

GeDiPNet Cluster 275 -- 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: 2026-10-07 23:03:55

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
Nectin/Necl trans heterodimerization	Reactome	2	NECTIN2, NECTIN3	7	45	76.25	2.849e-4	5.221e-3
Adherens junctions interactions	Reactome	2	NECTIN2, NECTIN3	32	45	16.68	6.340e-3	5.229e-2
NOSIP mediated eNOS trafficking	Reactome	1	NOS3	2	45	133.44	7.480e-3	5.806e-2
Dual Incision in GG-NER	Reactome	2	CUL4B, GTF2H1	41	45	13.02	1.026e-2	7.133e-2
Nitric oxide stimulates guanylate cyclase	Reactome	1	NOS3	3	45	88.96	1.120e-2	7.510e-2
Formation of Incision Complex in GG-NER	Reactome	2	CUL4B, GTF2H1	43	45	12.41	1.124e-2	7.533e-2
Transcription-Coupled Nucleotide Excision Repair (TC-NER)	Reactome	2	CUL4B, GTF2H1	45	45	11.86	1.227e-2	7.955e-2
Formation of TC-NER Pre-Incision Complex	Reactome	2	CUL4B, GTF2H1	54	45	9.88	1.736e-2	9.779e-2
NOSTRIN mediated eNOS trafficking	Reactome	1	NOS3	5	45	53.38	1.860e-2	1.017e-1
Nucleotide excision repair	KEGG	2	CUL4B, GTF2H1	63	45	8.47	2.320e-2	1.155e-1
Gap-filling DNA repair synthesis and ligation in TC-NER	Reactome	2	CUL4B, GTF2H1	65	45	8.21	2.459e-2	1.196e-1
Dual incision in TC-NER	Reactome	2	CUL4B, GTF2H1	66	45	8.09	2.530e-2	1.212e-1
Virion - Herpesvirus	KEGG	1	NECTIN2	9	45	29.65	3.323e-2	1.401e-1
Sperm Motility And Taxes	Reactome	1	CATSPER1	9	45	29.65	3.323e-2	1.401e-1
Bacterial invasion of epithelial cells	KEGG	2	SEPTIN12, MAD2L2	78	45	6.84	3.443e-2	1.427e-1