

Product datasheet for **SC319707**

ATP6V1C1 (NM_001695) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATP6V1C1 (NM_001695) Human Untagged Clone
Tag:	Tag Free
Symbol:	ATP6V1C1
Synonyms:	ATP6C; ATP6D; VATC; Vma5
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_001695.3
 GGGGGGTAGAGGAAGCCGTGAGGCCGGAGCTTAGGTCGGGAAGGGATGGATCGCTGAGC
 CGATAGCGTCCGCTAGGCTGTCTGCCTCGGTACCTGTTACTGCTGCTACTTCCTCGTTTG
 ACACCTTCTGGAATCTCTTTGATTTTTGAGGAAATACCTAGTAACAAACATGACTGAG
 TTCTGGCTTATATCTGCTCCTGGGGAGAAAACCTGTCAGCAAACATGGGAGAAATGCAT
 GCGGCAACTTCAAAGAACAATAATCTTGCTGTCACCTCCAAGTTCAATATTCCTGACTTA
 AAGTGGCACGTTGGATGTCTTGCTTGCTTGTGCTGATGAACTGGCTAAACTGGATGCA
 TTTGTAGAAGGAGTGGTTAAGAAAAGTAGCTCAATACATGGCTGATGTATTGGAAGATAGC
 AAAGACAAAGTTCAAGAGAATCTGTTGGCTAATGGAGTGGACTTGGTTACTTATATAACA
 AGGTTCCAGTGGGACATGGCCAAATATCCAATCAAGCAGTCCCTGAAAAATATTTCTGAA
 ATAATTGCCAAGGGAGTAACTCAGATTGATAATGACCTGAAATCTCGAGCATCTGCATAC
 AATAACCTGAAAGGAAATCTCAGAAATTTGGAACGAAAGAATGCAGGAAGTTTGCTAACT
 AGAAGTCTAGCAGAAATGTGAAGAAGGATGACTTTGTTCTTGATTGAGATATCTCGTC
 ACATTACTGGTAGTAGTCCCAAGTTAAACCACAACGACTGGATTAAGCAGTATGAAACA
 CTAGCCGAAATGGTAGTCCCAAGTCTAGCAATGTTCTTTGAGAGACCAAGACAGTTAC
 CTGTGTAATGTCACCTTGTTTAGGAAGGAGTTGATGACTTCAGACACAAGCCAGAGAA
 AACAAATTCATTGTTCTGACTTCCAGTATAATGAAGAGGAGATGAAAGCAGATAAAGAA
 GAAATGAACAGGCTTTCTACTGATAAGAAAAACAATTTGGACCACTTGTACGGTGGCTG
 AAAGTGAATTTTGTGAAGCATTATTGCATGGATTACAGTGAAGCATTACGGGTTTTTC
 GTTGAGTCTGTTTTAAGGTATGGCTTGCCAGTGAACCTCCAAGCAATGCTACTTCAGCCC
 AATAAGAAAACCTTTGAAGAACTGAGAGAAGTATTACATGAATTGTATAAACATCTAGAC
 AGCAGTGCAGCAGCTATTATTGATGCTCCTATGGATATTCCAGGTTTAAACCTGAGTCAA
 CAAGAATACTACCCCTATGTGACTACAAGATTGATTGCAACTTGCTGGAATTCAGTGA
 AAATGGGCTCCTCCCCGACAATCCTGTCTTGTGTTTGTGTGCTAACAGAAATAAGT
 TGCAATATGGTCTACTTTTAACTCTAGTATCCTTTGCTTGTCTTACCCCTTTCTTA
 GGTGAATCTCCACAGTGGTCTGTATCTCAACATTTTCTTTTTAAAGGAAAAAATATAT
 ATATATAGTTTCTTTTTATTGATCAGGTCTGTAATGTGTAATAAAAAATCAGAGTTTA
 TTTATAAACAAAATAGTTTATTTAAAGAGAAGGTCTTCTCTTATTGATATCATGGTATG
 CATTAAATCCATTTGTTACTATTGTGCACAAAAGCCCTGTTACAGGGGAATGGTGTAAA
 CATTATACTGTTTTGTTCACTGTATTTAGTAGACATAACTGTTGAATAGTTACTGAATC
 ATGATGTAAGAATATGTACCATCTTCAGGTATGGGATTTCTGAACTTTCAAATTTCA
 ATCAATGAGCACTGTCAACACCCACAGGAGAGAATAAAATTACCTGTGCAAAAAAAAAA
 AAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_001695

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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001695.3](#), [NP_001686.1](#)

RefSeq Size: 5721 bp

RefSeq ORF: 1149 bp

Locus ID: 528

UniProt ID: [P21283](#)

Cytogenetics: 8q22.3

Domains: V-ATPase_C

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 intracellular compartments of eukaryotic cells. V-ATPase dependent 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 gene is one of two genes that encode the V1 domain C subunit proteins and is found ubiquitously. This C subunit is analogous but not homologous to gamma subunit of F-ATPases. Previously, this gene was designated ATP6D. [provided by RefSeq, Jul 2008]