

## Product datasheet for **MR210870**

### **Atp6v0a1 (BC071182) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Atp6v0a1 (BC071182) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Atp6v0a1
Synonyms:	ATP6a1, Atpv0a1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR210870 representing BC071182  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGGGGAGCTTTTCCGGAGTGAGGAGATGACGCTGGCCAGCTATTTCTACAGTCTGAAGCTGCTTATT  
 GCTGTGTCAGTGAATTAGGAGAGCTTGGGAAGGTCCAATTTCCGGATTTAAATCCAGATGTGAATGTTTT  
 CCAGAGGAAATTTGTGAATGAAGTTAGAAGATGTGAAGAAATGGATCGAAAACCCGATTTGTTGAGAAA  
 GAGATAAGGAAAGCTAACATCCCAATTATGGACACCGGTGAAAACCCAGAGGTGCCCTTCCCTCGGGACA  
 TGATCGACTTAGAGGCCAATTTGAGAAGATTGAAAATGAACTGAAGGAAATCAACACTAACCCAGGAAGC  
 TCTGAAGAGAACTTCTGGAAGTACTGAATTAATTTATCCTGCGAAAACCCAGCAGTTTTTCGAT  
 GAGATGGCGGATCCAGACCTGTTGGAAGAGTCTCATCACTCTGGAGCCAAACGAGATGGGAAGAGGGC  
 CACCTTACGACTTGGCTTTGTGGCTGGTGTGATTAACCGGGAGCGGATCCCGACCTTTGAGCGCATGCT  
 TTGGCGAGTGTGCCGAGGGAATGTGTTCTGAGACAAGCTGAAAATCGAAAACCCGCTGGAGGATCCTGTG  
 ACTGGCGACTACGTGCACAAGTCTGTGTTTCATCATTTTTTTTCCAAGGCGATCAGCTGAAAAACAGGGTCA  
 AGAAAATCTGTGAAGGGTCCGAGCCTCCCTCTATCCCTGCCCTGAGACTCCACAGGAAAGGAAAGAAAT  
 GGCTTCCGGAGTCAATACCAGGATCGACGACCTCCAAATGGTTCTGAATCAGACGGAGGACCACCGCCAG  
 AGGGTTCTGCAGGCAGCTGCTAAGAACATCCGCGTCTGGTTCAACAAGTGCAGGAAAGATGAAGGCTATCT  
 ACCATACCTGAACCTGTGCAATATAGACGTGACCCAGAAGTGCCTGATCGCAGAAGTCTGGTGCCTGT  
 CACTGACCTGGACTCCATCCAGTTTGCACACTACGAAGAGGCACGGAACACAGTGGGTCCACTGTCCCTCC  
 ATTTCTGAACAGGATGCAGACAAACCAGACACCGCCGACATATAATAAAACCAACAAGTTCACGCACGGCT  
 TCCGAACATAGTAGATGCTTATGGGATCGGCACTTACCGAGAGATTAACCCAGCTCCGTACACTGTTCAT  
 CACCTTCCCTTTCTGTTTGTCTGTGATGTTCCGAGATTTTGGGCACGGCATTTTGTGACGCTGTTTGTCT  
 GTGTGGATGGTGTGAGGGAGAGCCGGATCCTCTCCAGAACACGAGAATGAGATGTTTACGATGGTGT  
 TCAGCGGCCGGTACATTATCTTCTGATGGGACTGTTCTCCATCTATACTGGACTCATCTACAATGACTG  
 CTTTTCCAAGTCTCTGAATATCTTTGGGTATCGTGGAGTGTACGGCCAATGTTCACTCAAGGAACTGG  
 ACGGAGGAGACGCTTCTGGGGAGTTCTGTTCTCCAGTTGAACCCCGCTATCCCTGGAGTTTTTGGTGGCC  
 CGTACCCGTTTGGCATTGATCCGATTTGGAACATTGCAACCAACAAGCTGACCTTCTCAACTCCTTCAA  
 GATGAAGATGTCTGTTATCCTCGGCATCATCCACATGCTGTTGGAGTCAGCCTGAGCCTTTTCAACCAT  
 ATCTATTTCAAGAAGCCCTGAACATCTACTTTGGCTTTATCCTGAGATCATCTTCATGCTCCTGTTGT  
 TTGGCTACCTGGTCATCCTTATCTTTACAAGTGGACAGCCTACGATGCCCACTCGTCTAGGAATGCCCC  
 GAGCCTCCTGACCCACTTCATAAACATGTTCTCTTCTCCTACCCAGAGTCTGGTAATGCAATGCTGTAC  
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 TTAAGCCGCTGATCCTTCGCCATCAGTACCTGAGGAAGAAGCATTTGGGAACTCTCAACTTTGGTGGGAT  
 CAGGGTGGGCAACGACCGACAGAGGAGGATGCTGAAATATTTCAGCATGACCAGCTTCCACCCATTCA  
 GAGGACGAGAAGAGTTTGACTTTGGCGACACCATGGTCCACCAGGCCATCCACACCATTTAGTACTGCT  
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 TGAAGTACTTTGGACCATGGTGTCCACATTGGCCTGCACGTCGGAGTTTGGCCGGGGTCTAGGGCTG  
 TTTTTCATCTTCCCGCCTTTGCCAGCTGACCGTGGCTATCCTGCTGATCATGGAGGGCCTCTCGGCCT  
 TCTCCACGCGCTGCGGTTACTGGGTGGAGTCCAGAACAATTTACTACTGGGACTGGCTTCAAGT  
 CCTCCCTTCTCTTTGAGCACATTCGGGAAGGGAAGTTTGTGAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR210870 representing BC071182  
Red=Cloning site Green=Tags(s)

