

## Product datasheet for **MR207392**

### **Atp6ap1 (NM\_018794) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Atp6ap1 (NM_018794) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Atp6ap1
Synonyms:	16A; AC45; AI316502; Atp6ip1; Atp6s1; AW108110; C7-1; CF2; mFLJ00383; VATPS1; XAP-3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR207392 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGATGGCGGCAACAGTGGTATCTCGGATACGGACGGGGACAGGGCGGGTCCAGTCATGTGGCTGTCTC  
 TGTGCGTTGGTGGCAGTGGCAGCAGCAGTGGCCACGGAGCAGCAGGTGCCACTGGTACTGTGGTGGTGA  
 CCGGAATCTGTGGGCTCCTGTGGCCGACACACATGAGGGTCATATCACCAGCGATATGCAGCTTTCTACC  
 TACTTAGACCCTGCCCTGGAGCTGGGTCCCGTAATGACTGCTGTTCTACAGGACAAGCTAAGCATTG  
 AGGATTTACAGCATACGGTGGTGTGTTGGAAATAAGCAGGACAGTGCCTTTTCTAACCTGGAGAATGC  
 CCTGGACTTGGCCCCCTCTCACTGGTGTCTCTGCTGTGGACTGGTATGCAATCAGCACTCTGACCACC  
 TACCTACAGGAGAAGCTTGGGGCTAGCCCCTTGCATGTGGATCTAGCTACCTAAAGGAGCTGAAGCTCA  
 ATGCCAGCCTTCTGCCCTGCTGCTCATCCGTCTGCCCTACACAGCCAGCTCCGGTCTGATGGCGCCAG  
 GGAGGTCTCACAGGTAACGATGAGGTATCGGACAGGTAAGTACTGAGCACACTCAAGTCTGAAGATGTCCT  
 TACACCGCAGCTCTACTGCAGTCCGCCCTTCTAGAGTGGCCCGTGATATAACCATGGTGGCTGGGGGTC  
 TAGGTGCGCAGCTGCTTCAGACTCAGGTGGCATCTCTGCGATCCATCCTCTGTGAGTTACAATGACAC  
 TGCCCCAAGGATCCTGTTTTGGGCACAAAATTCTCTGTGGCATACAAAGACGAGTGGAAAGACTTGACC  
 TCCCTCACCTTTGGTGTGGAGAACTTAACTTGACCGGCTCCTTCTGGAATGACTCCTTTGCCATGCTTT  
 CACTGACCTATGAGCCACTCTTTGGTGAACAGTGACATTCAGTTCAAGTTCATTCTGGCTAGTCGCTTCTATCC  
 AGTGTCTGCCGATATTGGTTGGCATGGAACGACTTGAATCCACAGCAATGGCTCTGTTGCCATTTC  
 AATGTTTCCCAAGTACAGGACCTAGCATCTATTCTTCCACTGTGAGTACGTACGACAGTGTGAGCAAGA  
 AAGGCAATCTCCTTGTGACCAACGTGCCCTCAGTCTGGCAGATGACTCTTCATAACTTCCAGATCCAGGC  
 CTTC AATGTGACTGGTGAACAGTCTCCTATGCTAGCGACTGTGCTGGTTTCTTCTCTCCGGCATCTGG  
 ATGGGTCTGCTCACCACCTCTTCATGCTTTTCATATTACCTATGGTCTGCACATGATACTCAGCCTAA  
 AGACCATGGATCGCTTTGATGACCACAAGGGCCCCACCATCACTTTGACCCAGATTGTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR207392 protein sequence  
 Red=Cloning site Green=Tags(s)

MMAATVVSRI RTGTGRAPVMWLSLSLVAVAAVATEQQVPLVLWSSDRNLWAPVADTHEGHITSDMQLST  
 YLDPALEL GPRNVLLFLQDKLSIEDFTAYGGVFGNKQDSAFS NLENALDLAPSSLVLPVADWYAI STLTT  
 YLQEKLGASPLHVDL ATLKELKLNASLPALLL IRLPYTASSGLMAPREVL TGNDEVIGQVLSTLKS EDVP  
 YTAALTA VRPSRVARDITMVAGGLGRQLLQTQVASPAIHPPVSYNDT APRILFWAQNF SVAYKDEWKDLT  
 SLTFGVENLNL TGSFWNDSFAMLSLTYEPLFGATVTFKF ILASRFYPVSARYWFAMERLEIHSNGSVAHF  
 NVSQVTGPSIYSFHCEYVSSVSKGNLLVTNVP SVWQMTLHNFQIQAFNVTGEQFSYASDCAGFFSPGIW  
 MGLLTTLFMLFIFTYGLHMILSLKTMDRFDDHKGPTITLTQIV

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_018794

**ORF Size:** 1392 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\\_018794.4](#), [NP\\_061264.1](#)

**RefSeq Size:** 2189 bp

**RefSeq ORF:** 1392 bp

**Locus ID:** 54411

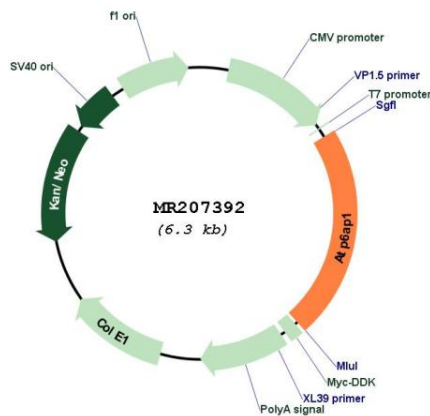
**UniProt ID:** [Q9R1Q9](#)

**Cytogenetics:** X 37.96 cM

**MW:** 51 kDa

**Gene Summary:** Accessory subunit of the proton-transporting vacuolar (V)-ATPase protein pump, which is required for luminal acidification of secretory vesicles. Guides the V-type ATPase into specialized subcellular compartments, such as neuroendocrine regulated secretory vesicles or the ruffled border of the osteoclast, thereby regulating its activity. Involved in membrane trafficking and Ca(2+)-dependent membrane fusion. May play a role in the assembly of the V-type ATPase complex. In aerobic conditions, involved in intracellular iron homeostasis, thus triggering the activity of Fe(2+) prolyl hydroxylase (PHD) enzymes, and leading to HIF1A hydroxylation and subsequent proteasomal degradation (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR207392