

GeDiPNet Cluster 86 -- 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: 2026-10-07 03:30:09. · Rows: 15 · Generated: 2026-10-07 02:59:55

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
Synthesis, secretion, and inactivation of Glucagon-like Peptide-1 (GLP-1)	Reactome	2	PAX6, CTNNB1	14	21	81.70	2.617e-4	4.819e-3
Cytochrome P450 - arranged by substrate type	Reactome	1	POR	1	21	571.90	1.749e-3	2.068e-2
Defective SLC2A1 causes GLUT1 deficiency syndrome 1 (GLUT1DS1)	Reactome	1	SLC2A1	1	21	571.90	1.749e-3	2.068e-2
Insulin-like Growth Factor-2 mRNA Binding Proteins (IGF2BPs/IMPs/VICKZs) bind RNA	Reactome	1	IGF2BP3	3	21	190.63	5.237e-3	4.504e-2
Lactose synthesis	Reactome	1	SLC2A1	3	21	190.63	5.237e-3	4.504e-2
Activated NTRK2 signals through PLCG1	Reactome	1	BDNF	4	21	142.98	6.977e-3	5.451e-2
LRR FLII-interacting protein 1 (LRRFIP1) activates type I IFN production	Reactome	1	CTNNB1	5	21	114.38	8.714e-3	6.306e-2
NTRK2 activates RAC1	Reactome	1	BDNF	5	21	114.38	8.714e-3	6.306e-2
Activated NTRK2 signals through FRS2 and FRS3	Reactome	1	BDNF	6	21	95.32	1.045e-2	7.047e-2
Synthesis, secretion, and inactivation of Glucose-dependent Insulinotropic Polypeptide (GIP)	Reactome	1	PAX6	7	21	81.70	1.218e-2	7.715e-2
Vitamin C (ascorbate) metabolism	Reactome	1	SLC2A1	8	21	71.49	1.391e-2	8.315e-2
Binding of TCF/LEF:CTNNB1 to target gene promoters	Reactome	1	CTNNB1	8	21	71.49	1.391e-2	8.315e-2
RUNX3 regulates WNT signaling	Reactome	1	CTNNB1	8	21	71.49	1.391e-2	8.315e-2
Interleukin-4 and Interleukin-13 signaling	Reactome	2	MUC1, VIM	108	21	10.59	1.505e-2	8.714e-2
HIF-1 signaling pathway	KEGG	2	ALDOC, SLC2A1	110	21	10.40	1.558e-2	8.914e-2