

## Product datasheet for **SC117630**

### ATP6V0B (NM\_004047) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ATP6V0B (NM_004047) Human Untagged Clone
Tag:	Tag Free
Symbol:	ATP6V0B
Synonyms:	ATP6F; HATPL; VMA16
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC117630 sequence for NM_004047 edited (data generated by NextGen Sequencing)

```
ATGACGGGGCTAGCACTGCTCTACTCCGGGGTCTTCGTGGCCTTCTGGGCCTGCGCGCTG
GCCGTGGGAGTCTGCTACACCATTTTTGATTTGGGCTTCCGCTTTGATGTGGCATGGTTC
CTGACGGAGACTTCGCCCTTCATGTGGTCCAACCTGGGCATTGGCCTAGCTATCTCCCTG
TCTGTGGTTGGGGCAGCCTGGGGCATCTATATTACCGGCTCCTCCATCATTGGTGGAGGA
GTGAAGGCCCCAGGATCAAGACCAAGAACCTGGTCAGCATCATCTTCTGTGAGGCTGTG
GCCATCTACGGCATCATCATGGCAATTGTCATTAGCAACATGGCTGAGCCTTTCAGTGCC
ACAGACCCCAAGCCATCGGCCATCGGAACTACCATGCAGGCTACTCCATGTTTGGGGCT
GGCCTCACCGTAGGCCTGTCTAACCTCTTCTGTGGAGTCTGCGTGGGCATCGTGGGCAGT
GGGGCTGCCCTGGCCGATGCTCAGAACCCAGCCTCTTTGTAAGATTCTCATCGTGGAG
ATCTTTGGCAGGCCATTGGCCTCTTTGGGGTCATCGTCGCAATTCTTCAGACCTCCAGA
GTGAAGATGGGTGACTAG
```

Clone variation with respect to NM\_004047.3



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_004047 unedited  
 GTTCAAATTTGTATACGACTCCTATAGGCGGCCCGCAATTCGCACGAGGGGACAGACTG  
 CGGGACGGACGGTGGACGCTGGGACGCGTTTGTAGCTCCGGCCCCGCGTTCCGACCCCC  
 GCCGCGTCGCGCCATGACGGGGCTAGCACTGCTCTACTCCGGGGTCTTCGTGGCCTTC  
 TGGGCTCGCGCTGGCCGTGGGAGTCTGCTACACCATTTTGTATTTGGGCTTCCGCTTT  
 GATGTGGCATGGTTCTGACGGAGACTTCGCCCTTCATGTGGTCCAACCTGGGCATTGGC  
 CTAGCTATCTCCCTGTCTGTGGTTGGGGCAGCCTGGGGCATCTAATTACCGGCTCCTCC  
 ATCATTGGTGGAGGAGTGAAGGCCCCAGGATCAAGACCAAGAACCTGGTCAGCATCATC  
 TTCTGTGAGGCTGTGGCCATCTACGGCATCATCATGGCAATTGTCATTAGCAACATGGCT  
 GAGCCTTTCAGTGCCACAGACCCCAAGGCCATCGGCCATCGAACTACCATGCAGGCTAC  
 TCCATGTTTGGGCTGGCCTCACCGTAGGCCTGTCTAACCTTCTGTGGAGTCTGCGTG  
 GGCATCGTGGCAGTGGGCTGCCCTGGCCGATGCTCAGAACCCAGCCTCTTTGTAAG  
 ATTCTCATCGTGGAGATCTTGGCAGCGCCATTGGCCTCTTTGGGGTTCATCGTCAATT  
 CTTAGACCTCCAGAGTGAAGATGGGTGACTAGATGATATGTGTGGTGGGGCCGTGCC  
 CACTNTTATTTATGCTGGNTTCTGGGACAGCTGGAGCTGTGCCCTAACCTTTCAG  
 AGGCTTGGTGTTCAGGGCCCTCCCTGCACTCCCTCTGTGCGTGTGATTTGGAGCAC  
 TGCAGTCCAGGCCGAG

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_004047 unedited  
 AACTTTCCAGGGCCAGGNATAGCACTGGGGAGGGGTCACAGGGATGCCACCCGGGATCTG  
 TTCAGGAAACAGCTATGACCGCGCCGCAATCTAGAGTCGAGNNNTTTTTTTTTTTTTTT  
 TTTTTTTTTTTTTTTTTTTTTTTTTTTTGGACCCAAACAAATACCAAGTTTATTTACAAACAC  
 TAAGAAAATGGGTTGAGGGTGGAGGGGGGACACAAGTGCAGCAACTGCACAAAATCAGC  
 AGCAGCAGCCTGCTCCCCGCACTGAGGACTCGGCCTGGACTGGAGTGCCTCCAAATCAAC  
 ACCCAACAAGAGGGGAGTGCAGGAGGGCCCTGAACACCAAGCCTTTGAAAGGGTAAGGG  
 ACACAGCTCCAGCTGTCCAGGAAAACAGCAATAAATAAAAGTGGGGGCGGCCCCACC  
 CACNNNATAATCTAATCACCCATTTTTACTTTGGAGGGCTGAAAAATTGCGACGATGACC  
 CCAAAGAGGGCAATGGCGCTGCCAAAGATCTCCACGATGAGAATCTTTACAAAGAGCTGG  
 GGTTCTGAGCATTGGGCAGGGCAGCCCCACTGGCCACGATGCCACGCAAACTCCAAAAA  
 GAGGGTAGACAGGCCTACGGTGAAGGCCAGCCCCAACTGGAGTAACCTGGTTGGTAATTC  
 CCATGGCCGATGGCCTTTGGGGTCTGTGGCACTGAAAGGCTCAACCCTGTTGCTAATGA  
 CAATTGCCATGATGCGGTAGATGGGNNNATCCCACAGAAAATAATGCTGACCAGTTN  
 TTGGTTTTGATCCCGGGGGCCTTACTCCTNCCATGAGGGGGGAACCGGGATTTTAAA  
 ATGCCAGGCTGCCCCACCCAGAGGAAATAGCTAGGCCATGCCACGTTGACGAAT  
 AAAGGGGGAAGTCTCCGACGGGACCTGCCATCAAGCGGAGACCATAAAAG

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_004047

**Insert Size:**

1070 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_004047.2</a> , <a href="#">NP_004038.1</a>
<b>RefSeq Size:</b>	1007 bp
<b>RefSeq ORF:</b>	618 bp
<b>Locus ID:</b>	533
<b>UniProt ID:</b>	<a href="#">Q99437</a>
<b>Cytogenetics:</b>	1p34.1
<b>Domains:</b>	ATP-synt_C
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Epithelial cell signaling in Helicobacter pylori infection, Lysosome, Metabolic pathways, Oxidative phosphorylation, Vibrio cholerae infection
<b>Gene Summary:</b>	<p>This gene encodes a portion of the V0 domain of vacuolar ATPase (V-ATPase), a multisubunit enzyme that mediates acidification of eukaryotic intracellular organelles. Activity of this enzyme is necessary for such varied processes as protein sorting, zymogen activation, receptor-mediated endocytosis, and synaptic vesicle proton gradient generation. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jun 2014]</p> <p>Transcript Variant: This variant (1) encodes isoform 1.</p>