

Product datasheet for **MR231225**

Atp6v0a1 (NM_001243050) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atp6v0a1 (NM_001243050) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide Sequence:

>MR231225 representing NM_001243050
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGGAGCTTTTCCGGAGTGAGGAGATGACGCTGGCCAGCTATTTCTACAGTCTGAAGCTGCTTATT
 GCTGTGTCAGTGAATTAGGAGAGCTTGGGAAGGTCCAATTTCCGGATTTAAATCCAGATGTGAATGTTTT
 CCAGAGGAAATTTGTGAATGAAGTTAGAAGATGTGAAGAAATGGATCGAAAACTCCGATTTGTTGAGAAA
 GAGATAAGGAAAGCTAACATCCCAATTATGGACACCGGTGAAAACCCAGAGGTGCCCTTCCCTCGGGACA
 TGATCGACTTAGAGGCCAATTTGAGAAGATTGAAAATGAACTGAAGGAAATCAACACTAACCGGAAGC
 TCTGAAGAGAACTTCTGGAAGTACTGAAATTAATTTATCCTGCGAAAAACCCAGCAGTTTTTCGAT
 GAGATGGCGGATCCAGACCTGTTGGAAGAGTCTCATCACTCTGGAGCCAAACGAGATGGGAAGAGGGC
 CACCTTACGACTTGGCTTTGTGGCTGGTGTATTAACCGGGAGCGGATCCCGACCTTTGAGCGCATGCT
 TTGGCGAGTGTGCCGAGGGAATGTGTTCTGAGACAAGCTGAAATCGAAAACCCGCTGGAGGATCCTGTG
 ACTGGCGACTACGTGCACAAGTCTGTGTTTCATCATTTTTTTTCCAAGGCGATCAGCTGAAAAACAGGGTCA
 AGAAAACTCTGTGAAGGGTCCGAGCCTCCCTCTATCCCTGCCCTGAGACTCCACAGGAAAGGAAAGAAAT
 GGCTTCCGGAGTCAATACCAGGATCGACGACCTCCAAATGGTTCTGAATCAGACGGAGGACCACCGCCAG
 AGGGTTCTGCAGGCAGCTGCTAAGAACATCCGCGTCTGGTTCAACAAGTGCAGGAAAGTGAAGGCTATCT
 ACCATACCCTGAACCTGTGCAATATAGACGTGACCCAGAAGTGCCTGATCGCAGAAGTCTGGTGCCTGT
 CACTGACCTGGACTCCATCCAGTTTGCACACTACGAAGAGGCACGGAACACAGTGGGTCCACTGTCCCTCC
 ATTTCTGAACAGGATGCAGACAAACCAGACACCGCCGACATATAATAAAACCAACAAGTTCACGCACGGCT
 TCCGAACATAGTAGATGCTTATGGGATCGGCACTTACCAGAGATTAACCCAGCTCCGTACACTGTTCAT
 CACCTTCCCTTTCTGTTTGTCTGTGATGTTCCGAGATTTTGGGCACGGCATTTTGTGACGCTGTTTGTCT
 GTGTGGATGTTGTTGAGGAGAGCCGGATCCTCTCCAGAAAGCAGAGAATGAGATGTTTACGATGGTGT
 TCAGCGGCCGGTACATTATCTTCTGATGGGACTGTTCTCCATCTATACTGGACTCATCTACAATGACTG
 CTTTTCCAAGTCTCTGAATATCTTTGGGTATCGTGGAGTGTACGGCCAATGTTCACTCAAGGAACTGG
 ACGGAGGAGACGCTTCTGGGGAGTTCTGTTCTCCAGTTGAACCCCGCTATCCCTGGAGTTTTTGGTGGCC
 CGTACCCGTTTGGCATTGATCCGATTTGGAACATTGCAACCAACAAGCTGACCTTCTCAACTCCTTCAA
 GATGAAGATGTCTGTTATCCTCGGCATCATCCACATGCTGTTGGAGTCAGCCTGAGCCTTTTCAACCAT
 ATCTATTTCAAGAAGCCCTGAACATCTACTTTGGCTTTATCCTGAGATCATCTTCATGCTCCTGTTGT
 TTGGCTACCTGGTCATCCTTATCTTTACAAGTGGACAGCCTACGATGCCCACTCGTCTAGGAATGCCCC
 GAGCCTCCTGATCCACTTCATAAACATGTTCTCTTCTCCTACCCAGAGTCTGGTAATGCAATGCTGTAC
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 TTAAGCCGCTGATCCTTCGCCATCAGTACCTGAGGAAGAAGCATTTGGGAACTCTCAACTTTGGTGGGAT
 CAGGGTGGGCAACGACCGACAGAGGAGGATGCTGAAATATTTCAGCATGACCAGCTTCCACCCATTCA
 GAGGACGAGAAGAGTTTGACTTTGGCGACACCATGGTCCACCAGGCCATCCACACCATTTAGTACTGCT
 TGGGTTGATCTCCAACCCGCGTGTACCTGCGACTCTGGGCCCTCAGCCTGGCCACGCACAGCTCTC
 TGAAGTACTTTGACCATGGTGTCCACATTGGCCTGCACGTCGGAGTTTGGCCGGGGTCTAGGGCTG
 TTTTTCATCTTCCCGCCTTTGCCAGCTGACCGTGGCTATCCTGCTGATCATGGAGGGCCTCTCGGCCT
 TCTCCACGCGCTGCGGTTACTGGGTGGAGTCCAGAACAATTCTACTGAGGACTGGCTTCAAGT
 CCTCCCTTCTCTTTGAGCACATTCGGGAAGGGAAGTTTGTGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR231225 representing NM_001243050
Red=Cloning site Green=Tags(s)

