

Product datasheet for **RG204312**

ATRIP (NM_032166) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATRIP (NM_032166) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ATRIP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG204312 representing NM_032166
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGGGACCTCCGCGCCAGGCAGCAAGAGGCGGAGCGAGCCCCGGCGCCTCGCCCCGGCCCGCCG
 CGGGCACCGGGCACCCCCGAGCAAGCGGGCCCGGGGCTTCTCCGACGCCGCTGCCCCGACCCCTGACGA
 CCCGTTCCGGCGGCATGGGGACTTCACTGCCGACGACCTGGAGGAGCTTGACACCCTCGCGTCACAGGCC
 CTGAGCCAATGTCCGGCCGCGGCTCGGGACGTGTCCAGTGATCATAAGGTCCACAGATTATTAGATGGCA
 TGTCAAAAAATCCTTCAGGGAAAAACAGAGAACTGTTCCAATTAAGATAATTTGCAATTAGAGGTA
 TCAGGCACAATACAAAGAACTTAAAGAAAAGATGAAAGTAAATGGAAGAAGAAGTTCTCATTAAAGAAATGGA
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 TTCTTCTTGAGCAAGAGAAAACCAAGCACTCAGTGACAAGGAAAAGGAATTCCTCAAAAAGCTCCAATC
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 CGAGCAAATAAACTGGCTGCTCCCTCTGTTTCCCATGTCAGTCCAGGAAAAACCCCTTCTGTGGTTATAA
 AGCCAGAAGCATGTTCTCCACAATTTGGAAAAACATCTTTTCTCAAAAGGAGTCTTTTAGTGCTAACAT
 GTCCTTCCCCACCCCTGCCAGACGGAGTCAAGATACAAGCCTCTGGTGGGCAGAGAGGATAGTAAGCCC
 CACAGTCTGAGAGGTGACTCCATAAAACAAGAAGAGGCCAGAAAAGCTTTGTTGACAGCTGGAGACAGA
 GATCAAACTCAAGGTTCCATTTTATAAACCTGCTCCTGAAGCAGCCTTTGATCCCAGGGTATCCCT
 AAGCCTTTGCCACCTCCTGAGTAGTAGTCTGAGTCTCCTGCTGGCACCCCTGCAGCCACCAGGGTTT
 GGCAGTACCTTGCTGGAATGTCAGGCCCTCAGGACCACAGGTTCTTATGATGGGTCAATTTCCCTCTCAG
 CCCTGAGAGAAGCACAGAACCTGGCATTCACTGGACTGAATCTGGTTGCCCGAATGAGTGCTCAGTGA
 TGAGAGCCAGCAGAGGGAGGCAGAAAGGCCCTTCCACTCTGCCAGCTTCCCTGGAGCCGTGCATTTCTC
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 GCAGTCGTCTCCCTATTACTGTCAGGAGTGGGGCAGATTCTGCTGCTGGGAAGGAAACAGGAGCCTGG
 TTCACAGGCTTAGTGATGGAGATATGACCTCAGCCCTAAGGGGGTTGCTGATGACCAAGGACAGCACCC
 ACTGTTGAAGATGCTTCTCACCTGTTGGCTTTCTTCTGTCAGCAACAGGTCACCTTCAAGCCAGTGTC
 CTGACCCAGTGCCTTAAGGTTTTGGTGAATAGCCGAAAACACTTCTGTGATTTCTTGCCAGGTTCC
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 TGAGCTCCTCCTGCTGGCGGACCACGACCAGCTGGCACCTCAGCTCTGTTCCCACTCAGAAGGCTGC
 CTCTGCTGCTGTACATGTACATCACATCACGGCCTGACAGAGTGGCCTTGGAGACACAATGGCTCC
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 AGGGGGACCCCAAGGACCGACCAGCAGAGGGGACAGTGCCTGTCTGCGGGACACGGTGTCTGCTGCTG
 CACGGCCTATCGCAGAAGGACAAGCTTTCATGATGCACTGCGTGGAGGTCCTGCATCAGTTTGACCAGG
 TGATGCCGGGGTTCAGCATGCTCATCCGAGGGCTTCTGATGTGACGGACTGTGAAGAGGCAGCCCTGGA
 TGACCTCTGTGCCGCGGAAACCGATGTGAAGACCCCGAGGTGGAGTGTGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG204312 representing NM_032166
 Red=Cloning site Green=Tags(s)

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MAGTSAPGSKRRSEPPAPRPGPPPVTGHPPSKRARGFSAAAAPDPDDPFGAHGDFATADDLEELDTLASQA
LSQCPAAARDVSSDHKVRHLLDGMKNPSGKNRETVPKIDNFLEVLQAQYKELKEKMKVMEEVLKNG
EIKILRDSLHQTESVLEEQRSSHFLLEQEKTQALSDKEKEFSKKLQSLQSELQFKDAEMNELRKLQTS
RANKLAAPSVSHVSPRKNPSVVIKPEACSPQFGKTSFPTKESFSANMSLPHPCQTESGYKPLVGREDSK
HSLRGDSIKQEEAQKSFVDSWRQRSNTQGSILINLLKQPLIPGSSLCHLLSSSESPAGTPLQPPGF
GSTLAGMSGLRRTTGSYDGSFSLSALREAQNLAFTGLNLVARNECSRGDPAEGGRRAPLCPQPLGAVHFL
PLVQFFIGLHCQALQDLAAAKRSGAPGDSPTHSSCVSSGVETNPEDSVCILEGFSVTALSILQHLVCHSG
AVVSLLLSGVGADSAAGEGNRSLVHRLSDGDMTSALRGVADDQGHPLKMLLHLLAFSSAATGHLQASV
LTQCLKVLVKLAENTSCDFLPRFQCVFQVLPKCLSPETPLPSVLLAVELL SLLADHDQLAPQLCSHSEGC
LLLLLYMYITSRPDRVALETQWLQLEQEVVRLTVMLHRQWLTVRRAGGPPRTDQQRRTVRCRLRDTVLLL
HGLSQDKLMMHCVEVLHQFDQVMPGVSMIRGLPDVTDCEEALDDLCAAETDVEDPEVECG
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TRTRPLE - GFP Tag - V

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: 2548 bp

RefSeq ORF: 2295 bp

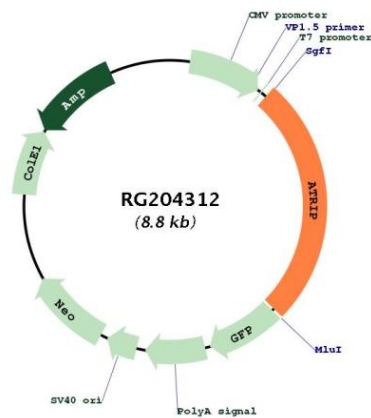
Locus ID: 84126

UniProt ID: [Q8WXE1](#)

Cytogenetics: 3p21.31

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 RG204312