

GeDiPNet Cluster 638 -- 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 00:03:14

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
Thiamine metabolism	KEGG	1	AK2	15	2	400.33	2.496e-3	2.231e-2
PCP/CE pathway	Reactome	1	RAC2	18	2	333.61	2.995e-3	2.538e-2
RHO GTPases Activate NADPH Oxidases	Reactome	1	RAC2	24	2	250.21	3.993e-3	3.122e-2
Interconversion of nucleotide di- and triphosphates	Reactome	1	AK2	29	2	207.07	4.824e-3	3.568e-2
ROS and RNS production in phagocytes	Reactome	1	RAC2	34	2	176.62	5.654e-3	3.958e-2
GPVI-mediated activation cascade	Reactome	1	RAC2	34	2	176.62	5.654e-3	3.958e-2
VEGF signaling pathway	KEGG	1	RAC2	60	2	100.08	9.967e-3	5.668e-2
Fc epsilon RI signaling pathway	KEGG	1	RAC2	69	2	87.03	1.146e-2	6.185e-2
Viral myocarditis	KEGG	1	RAC2	70	2	85.79	1.162e-2	6.224e-2
Constitutive Signaling by Aberrant PI3K in Cancer	Reactome	1	RAC2	75	2	80.07	1.245e-2	6.498e-2
Pancreatic cancer	KEGG	1	RAC2	77	2	77.99	1.278e-2	6.582e-2
Nucleotide metabolism	KEGG	1	AK2	85	2	70.65	1.411e-2	6.997e-2
Colorectal cancer	KEGG	1	RAC2	87	2	69.02	1.444e-2	7.102e-2
B cell receptor signaling pathway	KEGG	1	RAC2	91	2	65.99	1.510e-2	7.280e-2
Adherens junction	KEGG	1	RAC2	93	2	64.57	1.543e-2	7.388e-2