

GeDiPNet Cluster 335 -- 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 13:02:01

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
Parathyroid hormone synthesis, secretion and action	KEGG	2	GNA12, LRP5	115	10	20.89	3.890e-3	3.698e-2
Misspliced LRP5 mutants have enhanced beta-catenin-dependent signaling	Reactome	1	LRP5	6	10	200.17	4.986e-3	4.365e-2
Platelet Aggregation (Plug Formation)	Reactome	1	COL1A1	8	10	150.13	6.644e-3	5.278e-2
Negative regulation of TCF-dependent signaling by WNT ligand antagonists	Reactome	1	LRP5	8	10	150.13	6.644e-3	5.278e-2
RNF mutants show enhanced WNT signaling and proliferation	Reactome	1	LRP5	8	10	150.13	6.644e-3	5.278e-2
Platelet Adhesion to exposed collagen	Reactome	1	COL1A1	11	10	109.18	9.125e-3	6.495e-2
GP1b-IX-V activation signalling	Reactome	1	COL1A1	12	10	100.08	9.951e-3	6.820e-2
Interaction between L1 and Ankyrins	Reactome	1	ANK2	13	10	92.38	1.078e-2	7.186e-2
Proteoglycans in cancer	KEGG	2	ANK2, COL1A1	204	10	11.77	1.181e-2	7.588e-2
Extracellular matrix organization	Reactome	1	COL1A1	15	10	80.07	1.242e-2	7.776e-2
Anchoring fibril formation	Reactome	1	COL1A1	15	10	80.07	1.242e-2	7.776e-2
Crosslinking of collagen fibrils	Reactome	1	COL1A1	18	10	66.72	1.489e-2	8.659e-2
Cytoskeleton in muscle cells	KEGG	2	ANK2, COL1A1	232	10	10.35	1.510e-2	8.724e-2
Regulation of FZD by ubiquitination	Reactome	1	LRP5	21	10	57.19	1.735e-2	9.505e-2
Non-integrin membrane-ECM interactions	Reactome	1	COL1A1	24	10	50.04	1.981e-2	1.022e-1