

Product datasheet for **RG237004**

ATP6V0B (NM_001294333) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATP6V0B (NM_001294333) 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:	>RG237004 representing NM_001294333. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTGTAAATACGACTCACTATAGGGCGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGACGGGGCTAGCACTGCTCTACTCCGGGGTCTTCGTGGCCTTCTGGCCTGCGCGCTGGCCGTGGGA
GTCTGCTACACCATTTTTGATTTGGGCTTCCGCTTTGATGTGGCATGGTTCCTGACGGAGACTTCGCC
TTCATGTGGTCCAACCTGGCATTGGCCTAGCTATCTCCCTGTCTGTGGTTGGGGCAGCCTGGGGCATC
TATATTACCGGCTCCTCCATCATTGGTGGAGGAGTGAAGCCCCAGGATCAAGACCAAGAACCTGGTC
AGCATCATCTTCTGTGAGGCTGTGGCCATCTACGGCATCATCATGGCAATTGTCATTAGCAACATGGCT
GAGCCTTTTCAGTGCCACAGACCCCAAGGCCATCGGCCATCGGAACTACCATGCAGGCTACTCCATGTTT
GGGGCTGGCCTACCGTAGGCCTGTCTAACCTCTTCTGTGGAGTCTGCGTGGGCATCGTGGGCAGTGGG
GCTGCCCTGGCCGATGCTCAGAACCCAGCCTCTTTGTAAGATTCTCATCGTGGAGATCTTTGGCAGC
GCCATTGGCCTCTTTGGGGTTCATCGTCGCAATTCTTCAGGTGATGAATCCCTTGGGAAGCCTCTGTGT
CCTTGTCCCAACCTAGCCTTACCCTCCTTCTGGAGAAGCTGAAGTGCTCTCCTTCTACCTATAACT
ATAGATCCCCCAACAGCTTCCACCTCCTCATTTCATCTTCTGGTTTTCTCTACAGGGGCTCTCTA
TTTTTGTCTCTGATTTGGTGTAC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG237004
 Blue=ORF Red=Cloning site Green=Tag(s)

MTGLALLYSGVFVAFWACALAVGVCYTI¹FDLGRFRDVAWFLTETSPFMWSNLGIGLAISLSVVGAAWGI
 YITGSSII²GGGVKAPRIKTKNLVSIIFCEAVAIYGI³IMAIVISNMAEPFSATDPKAI⁴GHRNYHAGYSMF
 GAGLTVGLSNLFCGVCVIGVSGAALADAQNPSL⁵FKILIVEIFGSAIGLFGVIVAILQVMNPLGKPLC
 PCPQPSLTLLEKLCSPSLPITIDSPKQLPPPHFLLVF⁶SYRGSFLSLIWCH
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
 MGYGFYHFGTYP⁷SGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRS⁸NATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD⁹SHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



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).

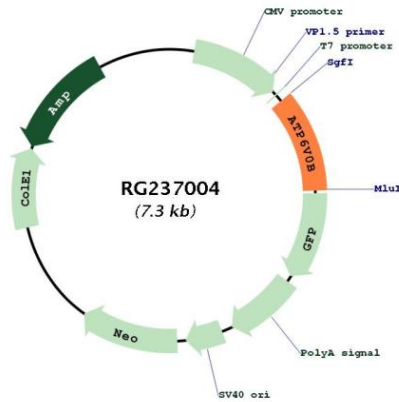
RefSeq: [NM_001294333.2](#)

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]

Product images:



Circular map for RG237004