

Product datasheet for **SC316681**

ATP6V0E2 (NM_001100592) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATP6V0E2 (NM_001100592) Human Untagged Clone
Tag:	Tag Free
Symbol:	ATP6V0E2
Synonyms:	ATP6V0E2L; C7orf32
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC316681 representing NM_001100592. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGCGCGTGCGCGGCCCGGCCCGGCTGATCGCTTCGGGTGCTCGACTCCTGTTGCGCATGCTCAGCGCG
CTGCCCGGCTGGGACCCGCGCACCTGCAGCGCCCGCTGCTCGGCCCTGCATCCTGCCTGGGCATCCTG
CGCCCGGCCATGACGGCGCACTATTGCCCTCCCGGTCATCATCTTACCACGTTCTGGGGCTCGTC
GGCATCGCCGGGCCCTGGTTCGTGCCGAAGGGACCCAACCGGGAGTGATCATCACCATGCTGGTCGCC
ACCGCCGTCTGCTGTACCTCTTGTGCCAGCTCTCGGAATGACTGTGGCTCCACTGTCCCTGACAAAC
CCTTCGTCGGGACCTCCCCACAACTATGTCTGGTACCAGCTCCCTCCTGCTGGCACCCAGAGAC
CCGGACCCGAGGGCCTGCCTGGTTCCTGGAAGTCTTCCAGTCTTCCAGCCAGCCGGGCCCTGGGG
AGCCCTGGGCACAGCAGCGGCCGAGGGGATGTCCTGCTCCAATACCCGCACTGCTCTGGAGTTTGCCT
CTTCCCAAGGAGATGCTGCTGGGGAGCTGGTATGGGTGGGGTCTTTCCCTTTACAGACGGGGCAGATG
CCAGGACTCAGCCCATCCTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites:	Sgfl-MluI
Plasmid Map:	<input type="checkbox"/>
ACCN:	NM_001100592
Insert Size:	642 bp



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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:	<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_001100592.2
RefSeq Size:	2635 bp
RefSeq ORF:	642 bp
Locus ID:	155066
UniProt ID:	Q8NHE4
Cytogenetics:	7q36.1
Protein Pathways:	Epithelial cell signaling in Helicobacter pylori infection, Metabolic pathways, Oxidative phosphorylation, Vibrio cholerae infection
MW:	22 kDa
Gene Summary:	<p>Multisubunit vacuolar-type proton pumps, or H(+)-ATPases, acidify various intracellular compartments, such as vacuoles, clathrin-coated and synaptic vesicles, endosomes, lysosomes, and chromaffin granules. H(+)-ATPases are also found in plasma membranes of specialized cells, where they play roles in urinary acidification, bone resorption, and sperm maturation. Multiple subunits form H(+)-ATPases, with proteins of the V1 class hydrolyzing ATP for energy to transport H⁺, and proteins of the V0 class forming an integral membrane domain through which H⁺ is transported. ATP6V0E2 encodes an isoform of the H(+)-ATPase V0 e subunit, an essential proton pump component (Blake-Palmer et al., 2007 [PubMed 17350184]).[supplied by OMIM, Mar 2008]</p> <p>Transcript Variant: This variant (2) lacks an alternate segment in the 3' coding region, compared to variant 1, that causes a frameshift. The resulting protein (isoform 2) has a longer and distinct C-terminus, compared to isoform 1.</p>