

G581= — WFS1 Molecular Atlas Card

Variant type: Synonymous (silent)

Codon: position 581 (Glycine, G) — amino acid unchanged

Domain context: Transmembrane helix 9

SCHEMA CATEGORY: SILENT — SILENT — NO AMINO-ACID CHANGE

No amino-acid change (G581 is unchanged): the codon is altered but the protein sequence is identical to wild-type. No structural, stability or AlphaMissense effect applies. Synonymous variants are typically benign unless they affect splicing or regulatory elements; this one is not adjacent to an exon boundary.

CLINICAL EVIDENCE

- **Classification:** Conflicting classifications of pathogenicity
- **Review status:** criteria provided, conflicting classifications
- **Associated conditions:** Wolfram syndrome 1
- **cDNA change:** c.1743C>T
- **ClinVar accession:** VCV000166596
- **Last evaluated:** 2025/07/04 00:00
- **Submissions:** 1

Card generated by *wolfram-atlas-batch* (synonymous pipeline) on 2026-06-08T02:54:53.255545Z.

WFS1: UniProt O76024, AlphaFold v6. Synonymous variants carry no protein-structural effect.