RARERESEARCH.AI · WFS1 MOLECULAR ATLAS · SYNONYMOUS

F585= — WFS1 Molecular Atlas Card

Variant type: Synonymous (silent)

Codon: position 585 (Phenylalanine, F) — amino acid unchanged

Domain context: Transmembrane helix 9

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

No amino-acid change (F585 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:** Benign/Likely benign
- **Review status:** criteria provided, multiple submitters, no conflicts
- **Associated conditions:** Autosomal dominant nonsyndromic hearing loss 6; Type 2 diabetes mellitus; Wolfram-like syndrome; Cataract 41; Wolfram syndrome 1
- **cDNA change:** c.1755C>T
- **ClinVar accession:** VCV000718145
- **Last evaluated:** 2026/01/17 00:00
- **Submissions:** 1

Card generated by `wolfram-atlas-batch` (synonymous pipeline) on 2026-06-08T02:54:54.909793Z.

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