

A559T — WFS1 Molecular Atlas Card

Variant type: Missense

Substitution: Alanine (A) → Threonine (T) at position 559

Domain context: Lumenal loop 4

ALPHAMISSENSE

- **Pathogenicity score:** 0.3517
- **Class:** ambiguous

ALPHAFOLD CONFIDENCE

- **pLDDT at residue 559:** 87.12

> **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:** Benign/Likely benign
 - **Review status:** criteria provided, multiple submitters, no conflicts
 - **Associated conditions:** WFS1-Related Spectrum Disorders; Monogenic diabetes; Autosomal dominant nonsyndromic hearing loss 6; Wolfram syndrome 1
 - **cDNA change:** c.1675G>A
 - **ClinVar accession:** VCV000095322
 - **Last evaluated:** 2026/03/01 00:00
 - **Submissions:** 1
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Card generated by `wolfram-atlas-batch` (missense AlphaMissense mint) on 2026-06-08T02:27:33.621101Z.

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