

Product datasheet for **MC228922**

Atp6v0a1 (NM_001243049) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atp6v0a1 (NM_001243049) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Atp6v0a1
Synonyms:	AA959968; ATP6a1; Atp6n1; Atp6n1a; Atpv0a1; Vpp-1; Vpp1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC228922 representing NM_001243049
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGATCGAAAACCTCGATTGTTGAGAAAAGATAAGGAAAGCTAACATCCCAATTATGGACACCGGTG
 AAAACCCAGAGGTGCCCTTCCCTCGGGACATGATCGACTTAGAGGCCAATTCGAGAAGATTGAAAATGA
 ACTGAAGGAAATCAACACTAACCAGGAAGCTCTGAAGAGAAACTTCTGGAAGTACTGAATTAATAATTT
 ATCCTGCGAAAAACCCAGCAGTTTTTTCGATGAGCAGATGGCGGATCCAGACCTGTTGGAAGAGTCCAT
 CACTCTTGAGGCCAAACGAGATGGGAAGAGGCGCACCTTACGACTTGGCTTTGTGGCTGGTGTATTAA
 CCGGGAGCGGATCCCGACCTTTGAGCGCATGCTTTGGCGAGTGTGCCGAGGGAATGTGTTCTGAGACAA
 GCTGAAATCGAAAACCCGCTGGAGGATCCTGTGACTGGCGACTACGTGCACAAGTCTGTGTTTCATCATT
 TTTTCAAAGCGATCAGCTGAAAAACAGGGTCAAGAAAATCTGTGAAGGGTCCGAGCCTCCCTCTATCC
 CTGCCCTGAGACTCCACAGGAAAGGAAAGAAATGGCTTCCGGAGTCAATACCAGGATCGACGACCTCCAA
 ATGGTTCTGAATCAGACGGAGGACCACCGCCAGAGGGTCTGCAGGCAGCTGCTAAGAATACCCGGTCT
 GGTTTCATCAAGGTGCGGAAGATGAAGGCTATCTACCATACCCTGAACCTGTGCAATATAGACGTGACCCA
 GAAGTGCCTGATCGCAGAAGTCTGGTGCCTGTCACTGACCTGGACTCCATCCAGTTTGGACTACGAAGA
 GGCACGGAACACAGTGGGTCCACTGTCCCTCCATTCTGAACAGGATGCAGACAAACCAGACACCGCCGA
 CATATAATAAAACCAACAAGTTCACGCACGGCTTCCAGAACATAGTAGATGCTTATGGGATCGGCACTTA
 CCGAGAGATTAACCCAGCTCCGTACACTGTCATCACCTTCCCCTTCTGTTTGTGTGATGTTCCGAGAT
 TTTGGCACGGCATTGATGACGCTGTTGCTGTGTGGATGGTGTGAGGGAGAGCCGGATCCTCTCCC
 AGAAGCACGAGAATGAGATGTTTAGCATGGTGTTCAGCGCCGGTACATTATTCTTCTGATGGGACTGTT
 CTCCATCTATACTGGACTCATCTACAATGACTGCTTTTCCAAGTCTCTGAATATCTTTGGGTCATCGTGG
 AGTGTACGGCCAATGTTCACTCAAGGAACTGGACGGAGGAGACGCTTCTGGGGATTCTGTTCTCCAGT
 TGAACCCCGCTATCCCTGGAGTTTTTGGTGGCCGTACCCGTTTGGCATTGATCCGATTTGGAACATTGC
 AACCAACAAGCTGACCTTCTCAACTCCTCAAGATGAAGATGTCTGTTATCCTCGGCATCATCCACATG
 CTGTTTGGAGTCAGCCTGAGCCTTTTCAACCATATCTATTTCAAGAAGCCCTGAACATCTACTTTGGCT
 TTATTCTGAGATCATCTTCATGCTCCTCGTTGTTGGCTACCTGGTCATCCTTATCTTTACAAGTGGAC
 AGCCTACGATGCCACTCGTCTAGGAATGCCCGAGCCTCCTGATCCACTTCATAAATGTTTCTCTTC
 TCCTACCCAGAGTCTGGTAATGCAATGCTGTACTCTGGACAGAAAGGAATTCAGTGTTCCTCATCGTGG
 TGGCGATGCTCTGCGTCCCTGGATGCTTCTGTTAAGCCGCTGATCCTTCGCCATCAGTACCTGAGGAA
 GAAGCATTGGAAGTCTCAACTTTGGTGGGATCAGGGTGGGCAACGGACCGACAGAGGAGGATGCTGAA
 ATTATTACAGATGACCAGCTTCCACCCATTAGAGGACGAGAAAGAGCCTACCGAGGACGAAGTGTG
 ACTTTGGCGACACCATGGTCCACCAGGCCATCCACACATTGAGTACTGCTTGGGTTGTATCTCCAACAC
 CGCGTCGTACCTGCGACTCTGGGCCCTCAGCCTGGCCACGCACAGCTCTCTGAAGTACTTTGGACCATG
 GTGATCCACATTGGCCTGCACGTCGGAGTTTGGCCGGGGTCTAGGGCTGTTTTTCATCTTCGCCGCT
 TTGCCACGCTGACCGTGGCTATCCTGCTGATCATGGAGGGCTCTCGGCCTTCTCCACGCGCTGCGGTT
 ACACTGGGTGGAGTTCCAGAACAATTCTACACTGGGACTGGCTTCAAGTTCCTCCCTTCTCCTTTGAG
 CACATTCGGAAGGGAAGTTTGTGAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001243049
Insert Size: 2340 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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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>NM_001243049.1, NP_001229978.1</u>
RefSeq Size:	3841 bp
RefSeq ORF:	2340 bp
Locus ID:	11975
Cytogenetics:	11 64.04 cM
Gene Summary:	<p>Required for assembly and activity of the vacuolar ATPase. Potential role in differential targeting and regulation of the enzyme for a specific organelle (By similarity). [UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at a downstream start codon, compared to variant 1. The encoded isoform (2) has a shorter N-terminus than isoform 1.</p>