

GeDiPNet Cluster 81 -- 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 11:23:52

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
Colorectal cancer	KEGG	10	CCND1, CTNNB1, KRAS, BRAF, TGFA, APC, BAX, BCL2, CDKN1A, TP53	87	53	26.05	3.538e-12	6.904e-10
Hepatocellular carcinoma	KEGG	12	CCND1, CTNNB1, KRAS, BRAF, IGF2, TGFA, APC, BAX, CDKN1A, PRKCA, ARID1A, TP53	170	53	16.00	7.065e-12	1.305e-9
Gastric cancer	KEGG	11	CCND1, CTNNB1, KRAS, BRAF, APC, BAX, BCL2, CDKN1A, CDKN1B, MUC2, TP53	150	53	16.62	3.875e-11	6.142e-9
Endometrial cancer	KEGG	8	CCND1, CTNNB1, KRAS, BRAF, APC, BAX, CDKN1A, TP53	59	53	30.73	1.548e-10	2.153e-8
Thyroid cancer	KEGG	7	CCND1, CTNNB1, KRAS, BRAF, BAX, CDKN1A, TP53	37	53	42.87	2.010e-10	2.707e-8
Prostate cancer	KEGG	9	CCND1, CTNNB1, KRAS, BRAF, TGFA, BCL2, CDKN1A, CDKN1B, TP53	98	53	20.81	3.636e-10	4.585e-8
Pathways in cancer	KEGG	16	CCND1, CTNNB1, KRAS, BRAF, IGF2, TGFA, APC, BAX, BCL2, CDKN1A, CDKN1B, PRKCA	533	53	6.80	5.855e-10	6.961e-8
Non-small cell lung cancer	KEGG	8	CCND1, KRAS, BRAF, TGFA, BAX, CDKN1A, PRKCA, TP53	73	53	24.83	8.952e-10	1.017e-7
Glioma	KEGG	8	CCND1, KRAS, BRAF, TGFA, BAX, CDKN1A, PRKCA, TP53	76	53	23.85	1.243e-9	1.353e-7
Pancreatic cancer	KEGG	8	CCND1, KRAS, BRAF, TGFA, BAX, CDKN1A, BRCA2, TP53	77	53	23.54	1.383e-9	1.477e-7
Endocrine resistance	KEGG	8	CCND1, KRAS, BRAF, BAX, BCL2, CDKN1A, CDKN1B, TP53	99	53	18.31	1.045e-8	9.060e-7
Breast cancer	KEGG	9	CCND1, CTNNB1, KRAS, BRAF, APC, BAX, CDKN1A, BRCA2, TP53	148	53	13.78	1.434e-8	1.193e-6
Proteoglycans in cancer	KEGG	10	CCND1, CTNNB1, KRAS, BRAF, IGF2, CDKN1A, PRKCA, DROSHA, GPC3, TP53	204	53	11.11	1.656e-8	1.353e-6
Chronic myeloid leukemia	KEGG	7	CCND1, KRAS, BRAF, BAX, CDKN1A, CDKN1B, TP53	77	53	20.60	4.104e-8	2.992e-6
Small cell lung cancer	KEGG	7	CCND1, BAX, BCL2, CDKN1A, CDKN1B, MAX, TP53	93	53	17.06	1.532e-7	9.479e-6