

GeDiPNet Cluster 132 -- 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 07:51:23

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
Heme biosynthesis	Reactome	8	UROS, ALAS1, ALAD, HMBS, ALAS2, FECH, PPOX, UROD	14	11	623.90	4.620e-23	6.223e-20
Porphyrin metabolism	KEGG	8	UROS, ALAS1, ALAD, HMBS, ALAS2, FECH, PPOX, UROD	46	11	189.88	3.986e-18	2.372e-15
Biosynthesis of cofactors	KEGG	8	UROS, ALAS1, ALAD, HMBS, ALAS2, FECH, PPOX, UROD	154	11	56.72	9.725e-14	2.509e-11
Metabolic pathways	KEGG	8	UROS, ALAS1, ALAD, HMBS, ALAS2, FECH, PPOX, UROD	1563	11	5.59	9.266e-6	3.148e-4
Glycine, serine and threonine metabolism	KEGG	2	ALAS1, ALAS2	40	11	54.59	5.837e-4	8.992e-3
RUNX1 regulates transcription of genes involved in differentiation of HSCs	Reactome	2	GATA1, RUNX1	69	11	31.65	1.730e-3	2.052e-2
RUNX1 regulates genes involved in megakaryocyte differentiation and platelet function	Reactome	2	GATA1, RUNX1	97	11	22.51	3.386e-3	3.361e-2
RUNX2 regulates genes involved in differentiation of myeloid cells	Reactome	1	RUNX1	4	11	272.95	3.659e-3	3.541e-2
RUNX1 regulates expression of components of tight junctions	Reactome	1	RUNX1	5	11	218.36	4.572e-3	4.128e-2
RUNX1 regulates transcription of genes involved in interleukin signaling	Reactome	1	RUNX1	5	11	218.36	4.572e-3	4.128e-2
RUNX1 regulates transcription of genes involved in differentiation of keratinocytes	Reactome	1	RUNX1	6	11	181.97	5.484e-3	4.649e-2
RUNX1 regulates transcription of genes involved in BCR signaling	Reactome	1	RUNX1	6	11	181.97	5.484e-3	4.649e-2
RUNX1 regulates estrogen receptor mediated transcription	Reactome	1	RUNX1	6	11	181.97	5.484e-3	4.649e-2
RUNX1 regulates transcription of genes involved in WNT signaling	Reactome	1	RUNX1	6	11	181.97	5.484e-3	4.649e-2
RUNX1 regulates transcription of genes involved in differentiation of myeloid cells	Reactome	1	RUNX1	7	11	155.97	6.395e-3	5.149e-2