

GeDiPNet Cluster 245 -- 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: 2026-10-08 05:44:56

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
NOTCH4 Intracellular Domain Regulates Transcription	Reactome	3	CREBBP, EP300, NOTCH2	17	22	96.34	3.568e-6	1.460e-4
Pre-NOTCH Transcription and Translation	Reactome	3	CREBBP, EP300, NOTCH2	31	22	52.83	2.320e-5	6.901e-4
LRR FLII-interacting protein 1 (LRRFIP1) activates type I IFN production	Reactome	2	CREBBP, EP300	5	22	218.36	3.193e-5	8.923e-4
Regulation of FOXO transcriptional activity by acetylation	Reactome	2	CREBBP, EP300	7	22	155.97	6.690e-5	1.639e-3
Regulation of gene expression by Hypoxia-inducible Factor	Reactome	2	CREBBP, EP300	11	22	99.26	1.744e-4	3.538e-3
Notch signaling pathway	KEGG	3	CREBBP, EP300, NOTCH2	62	22	26.41	1.881e-4	3.771e-3
Activation of the TFAP2 (AP-2) family of transcription factors	Reactome	2	CREBBP, EP300	12	22	90.98	2.091e-4	4.072e-3
NOTCH1 Intracellular Domain Regulates Transcription	Reactome	2	CREBBP, EP300	13	22	83.99	2.468e-4	4.658e-3
POU5F1 (OCT4), SOX2, NANOG activate genes related to proliferation	Reactome	2	SALL1, ZIC3	13	22	83.99	2.468e-4	4.658e-3
RUNX3 regulates NOTCH signaling	Reactome	2	CREBBP, EP300	14	22	77.99	2.876e-4	5.261e-3
Attenuation phase	Reactome	2	CREBBP, EP300	14	22	77.99	2.876e-4	5.261e-3
TRAF3-dependent IRF activation pathway	Reactome	2	CREBBP, EP300	14	22	77.99	2.876e-4	5.261e-3
Polycomb repressive complex	KEGG	3	CREBBP, ASXL1, EP300	83	22	19.73	4.458e-4	7.454e-3
NOTCH3 Intracellular Domain Regulates Transcription	Reactome	2	CREBBP, EP300	18	22	60.66	4.815e-4	7.916e-3
RORA activates gene expression	Reactome	2	CREBBP, EP300	18	22	60.66	4.815e-4	7.916e-3