

V501I — WFS1 Molecular Atlas Card

Variant type: Missense

Substitution: Valine (V) → Isoleucine (I) at position 501

Domain context: Transmembrane helix 7

ALPHAMISSENSE

- **Pathogenicity score:** 0.0675
- **Class:** likely benign

ALPHAFOLD CONFIDENCE

- **pLDDT at residue 501:** 80.25

> **DynaMut2 $\Delta\Delta G$:** not yet computed for this variant — AlphaMissense + AlphaFold

> confidence shown above. Stability $\Delta\Delta G$ and the wild-type/mutant structural

> comparison backfill behind this note.

CLINICAL EVIDENCE

- **Classification:** Uncertain significance
 - **Review status:** criteria provided, multiple submitters, no conflicts
 - **Associated conditions:** Wolfram syndrome 1; Autosomal dominant nonsyndromic hearing loss 6; Type 2 diabetes mellitus; Wolfram-like syndrome; Cataract 41
 - **cDNA change:** c.1501G>A
 - **ClinVar accession:** VCV001341636
 - **Last evaluated:** 2024/10/13 00:00
 - **Submissions:** 1
-

Card generated by `wolfram-atlas-batch` (missense AlphaMissense mint) on 2026-06-08T02:27:33.581599Z.

AlphaMissense (Cheng et al. 2023) · AlphaFold model v6 · UniProt O76024.