

GeDiPNet Cluster 178 -- Enriched GO Terms (Biological Process)

GO term enrichment: Biological Process terms (gene2go, human/tax_id=9606 only), upper-tail hypergeometric test, fold enrichment = (overlap / cluster gene count) / (term gene count / universe size), Benjamini-Hochberg FDR-corrected. Top 15 terms per cluster by q-value. See scripts/build_cluster_go_enrichment.php on gedipnet.bicnirrh.res.in. Data as of: 2026-10-07 03:23:06. · Rows: 15 · Generated: 2026-10-07 00:29:31

GO Term	GO ID	Overlap Genes	Overlap Gene Names	Term Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
platelet dense granule organization	GO:0060155	9	AP3B1, AP3D1, BLOC1S3, DTNBP1, HPS1, HPS3, HPS4, HPS5, HPS6	25	11	611.57	1.468e-25	4.937e-22
melanosome assembly	GO:1903232	7	AP3B1, AP3D1, HPS1, HPS3, HPS4, HPS5, HPS6	19	11	625.88	1.052e-19	1.635e-16
anterograde synaptic vesicle transport	GO:0048490	6	AP3B1, AP3D1, BLOC1S3, BLOC1S5, BLOC1S6, DTNBP1	17	11	599.58	9.651e-17	9.351e-14
melanosome organization	GO:0032438	6	AP3B1, AP3D1, BLOC1S3, BLOC1S5, BLOC1S6, DTNBP1	25	11	407.72	1.379e-15	1.041e-12
anterograde axonal transport	GO:0008089	6	AP3B1, AP3D1, BLOC1S3, BLOC1S5, BLOC1S6, DTNBP1	29	11	351.48	3.694e-15	2.626e-12
pigmentation	GO:0043473	6	AP3B1, BLOC1S3, BLOC1S6, HPS3, HPS5, HPS6	39	11	261.36	2.531e-14	1.532e-11
blood coagulation	GO:0007596	7	AP3B1, BLOC1S3, BLOC1S6, DTNBP1, HPS4, HPS5, HPS6	106	11	112.19	5.005e-14	2.894e-11
endosome to melanosome transport	GO:0035646	4	AP3D1, BLOC1S3, BLOC1S5, BLOC1S6	10	11	679.53	1.362e-11	4.861e-9
protein targeting	GO:0006605	4	AP3B1, AP3D1, BLOC1S6, HPS4	49	11	138.68	1.358e-8	2.230e-6
developmental pigmentation	GO:0048066	3	BLOC1S3, BLOC1S5, HPS5	14	11	364.03	5.504e-8	7.351e-6
protein transmembrane transport	GO:0071806	3	BLOC1S3, BLOC1S6, DTNBP1	19	11	268.23	1.463e-7	1.666e-5
melanosome transport	GO:0032402	3	BLOC1S3, BLOC1S5, BLOC1S6	22	11	231.66	2.323e-7	2.454e-5
positive regulation of pigment cell differentiation	GO:0050942	2	BLOC1S5, BLOC1S6	2	11	1698.82	3.150e-7	3.172e-5
vesicle-mediated transport	GO:0016192	5	AP3B1, AP3D1, BLOC1S5, HPS1, HPS4	326	11	26.06	6.643e-7	5.938e-5
neuron projection development	GO:0031175	4	BLOC1S3, BLOC1S5, BLOC1S6, DTNBP1	161	11	42.21	1.671e-6	1.250e-4