

GeDiPNet Cluster 172 -- 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 08:00:47

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
Multifunctional anion exchangers	Reactome	2	SLC26A3, SLC26A9	9	22	121.31	1.144e-4	2.429e-3
Mineral absorption	KEGG	3	SLC26A3, SLC9A3, SLC26A9	61	22	26.85	1.792e-4	3.483e-3
Variant SLC6A14 may confer susceptibility towards obesity	Reactome	1	SLC6A14	1	22	545.91	1.832e-3	2.138e-2
Defective SLC26A3 causes congenital secretory chloride diarrhea 1 (DIAR1)	Reactome	1	SLC26A3	1	22	545.91	1.832e-3	2.138e-2
Intestinal infectious diseases	Reactome	1	GUCY2C	2	22	272.95	3.660e-3	3.527e-2
Response of EIF2AK4 (GCN2) to amino acid deficiency	Reactome	1	CEBPB	3	22	181.97	5.486e-3	4.653e-2
Response of EIF2AK1 (HRI) to heme deficiency	Reactome	1	CEBPB	3	22	181.97	5.486e-3	4.653e-2
Signaling by MST1	Reactome	1	SPINT2	5	22	109.18	9.127e-3	6.536e-2
GRB7 events in ERBB2 signaling	Reactome	1	ERBB3	5	22	109.18	9.127e-3	6.536e-2
Digestion	Reactome	1	GUCY2C	5	22	109.18	9.127e-3	6.536e-2
MET Receptor Activation	Reactome	1	SPINT2	6	22	90.98	1.094e-2	7.338e-2
RAB GEFs exchange GTP for GDP on RABs	Reactome	2	MON1A, RAB7B	90	22	12.13	1.164e-2	7.611e-2
Acyl chain remodeling of DAG and TAG	Reactome	1	DGAT1	7	22	77.99	1.276e-2	8.052e-2
Mitophagy - animal	KEGG	2	MON1A, RAB7B	105	22	10.40	1.561e-2	9.099e-2
Sodium/Proton exchangers	Reactome	1	SLC9A3	9	22	60.66	1.637e-2	9.367e-2