

# S551= — WFS1 Molecular Atlas Card

**Variant type:** Synonymous (silent)

**Codon:** position 551 (Serine, S) — amino acid unchanged

**Domain context:** Transmembrane helix 8

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

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No amino-acid change (S551 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.

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## CLINICAL EVIDENCE

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- **Classification:** Conflicting classifications of pathogenicity
- **Review status:** criteria provided, conflicting classifications
- **cDNA change:** c.1653C>A
- **ClinVar accession:** VCV000624041
- **Last evaluated:** 2024/12/24 00:00
- **Submissions:** 1

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Card generated by *wolfram-atlas-batch* (synonymous pipeline) on 2026-06-08T02:54:28.371841Z.

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