

Product datasheet for **RR208343**

Atp6v0a1 (NM_031604) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atp6v0a1 (NM_031604) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Atp6v0a1
Synonyms:	Atp6n1; Atp6n1a
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR208343 representing NM_031604
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGGGAGCTTTTCCGAAGCGAGGAGATGACCCTGGCCAGCTCTTTCCAGTCCGAAGCTGCTTATT
 GTTGTGCAGTGAATTAGGAGAAGTTGAAAGGTTTCAGTTCGGGATTTAAATCCAGATGTGAATGTTTT
 CCAGAGGAAATTTGTGAATGAAGTTAGAAGATGTGAAGAAATGGATCGAAAACCCGGTTTGTGAGAAA
 GAGATAAGAAAAGCTAACATCCCAATTATGGACTGGAGAGAACCCTGGAGGTGCCCTTTCCAGGGACA
 TGATCGACTTGGAGGCCAATTTGAGAAGATCGAAAACGAACTGAAGGAAATCAACACTAACCGGAAGC
 TCTAAAGCGAACTTCTGGAAGTACTGAATTAATACTGCGCAAACTCAGCAGTTTTTCGAT
 GAGATGGCGGATCCAGACCTGTTGGAAGAGTCTCATCACTCTGGAGCCAAACGAGATGGGAAGAGGCG
 CGCCTTTACGACTTGGCTTCGTAGCTGGTGTGATTAACCGGGAACGGATCCCGACCTTTGAGCGCATGCT
 TTGGCGAGTGTGCCGAGGGAATGTGTTCTGAGACAGGCTGAAATCGAAAACCCGCTGGAGGATCCCGTG
 ACTGGCGACTACGTGCACAAGTCCGTGTTTCATATTTTTTCAAAGGTGACCAGCTGAAAAACAGGGTCA
 AGAAAATCTGTGAAGGGTCCGAGCCTCCCTCTATCCCTGTCTGAGACTCCACAGGAGAGAAAAAGAAAT
 GGCTTCCGGAGTCAATACCAGGATCGACGATCTCCAAATGGTTCTGAATCAGACAGAGGACCACCGCCAG
 AGGGTTCTGCAGGCGGCTGCTAAGAACATCCGGGTGTGGTTTCAAGGTGCGGAAGATGAAAGCTATCT
 ACCATACCCTGAACCTCTGCAACATCGATGTGACGCAGAAGTGCCTGATCGCGGAAGTCTGGTGCCCGT
 CACTGACCTGGACTCCATCCAGTTTGCCTGCGAAGGGGACGGAGCACAGCGGTTCCACTGTCCCTCC
 ATTCTGAACAGGATGCAGACAAACCAGACACCCCGACGTATAACAAAACCAACAAGTTCACGCACGGCT
 TCCGAACATAGTGGATGCTTATGGGATCGGCCTTACCAGAAAATTAACCCAGCTCCGTACACCGTCA
 CACCTTCCCTTTCTGTTTGTCTGTGATGTTGGAGATTTGGGCACGGCATTGATGACTCTGTTTGTCT
 GTGTGGATGTTGAGGAGAGCCGGATCCTCTCCAGAAGAACGAGAATGAGATGTTTAGCATGGTGT
 TCAGCGGCCGATACATTATCCTTCTGATGGGACTGTTCTCCATCTACACTGGACTCATCTACAATGACTG
 CTTTTCAAGTCTCTGAATATCTTTGGGTATCATGGAGCGTACGGCCAATGTTCCACATAGGGAAGTGG
 ACGGAGGAGACGCTCCTGGGAGTTCTGTCTCCAGCTGAACCCAGCTATCCCTGGAGTCTTTGGTGGCC
 CTTACCCATTTGGCATTGATCCGATTTGGAACATCGCAACCAACAAGCTGACCTTCTCAACTCCTTCAA
 GATGAAGATGTCAGTTATCTTGGGATCATCCACATGCTGTTCCGGGTGACGCTGAGCCTTTTCAACCAC
 ATCTATTTCAAGAAGCCCTGAACATCTACTTTGGCTTTATCCCGAGATAATCTTCATGCTCCTCGCTGT
 TTGGCTACCTGGTCATCCTCATCTTTACAAGTGGACAGCCTACGATGCCACTCGTCTAGAAATGCCCC
 GAGCCTCCTGATCCATTTCAAAACATGTTCTCTTCTCCTACCCAGAGTCTGGTAACGCAATGCTGTAC
 TCTGGACAGAAAGGAATTCAGTGTTCCTCATAGTGGTGGCAATGCTCTGTGTCCTGGATGCTGCTGT
 TTAAGCCGTTGATCCTTCGCCATCAGTACCTGAGGAAGAAGCATTTGGGAACTCTCAACTTTGGTGGGAT
 CAGGGTGGGCAACGACCGACAGAGGAGGATGCTGAAATTAATCAGCATGACCAGCTCTCCACCCATTCA
 GAGGACGAGAAGAGCCTACCGAGGACGAAGTGTGGACTTTGGCGACACCATGGTCCACCAGGCCATCC
 ACACCATGAGTACTGCTTGGGCTGCATCTCAACACTGCGTCTACCTGCGGCTCTGGGCCCTCAGCCT
 GGCCCATGCACAGCTCTCTGAAGTACTGGACCATGGTATCCACATCGGCCTGCATGTCCGGAGTCTG
 GCAGGGGGACTGGGCTGTTTTTCATCTTCGCTGCCTTTGCCACCTGACCGTGGCCATCCTGCTGATCA
 TGGAAAGCCTCTCAGCCTTCTCCACGCACTGCGATTACTGGGTGGAATTCAGAAACAATCTACAC
 TGGGACTGGTTTCAAGTCTCCCTTCTCCTTTGAGCACATTCGGGAAGGAAGTTTGTGATGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR208343 representing NM_031604
Red=Cloning site Green=Tags(s)

