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Product datasheet for RC204312

ATRIP (NM_032166) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATRIP (NM_032166) 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:

>NM_032166 ORF sequence, RC204312 may differ due to SNPs.
Blue=ORF Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCGGGGACCTCCGCGCCAGGCAGCAAGAGGCGGAGCGAGCCCCCGGCGCCTCGCCCCGGCCCGCCG
CCGGGCACCGGGCACCCCCCGAGCAAGCGGGCCCGGGGCTTCTCCGCAGCCGCTGCCCCGGACCCTGAC
GACCCGTTCGGCGCGCATGGGGACTTCACTGCCGACGACCTGGAGGAGCTTGACACCCTCGCGTCACAG
GCCCTGAGCCAATGTCCGGCCGCGGCTCGGGACGTGTCCAGTGATCATAAGGTCCACAGATTATTAGAT
GGCATGTCAAAAAATCCTTCAGGGAAAAACAGAGAAACTGTTCCAATTAAAGATAATTTCGAATTAGAG
GTACTTCAGGCACAATACAAAGAACTTAAAGAAAAGATGAAAGTAATGGAAGAAGAAGTTCTCATTAAG
AATGGAGAAATTAAAATTTTGCGAGACTCACTACATCAGACGGAATCCGTTCTAGAGGAACAGAGAAGA
TCACATTTTCTTCTTGAGCAAGAGAAAACCCAAGCACTCAGTGACAAGGAAAAGGAATTCTCCAAAAAG
CTCCAATCATTGCAGTCTGAACTCCAGTTTAAAGATGCAGAGATGAATGAATTAAGGACAAAGCTCCAG
ACCAGTGAACGAGCAAATAAACTGGCTGCTCCCTCTGTTTCCCATGTCAGTCCTAGGAAAAACCCTTCT
GTGGTTATAAAGCCAGAAGCATGTTCTCCACAATTTGGAAAAACATCTTTTCCTACAAAGGAGTCTTTT
AGTGCTAACATGTCCCTTCCCCACCCCTGCCAGACGGAGTCAGGATACAAGCCTCTGGTGGGCAGAGAG
GATAGTAAGCCCCACAGTCTGAGAGGTGACTCCATAAAACAAGAAGAGGCCCAGAAAAGCTTTGTTGAC
AGCTGGAGACAGAGATCAAACACTCAAGGTTCCATTTTGATAAACCTGCTCCTGAAGCAGCCTTTGATC
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CAGCCACCAGGGTTTGGCAGTACCTTGGCTGGAATGTCAGGCCTCAGGACCACAGGTTCTTATGATGGG
TCATTTTCCCTCTCAGCCCTGAGAGAAGCACAGAACCTGGCATTCACTGGACTGAATCTGGTTGCCCGG
AATGAGTGCTCACGTGATGGAGACCCAGCAGAGGGAGGCAGAAGGGCCTTCCCACTCTGCCAGCTTCCT
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GCAGCTGCTAAGAGAAGCGGAGCACCTGGGGACTCACCGACACATTCCTCCTGCGTGAGCTCTGGGGTA
GAGACCAACCCTGAGGACTCAGTGTGCATCCTGGAAGGCTTCTCTGTGACTGCACTTAGCATTCTTCAG
CACCTGGTGTGCCACAGCGGAGCAGTCGTCTCCCTATTACTGTCAGGAGTGGGGGCAGATTCTGCTGCT
GGGGAAGGAAACAGGAGCCTGGTTCACAGGCTTAGTGATGGAGATATGACCTCAGCCCTAAGGGGGGTT
GCTGATGACCAAGGACAGCACCCACTGTTGAAGATGCTTCTTCACCTGTTGGCTTTCTCTTCTGCAGCA
ACAGGTCACCTTCAAGCCAGTGTCCTGACCCAGTGCCTTAAGGTTTTGGTGAAATTAGCCGAAAACACT
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CCCCTGCCTAGCGTGCTGCTGGCTGTTGAGCTCCTCTCCCTGCTGGCGGACCACGACCAGCTGGCACCT
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AGAGTGGCCTTGGAGACACAATGGCTCCAGCTGGAACAAGAGGTGGTCAGAGCGCTCACGGTGATGTTG
CACAGACAGTGGCTGACAGTGCGGAGGGCAGGGGGACCCCCAAGGACCGACCAGCAGAGGCGGACAGTG
CGCTGTCTGCGGGACACGGTGCTGCTGCTGCACGGCCTATCGCAGAAGGACAAGCTCTTCATGATGCAC
TGCGTGGAGGTCCTGCATCAGTTTGACCAGGTGATGCCGGGGGTCAGCATGCTCATCCGAGGGCTTCCT
GATGTGACGGACTGTGAAGAGGCAGCCCTGGATGACCTCTGTGCCGCGGAAACCGATGTGGAAGACCCC
GAGGTGGAGTGTGGC
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Protein Sequence:

