

GeDiPNet Cluster 323 -- 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: 2026-10-08 23:44:13

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
Defective SLC26A4 causes Pendred syndrome (PDS)	Reactome	1	SLC26A4	1	8	1501.25	6.661e-4	9.834e-3
Potassium transport channels	Reactome	1	KCNJ10	3	8	500.42	1.997e-3	2.277e-2
Multifunctional anion exchangers	Reactome	1	SLC26A4	9	8	166.81	5.981e-3	4.934e-2
ERBB2 Regulates Cell Motility	Reactome	1	DIAPH1	15	8	100.08	9.951e-3	6.891e-2
Insertion of tail-anchored proteins into the endoplasmic reticulum membrane	Reactome	1	OTOF	16	8	93.83	1.061e-2	7.204e-2
The canonical retinoid cycle in rods (twilight vision)	Reactome	1	MYO7A	20	8	75.06	1.325e-2	8.234e-2
Activation of G protein gated Potassium channels	Reactome	1	KCNJ10	29	8	51.77	1.916e-2	1.027e-1
Inhibition of voltage gated Ca2+ channels via Gbeta/gamma subunits	Reactome	1	KCNJ10	29	8	51.77	1.916e-2	1.027e-1
Virion - Hepatitis viruses	KEGG	1	CLDN9	48	8	31.28	3.154e-2	1.359e-1
Thyroid hormone synthesis	KEGG	1	SLC26A4	75	8	20.02	4.889e-2	1.733e-1
Gastric acid secretion	KEGG	1	KCNJ10	76	8	19.75	4.953e-2	1.747e-1
AGE-RAGE signaling pathway in diabetic complications	KEGG	1	DIAPH1	101	8	14.86	6.535e-2	2.020e-1
Leukocyte transendothelial migration	KEGG	1	CLDN9	116	8	12.94	7.473e-2	2.165e-1
RHO GTPases Activate Formins	Reactome	1	DIAPH1	140	8	10.72	8.956e-2	2.375e-1
Hepatitis C	KEGG	1	CLDN9	159	8	9.44	1.012e-1	2.545e-1