

GeDiPNet Cluster 574 -- 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: 2026-10-20 03:30:09. · Rows: 15 · Generated: 2026-10-20 00:02:42

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
Parathyroid hormone synthesis, secretion and action	KEGG	6	VDR, GCM2, PTH, CASR, MAFB, PTH1R	115	20	31.33	2.349e-8	1.573e-6
PTK6 Regulates Cell Cycle	Reactome	2	CCND1, CDKN1B	6	20	200.17	3.936e-5	9.033e-4
Endocrine and other factor-regulated calcium reabsorption	KEGG	3	VDR, PTH, PTH1R	53	20	33.99	8.773e-5	1.711e-3
Class B/2 (Secretin family receptors)	Reactome	2	PTH, PTH1R	18	20	66.72	3.967e-4	5.586e-3
Rheumatoid arthritis	KEGG	3	PTH, ACP5, IL6	95	20	18.96	4.958e-4	6.640e-3
AGE-RAGE signaling pathway in diabetic complications	KEGG	3	CCND1, CDKN1B, IL6	101	20	17.84	5.931e-4	7.616e-3
Estrogen-dependent nuclear events downstream of ESR-membrane signaling	Reactome	2	CCND1, CDKN1B	23	20	52.22	6.527e-4	8.196e-3
Post-translational protein phosphorylation	Reactome	3	MEN1, APOL1, IL6	108	20	16.68	7.212e-4	8.846e-3
Regulation of Insulin-like Growth Factor (IGF) transport and uptake by Insulin-like Growth Factor Binding Proteins (IGFBPs)	Reactome	3	MEN1, APOL1, IL6	125	20	14.41	1.102e-3	1.220e-2
ADORA2B mediated anti-inflammatory cytokines production	Reactome	3	PTH, PTH1R, IL6	128	20	14.07	1.181e-3	1.285e-2
FoxO signaling pathway	KEGG	3	CCND1, CDKN1B, IL6	133	20	13.55	1.319e-3	1.400e-2
Measles	KEGG	3	CCND1, CDKN1B, IL6	139	20	12.96	1.497e-3	1.536e-2
African trypanosomiasis	KEGG	2	APOL1, IL6	37	20	32.46	1.694e-3	1.686e-2
Transcriptional Regulation by VENTX	Reactome	2	CCND1, IL6	38	20	31.61	1.787e-3	1.752e-2
Cushing syndrome	KEGG	3	MEN1, CCND1, CDKN1B	155	20	11.62	2.046e-3	1.933e-2