

GeDiPNet Cluster 351 -- 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 20:46:20

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
FGFR1c and Klotho ligand binding and activation	Reactome	2	KL, FGF23	3	4	2001.67	2.496e-7	1.451e-5
FGFR3c ligand binding and activation	Reactome	2	FGF23, GALNT3	13	4	461.92	6.482e-6	2.330e-4
Phospholipase C-mediated cascade: FGFR1	Reactome	2	KL, FGF23	16	4	375.31	9.969e-6	3.342e-4
Downstream signaling of activated FGFR1	Reactome	2	KL, FGF23	18	4	333.61	1.271e-5	4.102e-4
PI-3K cascade:FGFR1	Reactome	2	KL, FGF23	21	4	285.95	1.744e-5	5.340e-4
SHC-mediated cascade:FGFR1	Reactome	2	KL, FGF23	21	4	285.95	1.744e-5	5.340e-4
FRS-mediated FGFR1 signaling	Reactome	2	KL, FGF23	23	4	261.09	2.100e-5	6.238e-4
Negative regulation of FGFR1 signaling	Reactome	2	KL, FGF23	26	4	230.96	2.697e-5	7.617e-4
PI3K Cascade	Reactome	2	KL, FGF23	39	4	153.97	6.140e-5	1.507e-3
Constitutive Signaling by Aberrant PI3K in Cancer	Reactome	2	KL, FGF23	75	4	80.07	2.290e-4	4.353e-3
PIP3 activates AKT signaling	Reactome	2	KL, FGF23	93	4	64.57	3.523e-4	6.085e-3
PI5P, PP2A and IER3 Regulate PI3K/AKT Signaling	Reactome	2	KL, FGF23	103	4	58.30	4.322e-4	7.110e-3
Parathyroid hormone synthesis, secretion and action	KEGG	2	KL, FGF23	115	4	52.22	5.386e-4	8.437e-3
RAF/MAP kinase cascade	Reactome	2	KL, FGF23	124	4	48.43	6.259e-4	9.510e-3
Signaling by activated point mutants of FGFR1	Reactome	1	FGF23	11	4	272.95	3.659e-3	3.541e-2