

Product datasheet for SC115719

ATP5ME (NM_007100) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATP5ME (NM_007100) Human Untagged Clone
Tag:	Tag Free
Symbol:	ATP5ME
Synonyms:	ATP5I; ATP5K
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC115719 sequence for NM_007100 edited (data generated by NextGen Sequencing)

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ATGGTGCCACCGGTGCAGGTCTCTCCGCTCATCAAGCTCGGCCGCTACTCCGCCCTGTTCTCGGTGTGGCCTACGGAGCCACGCGCTACAATTACCTAAAACCTCGGGCAGAAGAGGAGAGGAGGATAGCAGCAGAAGAGAAGAAGAAGCAGGATGAACTGAAACGGATTGCCAGAGAA TTGGCAGAAGATGACAGCATATTAAGTGA
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Clone variation with respect to NM_007100.3

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_007100 unedited
GTAATACGACTACTATAGGGCGGCCGGAATTGGGCACGAGGCTCCAAGGCTTTGCTGGCTTGTGCGGCATCCTGCTCCGCTGCAGGTTGTGCTTCCGGTGGCGAGGTCAGGGACAAGATGGTGCCACCGGTGCAGGTCTCTCCGCTCATCAAGCTCGGCCGCTACTCCGCCCTGTTCTCGGTGTGGCCTACGGAGCCACGCGCTACAATTACCTAAAACCTCGGGCAGAAGAGGAGAGGAGGATAGCAGCAGAAGAGAAGAAGAAGCAGGATGAACTGAAACGGATTGCCAGAGAA TTGGCAGAAGATGACAGCATATTAAGTGAAGTACCCTGCGACCCACTCTTTGGACCAGCAGCGGATGAATAAAGCTTCTGTGTTGTGTGAAAAAAAAAAAAAAAAAACTCGACTCTAGATTGCGGCGCGGTCATAGCTGTTTCTGAACAGATCCCGGGTGGCATCCCTGTGACCCC TCCCCAGTGCCTCTCCTGGCCCTGGAAGTTGCCACTCCAGTGCCACCAGCCTTGTCCCTAATAAATTAAGTTGCATCATTTTGTCTGACTAGGTGTCCTTCTATATATTATGGGGTGGAGGGGGTGGTACTGACCCAGGGGCAAGTTGGGAAGACAACCTGTAGGGCCTGCGGGCTCTATTGGAACCAACCTGGAGTGCAAGTGGCACAATCNTGCCTACTGCAATCTCCCGCTCCCTGGTCAAGCGATTCTCCTTGCTCACCTCCCGAGTTGTTTGGAAATTTCCAGCTTGCCCTGAC CAGGCTCAGCTAATTTTTGGTTTTTTTGAAGAGACCGGGTNTTAACCATATTTGCCAGGCTTGTTCCTTCCCAACTCCCTATCTCAGGTGATTTACCCCACTTGGCCCTCCCAATTGGCTGGATTACGGCCTGGAACCCCTT
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_007100 unedited NTTACTTTGAACCCGCGGCCGAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTAAACACA ACACAGGAAGCTTTATTCATCCGCTGCTGGTCCAAAAATGGGTCGCAGGGTCACTCACTT TAATATGCTGTCACTTTCTGCCAATTCTCTGGCAATCCGTTTCAGTTCATCCTGCTTCTT CTTCTCTTCTGCTGCTATCCTCCTCTCCTCTTCTGCCGAGGTTTTAGGTAATTGTAGCG CGTGGCTCCGTAGGCCACACCGAGGAACAGGGCGGAGTAGCGGCCGAGCTTGATGAGCGG AGAGACCTGCACCGGTGGCACCATCTTGTCCCTGACCTCCGCACCGGAAGCACAACCTGC AGACGGAGCAGGATGCCGCACAAGCCAGCAAAGCCTTGGAGCCTCGTGCCGAATTCGCGG CCGCCCTATAGTGAGTCGTATTACAAAATTCTGACGGTCACTAAACGAGCTCTGCTTAT ATAGACCTCCCACCGTACACGCCTACCGCCATTTGCGTCAACGGGGCGGGTTATTACG ACATTTTGAAAGTCCCCTTGATTTTGGTGCCAAAACAACTCCCATTGACGTCAATGGG GTGGAGACTTGAAAATCCCCGTGAGTCAAACCGCTATCCACGCCATTGGTGTACTGCCA AAACCGCATCACCATGGTAATAGCGATGACTAATACCTAGATGTACTGCCAAGTANGAAA GTCCCGTAAGGTCATGTACTGGCATAATGCCAGGCGGGCCATTTACCGTCATTGACGTC AATAGGGGGCGAACTTGGCTATGATACACTTGATGTACTGCCAAGTGGGAGTTTACCGT AAATACTACCCATTGAGTCAATGGAAAGTCCCTATGGCGTTACTATGGAACCTACCTC ATTATTGACTCAATGGCCNNGGGTCTTTGGCGGTTAACCCAGCGGCCCTTTACCGTAGT TATGTACCCCGCAT
Restriction Sites:	NotI-NotI
ACCN:	NM_007100
Insert Size:	380 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:	<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_007100.2</u> , <u>NP_009031.1</u>
RefSeq Size:	368 bp
RefSeq ORF:	210 bp
Locus ID:	521
UniProt ID:	<u>P56385</u>
Cytogenetics:	4p16.3
Protein Pathways:	Metabolic pathways, Oxidative phosphorylation

Gene Summary:

Mitochondrial ATP synthase catalyzes ATP synthesis, utilizing an electrochemical gradient of protons across the inner membrane during oxidative phosphorylation. It is composed of two linked multi-subunit complexes: the soluble catalytic core, F1, and the membrane-spanning component, Fo, which comprises the proton channel. The F1 complex consists of 5 different subunits (alpha, beta, gamma, delta, and epsilon) assembled in a ratio of 3 alpha, 3 beta, and a single representative of the other 3. The Fo seems to have nine subunits (a, b, c, d, e, f, g, F6 and 8). This gene encodes the e subunit of the Fo complex. Alternative splicing results in multiple transcript variants.[provided by RefSeq, Jun 2010]

Transcript Variant: This variant (1) represents the longer transcript.