

Product datasheet for **RG221823**

ATP6V0B (NM_004047) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: ATP6V0B (NM_004047) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: ATP6V0B
Synonyms: ATP6F; HATPL; VMA16
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG221823 representing NM_004047
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACGGGGCTAGCACTGCTCTACTCCGGGTCTTCGTGGCCTTCTGGCCTGCGCCTGGCCGTGGGAG
TCTGCTACACCATTTTTGATTTGGGCTTCCGCTTTGATGTGGCATGGTTCCTGACGGAGACTTCGCCCTT
CATGTGGTCCAACCTGGCATTGGCCTAGCTATCTCCCTGTCTGTGGTTGGGCAGCCTGGGCATCTAT
ATTACCGCTCTCCATCATTGGTGGAGGAGTGAAGGCCCCAGGATCAAGACCAAGAACCTGGTCAGCA
TCATCTTCTGTGAGGCTGTGGCCATCTACGGCATCATCATGGCAATTGTCATTAGCAACATGGCTGAGCC
TTTCAGTGCCACAGACCCCAAGGCCATCGGCCATCGGAACTACCATGCAGGCTACTCCATGTTTGGGGCT
GGCCTCACCGTAGGCCTGTAACTCTTCTGTGGAGTCTGCGTGGGCATCGTGGCAGTGGGGCTGCC
TGGCCGATGCTCAGAACCCAGCCTCTTTGAAAGATTCTCATCGTGGAGATCTTTGGCAGCGCCATTGG
CCTCTTTGGGTTCATCGTCAATTCTTTCAGACCTCCAGAGTGAAGATGGGTGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG221823 representing NM_004047
 Red=Cloning site Green=Tags(s)

MTGLALLYSGVFVAFWACALAVGVCYITFDLGRFRDVAWFLTETSPFMWSNLGIGLAISLSVVGAAWGIY
ITGSSIIIGGVKAPRIKTKNLVSIIFCEAVAIYGIIMAIIVISNMAEPFSATDPKAIHRNYHAGYSMFGA
GLTVGLSNLFCGVVGVIGSAAALADAQNPSLFLVKILIVEIFGSAIGLFGVIVAILQTSRVKMGD

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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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_004047.5](#)

RefSeq Size: 1028 bp

RefSeq ORF: 618 bp

Locus ID: 533

UniProt ID: [Q99437](#)

Cytogenetics: 1p34.1

Domains: ATP-synt_C

Protein Families: Transmembrane

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

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]