

Variant: *NM_000051.4(ATM):c.1810C>T (p.Pro604Ser)*

Version: 1.0

CA157068 [↗](#)

127343 (ClinVar) [↗](#)

Gene: ATM ([HGNC:472](#))

Condition: ATM-related cancer predisposition ([MONDO:0700270](#))

Inheritance Mode: Autosomal dominant inheritance

UUID: c43104b1-238b-496b-b4d2-7c03e1318375

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HGVS expressions

NM_000051.4:c.1810C>T

NM_000051.4(ATM):c.1810C>T (p.Pro604Ser)

NC_000011.10:g.108252824C>T

CM000673.2:g.108252824C>T

NC_000011.9:g.108123551C>T

CM000673.1:g.108123551C>T

NC_000011.8:g.107628761C>T

NG_009830.1:g.34993C>T

ENST00000452508.7:c.1810C>T

ENST00000713593.1:c.*1281C>T

ENST00000278616.9:c.1810C>T

ENST00000682516.1:n.1944C>T

ENST00000683174.1:n.1960C>T

ENST00000683605.1:n.1305C>T

ENST00000684037.1:c.*745C>T

ENST00000684061.1:n.1944C>T

ENST00000527805.6:c.1810C>T

ENST00000675595.1:c.1645C>T

ENST00000675843.1:c.1810C>T

ENST00000278616.8:c.1810C>T

ENST00000452508.6:c.1810C>T

ENST00000525012.5:n.4C>T

ENST00000527805.5:c.1810C>T

ENST00000533526.1:n.4C>T

NM_000051.3:c.1810C>T

NM_001351834.1:c.1810C>T

NM_001351834.2:c.1810C>T

Benign

Met criteria codes **1**

BA1

Not Met criteria codes **2**

BP4

PP3

Evidence Links **0**

Expert Panel

[Hereditary Breast, Ovarian and Pancreatic Cancer VCEP](#) [↗](#)

Criteria Specification Information

[↗](#) **Criteria Specification:** ClinGen Hereditary Breast, Ovarian and Pancreatic Cancer Expert Panel Specifications

Evidence submitted by expert panel

Hereditary Breast, Ovarian and Pancreatic Cancer VCEP

The c.1810C>T variant in ATM is a missense variant predicted to cause substitution of proline by serine at amino acid 604 (p.Pro604Ser). The filtering allele frequency (the lower threshold of the 95% CI of 71/6026) of the c.1810C>T variant in ATM is 0.009580 for the Middle Eastern chromosomes by gnomAD v4.1.0, which is higher than the HBOP VCEP threshold (>0.005) for BA1, and therefore meets this criterion. The computational predictor REVEL gives a score of 0.379, which is neither above nor below the thresholds predicting a damaging or benign impact on ATM function. In summary, this variant meets the criteria to be classified as benign for autosomal dominant ATM-related cancer predisposition and autosomal recessive Ataxia-Telangiectasia based on the ACMG/AMP criteria applied as specified by the HBOP VCEP. (BA1)

Met criteria codes

BA1			The GnomAD Filtering Allele Frequency is 0.009580, which is higher than the HBOP VCEP threshold (>0.5%) for BA1, meeting this criterion (BA1).
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Not Met criteria codes

BP4			The computational predictor REVEL gives a score of 0.379, which is neither above nor below the thresholds predicting a damaging or benign impact on ATM function (PP3, BP4 not met).
PP3			The computational predictor REVEL gives a score of 0.379, which is neither above nor below the thresholds predicting a damaging or benign impact on ATM function (PP3, BP4 not met).

Curation History [↗](#)







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