

## Product datasheet for **RN214141**

### Atp6v0d2 (NM\_001011972) Rat Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Atp6v0d2 (NM\_001011972) Rat Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Atp6v0d2  
**Synonyms:** MGC109196  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >RN214141 representing NM\_001011972  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGCTTGAGACGGCAGAGCTGTACTTCAATGTGGACCATGGCTACCTGGAGGGCCTGGTGCAGGGTGCA  
AAGCCAGCCTCCTAACTCAGCAGGACTATGTCACTTAGTGCAGTGTGAGACCTTGAAGATTTGAAAT  
TCATCTCCAGACCACTGACTATGGCACTTCTGGCTCATGAAACAAACCCTCTCACTGTTCCAAAATT  
GACACGGAGATGAGGAAGAAGCTATGCAGAGAGTTTGACTATTTCCGAAATCATTCTTGGAGCCCTCA  
GCACATTTTTACCTACATGACGTGCAGCTATATGATAGACAACATAATTCTACTGATGAATGGGGCATT  
GCAAAAGAAATCCGTGAAAGAAGTTCTAGCCAAGTGTACCCATTGGGCCGTTCACTGAAATGGAAGCC  
GTCAACATTGCAGAGAGCGCCTCAGAGCTTCAAGGCTGTGCTGGTTGAAACACCATTAGCTCCATTCT  
TCCAAGATTGTATGTCTGAAAATACTCTTGATGAACTGAATATTGAATTACTGCGCAATAAACTATACAA  
GTCTTACCTCGAGGCATTCTACAAATCTGCAAGGATCACGGTGTGTCACAGCAGAAGTTATGTGTCC  
ATTCTTGAGTTTGAGGCCGACAGACGCGCTTAAATCATCACTTGAACCTATTTGGCACTGAACTGAGCA  
AAGAAGACAGGGAGACCCTTCCCCACCTGCGCAAGCTCTATCCGGAGGGACTGCGGCTGTTAGCCCA  
AGCCGAAGACTTCGAGCACATGAAGAGAGTGGCAGATAATTACGGAGTTTACAAGCCTTTGTTTGACGCC  
GTAGGTGGCAGTGGGGAAAGACACTGGAAGATGTTTTCTATGAGCGAGAGGTACAGATGAATGTCTGG  
CGTTCAACAGGCAATCCACTATGGTGTGTTTTATGCCTATGTAAGTTGAAGGAGCAGGAGATGAGAAA  
TATCGTGTGGATAGCAGAATGCATCTCACAGCGACATCGAACTAAAATCAACAGCTACATTCCAATTTTA  
TAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001011972



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<b>Insert Size:</b>	1053 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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>	<u><a href="#">NM_001011972.1</a></u> , <u><a href="#">NP_001011972.1</a></u>
<b>RefSeq Size:</b>	1330 bp
<b>RefSeq ORF:</b>	1053 bp
<b>Locus ID:</b>	297932
<b>UniProt ID:</b>	<u><a href="#">Q5FVL0</a></u>
<b>Cytogenetics:</b>	5q13
<b>Gene Summary:</b>	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]