

## Product datasheet for **SC111154**

### ATP5PD (NM\_006356) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ATP5PD (NM_006356) Human Untagged Clone
Tag:	Tag Free
Symbol:	ATP5PD
Synonyms:	APT5H; ATP5H; ATPQ
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC111154 sequence for NM_006356 edited (data generated by NextGen Sequencing)

```
ATGGCTGGGCGAAAACCTTGCTCTAAAAACCATTGACTGGGTAGCTTTTGCAGAGATCATA
CCCCAGAACCAAAAGGCCATTGCTAGTTCCTGAAATCCTGGAATGAGACCCTCACCTCC
AGGTTGGCTGCTTTACCTGAGAATCCACCAGCTATCGACTGGGCTTACTACAAGGCAAT
GTGGCCAAGGCTGGCTTGGTGGATGACTTTGAGAAGAAGTTAATGCGCTGAAGTTCCC
GTGCCAGAGGATAAATATACTGCCCAGGTGGATGCCGAAGAAAAAGAAGATGTGAAATCT
TGTGCTGAGTGGGTGCTCTCTCAAAGGCCAGGATTGTAGAATATGAGAAAGAGATGGAG
AAGATGAAGAACTTAATCCATTTGATCAGATGACCATTGAGGACTTGAATGAAGCTTTC
CCAGAAACCAAAATTAGACAAGAAAAAGTATCCCTATTGGCCTCACCAACCAATTGAGAAT
TTATAA
```

Clone variation with respect to NM\_006356.2



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_006356 unedited  
 GTTATTTTGTAAACGACTCACTATAGGGCGGCCGCAATTCGGCACGAGGGGACCGTGG  
 GCAGCCAGGGTCGGTGAAGGATCCCAAATGGCTGGGCGAAAACCTGCTCTAAAAACCATT  
 GACTGGGTAGCTTTTGCACAGATCATACCCAGAACAAAAGGCCATTGCTAGTTCCTG  
 AAATCCTGGAATGAGACCCTCACCTCCAGGTTGGCTGCTTACCTGAGAATCCACCAGCT  
 ATCGAAGGGGCTTACTACAAGGCCAATGTGGCCAAGGCTGGCTTGGTGGATGACTTTGAG  
 AACAAGTTTAAATGCGCTGAAGGTTCCCGTGCCAGAGGATAAATACTGCCACGTGGAT  
 GCCGAAGAAAAAAGATGTGAAATCTTGTGCTGAGTGGGTGTCTCTCAAAGGCCAGG  
 ATTGTACAATATGAGAAAAGATGGAGAAGATGAAGAACTTAATTCATTTGATCAGATG  
 ACCATTGAGGACTTGAATGAAGCTTTCCAGAAAACCAAATTAGACAAGAAAAAGTATCCC  
 TATTGGCCTCACCAACCAATTGAGAATTTATAAAATTGACCCAGGAGGAAGCTCTGGCC  
 CTTGTATTACACACTCTGGACATTATAAATAACTTTATAACAACAACAAAAA  
 CTAGACTCTAGATTGCGGCCGAGGTCATAGCTGGTTCCTGAACAGATCCCGGGGGCAAT  
 CCTTGTGACCCCTCCCAAGCCTTTCCTGCCCTGAAAATTGCCACTCCAGCGCCCCC  
 CCCCTGTCCCAAAAAAAGCGCACAATTCGCCTGACAAGTGGTCCCTCATTATATT  
 ATGGGCGGAGGGGCGGATTGGACCAAGGCCAGTTGGGAATACACCCTTAGGCCCGCA  
 GTTTTATGGGAACCAACTGGACGCGGGGCCATCTCGCCTCCTCCC

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_006356 unedited  
 CTATGAACCGCGCCGAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTGTATAATTATT  
 ATTTTTAATGTCCAGAATGTGTAATAACAAGGGCCAGAGCTTCTCCTGGACTCAATTTA  
 TAAATTCTCAATTGGTTGGTGAAGCCAATAGGGATACTTTTCTTGTCTAATTTGGTTTC  
 TGGGAAAGCTTCATTCAAGTCCCAATGGTTCATCTGATCAAATGGAATTAAGTTCTTCAT  
 TTCTCCATCTTTCTCATATTCTACAATCCTGGCCTTTGAGAGAGACCCCACTCAGC  
 ACAAGATTTACATCTTCTTTTCTTCGGCATCCACCTGGGCAGTATTTTATCCTCTGG  
 CACGGGAACCTTCAGCGCATAAATTCTTCTCAAAGTCATCCCAAGCCAGCCTTGGC  
 CACATTGGCCTTGTAGTAAGCCAGTCGATAGCTGGTGGATTCTCAGGTAAGCAGCCAA  
 CCTGGAGGTGAGGGTCTCATTCCAGGATTTAGGGAACTAGCAATGGCCTTTTGGTTCTG  
 GGGTATGATCTCTGAAAAGCTACCCAGTCAATGGTTTTTAGAGCAAGTTTTCGCCAGC  
 CATTTTGGGATCCTTACCGACCCTGGCTGCCACGGTCCCCTCGTGCCGAATTCGCGGC  
 CGCCCTATAGTGAGTCGTATTACAAAATTCTGACGGTTCACTAAACGAGCTCTGTATA  
 TAGACCTCCACCGTACACGCTTACCGNCCATTTGCGTCAACGGGCGGGGTTATTACGA  
 CATTTTGGAAAGGCCGTTGATTTTGGTGCCAAAACAACTCCCATTGACGTCAATGGGG  
 TGGAGACTTGAAATCCCGGGAGTCAAACCGTTATCACGCCATTGTGGTCTGCCCAACC  
 GCTCACCTGGNATAGCGATACTAATACTCNATGTCGCCAGTCAGAAATCCCTACTCCTG  
 TCCTGGCCTATGCCCGCCGCTTACCCTCT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_006356

**Insert Size:**

650 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_006356.2</a> , <a href="#">NP_006347.1</a>
<b>RefSeq Size:</b>	628 bp
<b>RefSeq ORF:</b>	486 bp
<b>Locus ID:</b>	10476
<b>UniProt ID:</b>	<a href="#">O75947</a>
<b>Cytogenetics:</b>	17q25.1
<b>Protein Pathways:</b>	Alzheimer's disease, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease
<b>Gene Summary:</b>	<p>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 d subunit of the Fo complex. Alternatively spliced transcript variants encoding different isoforms have been identified for this gene. In addition, three pseudogenes are located on chromosomes 9, 12 and 15. [provided by RefSeq, Jun 2010]</p> <p>Transcript Variant: This variant (1) represents the longer transcript, and it encodes the longer isoform a.</p>