

Product datasheet for **RR214141**

Atp6v0d2 (NM_001011972) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Atp6v0d2 (NM_001011972) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Atp6v0d2
Synonyms: MGC109196
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR214141 representing NM_001011972
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCTTGAGACGGCAGAGCTGTACTTCAATGTGGACCATGGCTACCTGGAGGGCCTGGTGCAGGGTGCA
AAGCCAGCCTCCTAACTCAGCAGGACTATGTCACTTAGTGCAGTGTGAGACCTTGAAGATTTGAAAT
TCATCTCCAGACCACTGACTATGGCAACTCCTGGCTCATGAAACAAACCCTCTCACTGTTCCAAAAT
GACACGGAGATGAGGAAGAAGCTATGCAGAGAGTTTGACTATTTCCGAAATCATTCTTGGAGCCCTCA
GCACATTTTTACCTACATGACGTGCAGCTATATGATAGACAACATAATTCTACTGATGAATGGGGCATT
GCAAAAGAAATCCGTGAAAGAAGTTCTAGCCAAGTGTACCCATTGGGCCGTTCACTGAAATGGAAGCC
GTCAACATTGCAGAGAGCGCCTCAGAGCTTTCAAGGCTGTGCTGGTTGAAACACCATTAGCTCCATTCT
TCCAAGATTGTATGTCTGAAAATACTCTTGATGAACTGAATATTGAATTACTGCGCAATAAACTATACAA
GTCTTACCTCGAGGCATTCTACAAATCTGCAAGGATCACGGTGTGTACAGCAGAAGTTATGTGTCC
ATTCTTGAGTTTGAGGCCGACAGACGCGCTTAAATCATCACTCTGAACTCATTGGCACTGAACTGAGCA
AAGAAGACAGGGAGACCCTTTCCACCTGCGCAAGCTCTATCCGGAGGGACTGCGGCTGTTAGCCCA
AGCCGAAGACTTCGAGCACATGAAGAGAGTGGCAGATAATTACGGAGTTTACAAGCCTTTGTTTGACGCC
GTAGGTGGCAGTGGGGAAAGACACTGGAAGATGTTTTCTATGAGCGAGAGGTACAGATGAATGTCTGG
CGTTCAACAGGCAATCCACTATGGTGTGTTTTATGCCTATGTAAAGTTGAAGGAGCAGGAGATGAGAAA
TATCGTGTGGATAGCAGAATGCATCTCACAGCGACATCGAACTAAATCAACAGCTACATTCCAATTTTA

ACGGTACGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR214141 representing NM_001011972
Red=Cloning site Green=Tags(s)

MLETAELYFNVDHGYLEGLVRGCKASLLTQQDYVNLVQCETLEDLKIHLQTTDYGNFLAHEHNPLTVSKI
 DTEMRKKLCREFDYFRNHSLEPLSTFFTYMTCASYMIDNILLMNGALQKKSVEVLAKCHPLGRFTEMEA
 VNIAESASELFKAVLVEVPLAPFFQDCMSENTLDELNIELLRNKLYKSYLEAFYKFCKDHGDVTAEMVCP
 ILEFEADRRALIIITLNSFGTELSKEDRETLFPTCGKLYPEGLRLLAQAEDFEHMKRVADNYGVYKPLFDA
 VGGSGGKTLIEDVFYEREVQMNVLAFNRQFHYGVFYAYVKLKEQEMRNIVWIAECISQRHRTKINSYIPIL

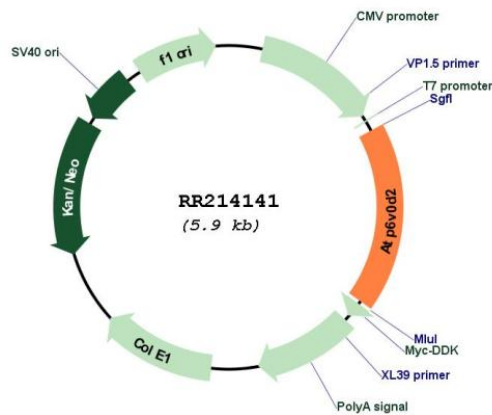
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001011972

ORF Size: 1050 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_001011972.1 , NP_001011972.1
RefSeq Size:	1330 bp
RefSeq ORF:	1053 bp
Locus ID:	297932
UniProt ID:	Q5FVL0
Cytogenetics:	5q13
MW:	40.5 kDa
Gene Summary:	Subunit of the integral membrane V0 complex of vacuolar ATPase. Vacuolar ATPase is responsible for acidifying a variety of intracellular compartments in eukaryotic cells, thus providing most of the energy required for transport processes in the vacuolar system. May play a role in coupling of proton transport and ATP hydrolysis (By similarity). [UniProtKB/Swiss-Prot Function]