

Product datasheet for **SC119084**

ATP6V0C (NM_001694) Human Untagged Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | ATP6V0C (NM_001694) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | ATP6V0C |
| Synonyms: | ATP6C; ATP6L; ATPL; VATL; Vma3; VPPC |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| Fully Sequenced ORF: | >OriGene ORF within SC119084 sequence for NM_001694 edited (data generated by NextGen Sequencing) |

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ATGTCCGAGTCCAAGAGCGGCCCGAGTATGCTTCGTTTTTCGCCGTCATGGGCGCCTCG
GCCGCCATGGTCTTCAGCGCCCTGGGCGCTGCCTATGGCACAGCCAAGAGCGGTACCGGC
ATTGCGGCCATGTCTGTTCATGCGGCCGGAGCAGATCATGAAGTCCATCATCCCAGTGGTC
ATGGCTGGCATCATCGCCATCTACGGCCTGGTGGTGGCAGTCCTCATCGCCAACCTCCCTG
AATGACGACATCAGCCTCTACAAGAGCTTCTCCAGCTGGGCGCCGGCCTGAGCGTGGGC
CTGAGCGGCCTGGCAGCCGGCTTTGCCATCGGCATCGTGGGGGACGCTGGCGTGCGGGGC
ACCGCCCAGCAGCCCCGACTATTCGTGGGCATGATCCTGATTCTCATCTTCGCCGAGGTG
CTCGGCCTCTACGGTCTCATCGTCGCCCTCATCCTCTCCACAAAGTAG
```

Clone variation with respect to NM_001694.3



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001694 unedited
 GGGCACTATTTGTATACGACTCACTATAGGCGGCCGCGAAATTCGCACGAGGCTGGTATT
 TAGAGCGCAGCGGCTGACGGGCCGGATCGCCTTCGCCGCCGCCGCCGCAAACCTTCGT
 GCCCGGCCCGTCTCGCCCCGCCTCCGCCACCGCCTCGGCCCGCAGAGCTTGCCCCCTC
 CCCACCCGACAGACATGTCGAGTCCAAGAGCGGCCCGAGTATGCTTCGTTTTTCGCCGT
 CATGGGCGCCTCGGCCGCATGGTCTTCAGCGCCTGGGCGCTGCCTATGGCACAGCCAA
 GAGCGGTACCGGATTGCGGCCATGTCTGTTCATGCGGCCGGAGCAGATCATGAAGTCCAT
 CATCCCAGTGGTATGGCTGGCATCATGCCATCTACGGCCTGGTGGTGGCAGTCCAT
 CGCCAACCTCCCTGAATGACGACATCAGCCTCTACAAGAGCTTCCTCCAGCTGGGCGCCGG
 CCTGAGCGTGGGCTGAGCGGCCTGGCAGCCGGCTTTGCCATCGGCATCGTGGGGACGC
 TGGCGTGCGGGACCGCCAGCAGCCCGACTATTCTGGGCATGATCCTGATTCTCAT
 CTTGCGCGAAGTGTCTCGGCTCTACGGTCTCATCGTGCACCTCATCTCTCCACAAAGTA
 GACCTCTCCGAGCCACCAGCCACAGGATATTATGTAAGACCACCCCTCCTCATTCCAG
 AACGAACAGNCTGACACATACGCCCGGGGCCCGGCCCCCAAAGTGGGGCTGTACC
 ATGCCCATGTCTAGTGCCCATCGTTTTGGTTTTCCCGCCTTGCCCCGCCGCCCTGC
 CGTGAAATCTGGGCCACTAATCGCCCTTCAAGCCCCGGGGCCCCCCCCCTAAAAGG
 TTCTGT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_001694 unedited
 ATGACCGCGCCCAATCTAGAGTCGAGNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
 TTTCAACATCCAAAACCTTATTGGACACAGTCCGCGCAGGGCCACGGGCCGGCGGTG
 AGGGCGGTTCCATCCAGAAAGTCTCAGCAACAGGAACCCACAAGGCGACACTCTACCTAA
 GGTATAAATAGCTGGGAAACAAGGGCCGTTCCGCAAACGCAGGAACAGGCCAAATCTTT
 ATAAATAAACATCCAGTAAAGAAAAATGACAATTCTAAATCATCCGCATACACAAAGCAC
 TCTAGGGGTGGGCCCCGGGGCCTGAAGGGCAATAAGGGGCCCAAATGTCCACGGC
 ACGGGGCGCCGGGGCAAGGCCGGGAAACAGACGATGGGCACTAGGACACTGCGCATG
 TACAAGACCAACTACTGGGGCGCGGCCCGTGCATGTGTGTCAGGCTGTTCTGTTCTGG
 AATGAGGAGGGGGGCTTTACATAATTTCTGAGGCTGGCGGGCTCGGAAAGGTCTACT
 TTGTGGAGAGGATGAGGGCGACAATTACCCGTAAGGCCGAACCTCGGGGAAATGA
 CTTCAGGATCTTGCCACGAATAATTGGGTTGTTGGGCGGGGCCCGTACGCCAAGGGC
 CCCAAAAGCCTATGGCAAACCCGCTCTGCAGCCCTTAGCCCCATTTAGCCCGGGCCCA
 ATTGGGGGAACCTTGTAAGGCTATGCTTAATTTAGGGAATTGCGAAAAGATGGCAACCC
 AAAACGAAAATGGGAAAGAGCCCTTCCCATGGGAGAGGGCCTCAAATCCTCCCCCCCC
 CATAAAAAGTGTAAAGCCGTAA

Restriction Sites:

NotI-NotI

ACCN:

NM_001694

Insert Size:

1210 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_001694.2](#), [NP_001685.1](#)

RefSeq Size: 1126 bp

RefSeq ORF: 468 bp

Locus ID: 527

UniProt ID: [P27449](#)

Cytogenetics: 16p13.3

Domains: ATP-synt_C

Protein Families: Transmembrane

Protein Pathways: Epithelial cell signaling in Helicobacter pylori infection, Lysosome, 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 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. This gene encodes the V0 subunit c. Alternative splicing results in transcript variants. Pseudogenes have been identified on chromosomes 6 and 17. [provided by RefSeq, Nov 2010]
Transcript Variant: This variant (1) represents the longer transcript. Both variants 1 and 2 encode the same protein.