

## Product datasheet for **SC119114**

### ATP6V1B1 (NM\_001692) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ATP6V1B1 (NM_001692) Human Untagged Clone
Tag:	Tag Free
Symbol:	ATP6V1B1
Synonyms:	ATP6B1; DRTA2; RTA1B; VATB; VMA2; VPP3
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001692, the custom clone sequence may differ by one or more nucleotides

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ATGGCCATGGAGATAGACAGCAGGCCTGGGGGCTCCCCGGCAGTAGCTGCAACCTAGTGCAGCCCGAG
AACACATGCAGGCGGTACCCGAAACTACATCACCCACCCCGTGTACCTACAGGACTGTGTGCAGCGT
GAACGGGCCCCCTGGTGGTGTGGACCGGGTCAAGTTTGCCAGTATGCGGAGATCGTCCACTTACCCTC
CCAGATGGGACTCAGAGGAGCGGGCAGGTGCTTGAGGTGGCTGGCACCAAGGCGATTGTTACAGTGTG
AAGGGACATCAGGGATCGATGCCAGGAAGACCCTTGCGAATTTACAGGGGACATCCTACGAACTCCGGT
GTCAGAGGACATGCTGGGTGGGTTTTCAATGGCTCCGGCAAGCCATTGACAAGGGGCCAGTGGTCATG
GCGGAGGACTTTCTGGATATCAATGGCCAGCCCATCAACCCGCACTCCCGCATCTACCCGAGGAGATGA
TTCAGACGGGCATTTCTCTATTGACGTGATGAACAGCATTGCCCGGGCCAGAAGATCCCCATCTTCTC
AGCAGCCGGGCTCCCCACAATGAGATTGCCGCTCAGATCTGCCGCCAGGCGGGGCTGGTGAAGAAGTCC
AAGGCTGTGCTGGATTACCATGACGACAACTTCGCCATCGTCTTTCAGCCATGGGGGTGAACATGGAGA
CAGCCAGATTCTCAAGTCTGACTTTGAGCAGAATGGAACCATGGGGAACGTCTGCCTCTTCTGAACTT
GGCCAATGACCCACGATCGAGCGGATCATCACCCGCGCTGGCGCTGACCACTGCTGAATTCCTTGCC
TACCAGTGTGAGAAGCATGTGCTGGTCATACTGACGGACATGAGTTCTATGCAGAGGCCTTGCGGGAGG
TCTCTGCTGTAGAGAGGAGGTGCTGGGCGCCGAGGGTTTTCTGGATATATGTACACAGACCTGGCCAC
CATCTACGAGCGGGCGGGCCGCTGGAGGGTCGGGGAGGATCCATCACACAGATCCCCATCTCACCATG
CCCAACGACGATATCACCCACCTATCCAGACTTGACGGGCTTCATCACAGAGGGACAGATCTACGTGG
ACAGACAGCTTCAACAACAGACAGATCTACCCCCCATCAACGTGCTCCCTCCCTGTGCGGGCTGATGAA
GTCAGCCATTGGGAAGGCATGACAAGAAAGACCATGGAGATGTCTCAACAGCTGTACGCCTGCTAT
GCCATCGGAAGGACGTGCAGGCCATGAAGGCAGTAGTTGGGGAGGAGGCGCTCACCTCTGAGGACCTGC
TCTACCTGGAATTCCTGCAGAAGTTTGAGAAGAATTCATCAATCAGGGCCCTACGAGAACCCGCTCGGT
GTTGAGTGTGCTGGACCTGGGCTGGAAGCTGCTGCGCATCTTCCCAAGGAGATGCTGAAGCGCATTCCG
CAGGCCGTGATCGACGAGTTCTATTCCCGGAGGGGGCGCTGCAGGACCTCGCGCTGACACTGCCTCT
AG
    
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**5' Read Nucleotide Sequence:**