MGELFRSEEMTLAQLFLQSEAAYCCVSELGELGKVQFRDLNPDVNVFQRKFNVEVRRCEEMDRKLRFVEK
EIRKANIPIMDTGENPEVPFPRDMIDLEANFEKIENELKEINTNQEALKRNFLTELKFI LRKTQQFFD
EMADPDLL EESSLLEPNEMGRGAPLR LGFVAGVINRERIPTFERMLWRVCRGNVFLRQAEIENPLEDPV
TGDYVHKSVFI IFFQGDQLKNRVKKICEGFRASLYPCPETPQERKEMASGVNTRIDDLQMVLNQTEDHRQ
RVLQAAAANKIRVWF IKVRKMKAIYHTLNL CNIDVTQKCLIAEVWCPVTDLDSIQFALRRGTEHSGSTVPS
ILNRMQTNQTPPTYNKTNKFTHG FQNI VDAYGIGTYREINPAPYTVITFPFLFAVMFGDFGHGILMTLFA
VWMLRESRILSQKNENEMFSMVFSGRYIILLMGLFSIYTG LIYND CFSKSLNIFGSSWSVRPMFTIGNW
TEETLLGSSVLQLNPAIPGVFGGPYPF GIDPIWNIATNKLTFLNSFKMKMSVILGIIHMLFGVSLSLFNH
IYFKKPLNIYFGFIPEIIFMSSLFGYL VILIFYKWTAYDAHSSRNAPSLLIHF INMFLFSYPESGNAMLY
SGQKGIQCFLIVVAMLCVPWMLLFKPLILRHQYLRKKHLGTLNFGGIRVGNPTEEDAEIIQHDQLSTHS
EDAEPTEDVDFDGD TMVHQAIHTIEYCLGCISNTASYLRWALSLAHAQLSEVLWTMVIHIGLHVRS
AGGLGLFFIFA AFATLTVA ILLIMEGLSAFLHALRLHWVEFQNK FYTGTGFKFLPFSFEHIREGKFDE

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

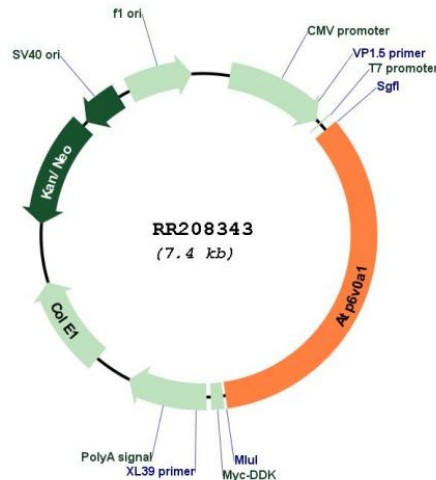
Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_031604

ORF Size: 2514 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_031604.2](#), [NP_113792.2](#)

RefSeq Size: 4006 bp

RefSeq ORF: 2517 bp

Locus ID: 29757

UniProt ID: [P25286](#)

Cytogenetics: 10q31

MW: 96.3 kDa

Gene Summary: may play a role in coupling ATP hydrolysis to proton translocation [RGD, Feb 2006]