

## Product datasheet for **SC119382**

### ATP6AP1 (NM\_001183) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ATP6AP1 (NM_001183) Human Untagged Clone
Tag:	Tag Free
Symbol:	ATP6AP1
Synonyms:	16A; Ac45; ATP6IP1; ATP6S1; CF2; VATPS1; XAP-3; XAP3
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:**

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>OriGene sequence for NM_001183 edited
GAATTCGGCACCAGGAGGCTATGATGGCGGCCATGGCGACGGCTCGAGTGC GGATGGGGC
CGCGATGCGCCCAGGCGCTCTGGCGCATGCCGTGGCTGCCGGTGT TTTTGTGTTGGCGG
CGGCGGCGGGCGGCGGACGCGCGGAGCAGCAGGTCCCCTGGTGTGTGGTGCAGTGACC
GGGACTTGTGGCTCCTGCGGCCGACACTCATGAAGGCCACATCACCAGCGACTTGCAGC
TCTCTACCTACTTAGATCCC GCCCTGGAGCTGGGTCCCAGGAATGTGCTGCTGTTCTCTGC
AGGACAAGCTGAGCATTGAGGATTTACAGCATATGGCGGTGTGTTTGGAAACAAGCAGG
ACAGCGCCTTTTCTAACCTAGAGAATGCCCTGGACCTGGCCCCCTCCTCACTGGTGCTTC
CTGCCGTGACTGGTATGCACTAGCACTCTGACCACTTACCTGCAGGAGAAGCTCGGGG
CCAGCCCCCTTGATGTGGACCTGGCCACCCTGCGGGAGCTGAAGCTCAATGCCAGCTCC
CTGCTCTGCTGCTCATTGCGCTGCCCTACACAGCCAGCTCTGGTCTGATGGCACCAGGG
AAGTCTCACAGGCAACGATGAGGTCATCGGGCAGGTCTGAGCACACTCAAGTCCGAAG
ATGTCCCATACACAGCGGCCCTCACAGCGGTCCGCCCTTCCAGGGTGGCCCGTGATGTAG
CCGTGGTGGCCGAGGGCTAGGTCGCCAGCTGCTACAAAAACAGCCAGTATCACCTGTGA
TCCATCCTCTGTGAGTTACAATGACACCGCTCCCCGGATCCTGTTCTGGGCCAAAAC
TCTCTGTGGCGTACAAGGACCAGTGGGAGGACCTGACTCCCCTCACCTTTGGGGTGCAGG
AACTCAACCTGACTGGCTCCTTCTGGAATGACTCCTTTGCCAGGCTCTCACTGACCTATG
AACGACTCTTTGGTACCACAGTGACATTCAAGTTCATTCTGGCCAACCGCCTCTACCCAG
TGTCTGCCCGGCACTGGTTTACCATGGAGCGCCTCGAAGTCCACAGCAATGGCTCCGTCG
CCTACTTCAATGCTTCCCAGGTCACAGGGCCCAGCATCTACTCCTTCCACTGCGAGTATG
TCAGCAGCCTGAGCAAGAAGGGTAGTCTCCTCGTGGCCCGCACGAGCCCTCTCCCTGGC
AGATGATGCTTCAGGACTTCCAGATCCAGGCTTCAACGTAATGGGGGAGCAGTTCTCCT
ACGCCAGCGACTGTGCCAGCTTCTTCTCCCCGGCATCTGGATGGGGCTGCTCACCTCCC
TGTTTCATGCTCTTCATCTTACCTATGGCCTGCACATGATCCTCAGCCTCAAGACCATGG
ATCGCTTTGATGACCACAAGGGCCCCACTATTTCTTTGACCCAGATTGTGTGACCCTGTG
CCAGTGGGGGGTGGAGGTGGGACGGTGTCCGTGTTGTTGCTTTCCACCCTGCAGCGC
ACTGGACTGAAGAGCTTCCCTCTTCTACTGCAGCATGAACTGCAAGCTCCCCTCAGCCC
ATCTTGCTCCCTTTCAGCCCGTGGAGGCTTTCTTGGGCTGCCCCATCTCTCCCAAC
AAGGTGTACATATTCTGCGTAGATGCTAGACCAACCAGCTTCCCAGGGTTCGTCGCTGTG
AGGCGTAAGGGACGTGAATTCTAGGGTCTCCTTTCTCCTATTTTATTCTGTGGCTACAT
CATCCCTGGCTGTGGATAGTGCTTTTGTGTAGCAAATGCTCCCTCCTTAAGGTTATAGGG
CTCCCTGAGTTTGGGAGTGTGGAAGTACTTAACTGTCTGTCTGCTTGGCTGTGCTT
ATCGTTTTCTGGTGATGTTGTGCTAACAAATAAGCAGTACACGGGTTTATTTCTGTGGCCT
GAGAAGGAAGGGACCTCCACGACAGGTGGGCTGGGTGCGATCGCCGGCTGTTTGGCATGT
TCCCACCGGGAGTGCCGGCAGGAGCATGGGGTGTGTTGTTTCTTCTTAATAAAAAT
AAACGCGGGTTCGCATGAAAAAAAAAAAAAAAAAAAAAAAAA AACTCGAC
    
