

Product datasheet for **SC127436**

ATP6V1E1 (NM_001696) Human Untagged Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | ATP6V1E1 (NM_001696) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | ATP6V1E1 |
| Synonyms: | ARCL2C; ATP6E; ATP6E2; ATP6V1E; P31; Vma4 |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| Fully Sequenced ORF: | >OriGene ORF within SC127436 sequence for NM_001696 edited (data generated by NextGen Sequencing) ATGGCTCAGCGATGCTGACGTGCAAAAAGCAGATAAAGCATATGATGGCTTTCATTGAA CAAGAAGCCAATGAGAAAGCAGAAGAAATAGATGCAAAGGCAGAAGAAGAGTTCAACATA GAGAAAGGTCGGCTTGTGCAAACCCAAAGACTAAAGATTATGGAATATTATGAGAAGAAA GAGAAACAGATTGAGCAGCAGAAGAAAATTCAGATGTCCAATTTGATGAATCAAGCGAGA CTCAAAGTCCTCAGAGCAAGAGATGACCTTATCACAGACCTACTAAATGAAGCAAAACAG AGACTCAGCAAGGTGGTAAAAGATACAACCAGGTACCAAGTGCTGCTGGATGGACTGGTT CTCCAGGGTTTGTACCAGTTGCTGGAGCCCCGAATGATTGTTTCGTTGCAGGAAACAAGAT TTCCCTCTGGTAAAGGCTGCAGTGCAGAAGGCAATTCCTATGTACAAAATTGCCACAAA AACGATGTTGATGTCAAATTGACCAGGAGTCCTACCTGCCTGAAGACATAGCTGGTGGA GTTGAGATCTATAATGGAGATCGTAAAATAAAGGTTTCCAACACCCTGGAAAGCCGGCTG GATCTCATAGCCCAGCAGATGATGCCAGAAGTCCGGGGAGCCTTGTTTGGTGCAAATGCC AACAGGAAGTTTTTGGACTAA Clone variation with respect to NM_001696.3 |



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001696 unedited
 TTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGGAACCGGAACCCG
 CGGTTATAAAGTAAAGGAACCCGAGATCTGCGCAGGGGTTCCCTTTGCCGATTTCTCTCA
 CCTCACCTTTCAAACCTAAACTCGAGCCTGCTGTTACCGGCCTAGCATTGCTCTCGCCA
 TGGCTCTCAGCGATGCTGACGTGCAAAAAGCAGATAAAGCATATGATGGCTTTCATTGAAC
 AGAAAGCCAATGAGAAAAGCAGAAAATAGATGCAAAGGCAGAAAGAGTTCAACATAG
 AGAAAGGTCGGCTTGTGCAAACCCAAAGACTAAAGATTATGGAATATTATGAGAAGAAAAG
 AGAAACAGATTGAGCAGCAGAAGAAAATTCAGATGTCCAATTTGATGAATCAAGCGAGAC
 TCAAAGTCTCAGAGCAAGAGATGACCTTATCACAGACCTACTAAATGAAGCAAAAACAGA
 GACTCAGCAAGGTGGTAAAAGATACAACCAGGTACCAAGTCTGCTGGATGGACTGGTTC
 TCCAGGGTTTGTACAGTTGCTGGAGCCCCGAATGATTGTTTCGTTGCAGGAAACAAGATT
 TCCCTCTGGTAAAGGCTGCAGTGCAGAAGGCAATTCCTATGTACAAAATTGCCACAAAA
 ACGATGTTGATGTCAAATTTGACCAGGAGTCTACCTGCCTGAAGCATAGCTGTTGGAGT
 TGATGATCTATAATGGAGATCGTANAATAAGGTTTCCAACACCCTGGAAAGCCGCTGGATC
 TCATAGCCAGCAGATGATGCCAGAAGTCCGGNGAGCCCTGTTTGGTGCNATGCCACAGG
 AAGTTTTGGNACTAAGCCTTCAGAGTGGAGCTCGTCGACGCTCTCTGCTGTGAGTGGAAAG
 CN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_001696 unedited
 TNCTGGNCTTAGNATTTAAATCACATTTACAGATGAAGGGAAAACCTTAGGCCTAAACA
 GGTAACAGTAAAGCGACTACTGCTGGAAGGAGTGGTGTGCCACATGCGCCTTAAGCCTCA
 AGAGTGGGGACTGCAGGGCCAAACACCAATACATCACCTTTAGGCCAGACGGAGAGTGG
 AGACCCAGGAAGCCCATGCAACCACCATCTGCCCCCTCCCCTAGTCTGCAGAACCGGCT
 GGACACTGTCACACTTTCAGAAGAACTGGAGGTGGGTCCCTGATCATATTACATGAAGCCT
 TCCACCATTGTGAACAATTAGGCAAGGCATGAGTGACAGAGGGGCATCGCTGATAAATAC
 AGAGCAATACTGGGGCAGTGAAGAGGAAGCTACAGAGACATTCGTGTTTCTTCAAATATC
 AGAAGCTTCCACATCACAGCAGGAGAGCTGACGACGAGCTCCACCTCCTGAAGGCTTAGT
 CCAAAAACCTTCTGTTGGCATTTCACCAAAACAAGGCTCCCCGGACTTCTGGCATCATCT
 GCTGGGCTATGAGATCCAGCCGGCTTTCAGGGTGTGGAAACCTTTATTTTACGATCTC
 CATTATAGATCTCACTCCACCAGCTATGTCTTCAGGCAGGTAGGACTCCTGGTCAATTT
 GGACATCAACATCGTTTTTGGTGGCAATTTTGTACATAGGAATTGCCTTCTGCACTGCAG
 CCTTTACCAGAGGGAAATCTTGTTCCTGCACGAACAATCATTNNGNGCTCCCAGCACT
 GGTACANACCCTGGAGAACCAGTCCATCCAGCAGCACTTGGTACCTGGNTGTATCTTTTA
 CACCTTG

Restriction Sites:

NotI-NotI

ACCN:

NM_001696

Insert Size:

1400 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).

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| Reconstitution Method: | <ol style="list-style-type: none">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_001696.2 , NP_001687.1 |
| RefSeq Size: | 1330 bp |
| RefSeq ORF: | 681 bp |
| Locus ID: | 529 |
| UniProt ID: | P36543 |
| Cytogenetics: | 22q11.21 |
| Domains: | vATP-synt_E |
| Protein Pathways: | Epithelial cell signaling in Helicobacter pylori infection, Metabolic pathways, Oxidative phosphorylation, Vibrio cholerae infection |
| Gene Summary: | <p>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. This gene encodes alternate transcriptional splice variants, encoding different V1 domain E subunit isoforms. Pseudogenes for this gene have been found in the genome. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (a).</p> |