

Product datasheet for **SC221017**

ATM (NM_000051) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	ATM (NM_000051) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	ATM
Synonyms:	AT1; ATA; ATC; ATD; ATDC; ATE; TEL1; TELO1
ACCN:	NM_000051
Insert Size:	2000 bp



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Insert Sequence: >SC221017 3'UTR clone of NM_000051
 The sequence shown below is from the reference sequence of NM_000051. The complete sequence of this clone may contain minor differences, such as SNPs.
 Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
CTTTCCAGGATGGAAAGCTTGGGTGTGATCTTCAGTATATGAATTACCCTTTCATTACAGCCTTTAGA
AATTATATTTTAGCCTTTATTTTAACTGCAACATACTTTAAGTAGGGATTAATTTTAAAGTGAAGT
ATTGTGGGTTTTTTGAATGTTGGTTTTAATACTTGATTAATCACCCTCAAAAATGTTTTGATGGTCT
TTAAGGAACATCTCTGCTTTCACCTTTAGAAATAATGGTCATTCCGGGCTGGGCGCAGCGGCTCACGCC
TGTAATCCAGCACTTTGGGAGGCCGAGGTGAGCGGATCACAAGGTCAGGAGTTCGAGACCAGCCTGGC
CAAGAGACCAGCCTGGCCAGTATGGTGAACCCCTGTCTCTACTAAAAATACAAAAATTAGCCGAGCATG
GTGGCGGGCACCTGTAATCCAGCTACTCGAGAGGCTGAGGCAGGAGAATCTCTTGAACCTGGGAGGTG
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AAAAAAAAAAAAAAAAAAGCAAAACGATTTTGGATTTTCTAGTAAGATCACTCAGTGTACTAAATA
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TAAAACCTCTCATTCTATTCTCTTTATCTTTAAGCCCTTCTGTACTGTCCATGTATGTTATCTTTCTG
TGATAACTTCATAGATTGCCCTTAGTTCATGAATCTCTTGTGATGATATAATCTCTTTTACCCT
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AGGCTGTTTCATCCAGTTTTGTCTTTTTGAAAAGTGAGTTTATTTTTCAGCAAGCCTTATCTATGGGAAT
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TTGGCTTTAGGGTTCCATACCTGAAGTGTAGCATAAATACTGATAGGAGATTTCCAGGCCAAGGCAA
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GGCAAATGTTCCAGGACAGCTACAGCATCAGCTCACATATTCACCTCTCTGGTTTTTTCATTTCCCTCA
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GTGCCAACACGCCGGCTAATTTTTTGTATTTTTATTAGAGACGGAGTTTACCCTGTTAGCCAGGATG
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CACCGCGCCCGCCTCATTCCCCTCATTTTTACCCTGAAGGATTTCCCCTTTCTTGAAGTTCTGTAT
GTATTTAAAGAATGTTTTTACATTTTATCCAGCATTTCTGTGTTCTGTTGGAAGGGGAGGGCTTA
GGTATCTAGTTTGATACATAGGTAGAAGTGAACATTTCTGTCCCCAGCTGTATCATATAAGAT
ACGCGTAAGCGGCCGCGGCATCTAGATTGAAGAAAATGACCGACCAAGCGACGCCAACCTGCCATCA
CGAGATTCGATTCACCGCCGCTTCTATGAAAGG
  
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Restriction Sites: SgfI-MluI

OTI Disclaimer: Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).

Components: The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

RefSeq: [NM_000051.4](#)

Summary: The protein encoded by this gene belongs to the PI3/PI4-kinase family. This protein is an important cell cycle checkpoint kinase that phosphorylates; thus, it functions as a regulator of a wide variety of downstream proteins, including tumor suppressor proteins p53 and BRCA1, checkpoint kinase CHK2, checkpoint proteins RAD17 and RAD9, and DNA repair protein NBS1. This protein and the closely related kinase ATR are thought to be master controllers of cell cycle checkpoint signaling pathways that are required for cell response to DNA damage and for genome stability. Mutations in this gene are associated with ataxia telangiectasia, an autosomal recessive disorder. [provided by RefSeq, Aug 2010]

Locus ID: 472

MW: 76.9