

GeDiPNet Cluster 532 -- 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 00:02:52

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
The retinoid cycle in cones (daylight vision)	Reactome	1	OPN1MW	8	3	500.42	1.997e-3	1.898e-2
Opsins	Reactome	1	OPN1MW	10	3	400.33	2.496e-3	2.231e-2
Retinoid cycle disease events	Reactome	1	OPN1MW	13	3	307.95	3.244e-3	2.694e-2
Phase 2 - plateau phase	Reactome	1	CACNA1F	25	3	160.13	6.232e-3	4.212e-2
Phase 0 - rapid depolarisation	Reactome	1	CACNA1F	44	3	90.98	1.095e-2	6.008e-2
Cortisol synthesis and secretion	KEGG	1	CACNA1F	65	3	61.59	1.615e-2	7.583e-2
GnRH secretion	KEGG	1	CACNA1F	65	3	61.59	1.615e-2	7.583e-2
Renin secretion	KEGG	1	CACNA1F	69	3	58.02	1.714e-2	7.849e-2
Insulin secretion	KEGG	1	CACNA1F	86	3	46.55	2.133e-2	8.902e-2
Arrhythmogenic right ventricular cardiomyopathy	KEGG	1	CACNA1F	86	3	46.55	2.133e-2	8.902e-2
Cardiac muscle contraction	KEGG	1	CACNA1F	87	3	46.02	2.158e-2	8.950e-2
GABAergic synapse	KEGG	1	CACNA1F	89	3	44.98	2.207e-2	9.071e-2
GnRH signaling pathway	KEGG	1	CACNA1F	93	3	43.05	2.305e-2	9.301e-2
Aldosterone synthesis and secretion	KEGG	1	CACNA1F	98	3	40.85	2.428e-2	9.591e-2
Hypertrophic cardiomyopathy	KEGG	1	CACNA1F	99	3	40.44	2.453e-2	9.640e-2