

c.316-14T_C — WFS1 Molecular Atlas Card

Variant type: Splice site

Boundary: acceptor (3' splice site) · intronic offset -14

Nearest protein position: ~106 (N-terminal cytoplasmic (intrinsically disordered))

SCHEMA CATEGORY: S3 — MINIMAL PREDICTED SPLICING IMPACT (SPLICEAI Δ S 0.00)

SpliceAI predicts little splicing disruption at this acceptor (3') site (max Δ S 0.00 < 0.2; acceptor-gain 0.00, acceptor-loss 0.00, donor-gain 0.00, donor-loss 0.00). The variant may be tolerated or act through a weak/again-tissue-specific mechanism; wet-lab RNA validation is the arbiter before any therapeutic call.

SPLICE PREDICTION

- **Affected site:** acceptor (3' splice site), extended splice region
- **SpliceAI delta scores** (GRCh38 chr4:6288973 T>C):
 - acceptor gain **0.00** · acceptor loss **0.00**
 - donor gain **0.00** · donor loss **0.00**
- **Predicted outcome:** Minimal predicted splicing impact (SpliceAI Δ S 0.00)

CLINICAL EVIDENCE

- **Classification:** Likely benign
- **Review status:** criteria provided, multiple submitters, no conflicts
- **Associated conditions:** Wolfram syndrome 1; Cataract 41; Wolfram-like syndrome; Autosomal dominant nonsyndromic hearing loss 6; Type 2 diabetes mellitus

- **cDNA change:** c.316-14T>C
 - **ClinVar accession:** VCV000385813
 - **Last evaluated:** 2025/07/23 00:00
 - **Submissions:** 1
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Card generated by `wolfram-atlas-batch` (splice pipeline) on 2026-06-08T07:50:09.966343Z.

Schema: `reference/card schemaextension.md` (S1–S3). WFS1: UniProt O76024, AlphaFold v6.