

GeDiPNet Cluster 506 -- 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](scripts/build_cluster_enrichment.php) on gedipnet.bicnirrh.res.in. Data as of: 2026-10-20 03:30:09. · Rows: 15 · Generated: 2026-10-20 00:03:14

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
Rap1 signaling pathway	KEGG	4	GNAI2, FPR1, FGF7, PDGFB	211	8	28.46	6.134e-6	1.946e-4
Renin secretion	KEGG	2	GNAI2, KCNMA1	69	8	43.51	8.908e-4	1.040e-2
Melanoma	KEGG	2	FGF7, PDGFB	73	8	41.13	9.965e-4	1.132e-2
Constitutive Signaling by Aberrant PI3K in Cancer	Reactome	2	FGF7, PDGFB	75	8	40.03	1.052e-3	1.177e-2
Gap junction	KEGG	2	GNAI2, PDGFB	89	8	33.74	1.477e-3	1.522e-2
PIP3 activates AKT signaling	Reactome	2	FGF7, PDGFB	93	8	32.28	1.611e-3	1.625e-2
PI5P, PP2A and IER3 Regulate PI3K/AKT Signaling	Reactome	2	FGF7, PDGFB	103	8	29.15	1.972e-3	1.888e-2
RAF/MAP kinase cascade	Reactome	2	FGF7, PDGFB	124	8	24.21	2.843e-3	2.452e-2
Pathways in cancer	KEGG	3	GNAI2, FGF7, PDGFB	533	8	8.45	4.117e-3	3.193e-2
cGMP-PKG signaling pathway	KEGG	2	GNAI2, KCNMA1	166	8	18.09	5.034e-3	3.660e-2
Formyl peptide receptors bind formyl peptides and many other ligands	Reactome	1	FPR1	8	8	187.66	5.318e-3	3.801e-2
Ca2+ activated K+ channels	Reactome	1	KCNMA1	9	8	166.81	5.981e-3	4.097e-2
FGFR2b ligand binding and activation	Reactome	1	FGF7	10	8	150.13	6.644e-3	4.390e-2
PLC beta mediated events	Reactome	1	GNAI2	12	8	125.10	7.968e-3	4.940e-2
Chemical carcinogenesis - receptor activation	KEGG	2	GNAI2, FGF7	215	8	13.97	8.319e-3	5.067e-2