

Product datasheet for MC208164

Atp5c1 (NM_020615) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atp5c1 (NM_020615) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Atp5c1
Synonyms:	1700094F02Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC208164 representing NM_020615 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTTCTCGGGGCGAGCGTTGTCGGGCTGTCGGCCTGCGCCGTGCAGCCGCAATGGATCCAAGTTCGAA
ACATGGCAACTCTGAAAGATATTACCAGGAGACTGAAGTCCATCAAAAACATCCAGAAAATTACCAAGTC
TATGAAGATGGTGGCAGCTGCAAAGTATGCCCGGGCTGAGCGGGAGCTGAAGCCTGCCGAGTGTATGGG
ACAGGTTCTTTGGCTCTGTATGAGAAGGCTGATATTAAGGCACCTGAGGACAAGAAGAAGCACCTCATT
TTGGTGTGTCCTCAGATAGAGGGCTTTTGGTGTCTATTACTCCTCAGTGGCTAAACAGATGAAGAATGA
AGTGGCTGCCCTCACAGCAGCTGGGAAAGAAGTTATGATTGTTGGAGTTGGTGA AAAAATCAAGGGCATA
CTTTATAGGACTCATTCTGATCAGTTTTTGGTGTCTATTCAAAGATGTGGGACGGAAGCCTCTACTTTTTG
GAGATGCATCAGTCATTGCCCTTGAGTTGTTAAATTTCTGGATATGAATTTGATGAAGGCTCTATCATTTT
TAATCAGTTCAAGTCTGTTATCTCTACAAGACAGAAGAGAAGCCCATCTTCTCTGAATACCATTGCG
ACTGCTGAGACCATGAGCATCTATGATGACATTGATGCTGATGTGCTGCAGAATTACCAGGAGTACAATC
TGGCCAACCTCATCTACTACTCCCTGAAGGAGTCCACCACCAGTGAGCAGAGTGCCAGGATGACCGCCAT
GGACAACGCCAGCAAGAACGCTTCTGATATGATTGACAAATTGACCTTGACTTTCAACCGCACCCGCCAG
GCTGTATCACAAGGAGTTGATTGAAATCATCTCTGGGGCTGCTGCTCTGGATTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_020615
Insert Size:	897 bp



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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:	<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:	NM_020615.4 , NP_065640.2
RefSeq Size:	1180 bp
RefSeq ORF:	897 bp
Locus ID:	11949
UniProt ID:	Q91VR2
Cytogenetics:	2 A1
Gene Summary:	<p>Mitochondrial membrane ATP synthase (F1)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(1) domain and the central stalk which is part of the complex rotary element. The gamma subunit protrudes into the catalytic domain formed of alpha(3)beta(3). Rotation of the central stalk against the surrounding alpha(3)beta(3) subunits leads to hydrolysis of ATP in three separate catalytic sites on the beta subunits.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the shorter transcript but encodes the longer protein (isoform a).</p>