

GeDiPNet Cluster 265 -- 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 21:31:01

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
Type I diabetes mellitus	KEGG	2	PTPRN2, HLA-DQB1	44	18	30.33	1.934e-3	2.269e-2
SDK interactions	Reactome	1	SDK1	2	18	333.61	2.995e-3	3.114e-2
TWIK-related acid-sensitive K+ channel (TASK)	Reactome	1	KCNK9	2	18	333.61	2.995e-3	3.114e-2
MECP2 regulates neuronal receptors and channels	Reactome	1	PTPN4	4	18	166.81	5.982e-3	5.030e-2
Formyl peptide receptors bind formyl peptides and many other ligands	Reactome	1	ANXA1	8	18	83.40	1.193e-2	7.793e-2
Synthesis, secretion, and inactivation of Glucagon-like Peptide-1 (GLP-1)	Reactome	1	GCG	14	18	47.66	2.079e-2	1.083e-1
G alpha (q) signalling events	Reactome	2	ANXA1, GCG	172	18	7.76	2.684e-2	1.250e-1
Toll Like Receptor 4 (TLR4) Cascade	Reactome	1	PTPN4	19	18	35.12	2.812e-2	1.280e-1
Phase 4 - resting membrane potential	Reactome	1	KCNK9	19	18	35.12	2.812e-2	1.280e-1
Synthesis, secretion, and deacylation of Ghrelin	Reactome	1	GCG	19	18	35.12	2.812e-2	1.280e-1
Translocation of ZAP-70 to Immunological synapse	Reactome	1	HLA-DQB1	19	18	35.12	2.812e-2	1.280e-1
Interleukin-37 signaling	Reactome	1	PTPN4	21	18	31.77	3.103e-2	1.350e-1
Phosphorylation of CD3 and TCR zeta chains	Reactome	1	HLA-DQB1	22	18	30.33	3.249e-2	1.383e-1
PD-1 signaling	Reactome	1	HLA-DQB1	23	18	29.01	3.394e-2	1.416e-1
Glucagon signaling in metabolic regulation	Reactome	1	GCG	26	18	25.66	3.829e-2	1.511e-1