MGELFRSEEMTLAQLFLQSEAAYCCVSELGELGKVQFRDLNPDVNVFQRKFNVEVRRCEEMDRKLRFVEK  
EIRKANIPIMDTGENPEVPFPRDMIDLEANFEKIENELKEINTNQEALKRNFLTELKFI LRKTQQFFD  
EMADPDLL EESSLLEPNEMGRGAPLRLGFVAGVINRERIPTFERMLWRVCRGNVFLRQAEIENPLEDPV  
TGDYVHKSVFIIFFGDQLKNRVKKICEGFRASLYPCPETPQERKEMASGVNTRIDDLQMVLNQTEDHRQ  
RVLQAAAANKIRVWFIVKVRKMKAIYHTLNL CNIDVTQKCLIAEVWCPVTDLDSIQFALRRGTEHSGSTVPS  
ILNRMQTNQTPPTYNKTNKFTHGQNI VDAYGIGTYREINPAPYTVITFPFLFAVMFGDFGHGILMTLFA  
VWMLRESRILSQKHENEMFSMVFSGRYIILLMGLFSIYTGLIYNDCFSKSLNIFGSSWSVRPMFTQGNW  
TEETLLGSSVLQLNPAIPGVFGGPYPGIDPIWNIATNKLTFLNSFKMKMSVILGIIHMLFGVSLSLFNH  
IYFKKPLNIYFGFIPEIIFMSSLFGYLILIFYKWTAYDAHSSRNAPSLLT HFINMFLFSYPESGNAMLY  
SGQKGIQCFLIVVAMLCVPWMLLFKPLILRHQYLRKKHLGTLNFGGIRVGNPTEEDAEIIQHDQLSTHS  
EDAEEDFDGDTMVHQAIHTIEYCLGCISNTT SYLRWALSLAHAQLSEVLWMTMVIHIGHLHVRSLAGGLGL  
FFIFAATLTVAILLIMEGLSAFLHALRLHWVEFQNKFYTGTFKFLPFSFEHIREGKFDE

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9034\\_e10.zip](https://cdn.origene.com/chromatograms/mm9034_e10.zip)

**Restriction Sites:** Sgfl-Mlul

**Cloning Scheme:**



**ACCN:** BC071182

**ORF Size:** 2496 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:** [BC071182.1](#)

**RefSeq Size:** 3980 bp

**RefSeq ORF:** 2498 bp

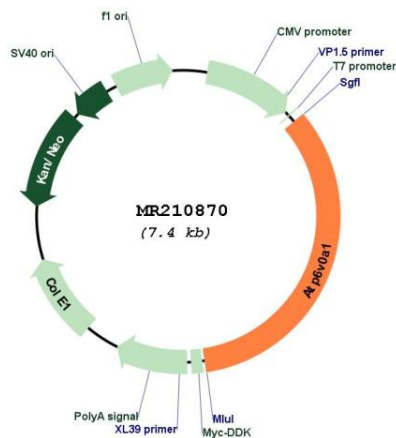
**Locus ID:** 11975

**Cytogenetics:** 11 64.04 cM

**MW:** 145.9 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 MR210870