

GeDiPNet Cluster 180 -- 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 15:36:46

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	9	CASR, CYP24A1, SLC34A1, TRPV5, GNAS, PLCB1, SLC12A3, BGLAP, SLC34A3	115	192	4.90	9.247e-5	2.105e-3
Type II Na+/Pi cotransporters	Reactome	2	SLC34A1, SLC34A3	3	192	41.70	7.547e-4	1.099e-2
Purine salvage	Reactome	3	HPRT1, AMPD3, APRT	13	192	14.44	1.022e-3	1.378e-2
Nicotinamide salvaging	Reactome	3	SLC5A8, PTGS2, RNLS	19	192	9.88	3.227e-3	3.245e-2
Platelet degranulation	Reactome	7	VEGFA, CTSW, TGFB1, WDR1, PDGFA, AHSG, FN1	123	192	3.56	3.573e-3	3.480e-2
Cation-coupled Chloride cotransporters	Reactome	2	SLC12A1, SLC12A3	7	192	17.87	5.064e-3	4.413e-2
Virion - Hepatitis viruses	KEGG	4	CLDN14, CLDN10, CLDN16, CLDN19	48	192	5.21	7.117e-3	5.530e-2
Gamma-carboxylation of protein precursors	Reactome	2	BGLAP, GGCX	9	192	13.90	8.501e-3	6.213e-2
Negative regulation of activity of TFAP2 (AP-2) family transcription factors	Reactome	2	TFAP2B, TFAP2D	9	192	13.90	8.501e-3	6.213e-2
Erythrocytes take up oxygen and release carbon dioxide	Reactome	2	AQP1, HBB	9	192	13.90	8.501e-3	6.213e-2
Glyoxylate metabolism and glycine degradation	Reactome	3	AGXT, GRHPR, HAO1	28	192	6.70	9.821e-3	6.787e-2
TRP channels	Reactome	3	TRPV5, TRPV6, TRPM6	28	192	6.70	9.821e-3	6.787e-2
Glyoxylate and dicarboxylate metabolism	KEGG	3	AGXT, GRHPR, HAO1	30	192	6.26	1.189e-2	7.605e-2
Vitamin D (calciferol) metabolism	Reactome	2	CYP24A1, LRP2	11	192	11.37	1.272e-2	7.893e-2
Cell adhesion molecules	KEGG	7	CLDN14, CLDN10, CLDN16, CLDN19, HLA-C, HLA-DQA1, HLA-DRB1	160	192	2.74	1.437e-2	8.504e-2