

GeDiPNet Cluster 184 -- 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: 2026-10-07 03:30:09. · Rows: 15 · Generated: 2026-10-07 02:22:46

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
Antigen activates B Cell Receptor (BCR) leading to generation of second messengers	Reactome	5	CD79A, BLNK, CD79B, PIK3R1, PIK3CD	23	30	87.03	2.234e-9	2.270e-7
Acute myeloid leukemia	KEGG	5	SPI1, PIK3R1, PIK3CD, MYC, RUNX1	68	30	29.44	6.400e-7	3.309e-5
B cell receptor signaling pathway	KEGG	5	CD79A, BLNK, CD79B, PIK3R1, PIK3CD	91	30	22.00	2.743e-6	1.154e-4
Human T-cell leukemia virus 1 infection	KEGG	6	SPI1, PIK3R1, TCF3, PIK3CD, MYC, HLA-DQA1	224	30	10.72	1.607e-5	4.980e-4
Signaling pathways regulating pluripotency of stem cells	KEGG	5	PIK3R1, TCF3, PIK3CD, ID3, MYC	144	30	13.90	2.587e-5	7.360e-4
Central carbon metabolism in cancer	KEGG	4	PIK3R1, PIK3CD, MYC, RET	71	30	22.55	2.736e-5	7.707e-4
Pathways in cancer	KEGG	8	SPI1, PIK3R1, PIK3CD, BBC3, GNA13, MYC, RET, RUNX1	533	30	6.01	3.515e-5	9.544e-4
Chronic myeloid leukemia	KEGG	4	PIK3R1, PIK3CD, MYC, RUNX1	77	30	20.80	3.771e-5	1.012e-3
Hepatocellular carcinoma	KEGG	5	PIK3R1, PIK3CD, ARID1A, MYC, SMARCA4	170	30	11.77	5.732e-5	1.429e-3
CD22 mediated BCR regulation	Reactome	2	CD79A, CD79B	5	30	160.13	6.004e-5	1.482e-3
Colorectal cancer	KEGG	4	PIK3R1, PIK3CD, BBC3, MYC	87	30	18.41	6.097e-5	1.499e-3
Interleukin-7 signaling	Reactome	3	BRWD1, PIK3R1, SMARCA4	33	30	36.39	7.295e-5	1.730e-3
Primary immunodeficiency	KEGG	3	IGLL1, CD79A, BLNK	38	30	31.61	1.119e-4	2.456e-3
RUNX1 interacts with co-factors whose precise effect on RUNX1 targets is not known	Reactome	3	ARID1A, SMARCA4, RUNX1	38	30	31.61	1.119e-4	2.456e-3
Transcriptional misregulation in cancer	KEGG	5	SPI1, TCF3, MYC, PBX1, RUNX1	198	30	10.11	1.180e-4	2.560e-3