

Product datasheet for **RC237004**

ATP6V0B (NM_001294333) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: ATP6V0B (NM_001294333) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: ATP6V0B
Synonyms: ATP6F; HATPL; VMA16
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC237004 representing NM_001294333
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACGGGGCTAGCACTGCTCTACTCCGGGTCTTCGTGGCCTTCTGGCCTGCGCGCTGGCCGTGGGAG
TCTGCTACACCATTTTTGATTTGGGCTTCCGCTTTGATGTGGCATGGTTCCTGACGGAGACTTCGCCCTT
CATGTGGTCCAACCTGGGCATTGGCCTAGCTATCTCCCTGTCTGTGGTTGGGCAGCCTGGGCATCTAT
ATTACCGCTCCTCCATCATTGGTGGAGGAGTGAAGGCCCCAGGATCAAGACCAAGAACCTGGTCAGCA
TCATCTTCTGTGAGGCTGTGGCCATCTACGGCATCATCATGGCAATTGTCATTAGCAACATGGCTGAGCC
TTTCAGTGCCACAGACCCCAAGGCCATCGGCCATCGGAACTACCATGCAGGCTACTCCATGTTTTGGGGCT
GGCCTCACCGTAGGCCTGTAACTCTTCTGTGGAGTCTGCGTGGGCATCGTGGGCAGTGGGGCTGCC
TGGCCGATGCTCAGAACCCAGCCTCTTTGTAAGATTCTCATCGTGGAGATCTTTGGCAGCGCCATTGG
CCTCTTTGGGGTCATCGTCGCAATTCTCAGGTGATGAATCCCCTTGGGAAGCCTCTGTGCCTTGTCCC
CAACCTAGCCTTACCCTCCTTCTGGAGAAGCTGAAGTGCCTCCTTCTCTACCTATAACTATAGATTCCC
CCAAACAGCTTCCACCTCCTCATTCCATCTTCTGGTTTTCTCCTACAGGGGCTCTATTTTTGTCTCT
GATTTGGTGTCAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC237004 representing NM_001294333
 Red=Cloning site Green=Tags(s)

MTGLALLYSGVFVAFWACALAVGVCYTIIFDLGFRFDVAWFLTETSPFMWSNLGIGLAISLSVVGAAWGIY
 ITGSSIIGGGVKAPRIKTKNLVSIIFCEAVAIYGIIMAVISNMAEPFSATDPKAI GHRNYHAGYSMFGA
 GLTVGLSNLFCGVCVGI VGSAAALADAQNPSL FVKILIVEIFGSAITGLFGVIVAILQVMNPLGKPLCPCP
 QPSLTLLLEKLCSPSLPITIDSPKQLPPPHFLLLVFSYRGSFLSLIWCH

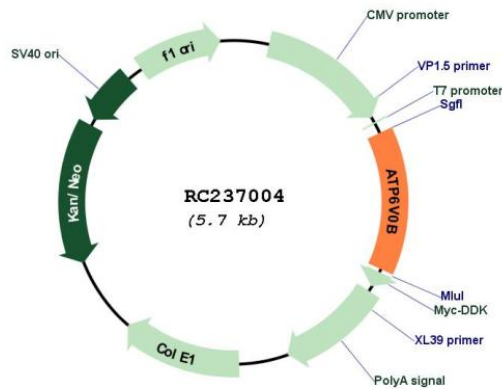
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001294333
ORF Size: 783 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:	<ol style="list-style-type: none">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_001294333.2
RefSeq Size:	2068 bp
RefSeq ORF:	786 bp
Locus ID:	533
Cytogenetics:	1p34.1
Protein Families:	Transmembrane
Protein Pathways:	Epithelial cell signaling in Helicobacter pylori infection, Lysosome, Metabolic pathways, Oxidative phosphorylation, Vibrio cholerae infection
MW:	28.1 kDa
Gene Summary:	This gene encodes a portion of the V0 domain of vacuolar ATPase (V-ATPase), a multisubunit enzyme that mediates acidification of eukaryotic intracellular organelles. Activity of this enzyme is necessary for such varied processes as protein sorting, zymogen activation, receptor-mediated endocytosis, and synaptic vesicle proton gradient generation. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jun 2014]