

# I712V — WFS1 Molecular Atlas Card

**Variant type:** Missense

**Substitution:** Isoleucine (I) → Valine (V) at position 712

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

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## ALPHAMISSENSE

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- **Pathogenicity score:** 0.109
- **Class:** likely benign

## ALPHAFOLD CONFIDENCE

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- **pLDDT at residue 712:** 89.62

> **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.

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## CLINICAL EVIDENCE

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- **Classification:** Uncertain significance
- **Review status:** criteria provided, multiple submitters, no conflicts
- **Associated conditions:** Wolfram syndrome 1; Wolfram-like syndrome; Cataract 41; Autosomal dominant nonsyndromic hearing loss 6; Type 2 diabetes mellitus; Inborn genetic diseases
- **cDNA change:** c.2134A>G
- **ClinVar accession:** VCV000999148
- **Last evaluated:** 2025/09/14 00:00
- **Submissions:** 1

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Card generated by `wolfram-atlas-batch` (missense AlphaMissense mint) on 2026-06-08T02:27:33.719292Z.

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