

## Product datasheet for **RR207383**

### Atp6v1c1 (NM\_001011992) Rat Tagged ORF Clone

#### Product data:

|                          |  |
|--------------------------|--|
| Product Type:            | Expression Plasmids  |
| Product Name:            | Atp6v1c1 (NM_001011992) Rat Tagged ORF Clone                                   |
| Tag:                     | Myc-DDK  |
| Symbol:                  | Atp6v1c1   |
| Synonyms:                | MGC109315  |
| Vector:                  | pCMV6-Entry (PS100001)   |
| E. coli Selection:       | Kanamycin (25 ug/mL)   |
| Cell Selection:          | Neomycin   |
| ORF Nucleotide Sequence: | >RR207383 representing NM_001011992<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGACTGAGTTCTGGCTGATATCTGCTCCTGGGGAGAAAACCTGTCAGCAAACATGGGAGAACTACATG  
CAGCGACCACCAAGAACAATAACCTTGCTCTCTTCCAAGTTCAACATTCCTGACTTAAAGTTGGCAC  
GTTGGATGTCTTGGTTGGCTTGTGGGATGAAGTAACTGGATGCATTTGTAGAAGGGTGGTCAAG  
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GTGGAGTTGACTTGGTCACTTACATAACAAGGTTCCAGTGGGATATGGCCAAATATCCAATCAAGCAGTC  
TCTGAAAAATATCTCTGAAATAATTGCCAAGGGAGTGACTCAGATTGATAATGACCTAAAGTCTCGGGCG  
TCTGCATACAATAACCTGAAAGGGAATCTCAGAATTTGGAGCGAAAGAATGCGGGAAAGTTACTAACT  
GAAGCCTGGCGGAAATTTGAAGAAAGATGACTTTGTTCTTGATTCGGAGTATCTTGTACATTATTGGT  
GGTAGTCCCAAGTTGAACCACAATGACTGGATTAAGCAGTATGAAACACTTGCAGAAATGGTAGTACCA  
AGGTCGAGCAATGTTCTTTCAGAGGACCAAGACAGTTATCTTTGTAACGTCACCTTGTTAAAAAAGCAG  
TTGATGATTTTCAGACACAAAGCCAGAGAAAACAAGTTCATCGTCCGTGACTTCCAGTATAACGAGGAGGA  
GATGAGAGCCGACAAAGAGGAGATGAACCGGCTGTCCACTGACAAGAAGAAGCAGTTTGGACCACTGTG  
CGGTGGCTTAAAGTGAATTTTCAGTGAGGCTTTATTGCGTGGATTCATATAAAAGCATTACGGGTTTTTG  
TGGAGTCTGTTTTAAGGTATGGCTTGGCGTGAACCTCCAAGCAATGCTCCTTCAACCTAATAAGAAATC  
AGTGAAGAAGCTAAGAGAAGTGTTCATGAGTTGTACAAGCATCTGGACAGCAGTGCAGCTGCCATCATT  
GATGCTCCTATGGATATTCCTGGCTGAACCTGAGTCAGCAAGAATACTACCCCTATGTGTACTACAAGA  
TTGATTGCAACTGCTGGAATTCAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR207383 representing NM\_001011992  
Red=Cloning site Green=Tags(s)

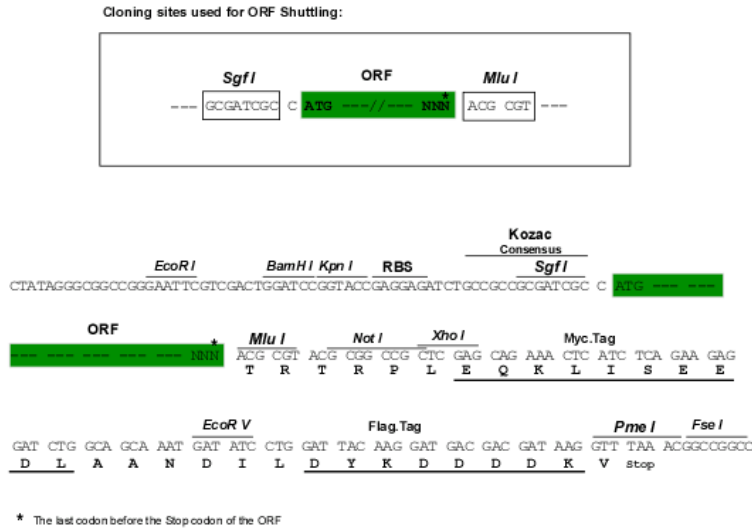
MTEFWLISAPGEKTCQQTWEKLHAATTKNNNLAVSSKFNIPDLKVGTLVDLVGLSDELAKLDAFVEGVVK  
 KVAQYMADVLEDSKDKVQENLLASGVDLVITYITRFQWDMAYPIKQSLKNISEIIAKGVTQIDNDLKSRA  
 SAYNNLKGNLQNLERKNAGSLLTRSLAEIVKKDDFVLDSEYLVTLVVVVKLNHNDWIKQYETLAEMVVP  
 RSSNVLSEDDQSYLCNVTLFKKAVDDFRHKARENKFIVRDFQYNEEEMRADKEEMNRLSTDKKKQFGPLV  
 RWLKVNFSEAFIAWIIHICALRVFVESVLRYGLPVNFQAMLLQPNKKS VKKLREVLHELKHL DSSAAAI I  
 DAPMDIPGLNLSQQEYYPVYKIDCNLLEFK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

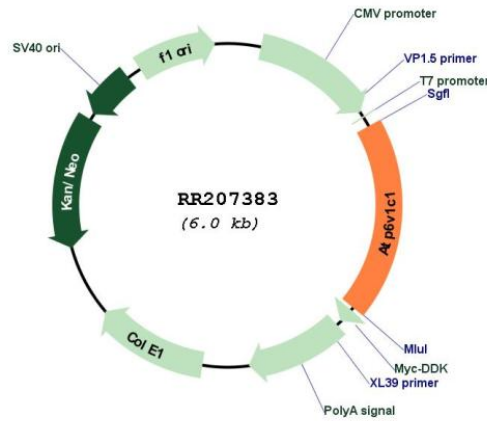
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001011992

|                               |   |
|-------------------------------|---|
| <b>ORF Size:</b>              | 1146 bp   |
| <b>OTI Disclaimer:</b>        | 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. <a href="#">More info</a>  |
| <b>OTI Annotation:</b>        | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.  |
| <b>Components:</b>            | 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).  |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol> |
| <b>RefSeq:</b>                | <a href="#">NM_001011992.1</a> , <a href="#">NP_001011992.1</a>   |
| <b>RefSeq Size:</b>           | 1785 bp   |
| <b>RefSeq ORF:</b>            | 1149 bp   |
| <b>Locus ID:</b>              | 299971  |
| <b>UniProt ID:</b>            | <a href="#">Q5FVI6</a>  |
| <b>Cytogenetics:</b>          | 7q22  |
| <b>MW:</b>                    | 43.9 kDa  |
| <b>Gene Summary:</b>          | 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 (By similarity).[UniProtKB/Swiss-Prot Function]  |