

GeDiPNet Cluster 218 -- 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: 2026-10-07 03:30:09. · Rows: 15 · Generated: 2026-10-07 11:34:39

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
Vitamin E	Reactome	1	TTPA	1	6	2001.67	4.996e-4	7.955e-3
Defective PAPSS2 causes SEMD-PA	Reactome	1	PAPSS2	1	6	2001.67	4.996e-4	7.955e-3
Sulfur cycle	KEGG	1	PAPSS2	2	6	1000.83	9.990e-4	1.354e-2
Nitric oxide stimulates guanylate cyclase	Reactome	1	NOS1	3	6	667.22	1.498e-3	1.846e-2
Transport and synthesis of PAPS	Reactome	1	PAPSS2	6	6	333.61	2.994e-3	3.068e-2
Hormone signaling	KEGG	2	NOS1, NPPA	219	6	18.28	4.731e-3	4.226e-2
Sulfur metabolism	KEGG	1	PAPSS2	10	6	200.17	4.986e-3	4.365e-2
Physiological factors	Reactome	1	NPPA	12	6	166.81	5.981e-3	4.925e-2
YAP1- and WWTR1 (TAZ)-stimulated gene expression	Reactome	1	NPPA	14	6	142.98	6.975e-3	5.451e-2
Selenocompound metabolism	KEGG	1	PAPSS2	17	6	117.75	8.465e-3	6.196e-2
Arginine biosynthesis	KEGG	1	NOS1	23	6	87.03	1.144e-2	7.438e-2
TRP channels	Reactome	1	TRPV4	28	6	71.49	1.391e-2	8.315e-2
ROS and RNS production in phagocytes	Reactome	1	NOS1	34	6	58.87	1.687e-2	9.366e-2
African trypanosomiasis	KEGG	1	NPPA	37	6	54.10	1.835e-2	9.814e-2
Molecules associated with elastic fibres	Reactome	1	LTBP3	38	6	52.68	1.884e-2	9.943e-2