

Variant: *NM_000051.4(ATM):c.1066-6T>G*

Version: 2.0

CA151456 [↗](#)

3038 (ClinVar) [↗](#)

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

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

Inheritance Mode: Autosomal dominant inheritance

UUID: bccd9f16-4086-4c14-8d78-04c52ad58630

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HGVS expressions

NM_000051.4:c.1066-6T>G

NM_000051.4(ATM):c.1066-6T>G

NC_000011.10:g.108248927T>G

CM000673.2:g.108248927T>G

NC_000011.9:g.108119654T>G

CM000673.1:g.108119654T>G

NC_000011.8:g.107624864T>G

NG_009830.1:g.31096T>G

ENST00000452508.7:c.1066-6T>G

ENST00000713593.1:c.*537-6T>G

ENST00000278616.9:c.1066-6T>G

ENST00000682516.1:n.1200-6T>G

ENST00000682956.1:n.1200-6T>G

ENST00000683174.1:n.1216-6T>G

ENST00000683605.1:n.561-6T>G

ENST00000684037.1:c.*1-6T>G

ENST00000684061.1:n.1200-6T>G

ENST00000684179.1:n.1035-6T>G

ENST00000527805.6:c.1066-6T>G

ENST00000675595.1:c.901-6T>G

ENST00000675843.1:c.1066-6T>G

ENST00000278616.8:c.1066-6T>G

ENST00000452508.6:c.1066-6T>G

ENST00000527805.5:c.1066-6T>G

NM_000051.3:c.1066-6T>G

NM_001351834.1:c.1066-6T>G

NM_001351834.2:c.1066-6T>G

Benign

Met criteria codes **2**

BS1 **BP2_Strong**

Not Met criteria codes **3**

PM2 **BA1** **BP4**

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 ATM c.1066-6T>G variant has a GnomAD (v2.1.1) filtering allele frequency of 0.2081% (NFE) which is above the ATM BS1 threshold of .05% (BS1). In silico predictors (SpliceAI Acceptor Loss 0.62; MaxEntScan -2.49) are indeterminate about whether this variant affects splicing. This variant has been observed in a homozygous and compound heterozygous state (presumed) in multiple individuals without Ataxia-Telangiectasia (BP2_Strong, GTR Lab IDs: 61756, 26957, 500031). 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

BS1			This variant has a GnomAD (v2.1.1) filtering allele frequency of 0.2% (NFE) which is above the ATM BS1 threshold of 0.05% (BS1).
BP2_Strong			This variant has been observed in a homozygous and compound heterozygous state (presumed) in multiple individuals without Ataxia-Telangiectasia (BP2_Strong, GTR Lab IDs: 61756, 26957, 500031).

Not Met criteria codes

PM2			No code specific comments provided, please refer to the summary above or general recommendations provided in the guideline
BA1			No code specific comments provided, please refer to the summary above or general recommendations provided in the guideline
BP4			In silico predictors (SpliceAI Acceptor Loss 0.62; MaxEntScan -2.49) are indeterminate about whether this variant affects splicing.

Curation History [↗](#)

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