

Product datasheet for RC233520

ATPAF1 (NM_001243728) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATPAF1 (NM_001243728) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ATPAF1
Synonyms:	ATP11; ATP11p
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC233520 representing NM_001243728 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGTCAGACCCAGCTGCTTTTGAGTCCCGCCTGGAGAAACGCAGTGAATTCGGAAGCAGCCAGTGGGGC
 ATTCCAGGCAAGGTGATTTTATCAAATGTGTGGAACAGAAGACAGATGCCTTGGGAAACAGTCTGTGAA
 CAGAGGATTCCTAAGGACAAGACTCTCAGTTCATCTTTAACATTGAGATGGTAAAGAAAAAACTGCA
 GAAGAAATAAACAGATTTGGCAGCAATATTTGCAGCAAAAGATACAGTCTACGCAGTTATTCCTGCAG
 AAAAGTTTGATTTGATCTGGAACCGGGCTCAGTCTGTCCAACATTTCTATGTGCTCTGCCAAGAAGGGA
 AGGTTATGAGTTTTTTGTAGGACAATGGACAGGTACTGAACTCCACTTCACTGCAGTTATAAATATTCAG
 ACCCGAGGGGAAGCTGCAGCCAGCCAGCTGATTTTATATCACTATCCTGAACTTAAGGAAGAAAAGGGCA
 TAGTGCTGATGACTGCAGAAATGGATTCCACATTTCTGAATGTTGCTGAGGCACAGTGCATCGCCAACCA
 AGTTCAGCTCTTCTACGCTACTGATCGGAAAGAGACCTACGGGTTAGTGGAGACCTTTAACCTCAGACCA
 AATGAGTTCAAATATATGTCTGTCATCGCTGAATTGGAGCAAAGCGGACTTGGAGCAGAACTGAAATGTG
 CCCAGAACCAAAATAAGACT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC233520 representing NM_001243728

Red=Cloning site Green=Tags(s)

MSDPAAFESRLEKRSEFRKQPVGHSRQGF IKCVEQKTDALGKQSVNRGFTKDKTLSSIFNIEMVKEKTA
EEIKQIQWQQYFAAKDVTYVAVIPAEKFDLIWNRAQSCPTFLCALPRREGYEFFVGQWTGTELHFTALINIQ
TRGEAAASQLILYHYPELKEEKGIVLMTAEMDSTFLNVAEAQCIANQVQLFYATDRKETYGLVETFNLRP
NEFKYMSVIAELOSGLGAELKCAONONKT

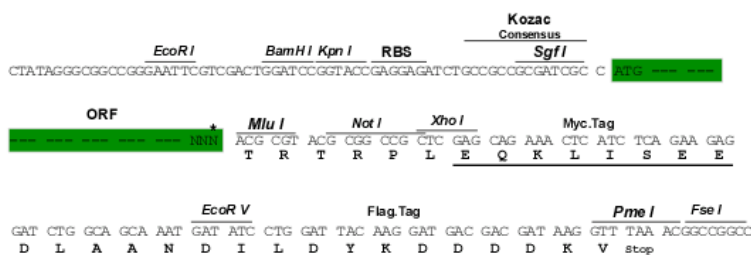
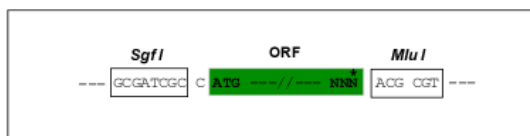
TRTRPLEOKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM 001243728

ORF Size: 720 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001243728.1](#), [NP_001230657.1](#)

RefSeq Size: 1710 bp

RefSeq ORF: 723 bp

Locus ID: 64756

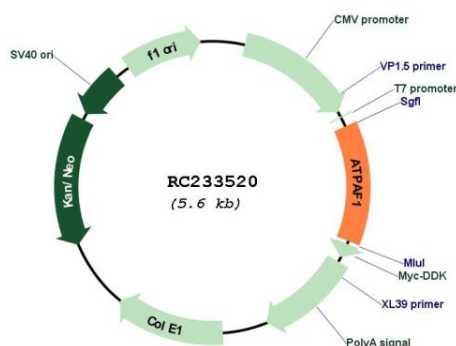
UniProt ID: [Q5TC12](#)

Cytogenetics: 1p33

MW: 27.9 kDa

Gene Summary: This gene encodes an assembly factor for the F(1) component of the mitochondrial ATP synthase. This protein binds specifically to the F1 beta subunit and is thought to prevent this subunit from forming nonproductive homooligomers during enzyme assembly. Alternatively spliced transcript variants have been identified. [provided by RefSeq, Aug 2011]

Product images:



Circular map for RC233520