

V582M — WFS1 Molecular Atlas Card

Variant type: Missense

Substitution: Valine (V) → Methionine (M) at position 582

Domain context: Transmembrane helix 9

ALPHAMISSENSE

- **Pathogenicity score:** 0.0808
- **Class:** likely benign

ALPHAFOLD CONFIDENCE

- **pLDDT at residue 582:** 86.56

> **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:** Cataract 41; Autosomal dominant nonsyndromic hearing loss 6; Wolfram syndrome 1; Type 2 diabetes mellitus; Wolfram-like syndrome
 - **cDNA change:** c.1744G>A
 - **ClinVar accession:** VCV001215749
 - **Last evaluated:** 2025/11/02 00:00
 - **Submissions:** 1
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Card generated by `wolfram-atlas-batch` (missense AlphaMissense mint) on 2026-06-08T02:27:33.635398Z.

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