

Product datasheet for **MG207392**

Atp6ap1 (BC048241) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atp6ap1 (BC048241) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Atp6ap1
Synonyms:	C7-1, 16A, CF2, ORF, AC45, XAP-3, VATPS1, mFLJ00383
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207392 representing BC048241
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGATGGCGGCAACAGTGGTATCTCGGATACGGACGGGGACAGGGCGGGTCCAGTCATGTGGCTGTCTC
 TGTGCGTTGGTGGCAGTGGCAGCAGCAGTGGCCACGGAGCAGCAGGTGCCACTGGTACTGTGGTTCGAGTGA
 CCGGAATCTGTGGGCTCCTGTGGCCGACACACATGAGGGTCATATCACCAGCGATATGCAGCTTTCTACC
 TACTTAGACCCTGCCCTGGAGCTGGGTCCCGTAATGACTGCTGTTCTACAGGACAAGCTAAGCATTG
 AGGATTTACAGCATACGGTGGTGTGTTTGAAAATAAGCAGGACAGTGCCTTTTCTAACCTGGAGAATGC
 CCTGGACTTGGCCCCCTCCTCACTGGTCTTCTGCTGTGGACTGGTATGCAATCAGCACTCTGACCACC
 TACCTACAGGAGAAGCTTGGGGCTAGCCCCTTGCATGTGGATCTAGCTACCTAAAGGAGCTGAAGCTCA
 ATGCCAGCCTTCTGCCCTGCTGCTCATCCGTCTGCCCTACACAGCCAGCTCCGGTCTGATGGCGCCAG
 GGAGTCTCACAGGTAACGATGAGGTATCGGACAGGACTGAGCACACTCAAGTCTGAAGATGTCCCT
 TACACCGCAGCTTACTGCAGTCCGCCCTTCTAGAGTGGCCCGTGATATAACCATGGTGGCTGGGGGTC
 TAGGTCCGACAGTCTTACAGACTCAGGTGGCATCTCCTGCGATCCATCCTCCTGTGAGTTACAATGACAC
 TGCCCCAAGGATCCTGTTTTGGGCACAAAATTCTCTGTGGCATACAAAGACGAGTGGAAAGACTTGACC
 TCCCTCACCTTTGGTGTGGAGAACTTAACTTGACCGGCTCCTTCTGGAATGACTCCTTTGCCATGCTTT
 CACTGACCTATGAGCCACTCTTTGGTGCACAGTGACATTAAGTTCAATCTGGCTAGTCGCTTCTATCC
 AGTGTCTGCCGATATTGGTTGGCATGGAACGACTTGAATCCACAGCAATGGCTCTGTTGCCATTTC
 AATGTTTCCCAAGTACAGGACCTAGCATCTATTCTTCCACTGTGAGTACGTACGACAGTGTGAGCAAGA
 AAGGCAATCTCCTGTGACCAACGTGCCCTCAGTCTGGCAGATGACTCTCATAACTCCAGATCCAGGC
 CTCAATGTGACTGGTGAACAGTTCTCCTATGCTAGCGACTGTGCTGTTTTCTTCTCCGGGCATCTGG
 ATGGGTCTGCTCACCACCTCTTCATGTTTTCATATTACCTATGGTCTGCACATGATACTCAGCCTAA
 AGACCATGGATCGCTTTGATGACCACAAGGGCCCCACCATCACTTTGACCCAGATTGTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG207392 representing BC048241
 Red=Cloning site Green=Tags(s)

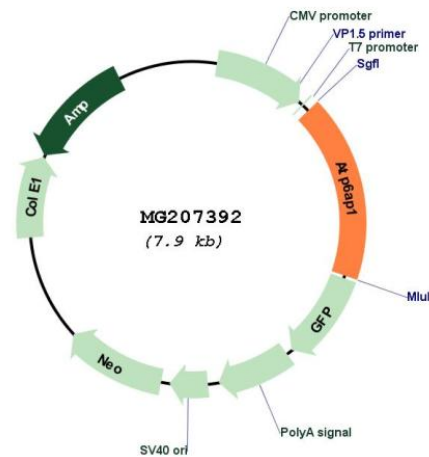
MMAATVVSRI RTGTGRAPVMWLSLSLVAVAAVATEQQVPLVLWSSDRNLWAPVADTHEGHITSDMQLST
 YLDPALELGPRNVLLFLQDKLSIEDFTAYGGVFGNKQDSAFSNLENALDLAPSSLVLPVADWYAI STLTT
 YLQEKLGASPLHVDL ATLKELKNASLPALLL IRLPYTASSGLMAPREVL TGNDEVIQVLS TLKSEDVP
 YTAAL TAVRPSRVARDITMVAGGLGRQLLQTQVASPAIHPPVSYNDTAPRILFWAQNF SVAYKDEWKDLT
 SLTFGVENLNL TGSFWNDSFAMLSLTYEPLFGATVTFKFILASRFYPVSARYWFAMERLEIHSNGSVAHF
 NVSQVTGPSIYSFHCEYSSVSKGNLLVTNVPSVWQMTLHNFQIQAFNVTGEQFSYASDCAGFFSPGIW
 MGLLTTLFMLFIFTYGLHMILSLKTMDRFDDHKGPTITLTQIV

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Plasmid Map:


ACCN: BC048241

ORF Size: 1391 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:	<ol style="list-style-type: none">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:	<u>BC048241</u> , <u>AAH48241</u>
RefSeq Size:	2126 bp
RefSeq ORF:	1391 bp
Locus ID:	54411
Cytogenetics:	X 37.96 cM
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]