

GeDiPNet Cluster 128 -- 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](https://gedipnet.bicnirrh.res.in/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 08:12:36

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
Antigen processing and presentation	KEGG	8	B2M, CIITA, RFX5, RFXANK, RFXAP, TAP1, TAP2, TAPBP	81	26	45.62	4.255e-12	8.174e-10
Amyloid fiber formation	Reactome	8	FGA, LYZ, APCS, APP, GSN, TTR, APOA1, B2M	109	26	33.90	4.841e-11	7.478e-9
Primary immunodeficiency	KEGG	6	CIITA, RFX5, RFXANK, RFXAP, TAP1, TAP2	38	26	72.94	1.459e-10	2.039e-8
Antigen Presentation: Folding, assembly and peptide loading of class I MHC	Reactome	4	B2M, TAP1, TAP2, TAPBP	25	26	73.91	2.116e-7	1.255e-5
ER-Phagosome pathway	Reactome	4	B2M, TAP1, TAP2, TAPBP	30	26	61.59	4.552e-7	2.467e-5
Post-translational protein phosphorylation	Reactome	4	FGA, APOE, APP, APOA1	108	26	17.11	7.938e-5	1.857e-3
Retinoid metabolism and transport	Reactome	3	APOE, TTR, APOA1	41	26	33.80	9.092e-5	2.076e-3
Platelet degranulation	Reactome	4	FGA, APP, SERPINE1, APOA1	123	26	15.02	1.315e-4	2.799e-3
Regulation of Insulin-like Growth Factor (IGF) transport and uptake by Insulin-like Growth Factor Binding Proteins (IGFBPs)	Reactome	4	FGA, APOE, APP, APOA1	125	26	14.78	1.400e-4	2.943e-3
Chylomicron remodeling	Reactome	2	APOE, APOA1	9	26	102.65	1.607e-4	3.287e-3
Chylomicron assembly	Reactome	2	APOE, APOA1	9	26	102.65	1.607e-4	3.287e-3
HDL remodeling	Reactome	2	APOE, APOA1	10	26	92.38	2.007e-4	3.915e-3
Scavenging by Class A Receptors	Reactome	2	APOE, APOA1	11	26	83.99	2.449e-4	4.576e-3
Neutrophil degranulation	Reactome	6	LYZ, DSP, GSN, PSEN1, TTR, B2M	480	26	5.77	4.594e-4	7.465e-3
Tuberculosis	KEGG	4	CIITA, RFX5, RFXANK, RFXAP	181	26	10.21	5.755e-4	8.893e-3