

Product datasheet for RC219519

ATRX (NM_138270) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATRX (NM_138270) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ATRX
Synonyms:	JMS; MRX52; RAD54; RAD54L; XH2; XNP; ZNF-HX
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC219519 representing NM_138270 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACCGCTGAGCCCATGAGTGAAAGCAAGTTGAATACATTGGTGCAGAAGCTTCATGACTTCCTTGAC
ACTCATCAGAAGAATCTGAAGAAACAAGTTCTCCTCCAGACTTGCAATGAATCAAAACACAGATAAAAT
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC219519 representing NM_138270
 Red=Cloning site Green=Tags(s)

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 TFEPDLLDDPNSEKKKRDTMPLPKDTILAELLQIHKEHIVGYHEHDSL LDHKEEELTEEERKAAWAEY
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 PLEDIIISAVWKENMNLSEAQVQALALSRQASQELDVKRREAIYNDVLTQQMLISCVQRILMNRRLQQQY
 NQQQQQMTYQQATLGHLMMPKPPNLIMNPSNYQQIDMRGMYQP VAGGMQPPPLQRAPPPMRSKNPGPSQ
 GKSM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8019_c04.zip
Restriction Sites: SgfI-Mlul

Cloning Scheme:


ACCN: NM_138270

ORF Size: 7362 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_138270.2](#)

RefSeq Size: 11124 bp

RefSeq ORF: 7365 bp

Locus ID: 546

UniProt ID: [P46100](#)

Cytogenetics: Xq21.1

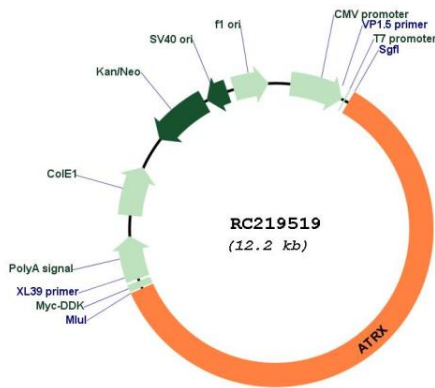
Domains: SNF2_N, DEAD, helicase_C

Protein Families: Druggable Genome, Transcription Factors

MW: 407.9 kDa

Gene Summary: The protein encoded by this gene contains an ATPase/helicase domain, and thus it belongs to the SWI/SNF family of chromatin remodeling proteins. This protein is found to undergo cell cycle-dependent phosphorylation, which regulates its nuclear matrix and chromatin association, and suggests its involvement in the gene regulation at interphase and chromosomal segregation in mitosis. Mutations in this gene are associated with X-linked syndromes exhibiting cognitive disabilities as well as alpha-thalassemia (ATRX) syndrome. These mutations have been shown to cause diverse changes in the pattern of DNA methylation, which may provide a link between chromatin remodeling, DNA methylation, and gene expression in developmental processes. Multiple alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq, Jul 2017]

Product images:



Circular map for RC219519