

GeDiPNet Cluster 397 -- 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 10:33:36

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
ERBB2 Activates PTK6 Signaling	Reactome	4	ERBB2, ERBB3, NRG1, NRG3	13	101	36.59	3.178e-6	1.326e-4
GRB7 events in ERBB2 signaling	Reactome	3	ERBB2, ERBB3, NRG1	5	101	71.35	5.703e-6	2.156e-4
ERBB2 Regulates Cell Motility	Reactome	4	ERBB2, ERBB3, NRG1, NRG3	15	101	31.71	5.990e-6	2.242e-4
PI3K events in ERBB2 signaling	Reactome	4	ERBB2, ERBB3, NRG1, NRG3	16	101	29.73	7.935e-6	2.837e-4
RAF/MAP kinase cascade	Reactome	8	GDNF, RET, ERBB2, ERBB3, GFRA1, NRG1, NRG3, NRTN	124	101	7.67	9.325e-6	3.233e-4
SHC1 events in ERBB2 signaling	Reactome	4	ERBB2, ERBB3, NRG1, NRG3	17	101	27.98	1.031e-5	3.505e-4
Signaling by ERBB2	Reactome	4	ERBB2, ERBB3, NRG1, NRG3	18	101	26.42	1.317e-5	4.287e-4
Signaling by ERBB2 TMD/JMD mutants	Reactome	4	ERBB2, ERBB3, NRG1, NRG3	22	101	21.62	3.068e-5	8.640e-4
Downregulation of ERBB2 signaling	Reactome	4	ERBB2, ERBB3, NRG1, NRG3	24	101	19.82	4.399e-5	1.169e-3
Signaling by ERBB2 KD Mutants	Reactome	4	ERBB2, ERBB3, NRG1, NRG3	25	101	19.03	5.204e-5	1.339e-3
Signaling by ERBB4	Reactome	3	ERBB3, NRG1, NRG3	11	101	32.43	9.070e-5	2.097e-3
Downregulation of ERBB2:ERBB3 signaling	Reactome	3	ERBB2, ERBB3, NRG1	13	101	27.44	1.553e-4	3.223e-3
GRB2 events in ERBB2 signaling	Reactome	3	ERBB2, NRG1, NRG3	14	101	25.48	1.965e-4	3.890e-3
RET signaling	Reactome	4	GDNF, RET, GFRA1, NRTN	40	101	11.89	3.413e-4	6.031e-3
Constitutive Signaling by Aberrant PI3K in Cancer	Reactome	5	VAV1, ERBB2, ERBB3, NRG1, NRG3	75	101	7.93	4.123e-4	7.005e-3