

## Product datasheet for **SC103736**

### ATP5MD (NM\_032747) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** ATP5MD (NM\_032747) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** ATP5MD  
**Synonyms:** bA792D24.4; DAPIT; HCVFTP2; MC5DN6; USMG5  
**Mammalian Cell Selection:** None  
**Vector:** [pCMV6-XL5](#)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**Fully Sequenced ORF:** >OriGene ORF within SC103736 sequence for NM\_032747 edited (data generated by NextGen Sequencing)  
 ATGGCAGGKCCAGAAAGTGATGCGCAATACCAGTTCAGTGGTATTAATAATTTTCAAC  
 TCTTATACTCTCACAGGTAGAATGAACTGTGACTGGCCACATATGGAAGCATTGCATTG  
 ATTGTCTTATATTTCAAGTTAAGGTCCAAAAAACTCCAGCTGTGAAAGCAACATAA

Clone variation with respect to NM\_032747.3  
 9 t=>k

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_032747 unedited  
 TTCGGGATTTGTAATCCGACTTACTATAGGGCGGCCGNAATTCGCACGAGGGTTACAT  
 TCGTTGAAGGACACCAGCTGCGGAATTTGCGGCTTTGGCAGCTGTTTGTCCACCGAGC  
 TGTGCTTTAGGAAGCTGGCCAGCCGGCCCTCCTTTAGGTGCGCTGCAGCCTTTTTCAAAG  
 CGAGTGAATGTGGCCCGGCCCTACAGTTCGCCAGGCCCGCTGTAAAAGGGTTAGATTTT  
 AGTCTGTAGACGATCAGTGGGAAGGCCTTCTAGGAGGTAACCAGAACAGAGAGCTGTA  
 AACTCCGTGAATGCAAGAGGCTGCTTCTGTTACCTGAGTGGTCTCACTCATCTTTGCCCT  
 TCCTTACCTCGTATCTCACCATTCCAGATTGAAATCATGGCAGGTCCAGAAAGTATGC  
 GCAATACCAGTTCAGTGGTATTAATAATAATTTCAACTTTATACTCTCACAGGTAGAAT  
 GAACTGTGACTGGCCACATATGGAAGCATTGCATTGATTGTCTTATATTTCAAGTTAAG  
 GTCCAAAAAACTCCAGCTGTGAAAGCAACATAAATGGATTTTAACTGTCTACGGTTCT  
 TAACCTCATCTGTTAAGTTCCCATGCCCTGGAGAAGCTAATGCCAACTCATCATGTGATAA  
 TTCAATTTGTACAATAAATTTATGAACCTGGAAAAAATAAATAAATAAATAAATAAATAA  
 TTGCGGCCCGGTCATAGCTGTTTCTGAAACAGATCCCGGGTGGCATCCCTGTGACCCT  
 NCCCAGTGCCCTCCTGGCCCTGGAGTTGCCACTCAGTGGCCACCGCCTTGTCTATAAAA  
 ATTAAGTGCATCATTTGTCTGACAGGTGGTCTCATATATATGGGGGGGGGGGGTNNNNN  
 NNNNNNGGCGNNNNGGGGAAAACCTNNGGCCCCGGGGCCATGGGAACCAACG



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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_032747 unedited TTTTCCCAGGTTTCATTAATNNTTATNTGGNTNCACCAANNAATTGATATTATCACATGA TGAGTTGGCATTAGCTTCTCCAGGCATGGGAACTTAACAGATGAGGTTAAGACACCGNTA GACAGTTTAAAATCCATTTATGTTGCTTTCACAGCTGGGAGTTTTTTTGGACCTAACTN TTTNGGGNNAAAATAAAGACAACTAATGCAATGCTCCNCNTTTNAATGTGGCCAG TCCCCACCCAGATTTTCATTCTANACCCCTTGGGGGGGGGAAAGGAAAATTTTTT AAAAGTTGAATATTTTTAATACCAGTGAAGTATTGCGCATCACTTCTGGACTGC CATGATTTCAATCTGGAATGGTGAGATCACNAGGCTAGGGAAGCAAGATGAGTGAGACC CACTCAGGTAACAGAAGCAGCCTCTTGCAATTCACGAGTTTACAGCTCTCTGTTCTGGTTA CCTCTAGGAAAGCCTTCCACTGATCGTCTACAGACTGAAATCTAACCTTTTACAGCGG GCCTGGCGAACTGTANGGCGGGCCACATTCCTCGCTTTGAAAAGCTGCAGCGCACC TAAAGGAGGGCCCGCTGGCCAGCTTTCTAAAGCACAGCTCGTGGGGAACCAACAGCTGC CANAGCCGCAAAATTCGCAGCTGTTGTCCTTCAACGAATGTAACCCCTCGTGGCCGAA TTCGCGGCCCGCCCTATAGTGAAGTCGTATTACCAAATTTCTGACGGTTCCTAAACGAG CCTCTGCTATTATAAACTTNCACGGTACACGCCCTACCGCCATTTGGCGTAACGGGGC GGGGTTATTACCACTTTTTGAAAAATCCCGGTGATTTTGGGGCCAAACAACCTCCATTG ACCTAATGGGGGGAAACTTGAAAAATCCCGGGGTCAAACCCCTTCCCCCCCCTTGGGG CCGGCCCAACCGCTTCCCAGGTAAT
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_032747
<b>Insert Size:</b>	710 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_032747.1</a></u> , <u><a href="#">NP_116136.1</a></u>
<b>RefSeq Size:</b>	581 bp
<b>RefSeq ORF:</b>	177 bp
<b>Locus ID:</b>	84833
<b>UniProt ID:</b>	<u><a href="#">Q96IX5</a></u>
<b>Cytogenetics:</b>	10q24.33
<b>Protein Families:</b>	Transmembrane

**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 (Probable). Minor subunit required to maintain the ATP synthase population in the mitochondria (PubMed:21345788). [UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) has an additional exon in the 5' UTR and encodes the same protein, compared to variant 1.