

Product datasheet for **RG206705**

ATP6V1E2 (NM_080653) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: ATP6V1E2 (NM_080653) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: ATP6V1E2
Synonyms: ATP6E1; ATP6EL2; ATP6V1EL2; VMA4
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG206705 representing NM_080653
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCCTGAGTGATGTCGATGTGAAAAAGCAGATTAAGCACATGATGGCTTTCATTGAGCAGGAAGCCA
 ATGAGAAAGCAGAGGAAATCGATGCCAAGGCTGAGGAAGAGTTTAAACATTGAGAAAGGACGCCTCGTGCA
 AACCCAACGACTGAAGATTATGGAGTATTATGAGAAAAAGGAGAAGCAGATAGAGCAGCAGAAGAAAATC
 CTGATGTCCACCATGAGGAATCAGGCGAGGCTGAAAGTCCTGAGAGCCCGAAATGACCTCATCTCAGATT
 TGCTCAGTGAGGCGAAGCTGAGACTCAGCAGGATTGTGGAGGACCCAGAGGTCTACCAGGGGCTGCTGGA
 TAAACTGGTGCTCCAGGGTCTGCTCCGACTGCTGGAACCTGTGATGATTGTACGCTGCCGCCACAAGAC
 CTCTCTCTGGTGGAGGCTGCTGTACAAAAAGCCATCCCCGAGTACATGACAATTTCCAGAAACATGTGG
 AGGTCCAGATTGATAAAGAGGCATACCTGGCTGTGAATGCAGCTGGAGGTGTGGAGGTCTACAGTGGCAA
 TCAGAGAATAAAGGTTTCAAATACCTTGAAAGCCGACTGGATCTCTCAGCCAAGCAAAGATGCCAGAA
 ATACGAATGGCCTTGTGGTGTAAACCAACAGAAAGTTCTTTATA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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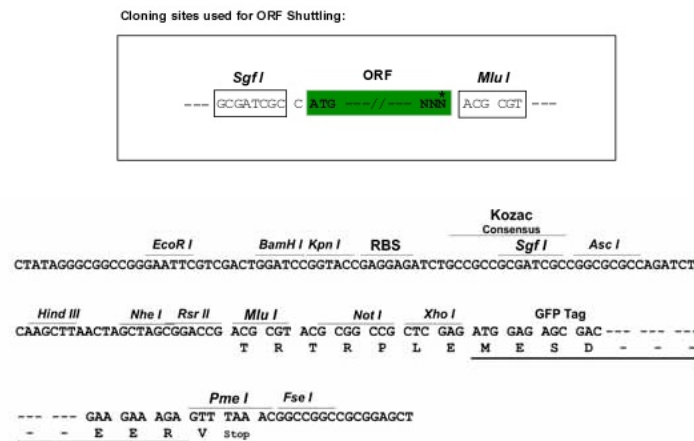
Protein Sequence: >RG206705 representing NM_080653
 Red=Cloning site Green=Tags(s)

MALSDVDVKKQIKHMMAFIEQEANEKAEIDAKAEFEFNIEKGRVLVQTQRLKIMEYYEKKEKQIEQQKKI
 LMSTMNRNARLKVLRARNDLISDLLSEAKLRLSRIVEDPEVYQGLLDKLVLQGLLRLLPEVMIVRCRPQD
 LLLVEAAVQKAIPEYMTISQKHVEVQIDKEAYLAVNAAGGVEVYSGNQRIKVSNTLESRLDL.SAKQKMP
 I.RMALFGANTNRKFFI

TRTRPLE - GFP Tag - V

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

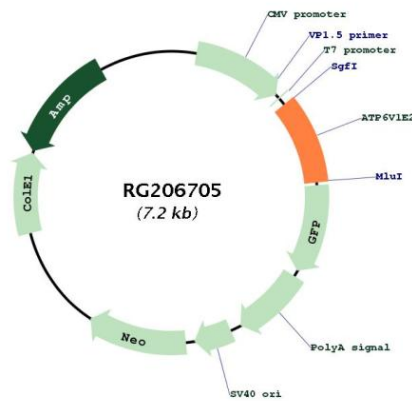
Locus ID: 90423

Cytogenetics: 2p16-p12

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

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 RG206705