

Product datasheet for **RN212282**

Atp5mg (NM_212516) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Atp5mg (NM_212516) Rat Untagged Clone
Tag: Tag Free
Symbol: Atp5mg
Synonyms: Atp5l; MGC72942
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN212282 representing NM_212516
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCCAAGTTCATCCGTAACCTCGCGGACAAGGCACCGTCGATGGTGGCGGCTGCCGTGACTTACTCGA
AGCCTCGATTGGCCACATTTTGGCACTATGCTAGGTTGAGCTGGTCCCCCAACCCTTGGTAAATCCC
TACAGCTATTCAGAGCATGAAAAATATAATTACAGTGCCAAACTGGTAACTTCAAACACCTCACAGTT
AAGGAAGCTGTGCTGAATGGTTTGGTGGCCACTGAGGTGTGGATGTGGTTTTATATCGGAGAGATCATAG
GCAAACGTGGCATTGTTGGCTATGATGTT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_212516

Insert Size: 312 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).

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_212516.2](#), [NP_997681.1](#)

RefSeq Size: 515 bp

RefSeq ORF: 312 bp

Locus ID: 300677

UniProt ID: [Q6PDU7](#)

Cytogenetics: 8q22

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]