

## Product datasheet for MC213142

### Atp6v0d2 (NM\_175406) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Atp6v0d2 (NM\_175406) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Atp6v0d2  
**Synonyms:** 1620401A02Rik; AI324824; V-ATPase  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC213142 representing NM\_175406  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGCTTGAGACTGCAGAGCTGTACTTCAATGTGGACCATGGCTACCTGGAGGGCCTGGTTCGAGGATGCA  
AAGCCAGCCTCCTAACTCAGCAGGACTATGTCAACCTAGTGCAGTGTGAGACCTTGAAGACCTGAAAAT  
TCATCTCCAGACCACGGACTATGGCAACTCCTGGCTAATGAAACAAATCCTCTCACTGTTCCAAAATT  
GACACGGAGATGAGGAAGAAGCTCTGCAGAGAGTTTGACTATTTCCGGAATCATTCTTGGAGCCCTGA  
GCACATTTCTCACCTACATGACATGCAGCTATATGATAGACAATAAATTCTACTTATGAATGGGCCTT  
GCAAAAGAAAATCTGTGAAAGAAGTTCTAGCCAAGTGTCAACCCACTGGGCCGTTTCACAGAGATGGAAGCT  
GTCAACATTGCAGAGACCCCTCAGATCTTTCAAGGCTGTGCTGGTTGAAACACCATTAGCTCCATTCT  
TTCAAGATTGTATGTCTGAAAACACTCTTGATGAACTGAATATTGAATTACTGCGCAATAAACTATACAA  
GTCTTACCTTGAGGCATTCTACAAATCTGCAAGGATCACGGTGTGTACAGCAGACGTTATGTGTCC  
ATCTTGAGTTTGAGGCCGACAGACGCGCTTAAATCATCACTTGAACCTATTTGGCACTGAACTAAGCA  
AAGAAGACAGGGAGACCCTTTCCACACTGCGCAGGCTCTATCCAGAGGGGTTGCGGTTGTTAGCTCA  
AGCTGAAGACTTTGAGCAGATGAAGAGAGTGGCAGATAATTATGGAGTTTACAAGCCTTTGTTGACGCT  
GTCGGTGGCAGTGGGGGGAAGACACTGGAAGACGTTTTCTATGAGAGAGAGGTACAGATGAATGTCTGG  
CATTCAACAGGCAATTCCATTATGGTGTGTTTTATGCGTATGTAAGTTGAAGGAGCAAGAGATGAGAAA  
TATCGTGTGGATAGCAGAATGCATCTCACAGAGGCATCGAACTAAAATCAACAGCTACATTCCAATTTTA  
TAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_175406



<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>NM_175406.3, NP_780615.2</u>
<b>RefSeq Size:</b>	2518 bp
<b>RefSeq ORF:</b>	1053 bp
<b>Locus ID:</b>	242341
<b>UniProt ID:</b>	<u>Q80SY3</u>
<b>Cytogenetics:</b>	4 A3
<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 (By similarity). May play a role in coupling of proton transport and ATP hydrolysis. Regulator of osteoclast fusion and bone formation.[UniProtKB/Swiss-Prot Function]