

Product datasheet for **RR200745**

Atp6v1c2 (NM_001014199) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Atp6v1c2 (NM_001014199) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Atp6v1c2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR200745 representing NM_001014199
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGTCGGAGTTTTGGCTTATTTCCGGCCCTGGCGATAAGGAAAATTTACAAGCTCTGGAGAGGATGAACA
 GCGTAACTCAAAGTCTAACCTGTCCCACAACACTAAATTTGCCATCCCAGACTCAAGGTGGGACCTT
 GGATCCCTTGTGGTCTCTGATGAGTTGGGAAACTCGATACCTTTGCTGAAAGCCTCATAAAGAGA
 ATGGCACAGAGTGTGGTGGAGGTGATGGAAGACTCCAAGGAAAAGTACACGAGAACCTCCTGGCTAATG
 GAGTTGACCTGACATCCTTTGTGACACACTTCGAGTGGGACATGGCCAAATATCCTGCCAAGCAGCCACT
 GGTGAGCGTGGTGGATACACTGGCCAAGCAACTGGCACAAATCGAGACAGACCTGAAGTCGCGAACAGCC
 GCCTACAGTGTCTGAAGGCCAACCTGGAGAACTTGGAGAAGAAATCCACGGGGAACCTCTTCACTCGGA
 CACTGAGTGATATTGTCAGCAAGGAAGACTTCGTAAGTCTGATTCGAATATCTCATAACCCGCTGGTGCAT
 CGTCCCAAGTCAAGCTATGTACAGTGGCAGAAGACATATGAGTCCCTATCGGACATGGTGGTCCCTCGG
 TCAACCAAATGATCGCTGAGGACAATGAAGTGGTCTCTTACAGTACTCTTTCCGAAAAGTGATTG
 AAGACTTCAAAGTCAAAGCCAAAGAAAACAAGTTCATTGTCCGGGAATTTACTATGATGAGAAAAGAAAT
 TAAAAGAGAGAGGGAAGAGATGACCAGGTTGCTGTCTGATAAGAAAACAACAGTATCAAATTCCTGTGTT
 GCTCTTAAAAAGGGATCAGCCACCTACCGTGACCACAAGGTTAAGGTAACCCCGTAGGTAACCCCTACTA
 GGCTACTGCGGGGCAGAACGACAGAGAGAGTGGGGCGAGGGTGGGGACCTCTGCTGCGCTGGCTCAA
 GGTGAAGTTCAGCGAGGCCTTTATTGCCTGGATCCACATAAAGGCCCTGAGAGTGTGGTGGAGTCTGTG
 CTCAGGTATGGACTTCCAGTGAAGTCCAGGCTGTGCTCCTGCAGCCCCATAAAAAGTCTGCCACCAAC
 GCCTGAGAGAGGTGCTCAATTCGGTCTTCCGGCACCTGGATGAAGTGTGCTGCAGCAAGCATACTGGATGC
 ATCCGTGGAGATCCCTGGCTGCAGCTCAGCAACCAGGACTATTTCCCTACGTGTAATCCACATCGAC
 CTCAGCCTTCTTGAC

ACGCGTACGCGGCCGCTCGAGCAGAAAACATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR200745 representing NM_001014199
Red=Cloning site Green=Tags(s)

MSEFWLISAPGDKENLQALERMNSVTSKSNLSHNTKFAIPDFKVGTLDSLVLGSDDELGKLDTFAESLIKR
 MAQSVVEMEDSKGKVHENLLANGVDLTSFVTHFEWDMAKYPAKQPLVSVVDTLAKQLAQIETDLKSRTA
 AYSVLKANLENLEKKSTGNLFRTLSDIVSKEDFVLDSEYLITLLVIVPKSSYVQWQKTYESLSDMVVPR
 STKLI AEDNEGLFTVTFLFRKVIEDFKVKAKENKFIVREFYDDEKEIKREREEMTRLLSDKKQYQTSV
 ALKKGSATYRDHKVKVTPPLGNPTRPTAGQNDRESEGEGERLLRWLKVNFSEAFIAWIHIKALRVFVESV
 LRYGLPVNFQAVLLQPHKKSATKRLREVLNSVFRHLDEVAASILDASVEIPGLQLSNQDYFPYVYFHID
 LSLLD

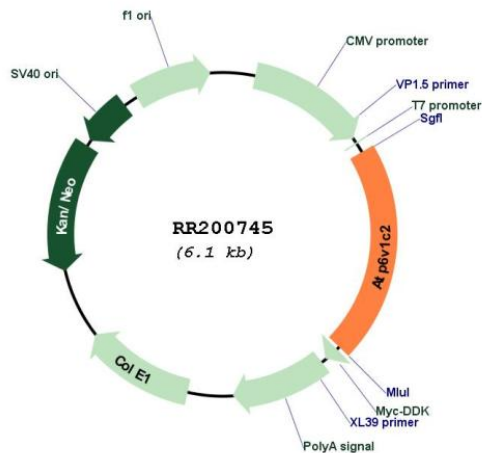
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001014199
ORF Size:	1275 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:	<ol style="list-style-type: none">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_001014199.1 , NP_001014221.1
RefSeq Size:	1595 bp
RefSeq ORF:	1278 bp
Locus ID:	362802
UniProt ID:	Q6AYE4
Cytogenetics:	6q16
MW:	48.2 kDa
Gene Summary:	Subunit of the peripheral V1 complex of vacuolar ATPase. Subunit C is necessary for the assembly of the catalytic sector of the enzyme and is likely to have a specific function in its catalytic activity. V-ATPase is responsible for acidifying a variety of intracellular compartments in eukaryotic cells.[UniProtKB/Swiss-Prot Function]