OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MC207235

Atp5c1 (NM_001112738) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atp5c1 (NM_001112738) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Atp5c1
Synonyms:	1700094F02Rik
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC207235 representing NM_001112738 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGCAACTCTGAAAGATATTACCAGGAGACTGAAGTCCATCAAAAACATCCAGAAAATTACCAAGTCTA TGAAGATGGTGGCAGCTGCAAAGTATGCCCGGGCTGAGCGGGAGCTGAAGCCTGCCCGAGTGTATGGGAC AGGTTCTTTGGCTCTGTATGAGAAGGCTGATATTAAGGCACCTGAGGACAAGAAGAAGCACCTCATTATT GGTGTGTCCTCAGATAGAGGGCTTTGTGGTGCTATTCACTCCTCAGTGGCTAAACAGATGAAGAATGAAG TGGCTGCCCTCACAGCAGCTGGGAAAGAAGTTATGATTGTTGGAGTTGGTGAAAAAATCAAGGGCATACT TTATAGGACTCATTCTGATCAGTTTTTGGTGTCATTCAAAGATGTGGGACGGAAGCCTCCTACTTTTGGA GATGCATCAGTCATTGCCCTTGAGTTGTTAAATTCTGGATATGAATTTGATGAAGGCTCTATCATTTTTA ATCAGTTCAAGTCTGTTATCTCCTACAAGACAGAAGAGAAGCCCATCTTCTCTCTGAATACCATTGCGAC TGCTGAGACCATGAGCATCTATGATGACATTGATGCTGATGTGCTGCAGAATTACCAGGAGTACAATCTG GCCAACCTCATCTACTACTCCCTGAAGGAGTCCACCACCAGTGAGCAGAGTGCCAGGATGACCGCCATGG ACAACGCCAGCAAGAACGCTTCTGATATGATTGACAAATTGACCTTGACTTTCAACCGCACCCGCCAGGC TGTCATCACAAAGGAGTTGATTGAAATCATCTCTGGGGCTGCTGCTCTGGATTAA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Restriction Sites:	SgfI-MluI
ACCN:	NM_001112738
Insert Size:	825 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:	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_001112738.1, NP_001106209.1
RefSeq Size:	1815 bp
RefSeq ORF:	825 bp
Locus ID:	11949
Cytogenetics:	2 A1
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(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] Transcript Variant: This variant (2) differs in the 5' UTR and coding region compared to variant 1. The resulting protein (isoform b) has a shorter N-terminus compared to isoform 1.