

Product datasheet for **MR218096**

Atrip (NM_172774) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atrip (NM_172774) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Atrip
Synonyms:	6620401K05Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR218096 representing NM_172774
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCCGGGACCCCCGCACCGAACGCCACAGGAAACAGAGTGGCGGCCCTGGAGCCTTCCCGGTCTGT
CTCGATCCATTGAGAACCCTCCGAGCAAGCGGGCCGGAGCTTCTCTGAGACCACAGTCCCGGACCCCGA
AGACCCATTTCGGTGAGCACGCGGAATTTACTGCGGACGACCTAGAGGAACTCGACATCCTCGCGTACAG
GCCCTGAGCCAGTGTCCCGTCGCGCCTCGGAACCTGTCCAGTGCTCATAAGGTCCGCCGATTAGATGGGT
TACCAAAAGTCTATAAGGAAAAGCAGAGAAGATATTCCAGTTAAAGATAATTTTGAATTAGAAGTACT
TCAGATACAATACAAAGAACTTAAAGAAAAGCTGAAAGCAATGGAAGAAGAAATCCTAATTAAGAATGGA
GAAATTAATTTTTCGCTGACTCTCTGCGTCAGACAGAATCCGTTCTAGAAGAACAGAAAAGATCACATT
TCCTTCTTGAGCAAGAAAAGACTCAAGCACTCAGTAAAAGGAAAAGGAATTCAGAAAAGCTCCAATC
ACTGCAGTCTGAACTGCAGTTTAAAGACGCAGAAATGAATGAGTTAAGGACAAAGTCTCAGAGCAACGGA
CGAACAATAAGCCAGCCGCTCCCTCCGCTCCCACGTCAGTCCAGGAAAGGCTTCTGTGGTTCTCA
AGTCAGAAGCATGTTCTCCACATGTTGGAAAAACAACCTTCCCTACAAAAGAATCTTTTAGTGCTAACAC
GCCTCTTCCACCCCTGTGAGACTGAGGCAGGACACAGATTTCTGGTGGGCCAAGAGGTTTCAGATAAT
AAAAACCACAGTCTGGGAGGTAGCCTCATGAAGCAAGATGTGCAGCAGAGAATTCGGTGTGAGGCTGGA
TGCAGAGAAAAGATGCTCAAGTTCTATTTTGATAAACTTGTCTCTGAAGCAACCTTTGGTGCCAGGGTC
ATCTCTAGGTCTTTGTCACCTTCTGAGCAGTTGTCTGAGGTTCTACTGGCACCTCTTGCCAGCCACCA
GGGCTCAGTACTTTCCCTGGGACTTCAGGCCTCAGGACCATCAGTCTTCTGATGGGCCATTTTCCCCT
CTGCCCTGAGAGAAGCACAGAACTTGGCATTACTGGATTAATCTGGTTGCCAGGACTGAGAGCTCACA
TGATGGAGACATGGCAGGCAGAAGAGTCTTCCCGCTCCACCAGTTCCTGGAGCTGTGCATCTCCTTCT
CTTGTCAGTTTTTTCGTCGGCTTACACTGCCAGGCTCTGCAAGATTTAGCCCCAGCTAAGAAGAGTGGGG
TGCTGGGACTCTGCGACACATACCTCTGCATGAGCTCTGGGGTCGAGGCTAGCCAGAGGACTCCAT
TCATGGCTTGAGAGCTTTTCTGTGGCATCACTCAGCGTCCTCAGAACCTGGTGTGCCACAGTGGGGCA
GTTGTCTGCCTGTTACTGTGAGGATGGGGACAGAAGCTGCCGCCAGGGAAGGAACTTGGTCCAGACTT
GTGCAGATACAACCTCAGCCTCCAGGGAGGATGCTCATGACCAAGACCAGCACCCACTGCTAAAGATGCT
TCTTCAGCTGATGGCTTCTCCTCTGCAGCATCAGGTCATTTTCAAGCCAGTGCCTGGGCTGTGCCTC
AAAGTTTTGGTGAATTAGCAGAAAACGCTTCCCTGATTTGTTGCCAGGTTCTCCTGTGTGTTCCCGG
TGTGGCCACAGTGCCTCGGCTCAGCGCTGCCGCTGCCCTGTGTGCTCCTGGCTGTTGAGCTGCTCTCTGT
GCTGCTGGACATGACAGCCTAGCATGGCAGTATGCTCCCACCCAGAAGGCTGCCTTCTCCTGAGGCTG
TACATGTACATCACATCAAGGCCTGACAGAACGGCCTCAGAGACACAGTGGCTTCAGCTGGAACAAGAGG
TAGTATGGCTCTTGGCCAAGCTGAGTGTACAGAGCCCTGCCCCGCTGGCATTGGTTCTGACTGTCACTG
CAATGTAGAGGCAGTCAAGCGCTCACTGTGATGTTGCACAGGCAATGGCTGACGGTGGCGGGGCAGGA
GGTCCAAGGACCCACCAGCAGAAGCAGACGATACGCTGTCTGCGGGACACTGTGCTGTGCTGCATAGCC
TATCTCAGAAGGACAAGCTTCTCACTGTGCACTGTGTCGAGGTCCTGCATCAGTACGACCAGGTGATGCC
AGGGGTCAGCATGCTGATTCGAGCCCTTCTGATGTGACTGACTGTGAAGAGGCTGCCCTGGATGACCTC
TGTGCTGCGGAGACTGATTTGGAAGACTCTGAGATGGACTGTAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR218096 representing NM_172774
Red=Cloning site Green=Tags(s)

