

GeDiPNet Cluster 384 -- 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: 2026-10-07 03:30:09. · Rows: 15 · Generated: 2026-10-07 16:10:04

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
Insulin secretion	KEGG	2	CACNA1F, RIMS2	86	6	46.55	7.462e-4	1.091e-2
Amine ligand-binding receptors	Reactome	1	GPR143	7	6	285.95	3.493e-3	3.425e-2
Calcium signaling pathway	KEGG	2	CACNA1F, PHKA2	254	6	15.76	6.318e-3	5.105e-2
Glycogen breakdown (glycogenolysis)	Reactome	1	PHKA2	16	6	125.10	7.968e-3	5.956e-2
Phase 2 - plateau phase	Reactome	1	CACNA1F	25	6	80.07	1.243e-2	7.776e-2
Phase 0 - rapid depolarisation	Reactome	1	CACNA1F	44	6	45.49	2.179e-2	1.080e-1
Cortisol synthesis and secretion	KEGG	1	CACNA1F	65	6	30.79	3.204e-2	1.337e-1
GnRH secretion	KEGG	1	CACNA1F	65	6	30.79	3.204e-2	1.337e-1
Renin secretion	KEGG	1	CACNA1F	69	6	29.01	3.399e-2	1.386e-1
Arrhythmogenic right ventricular cardiomyopathy	KEGG	1	CACNA1F	86	6	23.28	4.221e-2	1.563e-1
Cardiac muscle contraction	KEGG	1	CACNA1F	87	6	23.01	4.269e-2	1.573e-1
GABAergic synapse	KEGG	1	CACNA1F	89	6	22.49	4.366e-2	1.590e-1
GnRH signaling pathway	KEGG	1	CACNA1F	93	6	21.52	4.558e-2	1.630e-1
Aldosterone synthesis and secretion	KEGG	1	CACNA1F	98	6	20.43	4.798e-2	1.678e-1
Hypertrophic cardiomyopathy	KEGG	1	CACNA1F	99	6	20.22	4.846e-2	1.686e-1