

Product datasheet for **RR202026**

Atp6v1d (NM_199386) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Atp6v1d (NM_199386) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Atp6v1d
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR202026 representing NM_199386
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGGGCAAAGACCGGATTGAAATCTTCCCTTCGCGAATGGCACAGACCATCATGAAGGCTCGGTTAA
AAGGAGCACAGACTGGTCGAAACCTCCTGAAGAAAAAGTCTGATGCCTAACTCTTCGATTCGACAGAT
CCTGAAGAAGATAATAGAGACTAAGATGCTGATGGGTGAGGTGATGAGAGAAGCTGCCTTCTCATTGGCT
GAGGCCAAATTCACAGCAGGGGACTTCAGCACCACAGTTATACAAAATGTAATAAAGCCAGGTGAAGA
TCCGAGCAAAGAAAGACAATGTAGCAGGTGTCACCTTACCAGTGTGTTGAACATTACCACGAAGAACTGA
CAGCTATGAACTAACCGTTTAGCCAGAGGTGGGAGCAGCTGGCGAACTTAAGCGAATTATGCCAAA
GCAGTGGAACTACTGGTGAAGTGGCTTCCCTGCAGACTTCCTTTGTTACTCTGGATGAAGCCATTAAGA
TAACCAACAGGCGTGAATGCTATTGAGCATGTCATCATTCCCCGATTGAACGCACCCTTGCTTATAT
CATCACAGAACTGGATGAGAGAGAGCGAGAAGAATTCTATAGGTTAAAGAAAATCCAGGAGAAGAAAAG
ATTATCAAGGAGAAAAGCGAGAAGGACTTGGAGCGCGGAGAGCAGCTGGAGAGGTGATGGAGCCCGCCA
ACCTCCTGGCGGAAGAGAAGGACGAGGACCTGCTGTTTCGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR202026 representing NM_199386
Red=Cloning site Green=Tags(s)

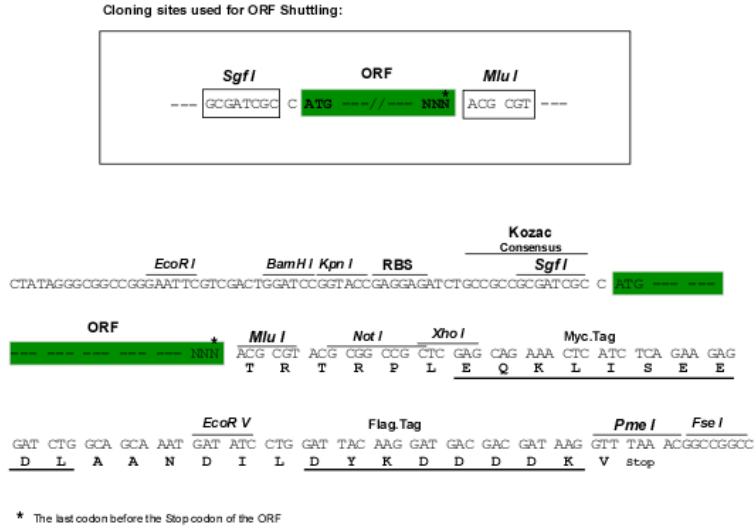
MSGKDRIEIFPSRMAQTIMKARLKGAQTGRNLLKKKSDALTLRFRQILKKIETKMLMGEVMREAAFLA
EAKFTAGDFSTTVIQNVNKAQVKIRAKKDNVAVTLPVFEHYHEGTDSYELTGLARGGEQLAKLKRNYAK
AVELLVELASLQTSFVTLDEAIKITNRRVNAIEHVIIIPRIERTLAYIITELDEREREFEYRLKKIQEKKK
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

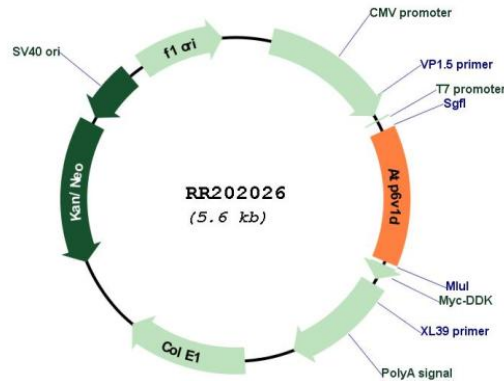


Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_199386

ORF Size: 741 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:	<u>NM_199386.2</u> , <u>NP_955418.1</u>
RefSeq Size:	1328 bp
RefSeq ORF:	744 bp
Locus ID:	299159
Cytogenetics:	6q24
MW:	28.3 kDa
Gene Summary:	mouse homolog is subunit D of vacuolar (V-)ATPase; mediates acidification of intracellular organelles for processes such as protein sorting and receptor-mediated endocytosis [RGD, Feb 2006]