

GeDiPNet Cluster 155 -- 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: 2026-10-08 03:30:07. · Rows: 15 · Generated: 2026-10-08 11:38:12

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
Common Pathway of Fibrin Clot Formation	Reactome	10	FGA, FGG, FGB, F2, F5, PROC, PROC, PROS1, SERPINC1, SERPIND1	22	29	188.24	7.427e-22	6.925e-19
Complement and coagulation cascades	KEGG	13	F11, FGA, FGG, FGB, F2, F5, PROC, PLAT, PLG, PROC, PROS1, SERPINC1	88	29	61.18	4.302e-21	3.409e-18
Intrinsic Pathway of Fibrin Clot Formation	Reactome	6	F11, F2, PROC, PROS1, SERPINC1, SERPIND1	23	29	108.04	1.120e-11	1.895e-9
Regulation of Insulin-like Growth Factor (IGF) transport and uptake by Insulin-like Growth Factor Binding Proteins (IGFBPs)	Reactome	8	FGA, FGG, F2, F5, PLG, PROC, SERPINC1, SERPIND1	125	29	26.50	3.926e-10	4.640e-8
Post-translational protein phosphorylation	Reactome	6	FGA, FGG, F5, PROC, SERPINC1, SERPIND1	108	29	23.01	1.846e-7	1.120e-5
Platelet degranulation	Reactome	6	FGA, FGG, FGB, F5, PLG, PROS1	123	29	20.20	3.999e-7	2.204e-5
Gamma-carboxylation of protein precursors	Reactome	3	F2, PROC, PROS1	9	29	138.05	1.053e-6	5.085e-5
Transport of gamma-carboxylated protein precursors from the endoplasmic reticulum to the Golgi apparatus	Reactome	3	F2, PROC, PROS1	9	29	138.05	1.053e-6	5.085e-5
Removal of aminoterminal propeptides from gamma-carboxylated proteins	Reactome	3	F2, PROC, PROS1	10	29	124.24	1.502e-6	6.935e-5
p130Cas linkage to MAPK signaling for integrins	Reactome	3	FGA, FGG, FGB	15	29	82.83	5.649e-6	2.141e-4
GRB2:SOS provides linkage to MAPK signaling for Integrins	Reactome	3	FGA, FGG, FGB	15	29	82.83	5.649e-6	2.141e-4
Platelet activation	KEGG	5	FGA, FGG, FGB, F2, PLCG2	126	29	16.43	1.139e-5	3.800e-4
Regulation of TLR by endogenous ligand	Reactome	3	FGA, FGG, FGB	19	29	65.39	1.195e-5	3.959e-4
Integrin signaling	Reactome	3	FGA, FGG, FGB	23	29	54.02	2.170e-5	6.526e-4
Cell surface interactions at the vascular wall	Reactome	4	F2, PROC, PROC, PROS1	84	29	19.72	4.629e-5	1.216e-3