

## Product datasheet for **MR231238**

### **Atp6v0a1 (NM\_001243051) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Atp6v0a1 (NM_001243051) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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**ORF Nucleotide Sequence:**

>MR231238 representing NM\_001243051  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGGGGAGCTTTTCCGGAGTGAGGAGATGACGCTGGCCAGCTATTTCTACAGTCTGAAGCTGCTTATT  
 GCTGTGTCAGTGAATTAGGAGAGCTTGGGAAGGTCCAATTTCCGGATTTAAATCCAGATGTGAATGTTTT  
 CCAGAGGAAATTTGTGAATGAAGTTAGAAGATGTGAAGAAATGGATCGAAAACTCCGATTTGTTGAGAAA  
 GAGATAAGGAAAGCTAACATCCCAATTATGGACACCGGTGAAAACCCAGAGGTGCCCTTCCCTCGGGACA  
 TGATCGACTTAGAGGCCAATTTGAGAAGATTGAAAATGAACTGAAGGAAATCAACACTAACCCAGGAAGC  
 TCTGAAGAGAACTTCTGGAAGTACTGAATTAATTTATCCTGCGAAAAACCCAGCAGTTTTTCGAT  
 GAGGCTGAATTGCATCATCAGCAGATGGCGGATCCAGACCTGTTGGAAGAGTCTCATCACTCTTGAGC  
 CAAACGAGATGGGAAGAGGGCACCCCTTACGACTTGGCTTTGGCTGGTGTGATTAACCCGGAGCGGAT  
 CCCGACCTTTGAGCGCATGCTTTGGCGAGTGTGCCGAGGGAATGTGTTCTGAGACAAGCTGAAATCGAA  
 AACCCGCTGGAGGATCCTGTGACTGGCGACTACGTGCACAAGTCTGTGTTTCATCATTTTTTTCCAAAGCGG  
 ATCAGCTGAAAAACAGGGTCAAGAAAATCTGTGAAGGGTTCGGAGCCTCCCTCTATCCCTGCCCTGAGAC  
 TCCACAGGAAAGGAAAGAAATGGCTTCCGGAGTCAATACCAGGATCGACGACCTCCAAATGGTTCTGAAT  
 CAGACGGAGGACCACCGCCAGAGGGTCTGCGAGCAGCTGCTAAGAACATCCGCGTCTGGTTTCATCAAGG  
 TGCGGAAGATGAAGGCTATCTACCATACCTGAACCTGTGCAATATAGACGTGACCCAGAAGTGCCTGAT  
 CGCAGAAGTCTGGTGCCCTGTCACTGACCTGGACTCCATCCAGTTTGCCTACGAAGAGGACCGGAACAC  
 AGTGGGTCCACTGTCCCCTCCATTCTGAACAGGATGCAGACAAACCAGACACCCCGCAGATATAATAAAA  
 CCAACAAGTTACGCACGGCTTCCAGAACATAGTAGCTTATGGGATCGGCACCTACCGAGATTAA  
 CCCAGCTCCGTACACTGTATCACCTTCCCTTTCTGTTTGTGTGATGTTCCGGAGATTTTGGGCACGGC  
 ATTTTGATGACGCTGTTTGTGTGGATGGTGTGAGGGAGAGCCGGATCCTCTCCAGAACACGAGAGA  
 ATGAGATGTTTAGCATGGTGTTCAGCGGCCGTACATTATTCTTCTGATGGGACTGTTCTCCATCTATAC  
 TGGACTCATCTACAATGACTGCTTTTCCAAGTCTCTGAATATCTTTGGGTGATCGTGGAGGTACGGCCA  
 ATGTTCACTCAAGGAACTGGACGGAGGAGACGCTTCTGGGGAGTTCTGTTCTCCAGTTGAACCCCGCTA  
 TCCCTGGAGTTTTTGGTGGCCCGTACCCGTTTGGCATTGATCCGATTTGGAACATTGCAACCAACAAGCT  
 GACCTTCTCAACTCCTCAAGATGAAGATGTCTGTTATCCTCGGCATCATCCACATGCTGTTTGGAGTC  
 AGCCTGAGCCTTTTCAACCATATCTATTTCAAGAAGCCCTGAACATCTACTTTGGCTTTATTCCTGAGA  
 TCATCTTCATGTCTCGTTGTTTGGCTACCTGGTCATCCTTATCTTTTACAAGTGGACAGCTACGATGC  
 CCACTCGTCTAGGAATGCCCGAGCCTCCTGATCCACTTCATAAACATGTTCTCTTCTCTACCCAGAG  
 TCTGGTAAATGCAATGCTGTACTCTGGACAGAAAGGAATTCAGTGTTCCTCATCGTGGTGGCGATGCTCT  
 GCGTCCCTTGGATGCTTCTGTTTAAAGCCGCTGATCCTTCGCCATCAGTACCTGAGGAAGAAGCATTTGGG  
 AACTCTCAACTTTGGTGGGATCAGGGTGGGCAACGGACCGACAGAGGAGGATGCTGAAATATTTCAGCAT  
 GACCAGCTTCCACCCATTCAGAGGACGCAGAAGATTTGACTTTGGCGACACCATGGTCCACCAGGCCA  
 TCCACACCATTTGAGTACTGCTTGGTTGTATCTCCAACACCCGCTGCTACCTGCGACTCTGGCCCTCAG  
 CCTGGCCACGCACAGCTCTCTGAAGTACTTTGGACCATGGTGTATCCACATTGGCCTGCACGTCGGGAGT  
 TTGGCCGGGGTCTAGGGCTGTTTTTTCATCTTCGCCGCTTTGCCACGCTGACCGTGGCTATCCTGCTGA  
 TCATGGAGGGCTCTCGGCCTTCTCCACGCGCTGCGGTTACTGAGGTTGAGTTCCAGAACAATTTCTA  
 CACTGGGACTGGCTTCAAGTTTCTCCCTTCTCTTTGAGCACATTCGGGAAGGGAAGTTTATGAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR231238 representing NM\_001243051  
Red=Cloning site Green=Tags(s)

