

Product datasheet for **RC206705**

ATP6V1E2 (NM_080653) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: ATP6V1E2 (NM_080653) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: ATP6V1E2
Synonyms: ATP6E1; ATP6EL2; ATP6V1EL2; VMA4
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC206705 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCCTGAGTGATGTCGATGTGAAAAAGCAGATTAAGCACATGATGGCTTTCATTGAGCAGGAAGCCA
ATGAGAAAGCAGAGGAAATCGATGCCAAGGCTGAGGAAGAGTTTAAACATTGAGAAAGGACGCCTCGTGCA
AACCCAACGACTGAAGATTATGGAGTATTATGAGAAAAAGGAGAAGCAGATAGAGCAGCAGAAGAAAATC
CTGATGTCCACCATGAGGAATCAGGCGAGGCTGAAAGTCCTGAGAGCCCAGAAATGACCTCATCTCAGATT
TGCTCAGTGAGGCGAAGCTGAGACTCAGCAGGATTGTGGAGGACCCAGAGGTCTACCAGGGGCTGCTGGA
TAAACTGGTGCTCCAGGGTCTGCTCCGACTGCTGGAACCTGTGATGATTGTACGCTGCCGCCACAAGAC
CTCCTCCTGGTGGAGGCTGCTGTACAAAAGCCATCCCCGAGTACATGACAATTTCCAGAAACATGTGG
AGGTCCAGATTGATAAAGAGGCATACCTGGCTGTGAATGCAGCTGGAGGTGTGGAGGTCTACAGTGGCAA
TCAGAGAAATAAGGTTTCAAATACCTTGAAAGCCGACTGGATCTCTCAGCCAAGCAAAGATGCCAGAA
ATACGAATGGCCTTGTGGTGTAAACCAACAGAAAGTTCTTTATA

ACGCGTACGCGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RC206705 protein sequence
Red=Cloning site Green=Tags(s)

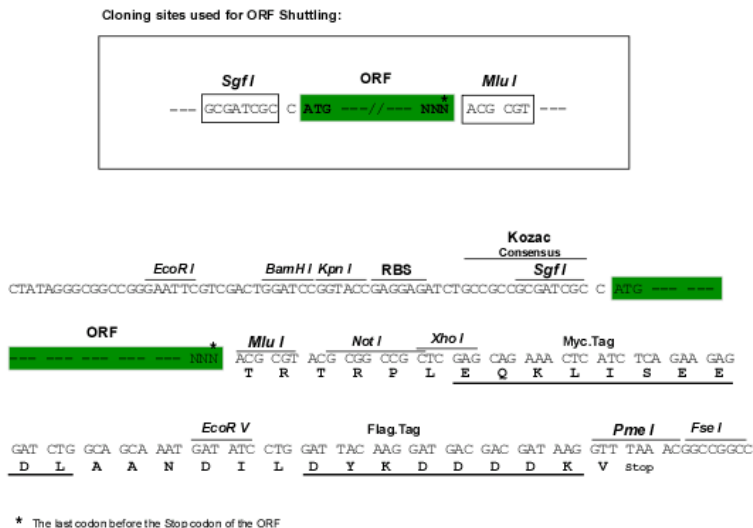
MALSDVDVKKQIKHMMAFIEQEANEKAEIIDAKAEFEFNIEKGRVLVQTQRLKIMEYYEKKEKQIEQQKKI
 LMSTMNRNQRARKVLRARNDLISDLLSEAKLRLSRIVEDPEVYQGLLDKLVLQGLLRLLPEVMIVRCRPQD
 LLLVEAAVQKAIPEYMTISQKHVEVQIDKEAYLAVNAAGGVEVYSGNQRIVKVSNTLESRLDL SAKQKMP E
 IRMALFGANTNRKFFI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6331_e01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_080653

ORF Size: 678 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.

RefSeq: [NM_080653.3](#), [NP_542384.1](#)

RefSeq Size: 2025 bp

RefSeq ORF: 681 bp

Locus ID: 90423

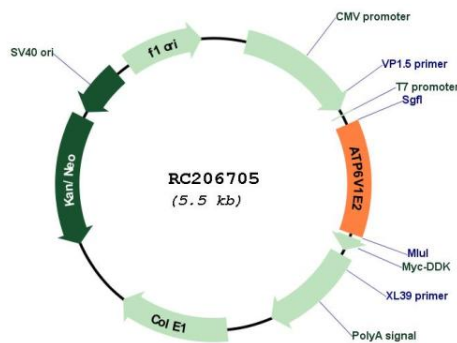
Cytogenetics: 2p16-p12

Protein Pathways: Epithelial cell signaling in Helicobacter pylori infection, Metabolic pathways, Oxidative phosphorylation, Vibrio cholerae infection

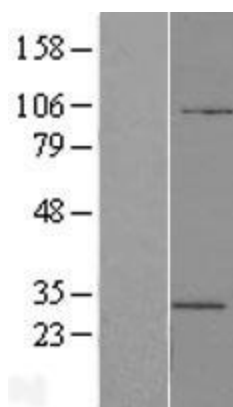
MW: 26.1 kDa

Gene Summary: Subunit of the peripheral V1 complex of vacuolar ATPase essential for assembly or catalytic function. V-ATPase is responsible for acidifying a variety of intracellular compartments in eukaryotic cells. This isoform is essential for energy coupling involved in acidification of acrosome (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC206705



Western blot validation of overexpression lysate (Cat# [LY409123]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206705 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).