

GeDiPNet Cluster 435 -- 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: 2026-10-20 03:30:09. · Rows: 15 · Generated: 2026-10-20 00:02:54

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	63	10.94	3.243e-6	1.140e-4
Maturity onset diabetes of the young	KEGG	4	HHEX, HNF1B, HNF4A, ONECUT1	26	63	29.33	9.425e-6	2.771e-4
Breast cancer	KEGG	7	EGFR, LRP5, MTOR, MYC, PIK3CA, LRP6, CTNNB1	148	63	9.02	1.163e-5	3.296e-4
Gastric cancer	KEGG	7	EGFR, LRP5, MTOR, MYC, PIK3CA, LRP6, CTNNB1	150	63	8.90	1.270e-5	3.552e-4
Hepatocellular carcinoma	KEGG	7	EGFR, LRP5, MTOR, MYC, PIK3CA, LRP6, CTNNB1	170	63	7.85	2.857e-5	6.962e-4
Protein processing in endoplasmic reticulum	KEGG	7	DNAJB11, GANAB, SEC61B, PRKCSH, SEC63, SEC61A1, PDIA6	171	63	7.80	2.967e-5	7.177e-4
AMPK signaling pathway	KEGG	6	CFTR, TSC2, MTOR, PIK3CA, PPARG, HNF4A	122	63	9.38	4.113e-5	9.347e-4
ErbB signaling pathway	KEGG	5	EGFR, SRC, MTOR, MYC, PIK3CA	86	63	11.08	8.491e-5	1.667e-3
GAB1 signalosome	Reactome	3	EGFR, SRC, PIK3CA	17	63	33.64	8.877e-5	1.728e-3
Colorectal cancer	KEGG	5	EGFR, MTOR, MYC, PIK3CA, CTNNB1	87	63	10.96	8.973e-5	1.745e-3
Proteoglycans in cancer	KEGG	7	EGFR, SRC, MTOR, MYC, PIK3CA, PLCE1, CTNNB1	204	63	6.54	9.099e-5	1.764e-3
Human cytomegalovirus infection	KEGG	7	EGFR, SRC, TSC2, MTOR, MYC, PIK3CA, CTNNB1	226	63	5.90	1.721e-4	2.920e-3
N-Glycan biosynthesis	KEGG	4	ALG9, ALG5, ALG8, GANAB	55	63	13.86	1.919e-4	3.174e-3
Hedgehog 'off' state	Reactome	4	IFT140, DYNC2H1, IFT88, MKS1	56	63	13.62	2.058e-4	3.358e-3
Endometrial cancer	KEGG	4	EGFR, MYC, PIK3CA, CTNNB1	59	63	12.92	2.521e-4	3.936e-3