

GeDiPNet Cluster 345 -- 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 07:11:30

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
Mineral absorption	KEGG	3	FXYD2, TRPM6, TRPV6	61	6	98.44	2.467e-6	1.066e-4
TRP channels	Reactome	2	TRPM6, TRPV6	28	6	142.98	7.817e-5	1.856e-3
Salivary secretion	KEGG	2	FXYD2, TRPV6	93	6	43.05	8.720e-4	1.251e-2
Hepatitis C	KEGG	2	CLDN16, EGF	159	6	25.18	2.523e-3	2.763e-2
Inhibition of Signaling by Overexpressed EGFR	Reactome	1	EGF	8	6	250.21	3.991e-3	3.823e-2
EGFR interacts with phospholipase C-gamma	Reactome	1	EGF	9	6	222.41	4.489e-3	4.138e-2
Signaling by ERBB4	Reactome	1	EGF	11	6	181.97	5.484e-3	4.749e-2
Signaling by EGFR	Reactome	1	EGF	11	6	181.97	5.484e-3	4.749e-2
ERBB2 Activates PTK6 Signaling	Reactome	1	EGF	13	6	153.97	6.478e-3	5.312e-2
GRB2 events in EGFR signaling	Reactome	1	EGF	13	6	153.97	6.478e-3	5.312e-2
SHC1 events in EGFR signaling	Reactome	1	EGF	14	6	142.98	6.975e-3	5.567e-2
ERBB2 Regulates Cell Motility	Reactome	1	EGF	15	6	133.44	7.472e-3	5.806e-2
Constitutive Signaling by EGFRvIII	Reactome	1	EGF	15	6	133.44	7.472e-3	5.806e-2
PI3K events in ERBB2 signaling	Reactome	1	EGF	16	6	125.10	7.968e-3	6.070e-2
Signaling by ERBB2 ECD mutants	Reactome	1	EGF	16	6	125.10	7.968e-3	6.070e-2