

## Variant: *NM\_000206.3(IL2RG):c.281C>A (p.Ser94Ter)*

Version: 1.0

[CA413496915](#) 

[488696 \(ClinVar\)](#) 

**Gene:** IL2RG ([HGNC:3561](#))

**Condition:** T-B+ severe combined immunodeficiency due to gamma chain deficiency ([MONDO:0010315](#))

**Inheritance Mode:** X-linked inheritance

**UUID:** c4092af2-9815-4b28-8afb-597deb955bd3

**Approved on:** 2024-06-12

**Published on:** 2024-06-12

### *HGVS expressions*

#### **NM\_000206.3:c.281C>A**

NM\_000206.3(IL2RG):c.281C>A (p.Ser94Ter)

NC\_000023.11:g.71110677G>T

CM000685.2:g.71110677G>T

NC\_000023.10:g.70330527G>T

CM000685.1:g.70330527G>T

NC\_000023.9:g.70247252G>T

NG\_009088.1:g.5877C>A

NG\_021141.1:g.1112C>A

ENST00000482750.6:c.281C>A

ENST00000696903.1:n.332C>A

ENST00000374202.7:c.281C>A

ENST00000642473.1:n.645C>A

ENST00000644022.1:n.687C>A

ENST00000644708.1:n.687C>A

ENST00000644911.1:n.687C>A

ENST00000645266.1:c.281C>A

ENST00000645518.1:c.281C>A

ENST00000646106.1:c.281C>A

ENST00000646505.1:c.281C>A

ENST00000647492.1:c.281C>A

ENST00000276110.6:n.666C>A

ENST00000374188.7:c.-436C>A

ENST00000374202.6:c.281C>A

ENST00000456850.6:c.24+748C>A

ENST00000464642.5:c.149C>A

ENST00000473378.1:c.218C>A

ENST00000487883.1:c.245C>A

ENST00000512747.3:n.348C>A

NM\_000206.2:c.281C>A

**Pathogenic**

Met criteria codes **3**

PM2\_Supporting PP4 PVS1

Evidence Links **0**

Expert Panel

[Severe Combined Immunodeficiency Disease VCEP](#)

Criteria Specification Information

[Criteria Specification:](#) *ClinGen Severe Combined Immunodeficiency Disease Expert Panel Specifications to the ACMG/AMP Variant Interpretation Guidelines for IL2RG Version 1.0.0*

[Criteria Specification Approval History](#)







[Criteria Specifications for this VCEP](#)

Evidence submitted by expert panel

### ***Severe Combined Immunodeficiency Disease VCEP***

The c.281C>A (p.Ser94Ter) (NM\_000206.3) variant in IL2RG is a nonsense variant predicted to cause a premature stop codon in biologically-relevant-exon 3/8 leading to nonsense-mediated decay in a gene in which loss-of-function is an established disease mechanism (PVS1 Met).The variant is absent in gnomAD v4 (PM2\_supporting). Male Patient (0.5 pt.) with SCID (0.5 pt.) (Total : 1 pt. , PP4 met, PMID: 23250629). In summary, this variant meets the criteria to be classified as a Pathogenic variant for X-linked severe combined immunodeficiency due to IL2RG deficiency based on the ACMG/AMP criteria applied, as specified by the ClinGen SCID VCEP: PVS1,PM2\_supporting,PP4 (VCEP specifications version 1).

#### Met criteria codes

<b>PM2_Supporting</b>			The variant is absent in gnomAD v4 (PM2_supporting).
<b>PP4</b>			Male Patient (0.5 pt.) with SCID (0.5 pt.) (Total : 1 pt. , PP4 met, PMID: 23250629)
<b>PVS1</b>			The c.281C>A (p.Ser94Ter) (NM_000206.3) variant in IL2RG is a nonsense variant predicted to cause a premature stop codon in biologically-relevant-exon 3/8 leading to nonsense-mediated decay in a gene in which loss-of-function is an established disease mechanism (PVS1 Met).

[Curation History](#)

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