

Product datasheet for **SC119083**

ATP6V1B2 (NM_001693) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATP6V1B2 (NM_001693) Human Untagged Clone
Tag:	Tag Free
Symbol:	ATP6V1B2
Synonyms:	ATP6B1B2; ATP6B2; DOOD; HO57; VATB; Vma2; VPP3; ZLS2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001693, the custom clone sequence may differ by one or more nucleotides

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ATGGCGCTGCGGGCGATGCGGGGATTGTCAACGGGGCCGACCCGAGCTACCCGTGCCACCGGTGGGC
CGGCGGTGGGAGCTCGGGAGCAGGCGCTGGCAGTCAGTCGGAACCTCTCCAGCCTCGCTCACATA
CAAGACAGTATCTGGAGTCAATGGTCCACTAGTGATCTTAGATCATGTTAAGTTTCCAGGTATGCTGAA
ATTGTCCATTTGACCTTACCGGATGGCACAAGAGAAGTGGGCAAGTTCTGGAAGTTAGTGGTTCCAAGG
CAGTAGTTCAGGTATTTGAAGGGACTTCAGGTATAGATGCTAAGAAAACGTCCTGTGAGTTTACTGGGA
TATTCTCCGAACACCGGTGTCTGAGGATATGCTTGGTGGGTATCAATGGATCGGGAAAACCCATTGAC
AGAGGTCTGTTGTAAGTGGCCGAAGACTTCCTTGATATCATGGGTGAGCAATCAACCCTCAATGTCGAA
TCTACCCAGAGGAAATGATTGAGACTGGCATTTCGGCCATCGATGGGATGAACAGTATTGCTAGGGGGCA
GAAAATTCCTATCTTCTGCTGCTGGGCTACCACACAATGAGATTGCAGCTCAGATCTGTGCCAGGCT
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CTGCCTCTTTTGAAGTGGCTAATGACCAACCATTGAGCGAATTATCACTCCTCGCCTGGCTCTAACC
ACAGCTGAATTTCTGGCGTACCAATGTGAGAAACATGTATTGGTTATTCTAACAGACATGAGTCTTATG
CTGAAGCACTTCGAGAGGTTTCAGCAGCCAGGGAAGAGGTACCTGGTCGACGAGGTTTCCAGGTTACAT
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ATCCCTATTCTAACCATGCCTAATGATGATATCACTCACCCATCCAGACTTGACTGGCTACATTACAG
AGGGGCAGATCTATGTGGACAGACAGCTGCACAACAGACAGATTTATCCACCTATCAATGTGCTGCCCTC
ACTATCACGGTTAATGAAGTCTGCTATTGGAGAAGGGATGACCAGGAAGGATCATGCCGATGTATCTAAC
CAGCTATATGCGTGCTATGCTATTGGAAAGGATGTGCAAGCCATGAAAGCTGTCGTTGGAGAAGAAGCCC
TTACCTCAGATGATCTTCTACTTGAATTTCTGCAGAAGTTTGAGAGGAACCTCATTGCTCAGGGTCC
TTACGAAAATCGCACTGTCTTTGAGACTTTGGACATTGGCTGGCAGCTACTCCGAATCTTCCCAAAGAA
ATGCTGAAGAGAATCCCTCAGAGCACCTCAGCGAATTTTACCCTCGAGACTCTGCAAAGCATTAG
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001693 unedited
 TTGTATACGACTCACTATAGGGCGGCCGCGATTCCGGCACGAGGGACAGAGGAGACAAGAT
 GGCGCTGCGGGCGATGCGGGGGATTGTCAACGGGGCCGCACCCGAGCTACCCGTGCCAC
 CCGTGGGCGCGCGGTGGGAGCTCGGGAGCAGGCCTGGCAGTCAGTCGGAACACCTCTC
 CCAGCCTCGCCTCACATAACAAGACAGTATCTGGAGTCAATGGTCCACTAGTGATCTTAGA
 TCATGTTAAGTTTCCCAGGTATGCTGAAATTGTCCATTTGACCTTACCGGATGGCACAAA
 GAGAAGTGGGCAAGTTCTGGAAGTTAGTGGTTCCAAGGCAGTAGTTCAGGTATTTGAAGG
 GACTTCAGGTATAGATGCTAAGAAAACGTCCTGTGAGTTTACTGGGGATATTCTCCGAAC
 ACCGGTGTCTGAGGATATGCTTGGTCGGGTATTCAATGGATCGGGAAAACCCATTGACAG
 AGGTCCTGTTGTACTGGCCGAAGACTTCCTTGATATCATGGGTCAGCCAATCAACCCTCA
 ATGTGCAATCTACCCAGAGGAAATGATTCAGACTGGCATTTCGGCCATCGATGGGATGAA
 CAGTATTGCTAGGGGGCAGAAAATTCCTATCTTCTCTGCTGCTGGGCTACCACACAATGA
 GATTGCAGCTCAGATCTGTGCCAGGCTGGTTTGGTAAAGAAATCCAAAGATGTAGTAGA
 CTACAGTGAGGAAAATTTGCAATTGTATTTGCTGCTATGGGGTGAACATGGNNAACTG
 NCCNGTTCTTCANNATCTGACTTGAAGAAAATGGCTCATGGGACAATGTCTGCCTCTTNN
 TGAAACTGGGCTATGACCCACCATTGAGCGAATATCACTNCTCGNCTGGCTCTACCCAGT
 A