>Peptide sequence encoded by RC204312
Blue=ORF Red=Cloning site Green=Tag(s)

MAGTSAPGSKRRSEPPAPRPGPPPGTGHPPSKRARGFSAAAAPDPDDPFGAHGDFTADDLEELDTLASQ
ALSQCPAAARDVSSDHKVHRLLDGMSKNPSGKNRETVPIKDNFELEVLQAQYKELKEKMKVMEEEVLIK
NGEIKILRDSLHQTESVLEEQRRSHFLLEQEKTQALSDKEKEFSKKLQSLQSELQFKDAEMNELRTKLQ
TSERANKLAAPSVSHVSPRKNPSVVIKPEACSPQFGKTSFPTKESFSANMSLPHPCQTESGYKPLVGRE
DSKPHSLRGDSIKQEEAQKSFVDSWRQRSNTQGSILINLLLKQPLIPGSSLSLCHLLSSSSESPAGTPL
QPPGFGSTLAGMSGLRTTGSYDGSFSLSALREAQNLAFTGLNLVARNECSRDGDPAEGGRRAFPLCQLP
GAVHFLPLVQFFIGLHCQALQDLAAAKRSGAPGDSPTHSSCVSSGVETNPEDSVCILEGFSVTALSILQ
HLVCHSGAVVSLLLSGVGADSAAGEGNRSLVHRLSDGDMTSALRGVADDQGQHPLLKMLLHLLAFSSAA
TGHLQASVLTQCLKVLVKLAENTSCDFLPRFQCVFQVLPKCLSPETPLPSVLLAVELLSLLADHDQLAP
QLCSHSEGCLLLLLYMYITSRPDRVALETQWLQLEQEVVRALTVMLHRQWLTVRRAGGPPRTDQQRRTV
RCLRDTVLLLHGLSQKDKLFMMHCVEVLHQFDQVMPGVSMLIRGLPDVTDCEEAALDDLCAAETDVEDP
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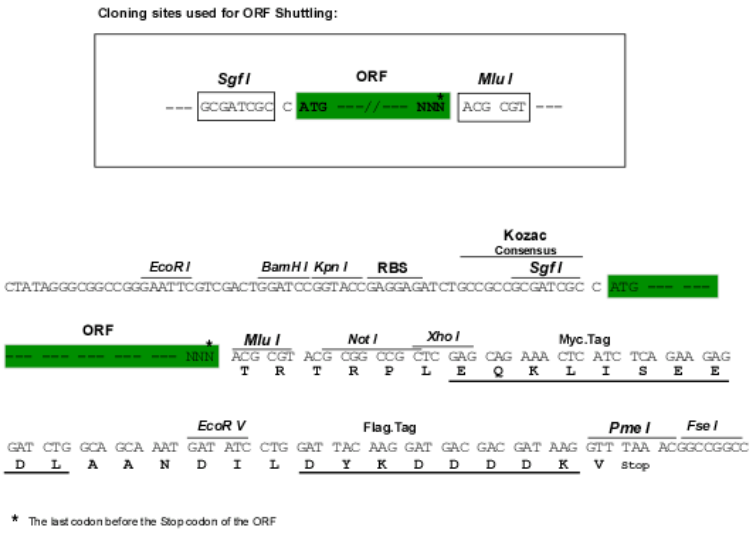
Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_032166

ORF Size: 2292 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_032166.4

RefSeq Size: 4495 bp

RefSeq ORF: 2295 bp

Locus ID: 84126

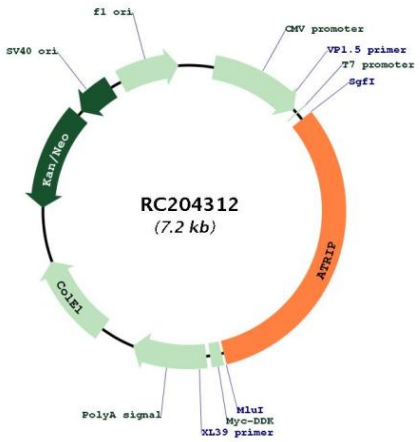
UniProt ID: Q8WXE1

Cytogenetics: 3p21.31

MW: 83 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 RC204312