

## Product datasheet for **SC119716**

### **ATP1A3 (NM\_000703) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	ATP1A3 (NM_000703) Human Untagged Clone
Tag:	Tag Free
Symbol:	ATP1A3
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_000703, the custom clone sequence may differ by one or more nucleotides

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ATGGGGGACAAGAAAGATGACAAGGACTACCCAAAGAAGAACAAGGGCAAGGAGCGCCGGGACCTGGATG
ACCTCAAGAAGGAGGTGGCTATGACAGAGCACAAGATGTCAGTGAAGAGGTCTGCCGAAATACAACAC
AGACTGTGTGCAGGGTTTGACCCACAGCAAAGCCAGGAGATCCTGGCCCGGGATGGGCCTAACGCACTC
ACGCCACCGCCTACCACCCAGAGTGGTCAAGTTTTGCCGGCAGCTCTTCGGGGGCTTCTCCATCCTGC
TGTGGATCGGGGCTATCCTCTGTTCTGGCTACGGTATCCAGGCGGGCACCGAGGACGACCCCTCTGG
TGACAACCTGTACCTGGGCATCGTGTGGCGGCCGTGGTATCATCACTGGCTGCTTCTCTACTACCAG
GAGGCCAAGAGCTCCAAGATCATGGAGTCTTCAAGAACATGGTGCCCAAGCAAGCCCTGGTATCCGGG
AAGGTGAGAAGATGCAGGTGAACGCTGAGGAGGTGGTGGTGGGGACCTGGTGGAGATCAAGGTGGAGA
CCGAGTGCCAGCTGACCTGCGGATCATCTCAGCCACGGTGAAGGTGGACAACCTCCCTGACTGGC
GAATCCGAGCCCCAGACTCGCTCTCCGACTGCACGCACGACAACCCCTGGAGACTCGGAACATCACTT
TCTTTTCCACCAACTGTGTGAAGGCACGGCTCGGGGCGTGGTGGTGGCCACGGGCGACCGCACTGTCAT
GGCCCGTATCGCCACCCTGGCATCAGGGCTGGAGGTGGGCAAGACGCCCATCGCCATCGAGATTGAGCAC
TTCATCCAGCTCATCACCGGCGTGGCTGTCTTCTGGGTGTCTCCTTCTTCATCCTCTCCCTCATTCTCG
GATACACCTGGCTTGAGGCTGTCTCTTCTCATCGGCATCATCGTGGCCAATGTCCCAGAGGGTCTGCT
GGCCACTGTCACTGTGTGTCTGACCGTGACCGCAAGCGCATGGCCCGGAAGAAGTGCCTGGTGAAGAAC
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ACCGCATGACAGTCGCCACATGTGGTTGACAACCAGATCCACGAGGCTGACACCACTGAGGACCAGTC
AGGGACTCATTGACAAGAGTTCGCACACCTGGGTGGCCCTGTCTCACATCGCTGGGCTCTGCAATCGC
GCTGTCTTCAAGGGTGGTCAGGACAACATCCCTGTGCTCAAGAGGGATGTGGCTGGGGATCGCTGAGT
CTGCCCTGTCAAGTGCAATCGAGCTGTCTCTGGCTCCGTGAAGCTGATGCGTGAACGAACAAGAAAGT
GGCTGAGATTCCTTCAATTCCACCAACAATAACAGCTCTCCATCCATGAGACCAGGACCCCAACGAC
AACCGATACCTGTGGTATGAAGGGTGGCCCGAGCGCATCCTGGACCCTGCTCCACCATCCTGCTAC
AGGGCAAGGAGCAGCCTCTGGACGAGGAAATGAAGGAGGCCTTTCAGAATGCCTACCTTGAGCTCGTGG
CCTGGGCGAGCGCTGCTTGGTTTCTGCCATTATTACCTGCCGAGGAGCAGTATCCCAAGGCTTTGCC
TTCGACTGTGATGACGTGAACCTCACACGACAACCTCTGCTTGTGCCGCTCATGTCCATGATCGGCC
CACCCCGGGCAGCCGCTCCTGACGCGGTGGCAAGTGTGCGAGCGCAGGCATCAAGGTATCATGTGTCAC
CGCGCATCACCCATCACGGCCAAGGCCATTGCCAAGGGTGTGGGCATCATCTCTGAGGGCAACGAGACT
GTGGAGGACATCGCCGCCGGCTCAACATTCCTGTCAGCCAGGTTAACCCCGGGATGCCAAGGCCCTGCG
TGATCCACGGCACCGACCTCAAGGACTTCACTCCGAGCAAAATCGACGAGATCCTGCAGAATCACACCGA
GATCGTCTTCCGCCGCACATCCCCCAGCAGAAGCTCATCATTGTGGAGGGCTGTGAGAGACAGGGTGCA
ATTGTGGCTGTGACCGGGGATGGTGTGAACGACTCCCCGCTCTGAAGAAGGCCGACATTGGGGTGGCCA
TGGGCATCGTGGCTCTGACGTCTCAAGCAGGCGAGTGCATGATCCTGCTGGACGACAACCTTGCCTC
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CGAAAGCGACATCATGAAGAGACAGCCCAGGAACCCGCGGACGGACAAAATTGGTCAATGAGAGACTCATC
AGCATGGCCTACGGGCAGATTGGAATGATCCAGGCTCTCGGTGGCTTCTTCTTACTTTGTGATCCTGG
CAGAAAATGGCTTCTTGGCCGGCAACCTGGTGGGCATCCGGCTGAACTGGGATGACCGCACCGTCAATGA
CCTGGAAGACAGTTACGGGCAGCAGTGGACATACGAGCAGAGGAAGGTGGTGGAGTTCACCTGCCACAG
GCCTTCTTTGTGAGCATCGTTGTCGTCCAGTGGCCGATCTGATCATCTGCAAGACCCGGAGGAACCTCG
TCTTCCAGCAGGGCATGAAGAACAAGATCCTGATCTTCGGGCTGTTTGGAGAGACGGCCCTGGCTGCCTT
CCTGTCTACTGCCCGGAATGGACGTGGCCCTGCGCATGTACCCTCTCAAGCCAGCTGGTGGTCTGTG
GCCTTCCCCTACAGTTTCTCATCTTCGTCTACGACGAAATCCGCAAACTCATCTCGCGAGGAACCCAG
GGGTTCCGGTGGAGAAGGAAACCTACTACTGA
    
