

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: 2026-10-11 03:00:14. Filters applied: disease name contains "phosphoenolpyruvate carboxykinase deficiency, cytosolic" (5 matching pairs). · Rows: 5 · Generated: 2026-10-10 21:55:54

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Congestive heart failure	phosphoenolpyruvate carboxykinase deficiency, cytosolic	1	1	PCK1 (2)	0.00556	1.00000	1.162e-2	1.305e-2	
Celiac disease	phosphoenolpyruvate carboxykinase deficiency, cytosolic	1	1	PCK1 (3)	0.00515	1.00000	1.253e-2	1.401e-2	
Heart failure	phosphoenolpyruvate carboxykinase deficiency, cytosolic	1	1	PCK1 (3)	0.00212	1.00000	3.052e-2	3.240e-2	
Hepatocellular carcinoma	phosphoenolpyruvate carboxykinase deficiency, cytosolic	1	1	PCK1 (2)	0.00154	1.00000	4.215e-2	4.398e-2	
Color vision deficiency	phosphoenolpyruvate carboxykinase deficiency, cytosolic	1	1	PCK1 (2)	0.00103	1.00000	6.274e-2	6.418e-2	