

GeDiPNet Cluster 38 -- 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 10:55:29

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
Pathways in cancer	KEGG	11	FGFR2, PRKACB, PRKACA, ESR1, DCC, GADD45G, RASSF5, VEGFA, FGFR1, TERT, TP53	533	80	3.10	7.718e-4	1.119e-2
CREB1 phosphorylation through the activation of Adenylate Cyclase	Reactome	2	PRKACB, PRKACA	7	80	42.89	9.005e-4	1.254e-2
HDL assembly	Reactome	2	PRKACB, PRKACA	8	80	37.53	1.195e-3	1.548e-2
Oncogene Induced Senescence	Reactome	3	ERF, MDM4, TP53	33	80	13.65	1.345e-3	1.692e-2
Stabilization of p53	Reactome	2	MDM4, TP53	11	80	27.30	2.318e-3	2.546e-2
Proteoglycans in cancer	KEGG	6	PRKACB, PRKACA, ESR1, VEGFA, FGFR1, TP53	204	80	4.42	2.362e-3	2.578e-2
Rap1 signaling pathway	KEGG	6	FGFR2, ARAP3, PFN2, RASSF5, VEGFA, FGFR1	211	80	4.27	2.795e-3	2.922e-2
MAPK signaling pathway	KEGG	7	FGFR2, PRKACB, PRKACA, GADD45G, VEGFA, FGFR1, TP53	299	80	3.51	3.719e-3	3.585e-2
Endocrine resistance	KEGG	4	PRKACB, PRKACA, ESR1, TP53	99	80	6.07	4.257e-3	3.938e-2
Factors involved in megakaryocyte development and platelet production	Reactome	4	PRKACB, PRKACA, RAD51B, DOCK2	99	80	6.07	4.257e-3	3.938e-2
TFAP2 (AP-2) family regulates transcription of growth factors and their receptors	Reactome	2	ESR1, VEGFA	15	80	20.02	4.349e-3	3.997e-2
Ras signaling pathway	KEGG	6	FGFR2, PRKACB, PRKACA, RASSF5, VEGFA, FGFR1	237	80	3.80	4.937e-3	4.355e-2
Rap1 signalling	Reactome	2	PRKACB, PRKACA	16	80	18.77	4.949e-3	4.363e-2
Regulation of insulin secretion	Reactome	2	PRKACB, PRKACA	16	80	18.77	4.949e-3	4.363e-2
Nuclear Receptor transcription pathway	Reactome	3	ESR1, ESRRG, NR2F6	52	80	8.66	4.974e-3	4.365e-2