



# SZABO SCANDIC

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## Produktinformation



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Diagnostik & molekulare Diagnostik



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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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## ATM Pre-design Chimera RNAi

Catalog # : H00000472-R07

規格 : [ 10 nmol ] [ 20 nmol ]

List All

### Specification

**Product Description:** Homo sapiens ataxia telangiectasia mutated (includes complementation groups A, C and D) (ATM), transcript variant 1, mRNA.

**Reactivity:** Human

**Supplied Product:** DEPC water

**Target Refseq:** NM\_000051

**Target Region:** Coding sequence

**Storage Instruction:** Store at -20°C, do not exceed 4 - 5 freeze-thaw cycles to ensure product integrity.

**Note:** Position of the Chimera RNAi.  
The related RNAi products listed below were designed from different accession number but sharing the same RNAi sequence.



### Application Image

RNAi Knockdown

### Publication Reference

- [dsCheck: highly sensitive off-target search software for double-stranded RNA-mediated RNA interference.](#)  
Naito Y, Yamada T, Matsumiya T, Ui-Tei K, Saigo K, Morishita S. *Nucleic Acids Res.* 2005 Jul 1;33(Web Server issue):W589-91.
- [Functional dissection of siRNA sequence by systematic DNA substitution: modified siRNA with a DNA seed arm is a powerful tool for mammalian gene silencing with significantly reduced off-target effect.](#)  
Ui-Tei K, Naito Y, Zenno S, Nishi K, Yamato K, Takahashi F, Juni A, Saigo K. *Nucleic Acids Res.* 2008 Apr;36(7):2136-51. Epub 2008 Feb 11.
- [Guidelines for the selection of highly effective siRNA sequences for mammalian and chick RNA interference.](#)  
Ui-Tei K, Naito Y, Takahashi F, Haraguchi T, Ohki-Hamazaki H, Juni A, Ueda R, Saigo K. *Nucleic Acids Res.* 2004 Feb 9;32(3):936-48. Print 2004.
- [siDirect: highly effective, target-specific siRNA design software for mammalian RNA interference.](#)  
Naito Y, Yamada T, Ui-Tei K, Morishita S, Saigo K. *Nucleic Acids Res.* 2004 Jul 1;32(Web Server issue):W124-9.

### Applications

RNAi Knockdown

### Gene Information

Entrez GeneID: [472](#)

**Gene Name:** ATM

**Gene Alias:** AT1,ATA,ATC,ATD,ATDC,ATE,DKFZp781A0353,MGC74674,TEL1,TEL01

**Gene Description:** ataxia telangiectasia mutated

**Omim ID:** [114480](#), [208900](#), [607585](#)

**Gene Ontology:** [Hyperlink](#)

**Gene 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. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]

**Other Designations:** AT mutated,TEL1, telomere maintenance 1, homolog,ataxia telangiectasia mutated (includes complementation groups A, C and D),ataxia telangiectasia mutated protein,human phosphatidylinositol 3-kinase homolog,serine-protein kinase ATM

#### Gene Pathway

[Apoptosis](#) [Cell cycle](#) [p53 signaling pathway](#)

#### Related Disease

[Acute Disease](#) [Adenocarcinoma](#) [Ataxia Telangiectasia](#) [Ataxia telangiectasia](#) [Atherosclerosis](#) [Brain Neoplasms](#) [Breast cancer](#) [Breast Neoplasms](#) [Carcinoma](#) [Carcinoma, Ductal, Breast](#) [Carcinoma, Lobular](#) [Carcinoma, Non-Small-Cell Lung](#) [Carcinoma, Pancreatic Ductal](#) [Carcinoma, Squamous Cell](#) [Cardiovascular Diseases](#) [Chromosome Aberrations](#) [Cocarcinogenesis](#) [Colorectal Neoplasms](#) [Colorectal Neoplasms, Hereditary Nonpolyposis](#)

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