

Product datasheet for RC201920

ATPase Inhibitory Factor 1 (ATPIF1) (NM_016311) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: ATPase Inhibitory Factor 1 (ATPIF1) (NM_016311) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: ATPase Inhibitory Factor 1
Synonyms: ATP1; ATPIF1; ATP1P; IP
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC201920 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

**ATGGCAGTGACGGCGTTGGCGGCGGGACGTGGCTTGGCGTGTGGGGCGTGAGGACCATGCAAGCCCGAG
 GCTTCGGCTCGGATCAGTCCGAGAATGTCGACCGGGCGCGGGCTCCATCCGGGAAGCCGGTGGGCCTT
 CGGAAAGAGAGAGCAGGCTGAAGAGGAACGATATTTCCGAGCACAGAGTAGAGAACAACCTGGCAGCTTTG
 AAAAAACACCATGAAGAAGAAATCGTTCATCATAAGAAGGAGATTGAGCGTCTGCAGAAAGAAATTGAGC
 GCCATAAGCAGAAGATCAAATGCTAAAACATGATGAT**

**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA**

Protein Sequence: >RC201920 protein sequence
 Red=Cloning site Green=Tags(s)
 MAVTALAARTWLGWGVRTMQARGFGSDQSENVDRGAGSIREAGGAFGKREQAEEERYFRAQSREQLAAL
 KKHHEEEIVHHKKEIERLQKEIERHKQKIKMLKHDD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6308_d03.zip

Restriction Sites: SgfI-MluI



[View online »](#)

Cloning Scheme:


ACCN: NM_016311

ORF Size: 318 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_016311.5](#)

RefSeq Size: 560 bp

RefSeq ORF: 321 bp

Locus ID: 93974

UniProt ID: [Q9UII2](#)

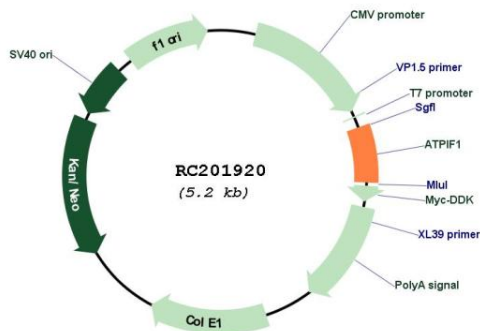
Cytogenetics: 1p35.3

Domains: IATP

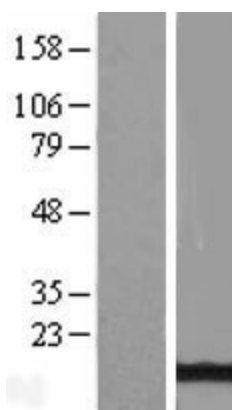
MW: 12.2 kDa

Gene Summary: This gene encodes a mitochondrial ATPase inhibitor. Alternative splicing occurs at this locus and three transcript variants encoding distinct isoforms have been identified. [provided by RefSeq, Jul 2008]

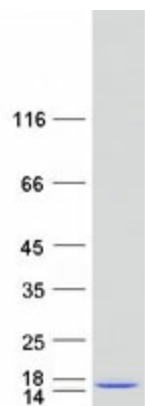
Product images:



Circular map for RC201920



Western blot validation of overexpression lysate (Cat# [LY414048]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201920 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ATP5IF1 protein (Cat# [TP301920]). The protein was produced from HEK293T cells transfected with ATP5IF1 cDNA clone (Cat# RC201920) using MegaTran 2.0 (Cat# [TT210002]).