

Product datasheet for SC111093

ATP6V0E1 (NM_003945) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATP6V0E1 (NM_003945) Human Untagged Clone
Tag:	Tag Free
Symbol:	ATP6V0E1
Synonyms:	ATP6H; ATP6V0E; M9.2; Vma21; Vma21p
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC111093 sequence for NM_003945 edited (data generated by NextGen Sequencing)

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ATGGCGTATCACGGCCTCACTGTGCCTCTCATTGTGATGAGCGTGTCTGGGGCTTCGTC
GGTTCTTGGTGCCTTGGTTCATCCCTAAGGGTCTAACCGGGGAGTTATCATTACCATG
TTGGTGACCTGTTGCTGCTATCTCTTTGGCTGATTGCAATTCTGGCCCAACTC
AACCTCTCTTTGGACCGCAATTGAAAAATGAAACCATCTGGTATCTGAAGTATCATTGG
CCTTGA
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Clone variation with respect to NM_003945.3

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_003945 unedited GCACGAGGGCCGACCATGGTCGTATCACGGCCTCACTGTGCCTCTCATTGTGATGAGCGT GTTCTGGGGCTTCGTCGGCTTCTTGGTGCCTTGGTTCATCCCTAAGGGTCTAACCGGGG AGTTATCATTACCATGTTGGTGACCTGTTGCTGCTATCTCTTTGGCTGATTGC AATTCTGGCCCAACTCAACCCTCTCTTTGGACCGCAATTGAAAAATGAAACCATCTGGTA TCTGAAGTATCATTGGCCTTGGGAAGAAGACATGCTCTACAGTGCTCAGTCTTTGAGGT CACGAGAAGAGAATGCCTTCTAGATGCAAAATCACCTCCAAACCAGACCCTTTCTTGA CTTGCCTGTTTTGGCCATTAGCTGCCTTAAACGTTAACAGCACATTTGAATGCCTTATTC TACAATGCAGCGTGTTCCTTTGCCTTTTTTGCCTTTGGTGAATTACGTGCCTCCATA ACCTGAACTGTGCCGACTCCACAAAACGATTATGTACTCTTCTGAGATAGAAGATGCTGT TCTTCTGAGAGATACGTTACTCTCTCTTGAATCTGTGGATTTGAAGATGGCTCCTGCC TTCTCACGTGGGAATCAGTGAAGTGTGAAACTGCTGCAAGACAAACAAGACTCCAGT GNGGTGGTCAGTAGGAGAGCACGTTTCAGAGGGAA
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_003945 unedited TTGAACGCGGCCCAATCTAGAGTCGAGTT TTTTTTTTCCATAAAAAGGAGGAAAATATTTATTCAAAAAGAATGGCAAAAAAAAAAAAAAT TCATCCTGAAAGTATAGTTGGGGGCGATTCTGTTGAAATGGCTTTTCTTTTGAACGTGC TTTCTACTGACCACCCCACTGGAGTCTTGTGTTGCTTGCAGCAGTTTCTAAACACTTCA CTGATTTCCACGTGAAAAGGCAGGAGCCATTTTCAAATCCACAGATTTCAAGGAAAGAGT AACGTATTTTTCAAAAAACAGCATTTTTTATTTCAAAAAAGTACATAATCGTTTTGGGG AGTCGGCACAGTTCAGGTTATGGAGGCAGTAATTCACCAAAGTGCAAAAAAGGCAAAAGG AAAACACCCTGCATTGTAATAAAGGCATTCAAATGTGCTGTTAACGTTTAAAGGCAGCTA ATGGCCAAAACAGGCAAGTCAAAAAAGTGGTCTGGTTTGGAGGTGATTTTGCATCTAAA AGGCATTCTCTTCTCGTGACCTCAAAAAGTACTGACTGTAAAGCATGTCTTCTTCTCAA GGCCAATGATACTTCAAATACCAAATGGTTTCATTTTTCAATTGCGGTCCAAAGAGAGGG TTGAGTTGGGCCAAAATTGCAATCAGCCAAAAGAGATAGCAGCAAAGTGAACAGGTCACC AACATGGTAATGATAACTCCCCGGTTAGGACCCTTAGGGATGAACAGGCACCAAGAAGC CGACGAAGCCCCAGACACGCTCATCAATGAGAGGCCAGTGAGGCCGTGATCGCATGGT CGCCTCGTGCCGATTCCGGCCGCTATAGTGAGTCGTATACAAAATCTGACGTTCACTAA CGAGCTTGCTTAT
Restriction Sites:	NotI-NotI
ACCN:	NM_003945
Insert Size:	880 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:	<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_003945.3 , NP_003936.1
RefSeq Size:	894 bp
RefSeq ORF:	246 bp
Locus ID:	8992
UniProt ID:	O15342
Cytogenetics:	5q35.1
Protein Families:	Transmembrane

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 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 encoded protein is possibly part of the V0 subunit. Since two nontranscribed pseudogenes have been found in dog, it is possible that the localization to chromosome 2 for this gene by radiation hybrid mapping is representing a pseudogene. Genomic mapping puts the chromosomal location on 5q35.3. [provided by RefSeq, Jul 2008]</p>