

V498= — WFS1 Molecular Atlas Card

Variant type: Synonymous (silent)

Codon: position 498 (Valine, V) — amino acid unchanged

Domain context: Transmembrane helix 7

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

No amino-acid change (V498 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:** Likely benign
- **Review status:** criteria provided, multiple submitters, no conflicts
- **Associated conditions:** Cataract 41; Wolfram-like syndrome; Wolfram syndrome 1; Autosomal dominant nonsyndromic hearing loss 6; Type 2 diabetes mellitus
- **cDNA change:** c.1494C>T
- **ClinVar accession:** VCV001597510
- **Last evaluated:** 2025/11/27 00:00
- **Submissions:** 1

Card generated by wolfram-atlas-batch (synonymous pipeline) on 2026-06-08T02:54:01.263406Z.

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