

Product datasheet for **RN215772**

Atp5mf (NM_001271117) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Atp5mf (NM_001271117) Rat Untagged Clone
Tag: Tag Free
Symbol: Atp5mf
Synonyms: Atp5j2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN215772 representing NM_001271117
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCGTCTATCGTGCCATTGAAGGAGAAGAAGCTCATGGAGGTTAACTTAGAGAGCTGCCAAGCTGGA
TATTGATGCGGGATTTACCCCCAGTGGTATTGCAGGAGCCTTTCCGAGAGGCTATGACCGGTATTACAA
CAAGTACATCAACGTTTCGAAAGGCAGCATCTCAGGGATTAACATGGTGCTGCCAGCCTACGTGGTTTTTC
AGCTACTGCATTTCTTACAAGGAACTCAAACACGAACGGCGACGCAAGTACCAC**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI

ACCN: NM_001271117

Insert Size: 267 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.



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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:	<ol style="list-style-type: none">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 bp
RefSeq ORF:	267 bp
Locus ID:	690441
UniProt ID:	<u>D3ZAF6</u>
Cytogenetics:	12p11
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]