

GeDiPNet Cluster 84 -- 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: 2026-10-09 03:30:08. · Rows: 15 · Generated: 2026-10-09 07:58:50

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
Nucleotide excision repair	KEGG	11	ERCC1, ERCC2, ERCC5, ERCC6, BIVM-ERCC5, ERCC3, GTF2H5, DDB2, ERCC4, XPA, XPC	63	23	91.17	4.245e-20	3.099e-17
Formation of Incision Complex in GG-NER	Reactome	9	ERCC1, ERCC2, ERCC5, ERCC3, GTF2H5, DDB2, ERCC4, XPA, XPC	43	23	109.29	3.113e-17	1.458e-14
Dual Incision in GG-NER	Reactome	8	ERCC1, ERCC2, ERCC5, ERCC3, GTF2H5, DDB2, ERCC4, XPA	41	23	101.89	4.216e-15	1.300e-12
Dual incision in TC-NER	Reactome	8	ERCC1, ERCC2, ERCC5, ERCC6, ERCC3, GTF2H5, ERCC4, XPA	66	23	63.29	2.465e-13	5.374e-11
Formation of TC-NER Pre-Incision Complex	Reactome	5	ERCC2, ERCC6, ERCC3, GTF2H5, XPA	54	23	48.35	4.811e-8	3.326e-6
Cytosolic tRNA aminoacylation	Reactome	4	AARS1, CARS1, TARS1, MARS1	24	23	87.03	1.059e-7	6.665e-6
Basal transcription factors	KEGG	4	ERCC2, ERCC3, GTF2E2, GTF2H5	44	23	47.47	1.319e-6	5.954e-5
Transcription-Coupled Nucleotide Excision Repair (TC-NER)	Reactome	4	ERCC2, ERCC6, ERCC3, GTF2H5	45	23	46.42	1.446e-6	6.443e-5
RNA Polymerase I Transcription Initiation	Reactome	4	ERCC2, ERCC6, ERCC3, GTF2H5	45	23	46.42	1.446e-6	6.443e-5
RNA Polymerase II Promoter Escape	Reactome	4	ERCC2, ERCC3, GTF2E2, GTF2H5	47	23	44.44	1.726e-6	7.471e-5
RNA Polymerase II Transcription Pre-Initiation And Promoter Opening	Reactome	4	ERCC2, ERCC3, GTF2E2, GTF2H5	47	23	44.44	1.726e-6	7.471e-5
RNA Polymerase II Transcription Initiation	Reactome	4	ERCC2, ERCC3, GTF2E2, GTF2H5	47	23	44.44	1.726e-6	7.471e-5
RNA Polymerase II Transcription Initiation And Promoter Clearance	Reactome	4	ERCC2, ERCC3, GTF2E2, GTF2H5	47	23	44.44	1.726e-6	7.471e-5
TP53 Regulates Transcription of DNA Repair Genes	Reactome	4	ERCC2, ERCC3, GTF2H5, DDB2	65	23	32.13	6.404e-6	2.233e-4
Gap-filling DNA repair synthesis and ligation in TC-NER	Reactome	4	ERCC2, ERCC6, ERCC3, GTF2H5	65	23	32.13	6.404e-6	2.233e-4