

GeDiPNet Cluster 394 -- 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: 2026-10-09 03:30:08. · Rows: 15 · Generated: 2026-10-09 08:03:09

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
Na+/Cl- dependent neurotransmitter transporters	Reactome	2	SLC6A3, SLC18A2	19	6	210.70	3.543e-5	9.369e-4
Cocaine addiction	KEGG	2	SLC6A3, SLC18A2	49	6	81.70	2.421e-4	4.428e-3
Amphetamine addiction	KEGG	2	SLC6A3, SLC18A2	69	6	58.02	4.808e-4	7.650e-3
Dopamine clearance from the synaptic cleft	Reactome	1	SLC6A3	1	6	2001.67	4.996e-4	7.867e-3
Defective SLC6A3 causes Parkinsonism-dystonia infantile (PKDYS)	Reactome	1	SLC6A3	1	6	2001.67	4.996e-4	7.867e-3
Synaptic vesicle cycle	KEGG	2	SLC6A3, SLC18A2	79	6	50.68	6.300e-4	9.445e-3
Dopaminergic synapse	KEGG	2	SLC6A3, SLC18A2	132	6	30.33	1.747e-3	2.066e-2
Alcoholism	KEGG	2	SLC6A3, SLC18A2	188	6	21.29	3.508e-3	3.418e-2
Advanced glycosylation endproduct receptor signaling	Reactome	1	AGER	8	6	250.21	3.991e-3	3.753e-2
Mitochondrial tRNA aminoacylation	Reactome	1	WARS2	14	6	142.98	6.975e-3	5.461e-2
Parkinson disease	KEGG	2	SLC6A3, SLC18A2	268	6	14.94	7.013e-3	5.483e-2
Serotonin Neurotransmitter Release Cycle	Reactome	1	SLC18A2	18	6	111.20	8.961e-3	6.459e-2
Norepinephrine Neurotransmitter Release Cycle	Reactome	1	SLC18A2	18	6	111.20	8.961e-3	6.459e-2
Dopamine Neurotransmitter Release Cycle	Reactome	1	SLC18A2	23	6	87.03	1.144e-2	7.542e-2
TRAF6 mediated NF-kB activation	Reactome	1	AGER	24	6	83.40	1.193e-2	7.721e-2