

## Product datasheet for **RG200394**

### **ATP6AP1 (NM\_001183) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	ATP6AP1 (NM_001183) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ATP6AP1
Synonyms:	16A; Ac45; ATP6IP1; ATP6S1; CF2; VATPS1; XAP-3; XAP3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG200394 representing NM\_001183  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGATGGCGGCCATGGCGACGGCTCGAGTGC GGATGGGGCCGGTGC GCCCAGGCGCTCTGGCGCATGC  
 CGTGGCTGCCGGTGT TTTTGTCTTGGCGCGGGCGGGCGGCAGCGCGGAGCAGCAGGTCCCGCT  
 GGTGCTGTGGTCGAGTGACCGGGACTTGTGGGCTCCTGCGGCCGACACTCATGAAGGCCACATCACCAGC  
 GACTTGCAGCTCTCTACCTACTTAGATCCCGCCCTGGAGCTGGTCCCAGGAATGTGCTGCTGTTCTCTGC  
 AGGACAAGCTGAGCATTGAGGATTTACAGCATATGGCGGTGTGTTTGGAAACAAGCAGGACAGCGCCTT  
 TTCTAACCTAGAGAATGCCCTGGACCTGGCCCCCTCTCACTGGTGTCTCTGCCGTCGACTGGTATGCA  
 GTCAGCACTCTGACCACTACCTGCAGGAGAAGCTCGGGGCCAGCCCCTTGCATGTGGACCTGGCCACCC  
 TCGGGGAGCTGAAGCTCAATGCCAGCCTCCCTGCTCTGCTGCTCATTGCCTGCCCTACACAGCCAGCTC  
 TGGTCTGATGGCAGCCAGGAAGTCTCACAGGAACGATGAGGTCATCGGGCAGGTCCTGAGCACACTC  
 AAGTCCGAAGATGTCCATACACAGCGGCCCTCACAGCGTCCGCCCTCCAGGGTGGCCCGTATGTAG  
 CCGTGGTGGCCGGAGGGCTAGGTCGCCAGCTGCTACAAAAACAGCCAGTATCACCTGTGATCCATCCTCC  
 TGTGAGTTACAATGACACCGCTCCCGGATCCTGTTCTGGGCCAAAACCTCTCTGTGGCGTACAAGGAC  
 CAGTGGGAGGACCTGACTCCCCTCACCTTTGGGTGCAGGAACCTCAACCTGACTGGCTCCTTCTGGAATG  
 ACTCCTTTGCCAGGCTCTCACTGACCTATGAACGACTCTTTGGTACCACAGTGACATTCAAGTTCATTCT  
 GGCCAACCGCCTTACCCAGTGTCTGCCCGCACTGGTTTACCATGGAGCGCCTCGAAGTCCACAGCAAT  
 GGCTCCGTGCGCTACTTCAATGCTTCCCAGGTACAGGGCCAGCATCTACTCCTCCACTGCGAGTATG  
 TCAGCACTGAGCAAGAAGGGTAGTCTCCTCGTGGCCCGCAGCAGCCCTCTCCCTGGCAGATGATGC  
 TCAGGACTTCCAGATCCAGGCTTCAACGTAATGGGGGAGCAGTTCTCCTACGCCAGCGACTGTGCCAGC  
 TTCTTCTCCCCCGCATCTGGATGGGGCTGCTCACCTCCCTGTTTCATGCTCTTACCTTACCTATGGCC  
 TGCACATGATCCTCAGCCTCAAGACCATGGATCGCTTTGATGACCACAAGGGCCCCACTATTTCTTTGAC  
 CCAGATTGTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG200394 representing NM\_001183  
 Red=Cloning site Green=Tags(s)

MMAAMATARVRMGPRCAQALWRMPWLPVFLSLAAAAAAAAAEQQVPLVLWSSDRDLWAPAADTHEGHITS  
 DLQLSTYLDPALEL GPRNVLLFLQDKLSIEDFTAYGGVFGNKQDSAFSNLENALDLPSSLVLPVADWYA  
 VSTLTTYLQEKLGASPLHVDLTLRELKLNASLPALLLIRLPYTASSGLMAPREVL TNDEVIQVLSL  
 KSEDPVPTAALTAVRPSRVARDVAVVAGGLGRQLLQKQVSPVIHPPVSYNDTAPRILFWAQNFSVAYKD  
 QWEDLTPLTFGVQELNL TGSFWNDSFARLSLTYERLFGTTVTFKFILANRLYPVSARHWF TMRLEVHSN  
 GSVAYFNASQVTGPSIYSFHCEYVSSLSKKGSLLVARTQPSPWQMLQDFQIQAFNVMGEQFSYASDCAS  
 FFSPGIWMGLLTSLFMLFIFTYGLHMILSLKTMDFDDHKGPTISLTQIV

**TR**TRPLE - GFP Tag - V

**Restriction Sites:**

Sgfl-Mlul

**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.

**RefSeq:** [NM\\_001183.6](#)

**RefSeq Size:** 2055 bp

**RefSeq ORF:** 1413 bp

**Locus ID:** 537

**UniProt ID:** [Q15904](#)

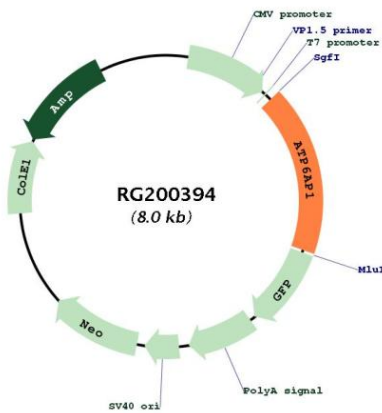
**Cytogenetics:** Xq28

**Protein Families:** Transmembrane

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

**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 RG200394