

GeDiPNet Cluster 588 -- 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 00:02:44

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
Parathyroid hormone synthesis, secretion and action	KEGG	4	PTH1R, CYP27B1, PTH, VDR	115	6	69.62	1.179e-7	6.467e-6
Endocrine and other factor-regulated calcium reabsorption	KEGG	3	PTH1R, PTH, VDR	53	6	113.30	1.608e-6	6.290e-5
Vitamin D (calciferol) metabolism	Reactome	2	CYP27B1, VDR	11	6	363.94	1.142e-5	3.246e-4
Class B/2 (Secretin family receptors)	Reactome	2	PTH1R, PTH	18	6	222.41	3.171e-5	7.589e-4
Defective CYP27B1 causes Rickets vitamin D-dependent 1A (VDDR1A)	Reactome	1	CYP27B1	1	6	2001.67	4.996e-4	6.672e-3
Beta oxidation of myristoyl-CoA to lauroyl-CoA	Reactome	1	HADHB	3	6	667.22	1.498e-3	1.536e-2
Beta oxidation of palmitoyl-CoA to myristoyl-CoA	Reactome	1	HADHB	3	6	667.22	1.498e-3	1.536e-2
ADORA2B mediated anti-inflammatory cytokines production	Reactome	2	PTH1R, PTH	128	6	31.28	1.644e-3	1.651e-2
G alpha (s) signalling events	Reactome	2	PTH1R, PTH	140	6	28.60	1.963e-3	1.881e-2
Beta oxidation of lauroyl-CoA to decanoyl-CoA-CoA	Reactome	1	HADHB	5	6	400.33	2.496e-3	2.231e-2
Beta oxidation of octanoyl-CoA to hexanoyl-CoA	Reactome	1	HADHB	5	6	400.33	2.496e-3	2.231e-2
Beta oxidation of hexanoyl-CoA to butanoyl-CoA	Reactome	1	HADHB	5	6	400.33	2.496e-3	2.231e-2
Acyl chain remodeling of CL	Reactome	1	HADHB	5	6	400.33	2.496e-3	2.231e-2
Vitamins	Reactome	1	CYP27B1	6	6	333.61	2.994e-3	2.538e-2
mitochondrial fatty acid beta-oxidation of unsaturated fatty acids	Reactome	1	HADHB	6	6	333.61	2.994e-3	2.538e-2