

Product datasheet for **RR214523**

Atp6ap1 (NM_031785) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atp6ap1 (NM_031785) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Atp6ap1
Synonyms:	Atp6s1; C7-1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR214523 representing NM_031785
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATGGCGGCAACAGTGGTATCTCGGATACGAACCGGGACCGGTGGGCTCCAGTCTGTGGCTGCTTC
 TGTCGTTGGTGGCAGTGGCGGCAGCAGTGGCTGCGGAGCAGCAGGTGCCACTGGTACTGTGGTCCAGTGA
 CCGGGACCTCTGGGCTCCTGTGGCCGACACACATGAGGGTCATATTACCAGCGATATGCAGCTTTCTACC
 TACTTAGACCCTGCCCTGGAGCTGGGCCCCCGCAATGTATTGCTGTTCCCTGCAGGACAAGCTGAGCATTG
 AGGATTTACAGCATACGGTGGTGTGTTTGAAAATAAACAGGACAGTGCCTTTTCTAACCTGGAGAATGC
 CCTGGACTTGGCCCCCTCCTCACTGGTACTTCTGCTGTGGACTGGTATGCAATCAGCACTCTGACCACC
 TACCTACAGGAGAAGCTTGGAGCTAGTCCCTTGCATGTGGATCTAGCTACCCTAAAGGAGCTGAAGCTCA
 ATGCCAGCCTTCCCTGCCCTGCTGCTCATCCGTCTGCCCTACACAGCCAGCTCCGGTCTGATGGCGCCAG
 GGAGGTCTTACAGGTAATGATGAGGTATCGGACAGGACTGAGCACACTTGAGTCTGAAGATGTTCTCT
 TACACCGCGGCTCTTACTGCAGTCCGCCCTTCTAGAGTGGCCCGTATGTAGCCATGGTGGCTGGGGGTC
 TAGGTCGCCAGCTGCTTCAGACTCAGGTGGCATCACCTGCGATCCATCCTCCTGTGAGTTACAATGACAC
 TGCCCCAAGGATCCTGTTTTGGGCACAAAATTCTCTGTGGCATACAAAGACGAATGAAAGACTTGACC
 TCCCTCACCTTTGGTGTGGAGAATCTTAACTTGACCGGCTCCTTCTGGAATGACTCCTTTGCCATGCTTT
 CACTGACCTATGAACCACTCTTTGGTGAACAGTGACATTCAAGTTCATTCTGGCTAGTCGCTTCTACCC
 AGTATCTGCCGATATTGGTTTACCATGGAACGACTTGAAATCCACAGCAATGGCTCGGTTGCCATTTC
 AATGTTTCCCAAGTACAGGACCTAGTATCTATTCTTTCCACTGTGAGTACGTACGACAGTCTGAGCAAGA
 AAGGCAGTCTCCTTGTGACCAACGTGCCCTCCCTCTGGCAGATGACTCTTCATAACTTCCAGATCCAAGC
 CTCAATGTGACTGGTGAACAGTTCTCCTATGCTAGCGACTGTGCTGGCTTCTTCTCTCCGGGCATCTGG
 ATGGGGCTGCTCACCCCTCTTCATGCTTTTTCATATTACCTATGGTCTGCACATGATACTCAGCCTAA
 AGACCATGGATCGCTTTGATGACCGCAAGGGCCCCACCATCACTTTGACCCAGATTGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR214523 representing NM_031785
 Red=Cloning site Green=Tags(s)

MMAATVVSRI RTGTRWAPV L W L L S L V A V A A A V A E Q Q V P L V L W S S D R D L W A P V A D T H E G H I T S D M Q L S T
 Y L D P A L E L G P R N V L L F L Q D K L S I E D F T A Y G G V F G N K Q D S A F S N L E N A L D L A P S S L V L P A V D W Y A I S T L T T
 Y L Q E K L G A S P L H V D L A T L K E L K L N A S L P A L L I R L P Y T A S S G L M A P R E V L T G N D E V I G Q V L S T L E S E D V P
 Y T A A L T A V R P S R V A R D V A M V A G G L G R Q L L Q T Q V A S P A I H P P V S Y N D T A P R I L F W A Q N F S V A Y K D E W K D L T
 S L T F G V E N L N L T G S F W N D S F A M L S L T Y E P L F G A T V T F K F I L A S R F Y P V S A R Y W F T M E R L E I H S N G S V A H F
 N V S Q V T G P S I Y S F H C E Y V S S L S K K G S L L V T N V P S L W Q M T L H N F Q I Q A F N V T G E Q F S Y A S D C A G F F S P G I W
 M G L L T T L F M L F I F T Y G L H M I L S L K T M D R F D D R K G P T I T L T Q I V

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

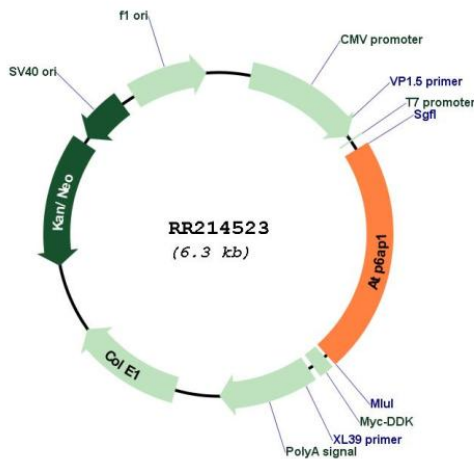
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_031785

ORF Size:

1389 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_031785.1](#), [NP_113973.1](#)

RefSeq Size: 2089 bp

RefSeq ORF: 1392 bp

Locus ID: 83615

UniProt ID: [O54715](#)

Cytogenetics: Xq37

MW: 51.1 kDa

Gene Summary: subunit of a vacuolar H(+)-ATPase complex [RGD, Feb 2006]