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Product datasheet for RC223434

ATP6V1C2 (NM_001039362) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATP6V1C2 (NM_001039362) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ATP6V1C2
Synonyms:	ATP6C2; VMA5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>RC223434 representing NM_001039362
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCGGAGTTTTGGTTAATTTCTGCCCCTGGCGATAAGGAAAATTTGCAAGCTCTGGAGAGGATGAATA
CTGTAACCTCCAAGTCCAACCTGTCTTATAATACCAAATTCGCTATTCCTGACTTCAAGGTGGGGACCTT
GGATTCCCTGGTTGGCCTCTCTGATGAGTTGGGGAAACTCGACACCTTTGCTGAAAGCCTCATAAGGAGA
ATGGCTCAGAGCGTGGTGGAAGTCATGGAGGACTCAAAGGGGAAGGTCCAGGAGCACCTCCTGGCAAACG
GAGTTGACTTAACATCCTTTGTGACCCACTTTGAATGGGACATGGCCAAATATCCTGTCAAGCAGCCGCT
CGTGAGTGTGGTGGACACAATAGCCAAGCAACTGGCGCAGATCGAGATGGACCTGAAGTCCCGAACGGCC
GCCTACAACACTCTGAAGACAAACCTGGAGAACCTGGAAAAGAAATCCATGGGGAACCTCTTCACCCGGA
CACTGAGTGATATTGTGAGCAAAGAGGACTTCGTGCTGGATTCTGAATATCTCGTCACACTTCTGGTCAT
CGTCCCCAAACCAAACTACTCACAATGGCAAAAAACCTACGAATCTCTCTCAGACATGGTGGTCCCTCGA
TCAACCAAACTCATTACTGAGGACAAGGAAGGGGGCCTTTTCACTGTGACTCTGTTTCGAAAAGTGATTG
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TGAAAGGGAAAGGGAGGAGATGGCCAGATTGCTGTCTGATAAGAAGCAACAGTATCAAACTTCCTGTGTT
GCTCTTAAAAAGGGATCATCCACCTTCCCGGACCACAAGGTTAAGGTAACCCCGCTAGGTAACCCTGATA
GGCCTGCTGCGGGGCAGACCGACAGAGAGAGAGAGAGTGAGGGCGAGGGTGAGGGCCCCCTGCTGCGCTG
GCTCAAGGTGAACTTCAGTGAAGCCTTCATTGCCTGGATCCACATCAAGGCCCTGAGAGTGTTTGTGGAG
TCCGTGCTCAGGTATGGACTACCAGTGAACTTCCAGGCAGTGCTCCTGCAGCCGCATAAGAAGTCATCCA
CCAAGCGTTTAAGAGAGGTTCTAAACTCTGTCTTCCGACATCTGGATGAAGTAGCCGCTACAAGTATACT
GGATGCATCTGTGGAGATCCCGGGACTGCAACTCAATAACCAAGACTATTTTCCTTATGTCTACTTCCAT
ATTGACCTTAGTCTTCTTGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC223434 representing NM_001039362
Red=Cloning site Green=Tags(s)

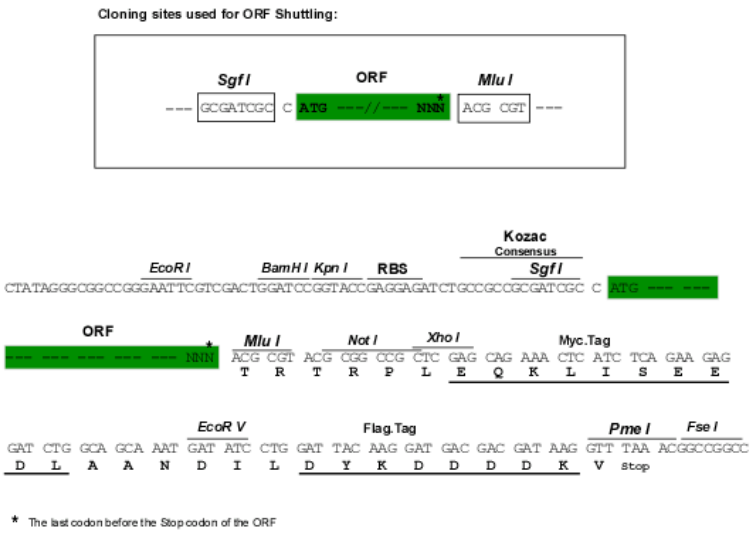
MSEFWLISAPGDKENLQALERMNTVTSKSNLSYNTKFAIPDFKVGTLDSLVGLSDELGKLDTFAESLIRR
MAQSVVEVMEDSKGKVQEHLLANGVDLTSFVTHFEWDMAKYPVKQPLVSVVDTIAKQLAQIEMDLKSRTA
AYNTLKTNLENLEKKSMGNLFTRTLSDIVSKEDFVLDSEYLVTLLVIVPKPNYSQWQKTYESLSDMVVPR
STKLITEDKEGGLFTVTLFRKVIEDFKTKAKENKFTVREFYYDEKEIERENEEMARLLSDKKQQYQTSCV
ALKKGSSTFPDHKVKVTPLGNPDRPAAGQTDRERESEGEGEGPLLRWLKVNFSEAFIAWIHIKALRVFVE
SVLRYGLPVNFQAVLLQPHKKSSTKRLREVLNSVFRHLDEVAATSILDASVEIPGLQLNNQDYFPYVYFH
IDLSLLD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8059_b06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001039362

ORF Size: 1281 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_001039362.2

RefSeq Size: 3250 bp

RefSeq ORF: 1284 bp

Locus ID: 245973

UniProt ID: Q8NEY4

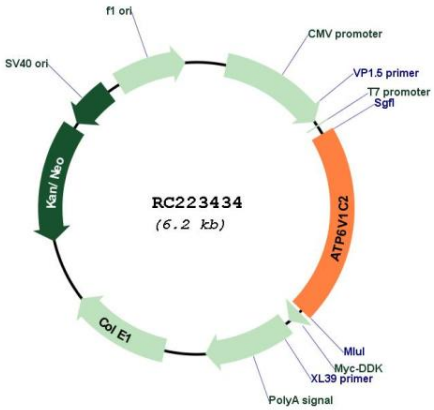
Cytogenetics: 2p25.1

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

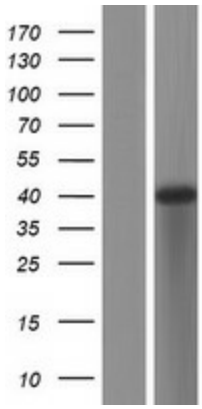
MW: 48.6 kDa

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 C subunit isoforms. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC223434



Western blot validation of overexpression lysate (Cat# [LY422037]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC223434 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).