

Product datasheet for **MC229014**

Atp6v0a1 (NM_001243050) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atp6v0a1 (NM_001243050) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Atp6v0a1
Synonyms:	AA959968; ATP6a1; Atp6n1; Atp6n1a; Atpv0a1; Vpp-1; Vpp1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC229014 representing NM_001243050
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGGGAGCTTTTCCGGAGTGAGGAGATGACGCTGGCCAGCTATTTCTACAGTCTGAAGCTGCTTATT
 GCTGTGTCAGTGAATTAGGAGAGCTTGGGAAGGTCCAATTTCCGGATTTAAATCCAGATGTGAATGTTTT
 CCAGAGGAAATTTGTGAATGAAGTTAGAAGATGTGAAGAAATGGATCGAAAACCTCCGATTTGTTGAGAAA
 GAGATAAGGAAAGCTAACATCCCAATTATGGACACCGGTGAAAACCCAGAGGTGCCCTTCCCTCGGGACA
 TGATCGACTTAGAGGCCAATTTGAGAAGATTGAAAATGAACTGAAGGAAATCAACACTAACAGGAAGC
 TCTGAAGAGAACTTCTGGAAGTACTGAAATTTATCCTGCGAAAACCCAGCAGTTTTTTCGAT
 GAGATGGCGGATCCAGACCTGTTGGAAGAGTCTCATCACTCTGGAGCCAAACGAGATGGGAAGAGGGC
 CACCTTACGACTTGGCTTTGTGGCTGGTGTATTAACCGGGAGCGGATCCCGACCTTTGAGCGCATGCT
 TTGGCGAGTGTGCCGAGGGAATGTGTTCTGAGACAAGCTGAAATCGAAAACCCGCTGGAGGATCCTGTG
 ACTGGCGACTACGTGCACAAGTCTGTGTTTCATCATTTTTTTTCCAAGGCGATCAGCTGAAAAACAGGGTCA
 AGAAAATCTGTGAAGGGTCCGAGCCTCCCTCTATCCCTGCCCTGAGACTCCACAGGAAAGGAAAGAAAT
 GGCTTCCGGAGTCAATACCAGGATCGACGACCTCCAAATGGTTCTGAATCAGACGGAGGACCACCGCCAG
 AGGGTTCTGCAGGCAGCTGCTAAGAACATCCGCGTCTGGTTCAACAAGTGCAGGAAAGATGAAGGCTATCT
 ACCATACCCTGAACCTGTGCAATATAGACGTGACCCAGAAGTGCCTGATCGCAGAAGTCTGGTGCCTGT
 CACTGACCTGGACTCCATCCAGTTTGCACGAAAGGACGGAACACAGTGGGTCCACTGTCCCTCC
 ATCTGAACAGGATGCAGACAAACCAGACACCGCCGACATATAATAAAACCAACAAGTTCACGCACGGCT
 TCCAGAACATAGTAGATGCTTATGGGATCGGCACCTACCAGAGATTAACCCAGCTCCGTACACTGTGCAT
 CACCTTCCCTTTCTGTTTGTCTGTGATGTTCCGAGATTTTGGGCACGGCATTTTGTGACGCTGTTTGTCT
 GTGTGGATGTTGTTGAGGAGAGCCGGATCCTCTCCAGAAAGCAGAGAATGAGATGTTTACGATGGTGT
 TCAGCGGCCGGTACATTATCTTCTGATGGGACTGTTCTCCATCTATACTGGACTCATCTACAATGACTG
 CTTTTCCAAGTCTCTGAATATCTTTGGGTATCGTGGAGTGTACGGCCAATGTTCACTCAAGGAACTGG
 ACGGAGGAGACGCTTCTGGGGAGTTCTGTTCTCCAGTTGAACCCCGCTATCCCTGGAGTTTTTGGTGGCC
 CGTACCCGTTTGGCATTGATCCGATTTGGAACATTGCAACCAACAAGCTGACCTTCTCAACTCCTTCAA
 GATGAAGATGTCTGTTATCCTCGGCATCATCCACATGCTGTTGGAGTCAGCCTGAGCCTTTTCAACCAT
 ATCTATTTCAAGAAGCCCTGAACATCTACTTTGGCTTTATCCTGAGATCATCTTCATGCTCCTGTTGT
 TTGGCTACCTGGTCATCCTATCTTTTACAAGTGGACAGCCTACGATGCCCACTGCTAGGAATGCCCC
 GAGCCTCCTGATCCACTTCATAAACATGTTCTCTTCTCCTACCCAGAGTCTGGTAATGCAATGCTGTAC
 TCTGGACAGAAAGGAATTCAGTGTTCCTCATCGTGGTGGCGATGCTCTGCGTCCCTTGGATGCTTCTGT
 TTAAGCCGCTGATCCTTCGCCATCAGTACCTGAGGAAGAAGCATTTGGGAACTCTCAACTTTGGTGGGAT
 CAGGGTGGGCAACGACCGACAGAGGAGGATGCTGAAATATTTCAGCATGACCAGCTTCCACCCATTCA
 GAGGACGAGAAGAGTTTACTTTGGCGACACCATGGTCCACCAGGCCATCCACACCATTTAGTACTGCT
 TGGGTTGATCTCCAACCCGCGTGTACTGCGACTCTGGGCCCTCAGCCTGGCCACGCACAGCTCTC
 TGAAGTACTTTGGACCATGGTGTCCACATTGGCCTGCACGTCGGAGTTTGGCCGGGGTCTAGGGCTG
 TTTTTCATCTTCGCCGCTTTGCCACGCTGACCGTGGCTATCCTGCTGATCATGGAGGGCCTCTCGGCCT
 TCTCCACGCGCTGCGGTTACTGAGGTTCCAGAACAATTCTACTGAGGACTGGCTTCAAGT
 CCTCCCTTCTCTTTGAGCACATTCGGGAAGGGAAGTTTGTGAG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001243050
Insert Size: 2499 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001243050.1 , NP_001229979.1
RefSeq Size:	4001 bp
RefSeq ORF:	2499 bp
Locus ID:	11975
UniProt ID:	Q9Z1G4
Cytogenetics:	11 64.04 cM
Gene Summary:	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] Transcript Variant: This variant (3) lacks an in-frame exon in the 3' coding region, compared to variant 1. This results in a shorter protein (isoform 3), compared to isoform 1.