

Product datasheet for **RR206290**

Atp6v1b2 (NM_057213) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atp6v1b2 (NM_057213) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Atp6v1b2
Synonyms:	Atp6b1b2; Atp6b2; Vatb
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR206290 representing NM_057213
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCGTTGCGAGCGATGCGGGGAATCGTGAACGGGGCCGCGCCCGAGCTGCCCGTGCCACCGGTGGG
 CGATGGCCGGAGCTCGGGAGCAGGCGCTGGCGGTGAGCCGGAACCTCTCCAGCCTCGTCTCACCTA
 CAAGACTGTCTCTGGAGTGAATGGTCCACTAGTGATCTTAGATCATGTAAAGTTTCCAGATATGCTGAG
 ATTGTCCACTTGACATTACCAGATGGCACAAGAAAGTGGCAAGTTCTAGAAGTTAGTGGCTCCAAAG
 CCGTGGTTCAGGTATTTGAAGGAACATCCGGCATAGATGCCAAGAAAACATCCTGTGAGTTTACTGGAGA
 TATTCTCCGCACACCAGTGTCTGAGGATATGCTTGGTTCGAGTATTCAATGGATCAGGAAAACCCATTGAC
 CGAGGCTCTGTGGTGTGGCCGAAGACTTCCTTGACATCATGGGTGAGCCAAATCAACCCTCAGTGTGCGA
 TCTACCCAGAAGAGATGATTCAGACGGGCAATTTGCCATCGATGGCATGAACAGTATTGCGAGGGGACA
 GAAAATCCCATCTTTCTGCTGCGGGTTACCACACAACGAGATTGCAGCTCAGATCTGTGCCAGGCT
 GGTGGTAAAGAAATCCAAAGACGTGGTAGACTACAGTGAAGAAAACCTTGCCATTGTGTTTGGCTGCTA
 TGGGAGTAAACATGGAACAGCCCGGTTCTCAATCTGACTTTGAAGAAAATGGCTCAATGGACAATGT
 CTGCCTTTTCTTGAATCTGGCTAATGACCAACTATCGAGAGGATCATCACTCCTCGCCTGGCTCTGACC
 ACCGCTGAGTTTCTGGCTTACCAGTGTGAGAAGCATGCTCTGGTCATCCTGACAGATAGAGTTCTTACG
 CTGAAGCACTTCGAGAGGTTTTCAGTGCAGGGAAGAGGTTCTGGTTCGGCGAGGCTTCCCGGCTACAT
 GTATACGATTTAGCCACCATCTATGAACGCGCTGGGCGAGTGAAGGTAGAAAATGGCTCTATTACCCAA
 ATCCCTATTCTCACCATGCCAATGATGATCACTCATCCTATCCCTGACTTGACTGGGTATATTACTG
 AGGGCCAGATCTATGTGGACAGACAGTGCACAACAGACAGATTTACCCTCTATTAATGTGCTGCCCTC
 ACTCTCTCGGTTAATGAAGTCAGCTATTGGAGAAGGAATGACCAGGAAGGATCATGCTGATGTGTCTAAC
 CAGTTGTACGCATGCTATGCTATCGGTAAGGATGTGCAAGCCATGAAAGCTGTGGTGGGAGAAGAAGCCC
 TGACCTCAGATGACCTCCTTTACTTGGAAATTTCTGCAGAAGTTTGAAGAAAATTCATTACTCAGGGTCC
 CTATGAAAATCGAACTGTCTATGAGACTTTGGACATTGGCTGGCAGTTGCTTCGAATCTTCCCAAAGAA
 ATGCTGAAGAGGATCCCTCAGAGTACCCTGAGCGAATTTACCCTCGAGACTCTGCAAAGCAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR206290 representing NM_057213
 Red=Cloning site Green=Tags(s)

MALRAMRGIVNGAAPPELVPVTTGGPMAGAREQALAVSRNYLSQPRLTYKTVSGVNGPLVILDHVKFPRYAE
 IVHLTLPDGTKRSGQVLEVSGSKAVVQVFEGTSGIDAKKTSCEFTGDILRTPVSEDMLGRVFNNGSGKPID
 RGPVVLAEFDLIMGQPINPQCRIYPEEMIQTGISAIDGMNSIARGQKIPFSAAGLPHNEIAAQICRQA
 GLVKKSKDVVDYSEENFAIVFAAMGVNMETARFFKSDFEENGSMNDVCLFLNLANOPTIERIITPRLAL
 TAEFLAYQCEKHVILVILDMSSYAEALREVSAREEVPGRRGFPGYMYDLATIYERAGRVEGRNGSITQ
 IPILTMPNDDITHPIPDLTGYITTEGQIYVDRQLHNRQIYPPINVLPSLSRLMKSATGEGMTRKDHADVSN
 QLYACYAIGKDVQAMKAVVGEEALTSDDLLEYLFLQKFEKNFITQGPYENRTVYETLDIGWQLLRIFPKE
 MLKRIPQSTLSEFYPRDSAKH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

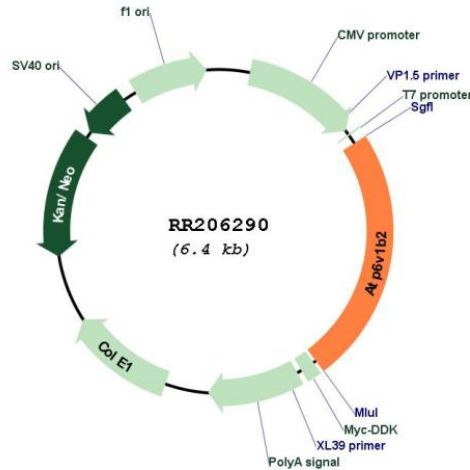
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_057213

ORF Size: 1533 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_057213.2](#), [NP_476561.1](#)

RefSeq Size: 2717 bp

RefSeq ORF: 1536 bp

Locus ID: 117596

UniProt ID: [P62815](#)

Cytogenetics: 16p14

MW: 56.6 kDa

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