

Product datasheet for MR203291

Atp5f1 (NM_009725) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Atp5f1 (NM_009725) Mouse Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Atp5f1
 Synonyms: C76477
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 ORF Nucleotide Sequence: >MR203291 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTGTCCCGGGTGGTCTTTCTGCTGCCGCCACAGCGGCCCGTGTCTGAAGAACGGGCCGCCCTAG
 GTCCAGGGGTATTACAGGCAACAAGGCCCTTTCACACAGGACAGCCTCGCCTTGCCCTCTACCACCTCT
 TCCTGAATATGGAGGAAAAGTGCCTTTGGGCTGATTCTGAGGAATTTTCCAGTTCCTTTACCCTAAG
 ACTGGTGAACAGGACCTTATGTGCTTGAAGTGGACTTAGCTTGTATTTCTATCCAAAGAAATATATG
 TGATTACCCAGAGACCTTCTCTACCATATCAGTAGTAGGTTGATAGTCTATGTGATTAAGAAATATGG
 CGCCTCTTTGGAGAATTTATTGACAACTTAATGAGGAAAAAATGCTCAACTAGAAGAAGTAAAGCAG
 TCGAGCATGAAACAAATCCAGGATGCAATCGACATGGAGAAGGCACAGCAGGCACTGGTTCAGAAGCGCC
 ATTACCTCTTCGATGTGCAGAGGAATAACATTGCCCTGGCCTTGGAGTCACTTACCGGGAACGGCTACA
 TAAAGCATATAAGGAGGTAAGAATCGCCTGGACTACCACATCTCTGTACAGAACATGATGCGTCGCAAG
 GAGGAAGAACACATGATAGACTGGGTAGAAAAGCATGTGGTGAAGAGCATTCTGTACAGCAGGAAAAGG
 AGACCATTGCCAAGTGCATTGAAGATCTAAAGCTGCTTGCAGAAAGGCTCAAGCTCAGCCAATTATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR203291 protein sequence
 Red=Cloning site Green=Tags(s)

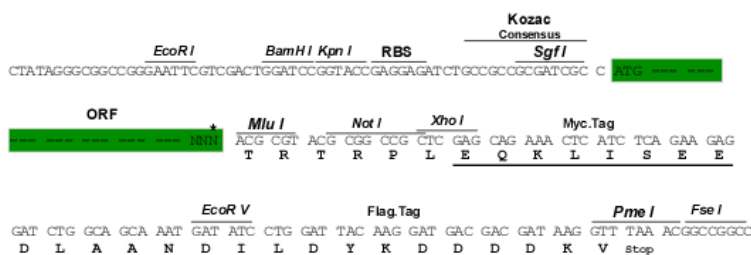
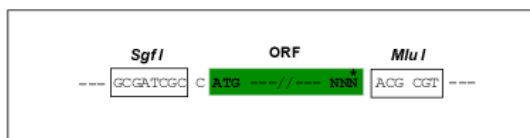
MLSRVLSAAATAAPCLKNAAALGPGVLQATRAFHTGQPRLAPLPPLPEYGGKVRLLGLIPEEFFQFLYPK
 TGVTGPYVLGTGLSLYFLSKEIYVITPETFSTISVVGLIYVVIKYGASFGFIDKLNEEKIAQLEEVKQ
 SSMKQIQDAIDMEKAQQALVQKRHYLFDVQRNNIALALEVYRERLHKAYKEVKNRLDYHISVQNMRRK
 EEEHMIDWVEKHVVKSISVQKEKETIAKCIEDLKLLAKKAQAQIPIM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_009725

ORF Size: 771 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_009725.5](#)

RefSeq Size: 1486 bp

RefSeq ORF: 771 bp

Locus ID: 11950

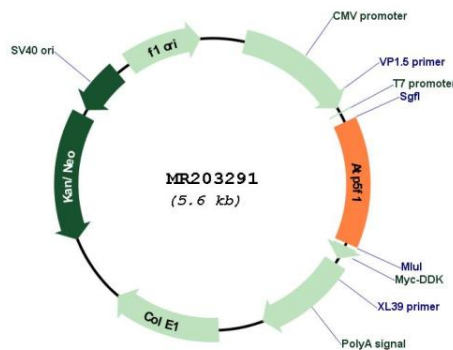
UniProt ID: [Q9CQQ7](#)

Cytogenetics: 3 46.46 cM

MW: 28.9 kDa

Gene Summary: Mitochondrial membrane ATP synthase (F(1)F(0) ATP synthase or Complex V) produces ATP from ADP in the presence of a proton gradient across the membrane which is generated by electron transport complexes of the respiratory chain. F-type ATPases consist of two structural domains, F(1) - containing the extramembraneous catalytic core, and F(0) - containing the membrane proton channel, linked together by a central stalk and a peripheral stalk. During catalysis, ATP synthesis in the catalytic domain of F(1) is coupled via a rotary mechanism of the central stalk subunits to proton translocation. Part of the complex F(0) domain and the peripheric stalk, which acts as a stator to hold the catalytic alpha(3)beta(3) subcomplex and subunit a/ATP6 static relative to the rotary elements.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR203291