RARERESEARCH.AI · WFS1 MOLECULAR ATLAS · MISSENSE

R146H — WFS1 Molecular Atlas Card

Variant type: Missense

Substitution: Arginine (R) → Histidine (H) at position 146

Domain context: N-terminal cytoplasmic (intrinsically disordered)

ALPHAMISSENSE

- **Pathogenicity score:** 0.1515
- **Class:** likely benign

ALPHAFOLD CONFIDENCE

- **pLDDT at residue 146:** 92.31

> **DynaMut2 ΔΔG:** not yet computed for this variant — AlphaMissense + AlphaFold

> confidence shown above. Stability ΔΔG 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:** WFS1-related disorder; Inborn genetic diseases; Wolfram-like syndrome; Cataract 41; Autosomal dominant nonsyndromic hearing loss 6; Type 2 diabetes mellitus; Wolfram syndrome 1
- **cDNA change:** c.437G>A
- **ClinVar accession:** VCV001319042
- **Last evaluated:** 2026/01/18 00:00
- **Submissions:** 1

Card generated by `wolfram-atlas-batch` (missense AlphaMissense mint) on 2026-06-08T02:27:33.373181Z.

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