

Product datasheet for **SC309875**

ATRX (NM_138270) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: ATRX (NM_138270) Human Untagged Clone
Tag: Tag Free
Symbol: ATRX
Synonyms: JMS; MRX52; RAD54; RAD54L; XH2; XNP; ZNF-HX
Vector: pCMV6 series
Fully Sequenced ORF: >NCBI ORF sequence for NM_138270, the custom clone sequence may differ by one or more nucleotides

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ATGACCGCTGAGCCCATGAGTGAAGCAAGTTGAATACATTGGTGCAGAAGCTTCATGAC
TTCCTTGCACTCATCAGAAGAATCTGAAGAAACAAGTTCTCCTCCAGACTTGCAATG
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 ATGAGAAGCAAAAATCCAGGACCTTCCAAGGGAATCAATGTGA

Restriction Sites:

Please inquire

ACCN:

NM_138270

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<ol style="list-style-type: none">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_138270.1 , NP_612114.1
RefSeq Size:	10216 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
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) lacks a segment within the coding region when compared to variant 1. The translation remains in-frame, and thus results in an isoform (2) that lacks an internal segment, as compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>