

GeDiPNet Cluster 190 -- 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 07:27:28

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
RUNX1 interacts with co-factors whose precise effect on RUNX1 targets is not known	Reactome	9	SMARCB1, SMARCA4, ARID1A, ARID1B, ARID2, SMARCA2, SMARCC2, SMARCD1, SMARCE1	38	26	109.40	3.436e-17	1.501e-14
ATP-dependent chromatin remodeling	KEGG	11	SMARCB1, SMARCA4, ARID1A, ARID1B, ARID2, BICRA, DPF2, SMARCA2, SMARCC2, SMARCD1, SMARCE1	117	26	43.43	3.173e-16	1.178e-13
RMTs methylate histone arginines	Reactome	9	SMARCB1, SMARCA4, ARID1A, ARID1B, ARID2, SMARCA2, SMARCC2, SMARCD1, SMARCE1	79	26	52.62	4.117e-14	1.065e-11
Hepatocellular carcinoma	KEGG	9	SMARCB1, SMARCA4, ARID1A, ARID1B, ARID2, SMARCA2, SMARCC2, SMARCD1, SMARCE1	170	26	24.45	4.689e-11	6.876e-9
Thermogenesis	KEGG	9	SMARCB1, SMARCA4, RPS6KA3, ARID1A, ARID1B, SMARCA2, SMARCC2, SMARCD1, SMARCE1	234	26	17.77	8.128e-10	8.885e-8
Deactivation of the beta-catenin transactivating complex	Reactome	2	SOX4, SOX2	42	26	22.00	3.679e-3	3.611e-2
POU5F1 (OCT4), SOX2, NANOG repress genes related to differentiation	Reactome	1	SOX2	3	26	153.97	6.481e-3	5.312e-2
RSK activation	Reactome	1	RPS6KA3	4	26	115.48	8.632e-3	6.396e-2
CREB1 phosphorylation through NMDA receptor-mediated activation of RAS signaling	Reactome	1	RPS6KA3	5	26	92.38	1.078e-2	7.350e-2
CREB phosphorylation	Reactome	1	RPS6KA3	7	26	65.99	1.506e-2	8.969e-2
Gastrin-CREB signalling pathway via PKC and MAPK	Reactome	1	RPS6KA3	9	26	51.32	1.932e-2	1.040e-1
The activation of arylsulfatases	Reactome	1	ARSL	13	26	35.53	2.779e-2	1.275e-1
POU5F1 (OCT4), SOX2, NANOG activate genes related to proliferation	Reactome	1	SOX2	13	26	35.53	2.779e-2	1.275e-1
ERK/MAPK targets	Reactome	1	RPS6KA3	14	26	32.99	2.990e-2	1.323e-1
Transcriptional regulation of pluripotent stem cells	Reactome	1	SOX2	17	26	27.17	3.620e-2	1.467e-1