

GeDiPNet Cluster 499 -- 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 00:02:59

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
Defective SLC26A4 causes Pendred syndrome (PDS)	Reactome	1	SLC26A4	1	8	1501.25	6.661e-4	8.310e-3
Selenocysteine synthesis	Reactome	1	SEPSECS	3	8	500.42	1.997e-3	1.898e-2
Potassium transport channels	Reactome	1	KCNJ10	3	8	500.42	1.997e-3	1.898e-2
Multifunctional anion exchangers	Reactome	1	SLC26A4	9	8	166.81	5.981e-3	4.097e-2
NF-kB activation through FADD/RIP-1 pathway mediated by caspase-8 and -10	Reactome	1	IFIH1	12	8	125.10	7.968e-3	4.940e-2
GABA synthesis, release, reuptake and degradation	Reactome	1	STXBP1	13	8	115.48	8.629e-3	5.192e-2
TRAF3-dependent IRF activation pathway	Reactome	1	IFIH1	14	8	107.23	9.290e-3	5.428e-2
Selenocompound metabolism	KEGG	1	SEPSECS	17	8	88.31	1.127e-2	6.122e-2
Acetylcholine Neurotransmitter Release Cycle	Reactome	1	STXBP1	17	8	88.31	1.127e-2	6.122e-2
DDX58/IFIH1-mediated induction of interferon-alpha/beta	Reactome	1	IFIH1	17	8	88.31	1.127e-2	6.122e-2
Serotonin Neurotransmitter Release Cycle	Reactome	1	STXBP1	18	8	83.40	1.193e-2	6.320e-2
Norepinephrine Neurotransmitter Release Cycle	Reactome	1	STXBP1	18	8	83.40	1.193e-2	6.320e-2
Dopamine Neurotransmitter Release Cycle	Reactome	1	STXBP1	23	8	65.27	1.522e-2	7.318e-2
Glutamate Neurotransmitter Release Cycle	Reactome	1	STXBP1	24	8	62.55	1.588e-2	7.505e-2
TRAF6 mediated NF-kB activation	Reactome	1	IFIH1	24	8	62.55	1.588e-2	7.505e-2