

GeDiPNet Cluster 97 -- 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 21:07:13

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
Thyroid hormone signaling pathway	KEGG	7	SRC, TSC2, MTOR, MYC, PIK3CA, PLCE1, CTNNB1	122	66	10.44	4.451e-6	1.727e-4
Maturity onset diabetes of the young	KEGG	4	HNF1B, HHEX, HNF4A, ONECUT1	26	66	28.00	1.135e-5	3.727e-4
Breast cancer	KEGG	7	EGFR, LRP5, MTOR, MYC, PIK3CA, LRP6, CTNNB1	148	66	8.61	1.587e-5	4.939e-4
Gastric cancer	KEGG	7	EGFR, LRP5, MTOR, MYC, PIK3CA, LRP6, CTNNB1	150	66	8.49	1.732e-5	5.319e-4
Hepatocellular carcinoma	KEGG	7	EGFR, LRP5, MTOR, MYC, PIK3CA, LRP6, CTNNB1	170	66	7.49	3.882e-5	1.036e-3
AMPK signaling pathway	KEGG	6	CFTR, TSC2, MTOR, PIK3CA, PPARG, HNF4A	122	66	8.95	5.365e-5	1.354e-3
GAB1 signalosome	Reactome	3	EGFR, SRC, PIK3CA	17	66	32.11	1.020e-4	2.291e-3
ErbB signaling pathway	KEGG	5	EGFR, SRC, MTOR, MYC, PIK3CA	86	66	10.58	1.062e-4	2.360e-3
Colorectal cancer	KEGG	5	EGFR, MTOR, MYC, PIK3CA, CTNNB1	87	66	10.46	1.122e-4	2.461e-3
Proteoglycans in cancer	KEGG	7	EGFR, SRC, MTOR, MYC, PIK3CA, PLCE1, CTNNB1	204	66	6.24	1.227e-4	2.644e-3
N-Glycan biosynthesis	KEGG	4	ALG9, ALG5, ALG8, GANAB	55	66	13.23	2.298e-4	4.365e-3
Human cytomegalovirus infection	KEGG	7	EGFR, SRC, TSC2, MTOR, MYC, PIK3CA, CTNNB1	226	66	5.64	2.309e-4	4.381e-3
Hedgehog 'off' state	Reactome	4	IFT140, DYNC2H1, IFT88, MKS1	56	66	13.00	2.465e-4	4.598e-3
Trafficking of myristoylated proteins to the cilium	Reactome	2	CYS1, NPHP3	5	66	72.79	2.943e-4	5.276e-3
Calnexin/calreticulin cycle	Reactome	2	GANAB, PRKCSH	5	66	72.79	2.943e-4	5.276e-3