

GeDiPNet Cluster 15 -- 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: 2026-10-09 03:30:08. · Rows: 15 · Generated: 2026-10-09 06:31:25

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
Pathways in cancer	KEGG	23	CASP8, FAS, FASLG, NRAS, RASGRP1, KRAS, FGF23, FGFR3, HRAS, RB1, GLI2, MAP2K1	533	67	7.74	4.117e-15	1.276e-12
Hepatitis C	KEGG	12	CASP8, FAS, FASLG, NRAS, KRAS, HRAS, RB1, MAP2K1, PIK3CA, TP53, EIF2AK1, OCLN	159	67	13.53	6.110e-11	8.616e-9
MAPK signaling pathway	KEGG	15	FAS, FASLG, NRAS, RASGRP1, KRAS, FGF23, FGFR3, HRAS, CACNA1H, MAP2K1, TEK, TP53	299	67	8.99	6.649e-11	9.328e-9
Hepatitis B	KEGG	12	CASP10, CASP8, FAS, FASLG, NRAS, KRAS, HRAS, RB1, MAP2K1, PIK3CA, TP53, STAT5B	163	67	13.20	8.180e-11	1.126e-8
Apoptosis	KEGG	11	CASP10, CASP8, FAS, FASLG, NRAS, KRAS, HRAS, MAP2K1, PIK3CA, ATM, TP53	137	67	14.39	2.116e-10	2.678e-8
Chronic myeloid leukemia	KEGG	9	NRAS, KRAS, HRAS, RB1, MAP2K1, PIK3CA, TP53, MECOM, STAT5B	77	67	20.95	3.589e-10	4.265e-8
Thyroid cancer	KEGG	7	NRAS, KRAS, HRAS, MAP2K1, TP53, PAX8, PPARG	37	67	33.91	1.100e-9	1.158e-7
Signaling by FGFR3 fusions in cancer	Reactome	5	NRAS, KRAS, FGFR3, HRAS, PIK3CA	10	67	89.63	1.145e-9	1.191e-7
Signaling by FGFR3 point mutants in cancer	Reactome	6	NRAS, KRAS, FGF23, FGFR3, HRAS, PIK3CA	22	67	48.89	1.668e-9	1.668e-7
Bladder cancer	KEGG	7	NRAS, KRAS, FGFR3, HRAS, RB1, MAP2K1, TP53	41	67	30.60	2.360e-9	2.275e-7
Human papillomavirus infection	KEGG	14	CASP8, FAS, FASLG, NRAS, KRAS, HRAS, RB1, MAP2K1, PIK3CA, ATM, TP53, APC	333	67	7.54	3.136e-9	2.967e-7
Activation of RAS in B cells	Reactome	4	NRAS, RASGRP1, KRAS, HRAS	5	67	143.40	4.405e-9	4.040e-7
FasL/ CD95L signaling	Reactome	4	CASP10, CASP8, FAS, FASLG	5	67	143.40	4.405e-9	4.040e-7
Central carbon metabolism in cancer	KEGG	8	NRAS, KRAS, FGFR3, HRAS, MAP2K1, PIK3CA, TP53, FLT3	71	67	20.20	4.916e-9	4.459e-7
Ras signaling pathway	KEGG	12	FASLG, NRAS, RASGRP1, KRAS, FGF23, FGFR3, HRAS, MAP2K1, PIK3CA, TEK, PLA2G6, FLT3	237	67	9.08	6.069e-9	5.366e-7