

GeDiPNet Cluster 268 -- 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: 2026-10-09 03:30:08. · Rows: 15 · Generated: 2026-10-09 08:03:52

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
Stimuli-sensing channels	Reactome	5	SCNN1B, SCNN1A, SCNN1G, WNK1, WNK4	79	27	28.15	7.809e-7	3.765e-5
Aldosterone-regulated sodium reabsorption	KEGG	4	SCNN1B, SCNN1A, SCNN1G, NR3C2	38	27	46.82	1.419e-6	6.358e-5
Parathyroid hormone synthesis, secretion and action	KEGG	4	GNAS, WNK1, WNK4, PTH1R	115	27	15.47	1.181e-4	2.493e-3
Taste transduction	KEGG	3	SCNN1B, SCNN1A, SCNN1G	86	27	15.52	9.158e-4	1.252e-2
NF-kappa B signaling pathway	KEGG	3	ICAM1, TNF, LTBR	105	27	12.71	1.631e-3	1.961e-2
African trypanosomiasis	KEGG	2	ICAM1, TNF	37	27	24.04	3.088e-3	3.122e-2
Negative regulation of NOTCH4 signaling	Reactome	1	NOTCH4	2	27	222.41	4.491e-3	4.075e-2
NOTCH4 Activation and Transmission of Signal to the Nucleus	Reactome	1	NOTCH4	2	27	222.41	4.491e-3	4.075e-2
ABC transporters	KEGG	2	CFTR, TAP1	45	27	19.77	4.540e-3	4.105e-2
Interleukin-10 signaling	Reactome	2	ICAM1, TNF	47	27	18.93	4.944e-3	4.347e-2
Malaria	KEGG	2	ICAM1, TNF	50	27	17.79	5.579e-3	4.709e-2
Vibrio cholerae infection	KEGG	2	CFTR, GNAS	51	27	17.44	5.799e-3	4.837e-2
Endocrine and other factor-regulated calcium reabsorption	KEGG	2	GNAS, PTH1R	53	27	16.79	6.250e-3	5.090e-2
RHO GTPases regulate CFTR trafficking	Reactome	1	CFTR	3	27	148.27	6.730e-3	5.336e-2
Renin secretion	KEGG	2	REN, GNAS	69	27	12.89	1.041e-2	7.120e-2