

GeDiPNet Cluster 373 -- 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 06:28:53

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
Notch signaling pathway	KEGG	2	NOTCH2, JAG1	62	4	96.85	1.563e-4	3.210e-3
MPS IV - Morquio syndrome B	Reactome	1	GLB1	1	4	3002.50	3.331e-4	5.817e-3
Defective SLC4A4 causes renal tubular acidosis, proximal, with ocular abnormalities and mental retardation (pRTA-OA)	Reactome	1	SLC4A4	1	4	3002.50	3.331e-4	5.817e-3
Th1 and Th2 cell differentiation	KEGG	2	NOTCH2, JAG1	93	4	64.57	3.523e-4	6.085e-3
Endocrine resistance	KEGG	2	NOTCH2, JAG1	99	4	60.66	3.993e-4	6.702e-3
Breast cancer	KEGG	2	NOTCH2, JAG1	148	4	40.57	8.905e-4	1.243e-2
Defective NEU1 causes sialidosis	Reactome	1	GLB1	3	4	1000.83	9.989e-4	1.354e-2
NOTCH2 Activation and Transmission of Signal to the Nucleus	Reactome	1	NOTCH2	3	4	1000.83	9.989e-4	1.354e-2
Defective LFNG causes SCDO3	Reactome	1	NOTCH2	5	4	600.50	1.664e-3	1.998e-2
Chemical carcinogenesis - receptor activation	KEGG	2	NOTCH2, JAG1	215	4	27.93	1.869e-3	2.169e-2
Pre-NOTCH Processing in Golgi	Reactome	1	NOTCH2	6	4	500.42	1.997e-3	2.278e-2
NOTCH2 intracellular domain regulates transcription	Reactome	1	NOTCH2	7	4	428.93	2.330e-3	2.554e-2
Constitutive Signaling by NOTCH1 t(7;9)(NOTCH1:M1580_K2555) Translocation Mutant	Reactome	1	JAG1	7	4	428.93	2.330e-3	2.554e-2
Bicarbonate transporters	Reactome	1	SLC4A4	10	4	300.25	3.327e-3	3.313e-2
Keratan sulfate degradation	Reactome	1	GLB1	13	4	230.96	4.323e-3	3.983e-2