272e-4
PI-3K cascade:FGFR2	Reactome	2	FGF10, FGFR2	23	5	208.87	3.496e-5	9.503e-4
SHC-mediated cascade:FGFR2	Reactome	2	FGF10, FGFR2	23	5	208.87	3.496e-5	9.503e-4
FRS-mediated FGFR2 signaling	Reactome	2	FGF10, FGFR2	25	5	192.16	4.144e-5	1.097e-3
Negative regulation of FGFR2 signaling	Reactome	2	FGF10, FGFR2	27	5	177.93	4.847e-5	1.245e-3
Signaling by FGFR2 in disease	Reactome	2	FGF10, FGFR2	27	5	177.93	4.847e-5	1.245e-3
Rap1 signaling pathway	KEGG	3	FGF10, FGFR2, FGFR3	211	5	34.15	5.209e-5	1.323e-3
Regulation of actin cytoskeleton	KEGG	3	FGF10, FGFR2, FGFR3	232	5	31.06	6.915e-5	1.657e-3