

Product datasheet for **RC203652**

ATP6V0C (NM_001694) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: ATP6V0C (NM_001694) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: ATP6V0C
Synonyms: ATP6C; ATP6L; ATPL; VATL; Vma3; VPPC
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC203652 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGAGTCCAAGAGCGGCCCGAGTATGCTTCGTTTTTCGCCGTCATGGGCGCCTCGGCCGCCATGG
TCTTCAGCGCCCTGGGCGCTGCCTATGGCACAGCCAAGAGCGGTACCGGCATTGCGGCCATGTCTGTCAT
GCGGCCGAGCAGATCATGAAGTCCATCATCCCAGTGGTCATGGTGGCATCATCGCCATCTACGGCCTG
GTGGTGGCAGTCCATCGCCAACCTCCTGAATGACGACATCAGCCTCTACAAGAGCTTCTCCAGCTGG
GCGCCGGCCTGAGCGTGGCCTGAGCGCCTGGCAGCCGGCTTTGCCATCGGCATCGTGGGGACGCTGG
CGTGCGGGGACCGCCAGCAGCCCGACTATTGTTGGGATGATCCTGATTCTCATCTTCGCCGAGGTG
CTCGCCCTCTACGGTCTCATCGTCGCCCTCATCTCTCCACAAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC203652 protein sequence
Red=Cloning site Green=Tags(s)
MSEKSGPEYASFFAVMGASAAMVFSALGAAYGTAKSGTGIAAMSVRPEQIMKSIIPVVMAGIIAIYGL
VVAVLIANSLNDDISLYKSFLQLGAGLSVGLSGLAAGFAIGIVGDAGVRGTAQQPRLFVGMILILIFAEV
LGLYGLIVALILSTK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6057_c08.zip



[View online »](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001694

ORF Size: 465 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.

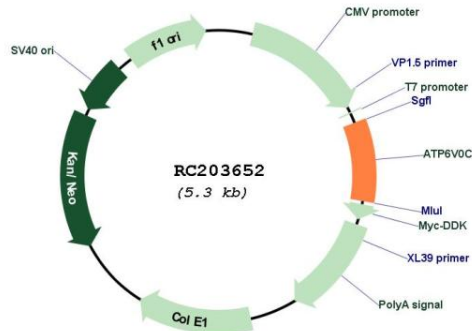
RefSeq: [NM_001694.4](#)

RefSeq Size: 1180 bp

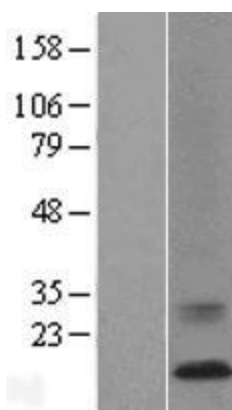
RefSeq ORF: 468 bp

Locus ID:	527
UniProt ID:	P27449
Cytogenetics:	16p13.3
Domains:	ATP-synt_C
Protein Families:	Transmembrane
Protein Pathways:	Epithelial cell signaling in Helicobacter pylori infection, Lysosome, Metabolic pathways, Oxidative phosphorylation, Vibrio cholerae infection
MW:	15.7 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 and three B subunits, two G subunits plus the C, D, E, F, and H subunits. The V1 domain contains the ATP catalytic site. The V0 domain consists of five different subunits: a, c, c', c", and d. This gene encodes the V0 subunit c. Alternative splicing results in transcript variants. Pseudogenes have been identified on chromosomes 6 and 17. [provided by RefSeq, Nov 2010]

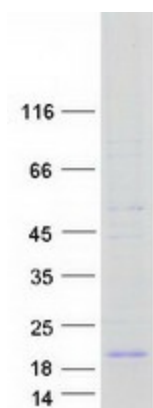
Product images:



Circular map for RC203652



Western blot validation of overexpression lysate (Cat# [LY419794]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203652 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ATP6V0C protein (Cat# [TP303652]). The protein was produced from HEK293T cells transfected with ATP6V0C cDNA clone (Cat# RC203652) using MegaTran 2.0 (Cat# [TT210002]).