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_001183 unedited NTTGTTAGATTTTGTATACGACTCCTATAGGGCGGCCGCGATTCCGGCACCAGGAGGCTAT GATGGCGGCCATGGCGACGGCTCGAGTGC GGATGGGGCCGCGATGCGCCCAGGCGCTCTG GCGCATGCCGTGGCTGCCGGTGT TTTTGTGTTGGCGGCGGCGGGCGGCGGCAGCGGC GGAGCAGCAGGTCCCCTGGTGTGTGGTCGAGTGACCGGACTTGTGGGCTCCTGCGGC CGACACTCATGAAGGCCACATCACCAGCGACTTGCAGCTCTCTACCTACTTAGATCCCCG CCTGGAGCTGGTCCCAGGAATGTGCTGTCTTCTGCAGGACAAGCTGAGCATTGAGGA TTTACAGCATATGGCGGTGTGTTTGGAAACAAGCAGGACAGCGCCTTTTCTAACCTAGA GAATGCCCTGGACCTGGCCCCCTCCTACTGGTCTTCTGCGCTCGACTGGTATGCAGT CAGCACTGACCACTTACCTGCAGGAGAAGCTCGGGGCCAGCCCCTTGCATGTGGACCT GGCCACCCTGCGGGAGCTGAAGCTCAATGCCAGCCTCCCTGCTCTGCTGCTCATTGCGCT GCCCTACACAGCCAGCTCTGGTCTGATGGCACCCAGGGAAGTCTCACAGGCAACGATGA GGTGATCGGGCAGGTCTGAGCACACTCAAGTCCGAAGATGTCCCATACAGCGGCCCT CACAGCGGTCCGCCCTTCCAGGTGGCCCGTGTGTANCCGTGGTGGCCGAGGGCTAGGT CGCCAGCTGTACAAAACAGCCAGATCACCTGTGATCATNCTCCTGTGANTACATGACAC GCTCCCNNGGATCTGNTCTGGCCAAACTTCTCTGTGCGTACAGGACANTGGNNAGACTG ACTCCTACTTTTGGGGGCAGAA
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_001183
<b>Insert Size:</b>	2100 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>	<a href="#">NM_001183.3</a> , <a href="#">NP_001174.2</a>
<b>RefSeq Size:</b>	2055 bp
<b>RefSeq ORF:</b>	1413 bp
<b>Locus ID:</b>	537
<b>UniProt ID:</b>	<a href="#">Q15904</a>
<b>Cytogenetics:</b>	Xq28
<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>	This gene encodes a component of a multisubunit enzyme that mediates acidification of eukaryotic intracellular organelles. Vacuolar ATPase (V-ATPase) is comprised of a cytosolic V1 (site of the ATP catalytic site) and a transmembrane V0 domain. V-ATPase dependent organelle acidification is necessary for such intracellular processes as protein sorting, zymogen activation, and receptor-mediated endocytosis. The encoded protein of this gene may assist in the V-ATPase-mediated acidification of neuroendocrine secretory granules. This protein may also play a role in early development. [provided by RefSeq, Aug 2013]