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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_000703 unedited  
 CCTGGATTTGTAACCGACTTTTATAGGCGGCCACGCATTCGGCACGAGGGACCAACGGAC  
 GGACGGACGGACGCGGCACCTACCGAGGCGGGGCGCTGCAGAGGCTCCCAGCCCAAGC  
 CTGAGCCTGAGCCCGCCCGAGGTCCCCGCCCGCCCGCTGGCTCTCTCGCCGGGAGC  
 CGCCAAGATGGGGACAAGAAAGATGACAAGGACTCACCAAGAAGAACAAGGGCAAGGA  
 GCGCCGGGACCTGGATGACCTCAAGAAGGAGGTGGCTATGACAGAGCACAAGATGTCAGT  
 GGAAGAGGTCTGCCGGAATACAACACAGACTGTGTGCAGGGTTTGACCCACAGCAAAGC  
 CCAGGAGATCCTGGCCCGGGATGGGCCTAACGCACTCACGCCACCGCTACCACCCGAGA  
 GTGGGTCAAGTTTTGCCGCGAGCTCTTCGGGGCTTCTCCATCCTGCTGTGGATATGGGC  
 TATCCTCTGCTTCTGGCCTACGGTATCCAGGCGGGCACCGAGGACGACCCCTCTGGTGA  
 CAACCTGTACCTGGGCATCGTGTGGCGCCGTGGTGATCATCACTGGCTGCTTCTCCTA  
 CTACCAGGAGGCCAAGAGCTCCAAGATCATGGAGTCTTCAAGAACATGGTGCCCGAGCA  
 AGCCCTGGTGATCCGGAAAGGTGAGAAGATGCANGTGAACGCTGANGANGTGGTGGTCGG  
 GGACCTGGTGGAGATCAAGGGTGGAGACCGAGTGCCAGCTGACCTGCNGATCATCTCAGC  
 CCACGGCTGCAAGGTGGACAACCTCCTNCCTGACTGGCGAATNCGAGCCCGAGACTCGCTC  
 TTCCCGACTGCACTCACGACAACCTTTGGAGACTCCGGACATCACCTTCTTTTACCAA  
 CTGTGTGAAGGCCACGCTCGGG