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_001693 unedited
 CGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTCTTTAATTTAACATTTATTT
 TCATTTTATATCCAGATGTCACATTTTCTACATTAATAATAATCATGCTGACTCCCCCA
 ACCCCCAGCCCTCAGAGAAAAAGTGAAGAACTTTACACAACATGAAAGATGGAATGCAC
 GGGGTAGGGAAGTTGCTATTGCACCCAAGTAACAAGAACACAGAGACCAACAGGACG
 CATGGCAGAACTGCATAGAAGATCGCTCAGGGCTCACGTGAGGAAGGCGCAGGAATTCAG
 AAAACTCTAAAGCTTGGAAATGCTATCGTTTGTGCCACAAGATTACCCTGAAAAGGTAG
 AGAGAGGTCAAAAAGCAGAACCAAAATGGGGATTTTCAAAGGCTGCTCTAACAGAGTT
 TAAAATATCCGTAACATAAGTGCTTCTGCTCCCTCCCTTGCCTTCAGCATCTGGTAAA
 CACTTTAGAACTTAAACCACTGTTAGCATGTCAGAATGTAGAAAGGCTGTAGGTTTTTC
 TTTCTTCTCATCTGTACCCCAACAACAACCTACTGGCAATTTGATTCATGTGACTCC
 TCTGCTTGAAACCAGTAAGGATCACCAAGACAAGGGGTCTCACTGCTACCAGACAGATA
 CCAGCTGTGCAAAAAGTTGCCAGATTCTGTGATTATTTGGAGAGGGAGAGCTGTAAAG
 ACAGGAATCCAATACGTAAAGTACTAAAGAGAAAAAGAAACCCCTTCCCTCATCTATTCC
 TTATATAGGAAAGAGCCAAAAGACCGTCAAACCTTCTGCTTTGAGCAGAACACACGCCAC
 AATACAGGCTACCACCAACCGAAGCCACCCTCAGAAAAACCTCTTGGCCTTCAAAGAAA
 CTTCTTAAGTGGATCTGCCCTATGGAAAACAAGCTTTTATTTAAACTGACTTT

Restriction Sites:

NotI-NotI

ACCN:

NM_001693

Insert Size:

2940 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).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
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.

RefSeq: [NM_001693.2](#), [NP_001684.2](#)

RefSeq Size: 3054 bp

RefSeq ORF: 3054 bp

Locus ID: 526

UniProt ID: [P21281](#)

Cytogenetics: 8p21.3

Domains: ATP-synt_ab, ATP-synt_ab_C, ATP-synt_ab_N

Protein Families: Druggable Genome

Protein Pathways: Epithelial cell signaling in Helicobacter pylori infection, Metabolic pathways, Oxidative phosphorylation, Vibrio cholerae infection

Gene Summary: 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, three B, and two G subunits, as well as a C, D, E, F, and H subunit. The V1 domain contains the ATP catalytic site. The protein encoded by this gene is one of two V1 domain B subunit isoforms and is the only B isoform highly expressed in osteoclasts. [provided by RefSeq, Jul 2008]