

GeDiPNet Cluster 544 -- 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: 2026-10-19 23:22:11

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
Transport of vitamins, nucleosides, and related molecules	Reactome	1	SLC5A6	3	3	1334.44	7.493e-4	9.089e-3
Vitamin B5 (pantothenate) metabolism	Reactome	1	SLC5A6	9	3	444.81	2.247e-3	2.074e-2
RHO GTPases activate KTN1	Reactome	1	KIF5A	11	3	363.94	2.745e-3	2.394e-2
Biotin transport and metabolism	Reactome	1	SLC5A6	11	3	363.94	2.745e-3	2.394e-2
Vitamin digestion and absorption	KEGG	1	SLC5A6	26	3	153.97	6.481e-3	4.321e-2
Kinesins	Reactome	1	KIF5A	59	3	67.85	1.467e-2	7.167e-2
Non-small cell lung cancer	KEGG	1	KIF5A	73	3	54.84	1.813e-2	8.115e-2
COPI-dependent Golgi-to-ER retrograde traffic	Reactome	1	KIF5A	99	3	40.44	2.453e-2	9.640e-2
MHC class II antigen presentation	Reactome	1	KIF5A	123	3	32.55	3.041e-2	1.092e-1
Dopaminergic synapse	KEGG	1	KIF5A	132	3	30.33	3.261e-2	1.135e-1
Motor proteins	KEGG	1	KIF5A	194	3	20.64	4.768e-2	1.409e-1
Salmonella infection	KEGG	1	KIF5A	248	3	16.14	6.068e-2	1.616e-1
Endocytosis	KEGG	1	KIF5A	250	3	16.01	6.116e-2	1.624e-1
Parkinson disease	KEGG	1	KIF5A	268	3	14.94	6.547e-2	1.690e-1
Prion disease	KEGG	1	KIF5A	275	3	14.56	6.714e-2	1.713e-1