

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

**Approved on:** 2022-03-09

**Published on:** 2025-09-15

### *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**

**BA1** **BP4** **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**

<b>BA1</b>			GnomAD v2.1.1 FAF 6.505% (African/African-American; exomes) exceeds ATM BA1 threshold of 0.50%.
<b>BP4</b>			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).
<b>BP2_Strong</b>			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**

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

	▼	▼
--	---	---

Showing 1 to 3 of 3 rows

--

The information on this website is not intended for direct diagnostic use or medical decision-making without review by a genetics professional. Individuals should not change their health behavior solely on the basis of information contained on this website. If you have questions about the information contained on this website, please see a health care professional.