

GeDiPNet Cluster 83 -- 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 05:42:06

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
CREB1 phosphorylation through the activation of Adenylate Cyclase	Reactome	2	PRKACB, PRKACA	7	10	343.14	1.308e-5	4.083e-4
HDL assembly	Reactome	2	PRKACB, PRKACA	8	10	300.25	1.743e-5	5.204e-4
Ras signaling pathway	KEGG	4	FGFR2, PRKACB, PRKACA, FGFR1	237	10	20.27	2.828e-5	7.784e-4
Calcium signaling pathway	KEGG	4	FGFR2, PRKACB, PRKACA, FGFR1	254	10	18.91	3.712e-5	9.722e-4
MAPK signaling pathway	KEGG	4	FGFR2, PRKACB, PRKACA, FGFR1	299	10	16.07	7.024e-5	1.635e-3
Rap1 signalling	Reactome	2	PRKACB, PRKACA	16	10	150.13	7.442e-5	1.711e-3
Regulation of insulin secretion	Reactome	2	PRKACB, PRKACA	16	10	150.13	7.442e-5	1.711e-3
PKA activation in glucagon signalling	Reactome	2	PRKACB, PRKACA	17	10	141.29	8.430e-5	1.902e-3
Parathyroid hormone synthesis, secretion and action	KEGG	3	PRKACB, PRKACA, FGFR1	115	10	31.33	9.773e-5	2.145e-3
DARPP-32 events	Reactome	2	PRKACB, PRKACA	19	10	126.42	1.059e-4	2.292e-3
PKA activation	Reactome	2	PRKACB, PRKACA	19	10	126.42	1.059e-4	2.292e-3
CD209 (DC-SIGN) signaling	Reactome	2	PRKACB, PRKACA	21	10	114.38	1.299e-4	2.694e-3
Oncogene Induced Senescence	Reactome	2	ERF, MDM4	33	10	72.79	3.250e-4	5.606e-3
FCGR3A-mediated IL10 synthesis	Reactome	2	PRKACB, PRKACA	35	10	68.63	3.659e-4	6.174e-3
Glucagon-like Peptide-1 (GLP1) regulates insulin secretion	Reactome	2	PRKACB, PRKACA	36	10	66.72	3.872e-4	6.459e-3