

K843R — WFS1 Molecular Atlas Card

Variation type: Missense

Substitution: Lysine (K) → Arginine (R) at position 843

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

ALPHAMISSENSE

- **Pathogenicity score:** 0.1213
- **Class:** likely benign

ALPHAFOLD CONFIDENCE

- **pLDDT at residue 843:** 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:** Inborn genetic diseases; Wolfram-like syndrome; Autosomal dominant nonsyndromic hearing loss 6; Type 2 diabetes mellitus; Cataract 41; Wolfram syndrome 1
- **cDNA change:** c.2528A>G
- **ClinVar accession:** VCV001707913
- **Last evaluated:** 2025/03/03 00:00
- **Submissions:** 1

Card generated by wolfram-atlas-batch (missense AlphaMissense mint) on 2026-06-08T02:27:33.808158Z.

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