

# L481= — WFS1 Molecular Atlas Card

**Variant type:** Synonymous (silent)

**Codon:** position 481 (Leucine, L) — amino acid unchanged

**Domain context:** Transmembrane helix 6

---

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

---

No amino-acid change (L481 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:** Wolfram syndrome 1
- **cDNA change:** c.1441C>T
- **ClinVar accession:** VCV000179143
- **Last evaluated:** 2024/07/17 00:00
- **Submissions:** 1

---

Card generated by *wolfram-atlas-batch* (synonymous pipeline) on 2026-06-08T02:53:48.537613Z.

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