

GeDiPNet Cluster 536 -- 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](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 00:02:54

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
Laminin interactions	Reactome	2	COL4A4, LAMB2	28	3	285.95	1.570e-5	4.259e-4
ECM-receptor interaction	KEGG	2	COL4A4, LAMB2	89	3	89.96	1.621e-4	2.782e-3
Small cell lung cancer	KEGG	2	COL4A4, LAMB2	93	3	86.09	1.771e-4	2.982e-3
Amoebiasis	KEGG	2	COL4A4, LAMB2	103	3	77.73	2.173e-4	3.505e-3
Focal adhesion	KEGG	2	COL4A4, LAMB2	203	3	39.44	8.434e-4	9.945e-3
Human papillomavirus infection	KEGG	2	COL4A4, LAMB2	333	3	24.04	2.257e-3	2.083e-2
PI3K-Akt signaling pathway	KEGG	2	COL4A4, LAMB2	361	3	22.18	2.649e-3	2.337e-2
Extracellular matrix organization	Reactome	1	COL4A4	15	3	266.89	3.743e-3	2.976e-2
Anchoring fibril formation	Reactome	1	COL4A4	15	3	266.89	3.743e-3	2.976e-2
Crosslinking of collagen fibrils	Reactome	1	COL4A4	18	3	222.41	4.490e-3	3.394e-2
NCAM1 interactions	Reactome	1	COL4A4	21	3	190.63	5.237e-3	3.760e-2
Pathways in cancer	KEGG	2	COL4A4, LAMB2	533	3	15.02	5.724e-3	3.996e-2
Non-integrin membrane-ECM interactions	Reactome	1	COL4A4	24	3	166.81	5.984e-3	4.097e-2
MET activates PTK2 signaling	Reactome	1	LAMB2	30	3	133.44	7.476e-3	4.730e-2
Signaling by PDGF	Reactome	1	COL4A4	33	3	121.31	8.221e-3	5.037e-2