

Product datasheet for RR215772

Atp5mf (NM 001271117) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Atp5mf (NM_001271117) Rat Tagged ORF Clone

Tag:Myc-DDKSymbol:Atp5mfSynonyms:Atp5j2

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

Cell Selection: Neomycin

ORF Nucleotide >RR215772 representing NM_001271117
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGCGTCTATCGTGCCATTGAAGGAGAAGAAGCTCATGGAGGTTAAACTTAGAGAGCTGCCAAGCTGGA TATTGATGCGGGATTTCACCCCCAGTGGTATTGCAGGAGCCTTTCGGAGAGGCTATGACCGGTATTACAA CAAGTACATCAACGTTCGGAAAGGCAGCATCTCAGGGATTAACATGGTGCTGGCAGCCTACGTGGTTTTC

AGCTACTGCATTTCTTACAAGGAACTCAAACACGAACGGCGACGCAAGTACCAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR215772 representing NM_001271117

Red=Cloning site Green=Tags(s)

MASIVPLKEKKLMEVKLRELPSWILMRDFTPSGIAGAFRRGYDRYYNKYINVRKGSISGINMVLAAYVVF

SYCISYKELKHERRRKYH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-Mlul



OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

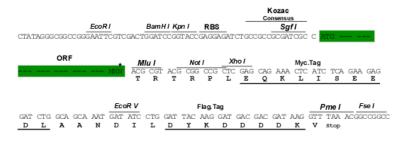
CN: techsupport@origene.cn

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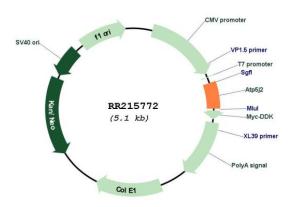
Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001271117

ORF Size: 264 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

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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: <u>NM 001271117.1, NP 001258046.1</u>

RefSeq Size:432 bpRefSeq ORF:267 bpLocus ID:690441UniProt ID:D3ZAF6Cytogenetics:12p11

MW: 10.5 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. Minor subunit located with subunit a in the membrane.[UniProtKB/Swiss-Prot

Function]