

## Product datasheet for RC217709

### ATP6V1E1 (NM\_001039367) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Tag:** Myc-DDK  
**Symbol:** ATP6V1E1  
**Synonyms:** ARCL2C; ATP6E; ATP6E2; ATP6V1E; P31; Vma4  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC217709 representing NM\_001039367  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCTCTCAGCGATGCTGACGTGCAAAAGCAGATAAAGCATATGATGGCTTTCATTGAACAAGAAGCCA  
 ATGAGAAAGCAGAAGAAATAGATGCAAAAGGCAGAAGAAGATTCAACATAGAGAAAGGTCGGCTTGTGCA  
 AACCCAAAGACTAAAGATTATGGAATATTATGAGAAGAAAGAGAAACAGATTGAGCAGCAGAAGAAAATT  
 CAGATGTCCAATTTGATGAATCAAGCGAGACTCAAAGTCCTCAGAGCAAGAGATGACCTTATCACAGGTT  
 TGTACCAAGTTGCTGGAGCCCCGAATGATTGTTTCGTTGCAGGAAACAAGATTCCCTCTGGTAAAGGCTGC  
 AGTGCAGAAGGCAATTCCTATGTACAAAATTGCCACCAAAACGATGTTGATGTCCAATTTGACCAGGAG  
 TCCTACCTGCCTGAAGACATAGCTGGTGGAGTTGAGATCTATAATGGAGATCGTAAAAATAAGGTTTCCA  
 ACACCTGGAAAGCCGGCTGGATCTCATAGCCAGCAGATGATGCCAGAAGTCCGGGGAGCCTTGTTTGG  
 TGCAAATGCCAACAGGAAGTTTTTGGAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC217709 representing NM\_001039367  
 Red=Cloning site Green=Tags(s)

MALSDADVQKQIKHMAFIEQEANEKAEIDAKAEFEFNIEKGRLVQTQRLKIMEYYEKKEKQIEQQKKI  
 QMSNLMNQARLKVLRARDDLITGLYQLLEPRMIVRCRKQDFPLVKAQVQKAIPMYKIATKNDVDVQIDQE  
 SYLPEDIAGGVEIYNGDRKIKVSNTLESRLDLIAQQMMPEVRGALFGANANRKFLD

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

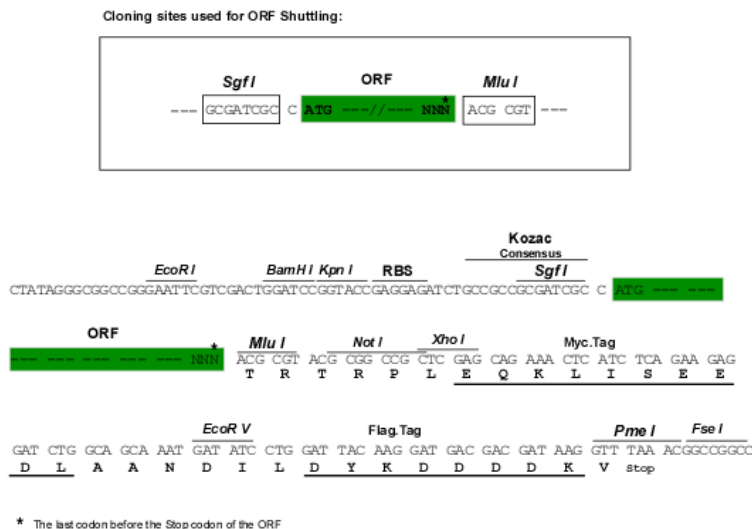
**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1448\\_b05.zip](https://cdn.origene.com/chromatograms/ja1448_b05.zip)



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Restriction Sites: Sgfl-MluI

### Cloning Scheme:



ACCN: NM\_001039367

ORF Size: 588 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.
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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

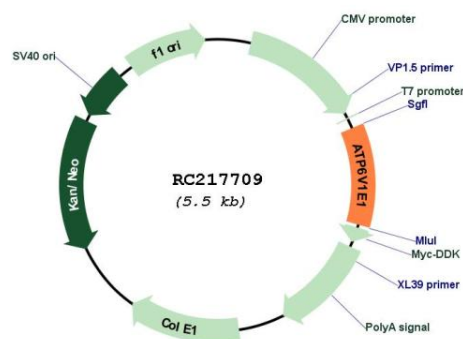
RefSeq: [NM\\_001039367.1](#), [NP\\_001034456.1](#)

RefSeq Size: 1316 bp

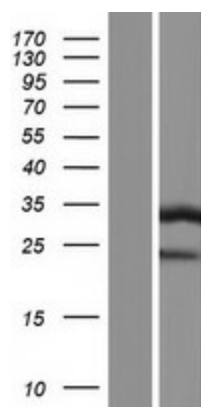
RefSeq ORF: 591 bp

Locus ID:	529
UniProt ID:	<a href="#">P36543</a>
Cytogenetics:	22q11.21
Protein Pathways:	Epithelial cell signaling in Helicobacter pylori infection, Metabolic pathways, Oxidative phosphorylation, Vibrio cholerae infection
MW:	22.5 kDa
Gene Summary:	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, three B, and two G subunits, as well as a C, D, E, F, and H subunit. The V1 domain contains the ATP catalytic site. This gene encodes alternate transcriptional splice variants, encoding different V1 domain E subunit isoforms. Pseudogenes for this gene have been found in the genome. [provided by RefSeq, Jul 2008]

## Product images:



Circular map for RC217709



Western blot validation of overexpression lysate (Cat# [LY422039]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC217709 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).