

GeDiPNet Cluster 595 -- 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: 2026-10-20 00:02:44

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
Defective LFNG causes SCDO3	Reactome	1	NOTCH3	5	3	800.67	1.249e-3	1.343e-2
Pre-NOTCH Processing in Golgi	Reactome	1	NOTCH3	6	3	667.22	1.498e-3	1.536e-2
Noncanonical activation of NOTCH3	Reactome	1	NOTCH3	8	3	500.42	1.997e-3	1.898e-2
NOTCH3 Intracellular Domain Regulates Transcription	Reactome	1	NOTCH3	18	3	222.41	4.490e-3	3.394e-2
NOTCH3 Activation and Transmission of Signal to the Nucleus	Reactome	1	NOTCH3	19	3	210.70	4.739e-3	3.521e-2
Notch-HLH transcription pathway	Reactome	1	NOTCH3	28	3	142.98	6.978e-3	4.528e-2
Pre-NOTCH Transcription and Translation	Reactome	1	NOTCH3	31	3	129.14	7.724e-3	4.840e-2
Notch signaling pathway	KEGG	1	NOTCH3	62	3	64.57	1.541e-2	7.381e-2
Degradation of the extracellular matrix	Reactome	1	HTRA1	70	3	57.19	1.739e-2	7.887e-2
Th1 and Th2 cell differentiation	KEGG	1	NOTCH3	93	3	43.05	2.305e-2	9.301e-2
Endocrine resistance	KEGG	1	NOTCH3	99	3	40.44	2.453e-2	9.640e-2
Thyroid hormone signaling pathway	KEGG	1	NOTCH3	122	3	32.81	3.017e-2	1.086e-1
Apelin signaling pathway	KEGG	1	NOTCH3	140	3	28.60	3.457e-2	1.170e-1
Breast cancer	KEGG	1	NOTCH3	148	3	27.05	3.652e-2	1.209e-1
MicroRNAs in cancer	KEGG	1	NOTCH3	311	3	12.87	7.570e-2	1.840e-1