MAGTPAPNSHRKQSGGLEPFPGLSRSIENPPSKRARSFSETTVDPDPDPFGEHAEFTADDLEELDILASQ
ALSQCPVAPRNLSSAHKVRRLDGLPNSPIRKSREDIPVKDNFELEVLQIQYKELKEKLMAMEEILIKNG
EIKILRDSLRLQTESVLEEQRSHFLLEQEKTQALSEKEKEFSRKLQSLQSELQFKDAEMNELRTKSQSNG
RTNKPAAPSVSHVSPRKGSVVLKSEACSPHVGKTTFFPTKESFSANTPLFHPCQTEAGHRFLVGQEVSDN
KNHSLGGSLMKQDVQQRILADGWMQRKDAQGSILINLLKQPLVPGSSLGLCHLLSSCEVPTGTLQPP
GLSTLPGTSGLRTISSSDGPFSPSALREAQNLAFGLNLTARTESHDGDMAGRRVFPLHQLPGAVHLLP
LVQFFVGLHCQALQDLAPAKKSGVPGDSATHTSCMSSGVEASPEDSIHGLESFVASLSVLQNLVCHSGA
VYCLLLSGMGTEAAAREGNLVQTCADTTASREDAHDQDQHPLLKMLLQLMASSAASGHFQASVGLCL
KVLVKLAENASSDLLPRFSCVFPVLPQCLGSALPLPCVLLAVELLVLLDHDLSLAWQLCSHPEGCLLRL
YMYITSRPDRTASETQWLQLEQEVVWLLAKLSVQSPAPAGIGSDCHCNVEAVRALTVMLHRQWLTVRRAG
GPRTHQQKQTIIRCLRDTVLLHSLSQKDKLFTVHCVEVLHQYDQVMPGVSMILRALPDVTDCEEAALDDL
CAAETDLEDSEMDCN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9004_b01.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM_172774

ORF Size: 2355 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_172774.3](#), [NP_766362.2](#)

RefSeq Size: 2572 bp

RefSeq ORF: 2358 bp

Locus ID: 235610

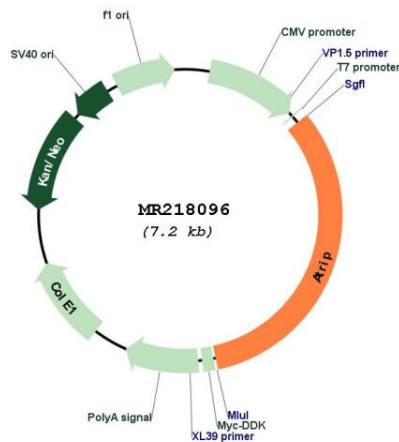
UniProt ID: [Q8BMG1](#)

Cytogenetics: 9 F2

MW: 86 kDa

Gene Summary: Required for checkpoint signaling after DNA damage. Required for ATR expression, possibly by stabilizing the protein (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR218096