

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-DDK
Symbol: Atp5mf
Synonyms: Atp5j2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR215772 representing NM_001271117
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCGTCTATCGTGCCATTGAAGGAGAAGAAGCTCATGGAGTTAACTTAGAGAGCTGCCAAGCTGGA
TATTGATGCGGGATTTACCCCCAGTGGTATTGCAGGAGCCTTTCGGAGAGGCTATGACCGGTATTACAA
CAAGTACATCAACGTTTCGAAAGGCAGCATCTCAGGGATTAACATGGTGCTGGCAGCCTACGTGGTTTTTC
AGCTACTGCATTTCTTACAAGGAACTCAAACACGAACGGCGACGCAAGTACCAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR215772 representing NM_001271117
Red=Cloning site Green=Tags(s)

MASIVPLKEKKLMEVKLRELPWILMRDFTPSGIAGAFRRGYDRYYNKYINVRKGSISGINMVLAAAYVVF
SYCISYKELKHERRRKYH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



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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:	<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</u> , <u>NP_001258046.1</u>
RefSeq Size:	432 bp
RefSeq ORF:	267 bp
Locus ID:	690441
UniProt ID:	<u>D3ZAF6</u>
Cytogenetics:	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]