

GeDiPNet Cluster 193 -- 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: 2026-10-08 03:30:07. · Rows: 15 · Generated: 2026-10-07 22:08:38

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
Neuroactive ligand-receptor interaction	KEGG	8	F2RL1, GRP, HRH1, HRH4, NMB, OPRM1, PDYN, TAC1	370	18	14.43	2.514e-8	1.929e-6
Peptide ligand-binding receptors	Reactome	5	F2RL1, GRP, NMB, OPRM1, PDYN	106	18	31.47	3.809e-7	2.115e-5
G alpha (q) signalling events	Reactome	5	F2RL1, GRP, HRH1, NMB, TAC1	172	18	19.40	4.188e-6	1.674e-4
Opioid Signalling	Reactome	2	OPRM1, PDYN	3	18	444.81	6.359e-6	2.351e-4
Histamine receptors	Reactome	2	HRH1, HRH4	4	18	333.61	1.271e-5	4.170e-4
PPARA activates gene expression	Reactome	4	AHR, NPAS2, PPARG, CYP1A1	115	18	23.21	2.201e-5	6.588e-4
Xenobiotics	Reactome	2	AHR, CYP1A1	24	18	55.60	5.742e-4	9.051e-3
G-protein activation	Reactome	2	OPRM1, PDYN	28	18	47.66	7.837e-4	1.156e-2
Defective ABCB11 causes progressive familial intrahepatic cholestasis 2 and benign recurrent intrahepatic cholestasis 2	Reactome	1	ABCB11	1	18	667.22	1.499e-3	1.890e-2
Lipid and atherosclerosis	KEGG	3	PPARG, CYP1A1, TNFRSF1A	216	18	9.27	3.835e-3	3.714e-2
G alpha (i) signalling events	Reactome	3	HRH4, OPRM1, PDYN	249	18	8.04	5.706e-3	4.880e-2
Biosynthesis of protectins	Reactome	1	CYP1A1	4	18	166.81	5.982e-3	5.030e-2
Tachykinin receptors bind tachykinins	Reactome	1	TAC1	5	18	133.44	7.473e-3	5.806e-2
TNFR1-mediated ceramide production	Reactome	1	TNFRSF1A	6	18	111.20	8.961e-3	6.534e-2
Inflammatory mediator regulation of TRP channels	KEGG	2	F2RL1, HRH1	99	18	13.48	9.444e-3	6.764e-2