

Y652H — WFS1 Molecular Atlas Card

Variant type: Missense

Substitution: Tyrosine (Y) → Histidine (H) at position 652

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

ALPHAMISSENSE

- **Pathogenicity score:** 0.3371
- **Class:** likely benign

ALPHAFOLD CONFIDENCE

- **pLDDT at residue 652:** 64.62

> **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.

CLINICAL EVIDENCE

- **Classification:** Uncertain significance
 - **Review status:** criteria provided, single submitter
 - **Associated conditions:** Autosomal dominant nonsyndromic hearing loss 6; Cataract 41; Wolfram syndrome 1; Wolfram-like syndrome; Type 2 diabetes mellitus
 - **cDNA change:** c.1954T>C
 - **ClinVar accession:** VCV003590724
 - **Last evaluated:** 2024/04/05 00:00
 - **Submissions:** 1
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Card generated by `wolfram-atlas-batch` (missense AlphaMissense mint) on 2026-06-08T02:27:33.683395Z.

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