

Product datasheet for **MC229027**

Atp6v0a1 (NM_001243051) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atp6v0a1 (NM_001243051) 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



[View online »](#)

Fully Sequenced ORF: >MC229027 representing NM_001243051
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGGGGAGCTTTTCGGAGTGAGGAGATGACGCTGGCCAGCTATTTCTACAGTCTGAAGCTGCTTATT
GCTGTGTCAGTGAATTAGGAGAGCTTGGGAAGGTCCAATTTCCGGATTTAAATCCAGATGTGAATGTTTT
CCAGAGGAAATTTGTGAATGAAGTTAGAAGATGTGAAGAAATGGATCGAAAACCTCCGATTTGTTGAGAAA
GAGATAAGGAAAGCTAACATCCCAATTATGGACACCGGTGAAAACCCAGAGGTGCCCTTCCCTCGGGACA
TGATCGACTTAGAGGCCAATTTGAGAAGATTGAAAATGAACTGAAGGAAATCAACACTAACCCAGGAAGC
TCTGAAGAAAATTTCTGGAAGTACTGAATTAATTTATCCTGCGAAAACCCAGCAGTTTTTCGAT
GAGGCTGAATTGCATCATCAGCAGATGGCGGATCCAGACCTGTTGGAAGAGTCTCATCACTCTTGGAGC
CAAACGAGATGGGAAGAGGCGCACCTTACGACTTGGCTTTGGCTGGTGTGATTAACCGGAGCGGAT
CCCAGCTTTGAGCGCATGCTTTGGCGAGTGTGCCGAGGGAATGTGTTCTGAGACAAGCTGAAATCGAA
AACCCGCTGGAGGATCCTGTGACTGGCGACTACGTGCACAAGTCTGTGTTTCATCATTTTTTTCCAAAGCGG
ATCAGCTGAAAAACAGGGTCAAGAAAATCTGTGAAGGGTTCGAGCCTCCCTCTATCCCTGCCCTGAGAC
TCCACAGGAAAGGAAAGAAATGGCTTCCGGAGTCAATACCAGGATCGACGACCTCCAATGGTTCTGAAT
CAGACGGAGGACCACCGCCAGAGGGTCTGACGGCAGCTGCTAAGAACATCCGCGTCTGGTTTCATCAAGG
TGCGGAAGATGAAGGCTATCTACCATACCTGAACCTGTGCAATATAGACGTGACCCAGAAGTGCCTGAT
CGCAGAAGTCTGGTGCCCTGTCACTGACCTGGACTCCAATCCAGTTTGCCTACGAAGAGGACCGGAACAC
AGTGGGTCCACTGTCCCCTCCATTCTGAACAGGATGCAGACAAACCAGACACCCCGCAGATATAATAAAA
CCAACAAGTTACGCACGGCTTCCAGAACATAGTAGATGCTTATGGGATCGGCACCTACCCGAGATTAA
CCAGCTCCGTACACTGTATCACCCTCCCTTTCTGTTTGTGTGATGTTCCGGAGATTTTGGGCACGGC
ATTTTGATGACGCTGTTTGTGTGGATGGTGTGAGGGAGAGCCGGATCCTCTCCAGAACACGAGAGA
ATGAGATGTTTAGCATGGTGTTCAGCGGCCGTACATTATTCTTCTGATGGGACTGTTCTCCATCTATAC
TGGACTCATCTACAATGACTGCTTTTCCAAGTCTCTGAATATCTTTGGGTGATCGTGGAGGTACGGCCA
ATGTTCACTCAAGGAACTGGACGGAGGAGACGCTTCTGGGGAGTTCTGTTCTCCAGTTGAACCCCGCTA
TCCCTGGAGTTTTTGGTGGCCCGTACCCGTTTGGCATTGATCCGATTTGGAACATTGCAACCAACAAGCT
GACCTTCTCACTCCTCAAGATGAAGATGTCTGTTATCCTCGCATCATCCACATGCTGTTTGGAGTC
AGCCTGAGCCTTTTCAACCATATCTATTTCAAGAAGCCCTGAACATCTACTTTGGCTTTATTCCTGAGA
TCATCTTCATGTCTCGTTGTTTGGCTACTGGTCACTTATCTTTTACAAGTGACAGCTACGATGC
CCTCGTCTAGGAATGCCCCGAGCCTCCTGATCCACTTCATAAACATGTTCTCTTCTCTACCCAGAG
TCTGGTAAATGCAATGCTGTACTCTGGACAGAAAGGAATTCAGTGTTCCTCATCGTGGTGGCGATGCTCT
GCGTCCCTTGGATGCTTCTGTTTAAAGCCGCTGATCCTTCGCCATCAGTACCTGAGGAAGAAGCATTGGG
AACTCTCAACTTTGGTGGGATCAGGGTGGGCAACGGACCGACAGAGGAGGATGCTGAAATTTATCAGCAT
GACCAGCTTTCCACCCATTCAGAGGACGCAGAAGATTTGACTTTGGCGACACCATGGTCCACCAGGCCA
TCCACACCATTTGAGTACTGCTTGGTTGTATCTCCAACACCGCGTCTGACCTGCGACTCTGGCCCTCAG
CCTGGCCACGCACAGCTCTCTGAAGTACTTTGGACCATGGTGTATCCACATTGGCCTGCAGTCCGGAGT
TTGGCCGGGGTCTAGGGCTGTTTTTTCATCTTCGCCGCTTTGCCACGCTGACCGTGGCTATCCTGCTGA
TCATGGAGGGCTCTCGGCCTTCTCCACGCGCTGCGGTTACTGAGGTTCCAGAACAATTTCTA
CACTGGGACTGGCTTCAAGTTTCTCCCTTCTCTTTGAGCACATTCGGGAAGGGAAGTTTGTAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI
ACCN: NM_001243051
Insert Size: 2520 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_001243051.1, NP_001229980.1</u>
RefSeq Size:	4022 bp
RefSeq ORF:	2520 bp
Locus ID:	11975
UniProt ID:	<u>Q9Z1G4</u>
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 (4) uses an alternate splice site and lacks an in-frame exon in the 3' coding region, compared to variant 1. This results in a shorter protein (isoform 4), compared to isoform 1.