

## Product datasheet for **RC224170**

### ATP6V0E2 (NM\_001100592) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** ATP6V0E2 (NM\_001100592) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** ATP6V0E2  
**Synonyms:** ATP6V0E2L; C7orf32  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC224170 representing NM\_001100592  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCGCGTGCGCGGCCCGCCGGCTGATCGCTTCGGGTGCTCGACTCCTGTTGCGCATGCTCAGCGCGC  
 TGCCCGGCTGGGACCCGCGCACCTGCAGCGCCCGCTGCTCGGCCCTGCATCCTGCCTGGGCATCCTGCG  
 CCCGGCCATGACGGCGCACTCATTGCCCTCCCGGTATCATCTTACCACGTTCTGGGGCCTCGTCGGC  
 ATCGCCGGGCCCTGGTTCTGTGCCAAGGGACCCAACCGGGAGTGATCATCACCATGCTGGTCGCCACCG  
 CCGTCTGTGTTACCTCTTGTGCCAGCTCTCGGAATGACTGTGGCTCCACTGTCCCTGACAACCCCTTC  
 GTCCGGACCCTCCCCACAACTATGTCTGGTACCAGCTCCCTCCTGCTGGCACCCAGAGACCCGGAC  
 CCGCAGGGCCTGCCTGGTTCCTGGAAGTCTTCCAGTCTTCCAGCCAGCCCGGGCCCTGGGGAGCCCTG  
 GGCACAGCAGCGGCCGAGGGGATGTCTGCTCCAATACCCGCACTGCTCTGGAGTTTGCCCTCTTTCCCA  
 AGGAGATGCTGCTGGGGAGCTGGTATGGGTGGGTCTTTCCCTTTACAGACGGGGCAGATGCCAGGACTC  
 AGCCCATCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC224170 representing NM\_001100592  
 Red=Cloning site Green=Tags(s)

MRVRGPARLIASGARLLLRMLSALPGWGAHLQRPLLGPASCLGILRPAMTAHSFALPVIIFTTFWGLVG  
 IAGPWFVPKGPNRGVIIITMLVATAVCCYLLCPALGMTVAPLSL TTPSSGSPSTQLCLVTSSLLAPRDPD  
 PQGLPGSWKSSQSSQPARALGSPGHSSGRGDVLLQYPHCSGVCP LSQGDAAAGELVWVGSFPLQTGMPL  
 SPS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8044\\_c03.zip](https://cdn.origene.com/chromatograms/mk8044_c03.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001100592

**ORF Size:** 639 bp

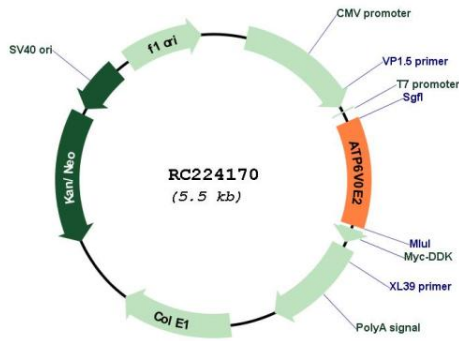
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

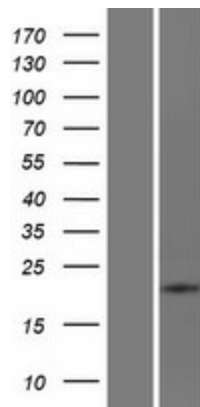
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001100592.2</a> , <a href="#">NP_001094062.1</a>
<b>RefSeq Size:</b>	2565 bp
<b>RefSeq ORF:</b>	642 bp
<b>Locus ID:</b>	155066
<b>UniProt ID:</b>	<a href="#">Q8NHE4</a>
<b>Cytogenetics:</b>	7q36.1
<b>Protein Pathways:</b>	Epithelial cell signaling in Helicobacter pylori infection, Metabolic pathways, Oxidative phosphorylation, Vibrio cholerae infection
<b>MW:</b>	21.8 kDa
<b>Gene Summary:</b>	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]

Product images:



Circular map for RC224170



Western blot validation of overexpression lysate (Cat# [LY420273]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224170 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).