

GeDiPNet Shared-Gene Disease Pairs

Similarity: Jaccard index on shared curated genes (disease_gdp). Significance: upper-tail hypergeometric test ($P(X \geq k)$), Benjamini-Hochberg FDR-corrected across all tested pairs. Corroborated Shared Genes: count of shared genes backed by ≥ 2 distinct disease_gdp.main_source values combined across both diseases (e.g. GWAS-backed for one, ClinVar-backed for the other still counts); Shared Gene Names lists each gene's own source count in parentheses. Overlap Coefficient: shared genes / MIN(each disease's own total gene count) -- complements the Jaccard-based Similarity Score by showing how much of the SMALLER disease's entire known gene-set is covered by this pair, which Jaccard (dividing by the union) can understate. Shared Cluster: cluster id if both diseases fall in the same label-propagation cluster (scripts/build_disease_clusters.php), blank otherwise. See scripts/build_related.php on gedipnet.bicnirrh.res.in. Data as of: 2026-10-12 03:00:13. Filters applied: disease name contains "Trifunctional protein deficiency" (9 matching pairs). · Rows: 9 · Generated: 2026-10-12 02:54:00

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
mitochondrial trifunctional protein deficiency	Non-small cell lung carcinoma	1	1	HADHB (2)	0.00862	1.00000	7.469e-3	8.758e-3	
Fatty liver	mitochondrial trifunctional protein deficiency	1	1	HADHB (3)	0.01064	1.00000	6.040e-3	7.267e-3	
Fatty liver, alcoholic	mitochondrial trifunctional protein deficiency	1	1	HADHB (2)	0.01149	1.00000	5.585e-3	6.785e-3	
Rickets	Trifunctional protein deficiency	1	0	HADHB (1)	0.11111	0.33333	1.169e-3	1.895e-3	
mitochondrial trifunctional protein deficiency	Rickets	1	1	HADHB (2)	0.14286	1.00000	3.897e-4	8.665e-4	
long chain 3-hydroxyacyl-coa dehydrogenase deficiency	Trifunctional protein deficiency	1	1	HADHA (3)	0.25000	1.00000	1.948e-4	5.354e-4	
mitochondrial trifunctional protein deficiency	Trifunctional protein deficiency	1	1	HADHB (2)	0.25000	1.00000	1.948e-4	5.354e-4	
Fatty liver	Trifunctional protein deficiency	2	2	HADHA (2), HADHB (2)	0.02105	0.66667	1.078e-4	3.826e-4	
Fatty liver, alcoholic	Trifunctional protein deficiency	2	1	HADHA (2), HADHB (1)	0.02273	0.66667	9.216e-5	3.280e-4	