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>OriGene 5' read for NM_001692 unedited
GGGTTCAAATTTGTNATACGACTTCACTATAGGGCGGCCGGAATTCGCACGAGCTCAG
ACACTGGNGTCCCAGCTGGGGACTGCTCCACGGCCATGGAGATAGACAGCAGGCCTGGG
GGGCTCCCCGGCAGTAGCTGCAACCTAGGTGCAGCCGAGAACACATGCAGGCGGTCAAC
CCGAAACTACATCACCCACCCCGTGTACCTACAGGACTGTGTGCAGCGTGAACGGGCC
CCTGGTGGTGTGGACCGGGTCAAGTTTGCCAGTATGCGGAGATCGTCCACTTACCCT
CCCAGATGGGACTCAGAGGAGCGGGCAGGTGCTTGAGGTGGCTGGCACCAAGGCGATTGT
TCAGGTGTTTGAAGGGACATCAGGGATCGATGCCAGGAAGACCCTTGCGAATTTACAGG
GGACATCCTACGAACTCCGGTGTGACAGGACATGCTGGGTCGGGTTTTCAATGGCTCCGG
CAAGCCATTGACAAGGGGCCAGTGGTCATGGCGGAGGACTTTCTGGATATCAATGGCCA
GCCCATCAACCCGCACTCCCGCATCTACCCGAGGAGATGATTACAGCGGGCATTCTCC
TATTGACGTATGAACAGCATTGCCCGGGCCAGAAGATCCCCATCTTCTCAGCAGCCGG
GCTTCCCCACAATGAGATTGCCGCTCAGATCTGCCGCCAGGCGGGGCTGGTGAAGAAGTC
CAAGGCTGTGCTGGATTACCATGACGANCACTTCGCCATCGTCTTTCAGCCATGGGGT
GAACATGGAGACAGCCAGATTCTCAGTCTGACNTTGAGCAGAATGGAACCATGGGAACG
TCTGCCTCTTCTGAACTTGGCAATGACCCCGATCGAGCGATCATCACCCGCGCTGGG
CTGACACTGCTGAATNCTTGCTCN
    
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_001692 unedited AGTTTTATATATATCTTTTTTTTTTTCAGTTACTTTTTATTTTTATTTTGTGGGCTTTTA ACATAAAATACAGATGCTCCCCTCAGAGTAAGGCATCGCAACCTTCAGTTCTTCCGCAGC ACCGGGAGTCGAGGGGGAGGCATGGAGCGCGGGAAAAGGAATCGAGCGAGGGAAAGGGAT GGAGCGTGC GGCGCCCCACCACCTCGGAGCCAGCGGAGGGCGGAGGGCGGCATAAGC CGCTGGTTGGGGTGGCGAGGGAGGGGAGACCCGGGAGCCGAGGGTAGGTTCCCTGCCGGT GTTGGGGTGCCACGGCGCGGGGCTAGAGCGCATTGTGAGGCGGAGGTCCTGCAGCGC CCCCTCGCGGGAATAGAACTCGTCGATCACGGCCTGCGGAATGCGCTTCAGCATCTCCTT GGGAAGATGCGCAGCAGCTTCCAGCCCAGGTCCAGCGACTCGAACACCGAGCGGTTCTC GTAGGGGCCCTGATTGATGAAGTTCTTCTCAAACCTTCTGCAGGAATTCCAGGTAGAGCAG GTCCTCAGAGGTGAGCGCCTCTCCCAACTACTGCCTTCATGGCCTGCACGTCCTTCCC GATGGCATAGCAGGCGTACAGCTGGTTGGAGACATCTCCATGGTCCTTTCTTGTGCATGCC TTCCCATGGCTGACTTCATCAGCCGACAGGGAAAGGAGCACGTTGATGGGGGGTAG ATCTGTCTGTTGTAAGCTGTCTGTCCACGTAGATCTGTCCCTCTGTGATGAAGCCCGTC CAGTCTGGGATAGGGTGGGTGATATCGTCCTTGGGCATGGTGAGGATGGGGGACCA
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_001692
<b>Insert Size:</b>	2000 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_001692.2</a></u> , <u><a href="#">NP_001683.2</a></u>
<b>RefSeq Size:</b>	1956 bp
<b>RefSeq ORF:</b>	1956 bp
<b>Locus ID:</b>	525
<b>UniProt ID:</b>	<u><a href="#">P15313</a></u>
<b>Cytogenetics:</b>	2p13.3
<b>Domains:</b>	ATP-synt_ab, ATP-synt_ab_C, ATP-synt_ab_N
<b>Protein Families:</b>	Druggable Genome

<b>Protein Pathways:</b>	Epithelial cell signaling in Helicobacter pylori infection, Metabolic pathways, Oxidative phosphorylation, Vibrio cholerae infection
<b>Gene Summary:</b>	This gene encodes a component of vacuolar ATPase (V-ATPase), a multisubunit enzyme that mediates acidification of eukaryotic intracellular organelles. V-ATPase dependent organelle acidification is necessary for such intracellular processes as protein sorting, zymogen activation, receptor-mediated endocytosis, and synaptic vesicle proton gradient generation. V-ATPase is composed of a cytosolic V1 domain and a transmembrane V0 domain. The V1 domain consists of three A and three B subunits, two G subunits plus the C, D, E, F, and H subunits. The V1 domain contains the ATP catalytic site. The V0 domain consists of five different subunits: a, c, c', c'', and d. Additional isoforms of many of the V1 and V0 subunit proteins are encoded by multiple genes or alternatively spliced transcript variants. This encoded protein is one of two V1 domain B subunit isoforms and is found in the kidney. Mutations in this gene cause distal renal tubular acidosis associated with sensorineural deafness. [provided by RefSeq, Jul 2008]