OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC234736

ATRIP (NM_001271023) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATRIP (NM_001271023) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ATRIP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC234736 representing NM_001271023
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCAAAAAATCCTTCAGGGAAAAACAGAGAAACTGTTCCAATTAAAGATAATTTCGAATTAGAGGTAC
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ACGAGCAAATAAACTGGCTGCTCCCTCTGTTTCCCATGTCAGTCCTAGGAAAAACCCTTCTGTGGTTATA
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TAAGCCTTTGCCACCTCCTGAGTAGTAGTTCTGAGTCTCCTGCTGGCACCCCCCTGCAGCCACCAGGGTT
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GCCCTGAGAGAAGCACAGAACCTGGCATTCACTGGACTGAATCTGGTTGCCCGGAATGAGTGCTCACGTG
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CCCCCTTGTACAGTTCTTCATCGGCTTACACTGCCAGGCCCTGCAGGACTTGGCAGCTGCTAAGAGAAGC
GGAGCACCTGGGGACTCACCGACACATTCCTCCTGCGTGAGCTCTGGGGTAGAGACCAACCCTGAGGACT
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CCTCCTGCTGCTGCTGTACATGTACATCACATCACGGCCTGACAGAGTGGCCTTGGAGACACAATGGCTC
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AGTTTGACCAGGTGATGCCGGGGGTCAGCATGCTCATCCGAGGGCTTCCTGATGTGACGGACTGTGAAGA
GGCAGCCCTGGATGACCTCTGTGCCGCGGAAACCGATGTGGAAGACCCCGAGGTGGAGTGTGGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC234736 representing NM_001271023
Red=Cloning site Green=Tags(s)

MSKNPSGKNRETVPIKDNFELEVLQAQYKELKEKMKVMEEEVLIKNGEIKILRDSLHQTESVLEEQRRSH
FLLEQEKTQALSDKEKEFSKKLQSLQSELQFKDAEMNELRTKLQTSERANKLAAPSVSHVSPRKNPSVVI
KPEACSPQFGKTSFPTKESFSANMSLPHPCQTESGYKPLVGREDSKPHSLRGDSIKQEEAQKSFVDSWRQ
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ALREAQNLAFTGLNLVARNECSRDGDPAEGGRRAFPLCQLPGAVHFLPLVQFFIGLHCQALQDLAAAKRS
GAPGDSPTHSSCVSSGVETNPEDSVCILEGFSVTALSILQHLVCHSGAVVSLLLSGVGADSAAGEGNRSL
VHRLSDGDMTSALRGVADDQGQHPLLKMLLHLLAFSSAATGHLQASVLTQCLKVLVKLAENTSCDFLPRF
QCVFQVLPKCLSPETPLPSVLLAVELLSLLADHDQLAPQLCSHSEGCLLLLLYMYITSRPDRVALETQWL
QLEQEVVWLLAKLGVQSPLPPVTGSNCQCNVEVVRALTVMLHRQWLTVRRAGGPPRTDQQRRTVRCLRDT
VLLLHGLSQKDKLFMMHCVEVLHQFDQVMPGVSMLIRGLPDVTDCEEAALDDLCAAETDVEDPEVECG

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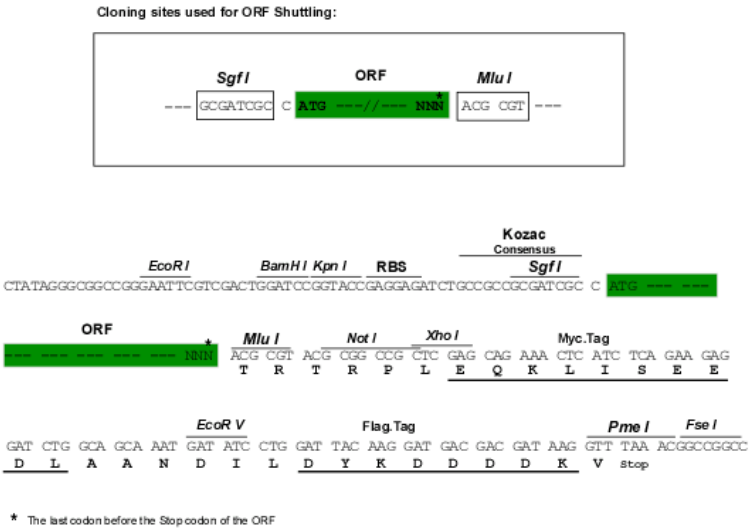
Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001271023

ORF Size: 2094 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_001271023.2

RefSeq Size: 2676 bp

RefSeq ORF: 2097 bp

Locus ID: 84126

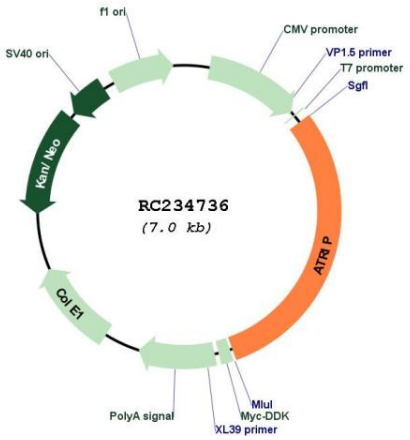
UniProt ID: Q8WXE1

Cytogenetics: 3p21.31

MW: 76.8 kDa

Gene Summary: This gene encodes an essential component of the DNA damage checkpoint. The encoded protein binds to single-stranded DNA coated with replication protein A. The protein also interacts with the ataxia telangiectasia and Rad3 related protein kinase, resulting in its accumulation at intranuclear foci induced by DNA damage. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2012]

Product images:



Circular map for RC234736