

Product datasheet for RN202995

Atp5mc2 (NM_133556) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atp5mc2 (NM_133556) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Atp5mc2
Synonyms:	Atp5g2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN202995 representing NM_133556 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTATGCCTGCTCCAAGTTCGTCTCTACCCGCTCCCTGATCAGGAGCACCTCTCAGCTGCTGAGCCGTC
CGCTCTCTGCAGTGGAGTTAAAGCGACCACAGATGCCACAGATGAGGGCCTCAGCTGCTTGGCAGTCCG
GCGGCCTCTGACCTCGCTTATCCCTAGCCGCAGCTTCAAACCAGCGCCATTTCAAGGGACATTGACACA
GCTGCCAAGTTCATTGGAGCTGGGGCTGTACAGTTGGGGTGGCCGTTCTGGAGCAGGAATTGGGACTG
TTTTTGGGAGTCTCATCATTGGCTATGCCAGGAACCCCTCTCTGAAGCAGCAACTTTCTCCTATGCGAT
TCTGGGCTTCGCCCTCTCTGAGGCCATGGGGCTCTTTTGCTAATGGTGGCCTTCCTCATCCTCTCGCC
ATG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_133556
Insert Size:	426 bp



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OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_133556.2](#), [NP_598240.1](#)

RefSeq Size: 749 bp

RefSeq ORF: 426 bp

Locus ID: 171082

UniProt ID: [Q06646](#)

Cytogenetics: 7q36

Gene Summary: component of mitochondrial ATPase; displays increased expression in pancreas after alcohol consumption [RGD, Feb 2006]