

T686I — WFS1 Molecular Atlas Card

Variant type: Missense

Substitution: Threonine (T) → Isoleucine (I) at position 686

Domain context: C-terminal ER-luminal (calcium binding, calmodulin, chaperone)

ALPHAMISSENSE

- **Pathogenicity score:** 0.4564
- **Class:** ambiguous

ALPHAFOLD CONFIDENCE

- **pLDDT at residue 686:** 89.5

> **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; Wolfram-like syndrome; Autosomal dominant nonsyndromic hearing loss 6; Type 2 diabetes mellitus; Cataract 41
 - **cDNA change:** c.2057C>T
 - **ClinVar accession:** VCV003003312
 - **Last evaluated:** 2024/05/16 00:00
 - **Submissions:** 1
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Card generated by `wolfram-atlas-batch` (missense AlphaMissense mint) on 2026-06-08T02:27:33.706571Z.

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