

Variant: *NM_000051.3(ATM):c.2639-17G>T*

Version: 2.0

[CA163513](#)

[140763 \(ClinVar\)](#)

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

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

Inheritance Mode: Autosomal dominant inheritance

UUID: 12e51ac3-f131-4b31-8659-d7e9bb1ed185

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HGVS expressions

NM_000051.3:c.2639-17G>T

NM_000051.3(ATM):c.2639-17G>T

NC_000011.10:g.108268393G>T

CM000673.2:g.108268393G>T

NC_000011.9:g.108139120G>T

CM000673.1:g.108139120G>T

NC_000011.8:g.107644330G>T

NG_009830.1:g.50562G>T

ENST00000452508.7:c.2639-17G>T

ENST00000713593.1:c.*2110-17G>T

ENST00000278616.9:c.2639-17G>T

ENST00000682516.1:n.2772+1051G>T

ENST00000683174.1:n.2789-17G>T

ENST00000684037.1:c.*1573+1051G>T

ENST00000527805.6:c.2639-17G>T

ENST00000675595.1:c.2474-17G>T

ENST00000675843.1:c.2639-17G>T

ENST00000278616.8:c.2639-17G>T

ENST00000452508.6:c.2639-17G>T

ENST00000527805.5:c.2639-17G>T

NM_001351834.1:c.2639-17G>T

NM_001351834.2:c.2639-17G>T

NM_000051.4:c.2639-17G>T

Benign

Met criteria codes **3**

BP4 **BA1** **BP2_Strong**

Not Met criteria codes **4**

BS1 **BP7** **PP3** **PM2**

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 to the ACMG/AMP Variant Interpretation Guidelines for ATM Version 1.1*







[Criteria Specification Approval History](#)

[Criteria Specifications for this VCEP](#)








Hereditary Breast, Ovarian and Pancreatic Cancer VCEP

The ATM c.2639-17G>T variant has a gnomAD v2.1.1 filtering allele frequency of 6.505% (African/African-American; exomes) which exceeds the ATM BA1 threshold of 0.50% (BA1). This variant has been observed in a homozygous state in multiple individuals without biallelic disease (BP2_Strong; GTR Lab ID: 61756). In silico splicing predictors (SpliceAI: AL 0.00/DL 0.00/AG 0.01/DG 0.00; MaxEntScan: +1.92% (wild type = 9.90, variant = 10.09)) find that this variant is unlikely to affect splicing (BP4). In summary, this variant meets criteria to be classified as benign based on the ACMG/AMP criteria applied as specified by the HBOP Variant Curation Expert Panel.

Met criteria codes

BP4			In silico splicing predictors (SpliceAI: AL 0.00/DL 0.00/AG 0.01/DG 0.00; MaxEntScan: +1.92% (wild type = 9.90, variant = 10.09)) find that this variant is unlikely to affect splicing (BP4).
BA1			GnomAD v2.1.1 FAF 6.505% (African/African-American; exomes) exceeds ATM BA1 threshold of 0.50%.
BP2_Strong			This variant has been observed in a homozygous state in multiple individuals without biallelic disease (BP2_Strong; GTR Lab ID: 61756).

Not Met criteria codes

BS1			No code specific comments provided, please refer to the summary above or general recommendations provided in the guideline
BP7			This variant is not considered deep intronic (beyond +20 or beyond -40).
PP3			No code specific comments provided, please refer to the summary above or general recommendations provided in the guideline
PM2			No code specific comments provided, please refer to the summary above or general recommendations provided in the guideline

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