GeDiPNet Shared-Gene Disease Pairs

Similarity: Jaccard index on shared curated genes (disease_gdp). Significance: upper-tail hypergeometric test (P(X>=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: 2026-10-20 03:00:20. Filters applied: disease name contains "Microphthalmia with coloboma 6" (8 matching pairs). · Rows: 8 · Generated: 2026-10-20 03:48:17

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Congenital cystic eyeball	Microphthalmia with coloboma 6	2	2	GDF6 (2), GDF3 (2)	0.28571	1.00000	1.251e-7	8.632e-7	
Klippel-feil syndrome	Microphthalmia with coloboma 6	2	2	GDF6 (6), GDF3 (6)	0.25000	1.00000	1.751e-7	1.176e-6	
Deafness, autosomal recessive, 118, with cochlear aplasia	Microphthalmia with coloboma 6	1	0	GDF6 (1)	0.33333	1.00000	1.291e-4	3.269e-4	
Microphthalmia with coloboma 6	Oculo-skeletal syndrome	1	0	GDF6 (1)	0.33333	1.00000	1.291e-4	3.269e-4	
Microphthalmia with coloboma 6	Microphthalmia, isolated 4	1	0	GDF6 (1)	0.33333	1.00000	1.291e-4	3.269e-4	
Microphthalmia with coloboma 6	Multiple malformations	1	0	GDF3 (1)	0.33333	1.00000	1.291e-4	3.269e-4	
Microphthalmia with coloboma 6	Microphthalmia, isolated, with coloboma 6	1	0	GDF3 (1)	0.33333	1.00000	1.291e-4	3.269e-4	
Microphthalmia with coloboma 6	Microphthalmia, isolated, with coloboma 7	1	0	GDF3 (1)	0.25000	0.50000	2.583e-4	5.384e-4	