MGELFRSEEMTLAQLFLQSEAAYCCVSELGELGKVQFRDLNPDVNVFQRKFNVEVRRCEEMDRKLRFVEK  
EIRKANIPIMDTGENPEVPFPRDMIDLEANFEKIENELKEINTNQEALKRNFLTELKFI LRKTQQFFD  
EAE LHHQQMADPDLEE SSSLEPNEMGRGAPLRLGFVAGVINRERIPTFERMLWRVCRGNVFLRQAEIE  
NPLEDPVTGDYVHKSVFIIFQGDQLKNRVKKICEGFRASLYPCPETPQERKEMASGVNTRIDDLQMVLN  
QTEDHRQVRLQAAAKNIRVWFIKVRKMKAIYHTLNL CNIDVTQKCLIAEVWCPVTDLDSIQFALRRGTEH  
SGSTVPSILNRMQTNQTPPTYNKTNKFTHGFQNI VDAYGIGTYREINPAPYTVITFPFLFAVMFGDFGHG  
ILMTLFAVWMLRESRILSQKHENEMFSMVFSGRYIILLMGLFSIYTGLIYND CFSKSLNIFGSSWSVRP  
MFTQGNWTEETLLGSSVLQLNPAIPGVFGGYPFGIDPIWNIATNKL TFLNSFKMKMSVILGIIHMLFGV  
SLSLFNHIYFKKPLNIYFGFIPEIIFMSSLFGYLVI LIFYKWTAYDAHSSRNAPSLLIHF INMFLFSYPE  
SGNAML YSGQKGIQCFLIVVAMLCVPWMLL FKPLILRHQYLRKKHLGTLNFGGIRVGNPTEEDAEIIQH  
DQLSTHSEDAEEFDFGDTMVHQAIHTIEYCLGCI SNTASYLRLWALSLAHAQLSEVLWMTMVIHIGLHVRS  
LAGGLGLFFIFA AFATLTVAILLIMEGLSAFLHALRLHWVEFQNKFYTGTFKFLPFSFEHIREGKFDE

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

**Cloning Scheme:**



**ACCN:** NM\_001243051

**ORF Size:** 2517 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:**

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:** [NM\\_001243051.2](#)

**RefSeq Size:** 4022 bp

**RefSeq ORF:** 2520 bp

**Locus ID:** 11975

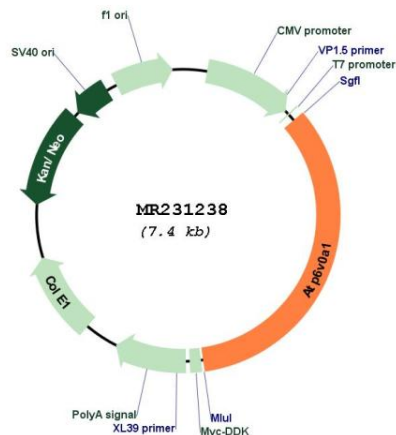
**UniProt ID:** [Q9Z1G4](#)

**Cytogenetics:** 11 64.04 cM

**MW:** 96.9 kDa

**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]

## Product images:



Circular map for MR231238