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# Product datasheet for RC219960

## ATP6V0E2 (NM_145230) Human Tagged ORF Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | ATP6V0E2 (NM_145230) Human Tagged ORF Clone |
| **Tag:** | Myc-DDK |
| **Symbol:** | ATP6V0E2 |
| **Synonyms:** | ATP6V0E2L; C7orf32 |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |
| **Cell Selection:** | Neomycin |
| **ORF Nucleotide Sequence:** | >RC219960 representing NM_145230<br>Red=Cloning site Blue=ORF Green=Tags(s)<br><br>TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC<br>GCCGCGATCGCC<br><br>ATGCGCGTGCGCGGCCCGGCCCGGCTGATCGCTTCGGGTGCTCGACTCCTGTTGCGCATGCTCAGCGCGC<br>TGCCCGGCTGGGGACCCGCGCACCTGCAGCGCCCGCTGCTCGGCCCTGCATCCTGCCTGGGCATCCTGCG<br>CCCGGCCATGACGGCGCACTCATTCGCCCTCCCGGTCATCATCTTCACCACGTTCTGGGGCCTCGTCGGC<br>ATCGCCGGGCCCTGGTTCGTGCCGAAGGGACCCAACCGCGGAGTGATCATCACCATGCTGGTCGCCACCG<br>CCGTCTGCTGTTACCTCTTCTGGCTCATCGCCATCCTGGCGCAGCTGAACCCCCTGTTCGGGCCCCAGCT<br>GAAGAATGAGACCATCTGGTACGTGCGCTTCCTGTGGGAG<br><br>ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT<br>ACAAGGATGACGACGATAAGGTTTAA |
| **Protein Sequence:** | >RC219960 representing NM_145230<br>Red=Cloning site Green=Tags(s)<br><br>MRVRGPARLIASGARLLLRMLSALPGWGPAHLQRPLLGPASCLGILRPAMTAHSFALPVIIFTTFWGLVG<br>IAGPWFVPKGPNRGVIITMLVATAVCCYLFWLIAILAQLNPLFGPQLKNETIWYVRFLWE<br><br>TRTRPLEQKLISEEDLAANDILDYKDDDDKV |
| **Restriction Sites:** | SgfI-MluI |

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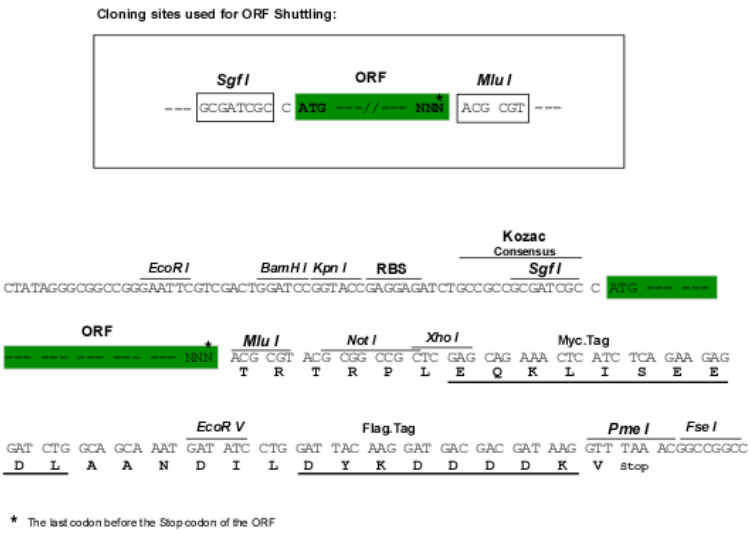
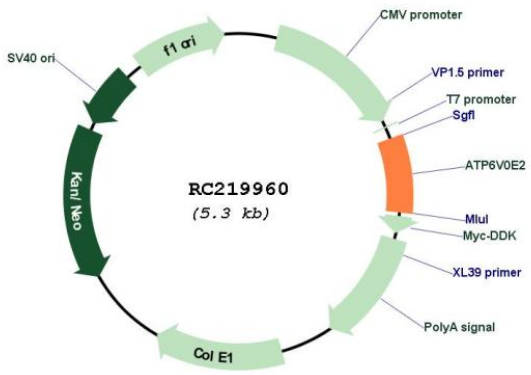
**Cloning Scheme:**




**Plasmid Map:**




**ACCN:** NM_145230

**ORF Size:** 390 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). |
| **Reconstitution Method:** | 1. Centrifuge at 5,000xg for 5min.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_145230.3 |
| **RefSeq Size:** | 2727 bp |
| **RefSeq ORF:** | 246 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:** | 14.2 kDa |
| **Gene Summary:** | 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] |