

# c.2390\_2391insACG — WFS1 Molecular Atlas Card

**Variant type:** In-frame indel

**Change:** 1 residue(s) inserted in frame at position 797

**Domain context:** C-terminal ER-luminal (calcium binding, calmodulin, chaperone)

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## SCHEMA CATEGORY: I2 — SINGLE-RESIDUE DELETION IN A SOLUBLE DOMAIN — VARIABLE IMPACT

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A single residue removed in C-terminal ER-luminal (calcium binding, calmodulin, chaperone) (a soluble, non-membrane region) may be tolerated or may locally distort the domain. Worth pharmacological-chaperone exploration if AlphaFold predicts a near-native fold. Predicted structure pending (ColabFold).

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## STRUCTURAL PREDICTION

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- **Reading frame:** preserved (in-frame) — no premature stop, NMD does not apply.
- **Affected domain:** C-terminal ER-luminal (calcium binding, calmodulin, chaperone)
- **Predicted modified structure:** \_pending — AlphaFold/ColabFold prediction of the

modified sequence and backbone-RMSD vs wild-type backfill here (Wave 2).\_  

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## CLINICAL EVIDENCE

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- **Classification:** Conflicting classifications of pathogenicity
- **Review status:** criteria provided, conflicting classifications
- **Associated conditions:** Wolfram syndrome 1
- **cDNA change:** c.2390\_2391insACG

- **ClinVar accession:** VCV000217514
  - **Last evaluated:** 2014/08/05 00:00
  - **Submissions:** 1
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Card generated by `wolfram-atlas-batch` (in-frame indel pipeline) on 2026-06-08T02:41:46.696689Z.

Schema: `reference/card schemaextension.md` (I1–I3). WFS1: UniProt O76024, AlphaFold v6.