

GeDiPNet Cluster 261 -- 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: 2026-10-07 22:20:37

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
Platelet activation	KEGG	9	GP1BA, GP1BB, GP9, RASGRP2, VWF, GP6, P2RY12, ITGA2, ITGA2B	126	15	57.19	5.473e-15	1.666e-12
Intrinsic Pathway of Fibrin Clot Formation	Reactome	6	GP1BA, GP1BB, GP9, VWF, SERPINC1, F11	23	15	208.87	1.201e-13	2.908e-11
Platelet Adhesion to exposed collagen	Reactome	5	GP1BA, GP1BB, GP9, VWF, GP6	11	15	363.94	6.641e-13	1.417e-10
ECM-receptor interaction	KEGG	7	GP1BA, GP1BB, GP9, VWF, GP6, ITGA2, ITGA2B	89	15	62.97	5.920e-12	1.060e-9
Platelet Aggregation (Plug Formation)	Reactome	4	GP1BA, GP1BB, GP9, VWF	8	15	400.33	1.100e-10	1.497e-8
GP1b-IX-V activation signalling	Reactome	4	GP1BA, GP1BB, GP9, VWF	12	15	266.89	7.753e-10	8.526e-8
Complement and coagulation cascades	KEGG	5	VWF, PLAT, SERPINC1, F11, F3	88	15	45.49	5.337e-8	3.751e-6
Hematopoietic cell lineage	KEGG	5	GP1BA, GP1BB, GP9, ITGA2, ITGA2B	100	15	40.03	1.017e-7	6.639e-6
Integrin signaling	Reactome	3	RASGRP2, VWF, ITGA2B	23	15	104.43	2.750e-6	1.171e-4
Integrin cell surface interactions	Reactome	3	VWF, ITGA2, ITGA2B	81	15	29.65	1.268e-4	2.743e-3
p130Cas linkage to MAPK signaling for integrins	Reactome	2	VWF, ITGA2B	15	15	106.76	1.515e-4	3.160e-3
GRB2:SOS provides linkage to MAPK signaling for Integrins	Reactome	2	VWF, ITGA2B	15	15	106.76	1.515e-4	3.160e-3
Signaling by high-kinase activity BRAF mutants	Reactome	2	VWF, ITGA2B	36	15	44.48	8.951e-4	1.276e-2
MAP2K and MAPK activation	Reactome	2	VWF, ITGA2B	40	15	40.03	1.105e-3	1.498e-2
Signaling by moderate kinase activity BRAF mutants	Reactome	2	VWF, ITGA2B	47	15	34.07	1.524e-3	1.913e-2