

Product datasheet for **RC200394**

ATP6AP1 (NM_001183) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATP6AP1 (NM_001183) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ATP6AP1
Synonyms:	16A; Ac45; ATP6IP1; ATP6S1; CF2; VATPS1; XAP-3; XAP3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC200394 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGATGGCGGCCATGGCGACGGCTCGAGTGC GGATGGGGCCGCGGTGCGCCAGGCGCTCTGGCGCATGC
 CGTGGCTGCCGGTGT TTTTGTCTTGGCGCGCGCGCGCGCGCAGCGCGGAGCAGCAGGTCCCGCT
 GGTGCTGTGGTCGAGTGACCGGGACTTGTGGGCTCCTGCGGCCGACACTCATGAAGGCCACATCACCAGC
 GACTTGCAGCTCTCTACCTACTTAGATCCCGCCCTGGAGCTGGTCCCAGGAATGTGCTGCTGTTCTCTGC
 AGGACAAGCTGAGCATTGAGGATTTACAGCATATGGCGGTGTGTTGGAAACAAGCAGGACAGCGCCTT
 TTCTAACCTAGAGAATGCCCTGGACCTGGCCCCCTCTCACTGGTGTCTCTGCCGTCGACTGGTATGCA
 GTCAGCACTCTGACCACTACCTGCAGGAGAAGCTCGGGGCCAGCCCCTTGCATGTGGACCTGGCCACCC
 TCGGGGAGCTGAAGCTCAATGCCAGCCTCCCTGCTCTGCTGCTCATTGCTGCTGCCCTACACAGCCAGCTC
 TGGTCTGATGGCAGCCAGGGAAGTCTCACAGGAACGATGAGGTCATCGGGCAGGTCTGAGCACACTC
 AAGTCCGAAGATGTCCATACACAGCGGCCCTCACAGCGTCCGCCCTTCCAGGGTGGCCCGTGATGTAG
 CCGTGGTGGCCGAGGGCTAGGTCGCCAGCTGCTACAAAAACAGCCAGTATCACCTGTGATCCATCCTCC
 TGTGAGTTACAATGACACCGCTCCCGGATCCTGTTCTGGGCCAAAACCTCTCTGTGGCGTACAAGGAC
 CAGTGGGAGGACCTGACTCCCCTCACCTTTGGGTGCAGGAACCTCAACCTGACTGGCTCCTTCTGGAATG
 ACTCCTTTGCCAGGCTCTCACTGACCTATGAACGACTCTTTGGTACCACAGTGACATTCAAGTTCATTCT
 GGCAACCGCCTTACCCAGTGTCTGCCCGCACTGGTTTACCATGGAGCGCCTCGAAGTCCACAGCAAT
 GGCTCCGTGCGCTACTTCAATGCTTCCCAGTACAGGGCCAGCATCTACTCCTCCACTGCGAGTATG
 TCAGCAGCTGAGCAAGAAGGGTAGTCTCCTCGTGGCCGACGACGCCCTCTCCCTGGCAGATGATGCT
 TCAGGACTTCCAGATCCAGGCTTTCAACGTAATGGGGGAGCAGTTCTCCTACGCCAGCGACTGTGCCAGC
 TTCTTCTCCCCGGCATCTGGATGGGGCTGCTCACCTCCCTGTTGATGCTCTTACCTTACCTATGGCC
 TGCACATGATCCTCAGCCTCAAGACCATGGATCGCTTTGATGACCACAAGGGCCCCACTATTTCTTTGAC
 CCAGATTGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC200394 protein sequence
 Red=Cloning site Green=Tags(s)

MMAAMATARVRMGPRCAQALWRMPWLPVFLSLAAAAAAAAAEQQVPLVLWSSDRDLWAPADTHEGHITS
 DLQLSTYLDPALEL GPRNVLLFLQDKLSIEDFTAYGGVFGNKQDSAFSNLENALDLPSSLVLPVDWYA
 VSTLTTYLQEKLGASPLHVDLATLRELKLNASLPALLLIRLPYTASSGLMAPREVL TNDEVIQVLSL
 KSEDVPYTAALTAVRPSRVARDVAVVAGGLGRQLLQKQPVSPVIHPPVSYNDTAPRILFWAQNFVAYKD
 QWEDLTPLTFGVQELNL TGSFWNDSFARLSLTYERLFGTTVTFKILANRLYPVSARHWFMERLEVHNS
 GSVAYFNASQVTGPSIYSFHCEYVSSLSKKGSLLVARTQPSPWQMLQDFQIQAFNVMGEQFSYASDCAS
 FSPGIWMGLLTSLFMLFIFTYGLHMILSLKTMDFDDHKGPTISLTQIV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6150_c01.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001183

ORF Size: 1410 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_001183.6](#)

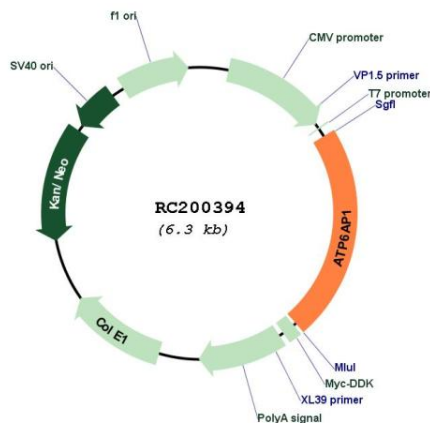
RefSeq Size: 2100 bp

RefSeq ORF: 1413 bp

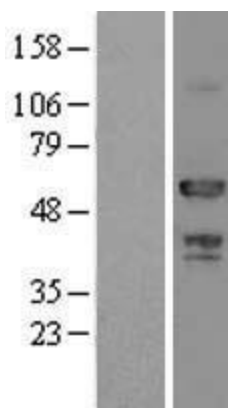
Locus ID: 537

UniProt ID: [Q15904](#)
Cytogenetics: Xq28
Protein Families: Transmembrane
Protein Pathways: Epithelial cell signaling in Helicobacter pylori infection, Lysosome, Metabolic pathways, Oxidative phosphorylation, Vibrio cholerae infection
MW: 52 kDa
Gene Summary: This gene encodes a component of a multisubunit enzyme that mediates acidification of eukaryotic intracellular organelles. Vacuolar ATPase (V-ATPase) is comprised of a cytosolic V1 (site of the ATP catalytic site) and a transmembrane V0 domain. V-ATPase dependent organelle acidification is necessary for such intracellular processes as protein sorting, zymogen activation, and receptor-mediated endocytosis. The encoded protein of this gene may assist in the V-ATPase-mediated acidification of neuroendocrine secretory granules. This protein may also play a role in early development. [provided by RefSeq, Aug 2013]

Product images:



Circular map for RC200394



Western blot validation of overexpression lysate (Cat# [LY400473]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200394 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).