

GeDiPNet Cluster 295 -- 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: 2026-10-08 03:30:07. · Rows: 15 · Generated: 2026-10-08 04:59:45

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
Purine metabolism	KEGG	2	PDE6C, PDE6H	128	7	26.81	2.285e-3	2.572e-2
ATF6 (ATF6-alpha) activates chaperones	Reactome	1	ATF6	4	7	428.93	2.330e-3	2.607e-2
ATF6 (ATF6-alpha) activates chaperone genes	Reactome	1	ATF6	9	7	190.63	5.235e-3	4.595e-2
cAMP signaling pathway	KEGG	2	CNGA3, CNGB3	226	7	15.18	6.956e-3	5.566e-2
PLC beta mediated events	Reactome	1	GNAT2	12	7	142.98	6.975e-3	5.567e-2
G-protein activation	Reactome	1	GNAT2	28	7	61.28	1.621e-2	9.420e-2
Phototransduction	KEGG	1	GNAT2	29	7	59.16	1.678e-2	9.606e-2
Cooperation of PDCL (PhLP1) and TRiC/CCT in G-protein beta folding	Reactome	1	GNAT2	42	7	40.85	2.423e-2	1.186e-1
Ca2+ pathway	Reactome	1	GNAT2	56	7	30.64	3.219e-2	1.378e-1
Protein processing in endoplasmic reticulum	KEGG	1	ATF6	171	7	10.03	9.553e-2	2.447e-1
Lipid and atherosclerosis	KEGG	1	ATF6	216	7	7.94	1.193e-1	2.754e-1
G alpha (i) signalling events	Reactome	1	GNAT2	249	7	6.89	1.364e-1	2.959e-1
Parkinson disease	KEGG	1	ATF6	268	7	6.40	1.462e-1	3.078e-1
Amyotrophic lateral sclerosis	KEGG	1	ATF6	368	7	4.66	1.958e-1	3.626e-1
Alzheimer disease	KEGG	1	ATF6	388	7	4.42	2.054e-1	3.723e-1