

GeDiPNet Cluster 495 -- 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](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 00:02:43

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
MPS IV - Morquio syndrome B	Reactome	1	GLB1	1	5	2402.00	4.163e-4	5.794e-3
Defective SLC4A4 causes renal tubular acidosis, proximal, with ocular abnormalities and mental retardation (pRTA-OA)	Reactome	1	SLC4A4	1	5	2402.00	4.163e-4	5.794e-3
Defective NEU1 causes sialidosis	Reactome	1	GLB1	3	5	800.67	1.249e-3	1.343e-2
Constitutive Signaling by NOTCH1 t(7;9)(NOTCH1:M1580_K2555) Translocation Mutant	Reactome	1	JAG1	7	5	343.14	2.911e-3	2.492e-2
Bicarbonate transporters	Reactome	1	SLC4A4	10	5	240.20	4.157e-3	3.210e-2
Keratan sulfate degradation	Reactome	1	GLB1	13	5	184.77	5.401e-3	3.839e-2
RUNX3 regulates NOTCH signaling	Reactome	1	JAG1	14	5	171.57	5.816e-3	4.033e-2
Glycosphingolipid biosynthesis - ganglio series	KEGG	1	GLB1	15	5	160.13	6.230e-3	4.212e-2
Constitutive Signaling by NOTCH1 HD Domain Mutants	Reactome	1	JAG1	15	5	160.13	6.230e-3	4.212e-2
Other glycan degradation	KEGG	1	GLB1	18	5	133.44	7.473e-3	4.730e-2
Glycosaminoglycan degradation	KEGG	1	GLB1	19	5	126.42	7.886e-3	4.917e-2
NOTCH3 Activation and Transmission of Signal to the Nucleus	Reactome	1	JAG1	19	5	126.42	7.886e-3	4.917e-2
HS-GAG degradation	Reactome	1	GLB1	22	5	109.18	9.127e-3	5.370e-2
Proximal tubule bicarbonate reclamation	KEGG	1	SLC4A4	23	5	104.43	9.540e-3	5.527e-2
Galactose metabolism	KEGG	1	GLB1	32	5	75.06	1.325e-2	6.742e-2