MGELFRSEEMTLAQLFLQSEAAYCCVSELGELGKVQFRDLNPDVNVFQRKFNVEVRRCEEMDRKLRFVEK
EIRKANIPIMDTGENPEVPFPRDMIDLEANFEKIENELKEINTNQEALKRNFLTELKFI LRKTQQFFD
EMADPDLL EESSLLEPNEMGRGAPLR LRGFVAGVINRERIPTFERMLWRVCRGNVFLRQAEIENPLEDPV
TGDYVHKSVFIIFFGDQLKNRVKKICEGFRASLYPCPETPQERKEMASGVNTRIDDLQMVLNQTEDHRQ
RVLQAAAKNIRVWFIVKVRMKAIYHTLNL CNIDVTQKCLIAEVWCPVTDLDSIQFALRRGTEHSGSTVPS
ILNRMQTNQTPPTYNKTNKFTHG FQNI VDAYGIGTYREINPAPYTVITFPFLFAVMFGDFGHGILMTLFA
VWMLRESRILSQKHENEMFSMVFSGRYIILLMGLFSIYTG LIYND CFSKSLNIFGSSWSVRPMFTQGNW
TEETLLGSSVLQLNPAIPGVFGGPYPF GIDPIWNIATNKLTFLNSFKMKMSVILGIIHMLFGVSLSLFNH
IYFKKPLNIYFGFIPEIIFMSSLFGYL VILIFYKWTAYDAHSSRNAPSLLIHF INMFLFSYPESGNAMLY
SGQKGIQCFLIVVAMLCVPWMLLFKPLILRHQYLRKKHLGTLNFGGIRVGNPTEEDAEIIQHDQLSTHS
EDAE EFDGDMVHQAIHTIEYCLGCISNTASYLR L WALSLAHAQLSEVLWMTMVIHIGHLHVRSLAGGLGL
FFIFA AFATLTVAILLIMEGLSAFLHALRLHWVEFQNKFYTGTFKFLPFSFEHIREGKFDE

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

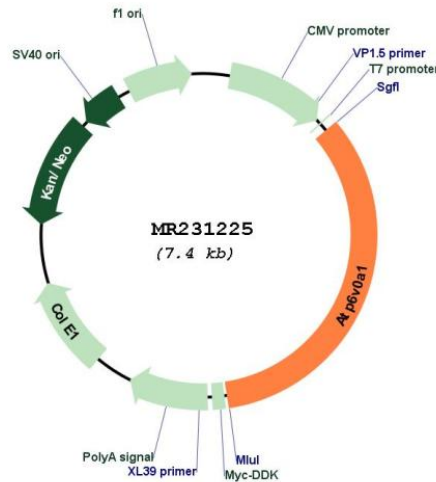
Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_001243050

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: [NM_001243050.2](#)

RefSeq Size: 4001 bp

RefSeq ORF: 2499 bp

Locus ID: 11975

UniProt ID: [Q9Z1G4](#)

Cytogenetics: 11 64.04 cM

MW: 96.1 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]