

Product datasheet for **MC205454**

Atp6ap1 (NM_018794) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atp6ap1 (NM_018794) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Atp6ap1
Synonyms:	16A; AC45; AI316502; Atp6ip1; Atp6s1; AW108110; C7-1; CF2; mFLJ00383; VATPS1; XAP-3
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC048241
 GCAGAGGCCAGGCACTCACTGAAAGCTGAGGCTATGATGGCGGCAACAGTGGTATCTCGGATACGGACG
 GGGACAGGGCGGGCTCCAGTCATGTGGCTGTCTGTGCGTTGGTGGCAGTGGCAGCAGCAGTGGCCACGG
 AGCAGCAGGTGCCACTGGTACTGTGGTCGAGTGACCGGAATCTGTGGGCTCCTGTGGCCGACACACATGA
 GGGTCATATCACCAGCGATATGCAGCTTTCTACCTACTTAGACCTGCCCTGGAGCTGGGTCCCGTAAT
 GTACTGCTGTTCCACAGACAAGCTAAGCATTGAGGATTTACAGCATAACGGTGGTGTGTTGAAATA
 AGCAGGACAGTGCCTTTTCTAACCTGGAGAATGCCCTGGACTTGGCCCCCTCCTCACTGCTTCCCTGC
 TGTGGACTGGTATGCAATCAGCACTCTGACCACCTACCTACAGGAGAAGCTTGGGGCTAGCCCTTGCA
 GTGGATCTAGCTACCTTAAGGAGCTGAAGCTCAATGCCAGCCTTCTGCCTGTGCTCATCCGCTGCTG
 CCTACACAGCCAGCTCCGGTCTGATGGCGCCAGGGAGGTCTCACAGGTAACGATGAGGTCATCGGACA
 GGTACTGAGCACACTCAAGTCTGAAGATGTCCCTTACACCGCAGCTTTACTGCAGTCCGCCCTTCTAGA
 GTGGCCCGTGATATAACCATGGTGGCTGGGGTCTAGGTCGCCAGCTGCTCAGACTCAGGTGGCATCTC
 CTGCGATCCATCCTCTGTGAGTTACAATGACTGCCCCAAGGATCCTGTTTTGGGCACAAAACCTCTC
 TGTGGCATACAAAGACGAGTGAAAGACTTGACCTCCCTCACCTTTGGTGTGAGAATCTTAACTTGACC
 GGCTCCTTCTGGAATGACTCCTTTGCCATGCTTTCACTGACCTATGAGCCACTCTTTGGTGAACAGTGA
 CATTCAAGTTCATTCTGGCTAGTCGCTTCTATCCAGTGTCTGCCGATATTGGTTTGCCATGGAACGACT
 TGAAATCCACAGCAATGGCTCTGTTGCCATTTCAATGTTTCCCAAGTCACAGGACCTAGCATCTATTCT
 TTCCACTGTGAGTACGTACGAGTGTGAGCAAGAAAGGCAATCTCCTTGTGACCAACGTGCCCTCAGTCT
 GGCAGATGACTCTTCATAACTTCCAGATCCAGGCCTTCAATGTGACTGGTGAACAGTTTCTCTATGCTAG
 CGACTGTGCTGGTTTTCTCTCCGGGCATCTGGATGGTCTGCTCACCACCTCTTCATGCTTTTCATA
 TTCACCTATGGTCTGCACATGATACTCAGCCTAAAGACCATGGATCGCTTTGATGACCACAAGGGCCCCA
 CCATCACTTTGACCCAGATTGTGTGACATACACCTGAGAGGAATTGAGGGAGTATTGGTGTCTAGGTTGT
 CATGTTTTCTGTTTTGTGACACAGTGGATGAAAGGTTTTGCCTTCTCTACTATAGCATGAACCCATCAT
 ACGCCACCCTCAGTCTCTTGTCTTCTTTAACCCGGAGAGGACTCCCTGTGGCTATCCCCCATCT
 CTACCAACAAAGTGTATTCTTCATAGATATTAGATAAATCTTCCAGGCTTCATCATCAAGAGGGGAAGG
 ACCTTAATTCTAGGGTCTCCCCTTACCCTCTCTCCTATTTATTCTTGGCCCTCTGCTATTATTCTTG
 CTGTTTATAGTGCTTTTGTAGTAAATGCTCACTCCCCAAGCTTTATGGAGCTTCCAGCAACAGCCATG
 AACTTGAGGTTCTTGAATTTGCGAGGTGTGAAAGACTACTTGACTGTCTGTCCAGCTTAGCTGTTATG
 TTTTTGGGGGGAGGGGTGATGTGTTAAGAGTGTGTTACACTGGGGTTTATTCTGTGGCTGGGAA
 GGAAGAAACCATCACGAGGATTGGTGAACAAAGTGTGCTCACTGGGTTTCTGGATTATCCCATAAAGAC
 TGCTGTCAAGAGGCCGGAGGTGTGTGGGGGTTGCTCTGTTGTTTCTTCTAATAAAATAAAGACG
 GTTGCCTGTAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_018794

Insert Size: 1392 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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: [BC048241](#), [AAH48241](#)

RefSeq Size: 2126 bp

RefSeq ORF: 1392 bp

Locus ID: 54411

UniProt ID: [Q9R1Q9](#)

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]