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_000703 unedited  
 TTCCAGGGCCGGTAAAGCACTGGGGAGGGGTACAGGGATGCCACCCGGGATCTGTTTCAG  
 GAAACAGCTATGACCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTC  
 TCTCTCCCACTGATATATTTGATAATTGTCCAAAACCAGAGATGGCATCAGCCGGGGGG  
 CTGAAGGGGAGTAAAAAAGAGCCAGGGAGGTGGCTGGGGCGGGAGGAATGGATAGAGGG  
 GTGAGGAGAGGGAGAGAACTGACACAGAAAAGAGAGAGGAGAGAGGTTTGGGGCAGGGG  
 AAAAAACCCAGCCAGAGTGGGGCGGCAGGAAATAGTGGAGGGGGTGGGGCCAAGGTGG  
 GGCCACAGGAAGAGAGGGCTCCTCCCCAGAATACAAAATTGGGGGACTGACAGGGGC  
 GGTCTGGGCCTGGGGACGGGAAGAGATGGGCGATGTGGTGGGGCTGAGGTCANTANT  
 AGGTTTCTTCTCACCAACCCCTGGGTTCTGCGCAGGATGAGTTTGCGGATTTTCGT  
 CGTAAACGAAGATGAGGAACTGTAGGGGAAGGCACAGAACCCAGCTGGGCTTGAGAG  
 GTACATCGCAGGGCCACGTCCATGCCGGGCGAGTGGACAGGAAGGCAACAGGGGCC  
 GTCTCCTCAAACGCCGAGATCANGGATCTTGTCTTTCATGCCCTGCTGGAGNACCGAGT  
 CCTTCGGGTCTTGCAAATGATCAAATCGGGCCACTGGACGACACGATGCTACCAGAG  
 GCCGGGTGGAAGGAACTCCACCCCTTCTTGGTTCGTATGTCCTGCTGCCCGTACTGTT  
 TTCAGGCATTGACGGGGCGGTTTCCCATTTAACCGGTGCCACCAGTTGTCGGCAAAACC  
 CTTTCTGTCCGACCCAAAAAACCAGCCGAAACCCGACTTCCAACCCCGGGCCCTCT  
 GTGATCTCATTCCAATGCCGCCCGGTTCT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_000703

**Insert Size:**

3720 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).

<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>	<a href="#">NM_000703.1</a> , <a href="#">NP_000694.1</a>
<b>RefSeq Size:</b>	3635 bp
<b>RefSeq ORF:</b>	3042 bp
<b>Locus ID:</b>	478
<b>Cytogenetics:</b>	19q13.2
<b>Domains:</b>	E1-E2_ATPase, Cation_ATPase_N, Hydrolase, Cation_ATPase_C
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Cardiac muscle contraction
<b>Gene Summary:</b>	<p>The protein encoded by this gene belongs to the family of P-type cation transport ATPases, and to the subfamily of Na<sup>+</sup>/K<sup>+</sup> -ATPases. Na<sup>+</sup>/K<sup>+</sup> -ATPase is an integral membrane protein responsible for establishing and maintaining the electrochemical gradients of Na and K ions across the plasma membrane. These gradients are essential for osmoregulation, for sodium-coupled transport of a variety of organic and inorganic molecules, and for electrical excitability of nerve and muscle. This enzyme is composed of two subunits, a large catalytic subunit (alpha) and a smaller glycoprotein subunit (beta). The catalytic subunit of Na<sup>+</sup>/K<sup>+</sup> -ATPase is encoded by multiple genes. This gene encodes an alpha 3 subunit. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2012]</p>