

## Product datasheet for **MC203340**

### **Atp6v1b1 (NM\_134157) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Atp6v1b1 (NM_134157) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Atp6v1b1
Synonyms:	Atp6b1; AW208839; D630003L15; D630030L16Rik; D630039P21Rik; Vpp-3; Vpp3
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC062202  
 CAGGCACTAGCTCCCAGCTCTCCACACGCCATGGCCACAACAGTAGACAGGTCTCGGGATCACTGGCA  
 ATAGCTGTGACCCAGGCACAGCCCAAGAGCATGTGCAGGCTGTGACCCGAAACTACATCACCCACCCACG  
 AGTCACCTATAGGACAGTGTGCAGCGTCAATGGCCTCTGGTGGTGTGGACCAGGTCAAGTTTGCCAG  
 TATGCTGAGATTGTCAACTTTACCCTCCCTGATGGTACTCAGAGGAGTGGCCAGGTGCTTGAAGTGGCTG  
 GGACCAAGGCCATTGTTCAAGTGTGTTGAAGGGACTTCAGGGATTGATCCCAGAAGACCACATGTGAATT  
 CACAGGGGACATCCTGCGGACTCCTGTGTGAGGACATGCTGGTCCGATTTTCAATGGCTCTGGCAAA  
 CCCATTGACAAAGGACCTGCTGTGATGGCAGAGGAGTTTCTGGACATCAATGGCCAGCCAATCAATCCCC  
 ATGACCGAATCTACCCCGAGGAGATGATCCAGACGGGAATCTCCCCATTGATGTCATGAACAGCATCGC  
 TCGTGGCCAGAAGATCCCCTCTCTCTGCGGCTGGGCTCCCCACAATGAGATTGCAGCCAGATCTGC  
 CGCAAGCCGGGCTGGTGAAGAAATCCAAGGCTGTGCTGGATTATCATGAAGACAACCTTCGCCATTGTCT  
 TTGCAGCCATGGGGTGAACATGGAGACAGCCAGGTTCTTCAAGTCAGATTTGAGCAGAATGGAACCAT  
 GGGAAATGTCTGTCTCTTCTGAATTTGGCCAATGACCCTACGATTGAGCGGATCATCACGCCACGCTG  
 GCACTGACCACGGCTGAGTTCCTTGCTACCAGTGTGAGAAGCACGTGCTGGTGATACTGACTGACATGA  
 GCTCCTATGCGGAGGCCTTGCGGGAGGTCAGCTGCCCGGAGGAAGTGCCAGGACGCCGTGGCTTTCC  
 TGGATATATGTACACAGACTTGGCCACCATCTATGAGCGAGCTGGCCGTGTGGAGGGCCGGGGTGGTTCC  
 ATCACCCAGATCCCCATTCTCACCATGCCTAATGATGATATCACCCATCCCATCCCAGACTTGACTGGCT  
 TCATCACAGAGGGGACAGATTTATGTGGACCGACAGCTACATAACCCGCGAGGTCTACCCACCCATCAATGT  
 GCTCCCATCCCTCTCGCGACTGATGAAGTCGGCCATAGGCGAGGGCATGACCAGAAAGGACCACGGAGAT  
 GTCTCAAACACAGCTGTACGCCTGTACGCCATCGGGAAGGACGTGCAGGCCATGAAAGCGGTGGTGGGGG  
 AGGAGGCGCTCACCTCCGAGGACCTGCTACTCGGAGTTCCTGCAGAAGTTTGAGAAGAATTTATCAC  
 CCAAGTCTTACGAGAACCACGCGTTCGAGTCGCTGGACCTGGGCTGGAACTGCTGCGCATCTTT  
 CCGAAAGAGATGCTGAAGCGCATTCCGACAGCATGACGGACGAGTTCTACTCTCGCCAGGGGGCGCAGC  
 AGGACCCCGCATCCGACACGGCGCTCTAAATCAATCCCCAGCTGCAGCCTTCTCCTTTATGGCTGAACC  
 CATGTTTTATGCCTACATTGACAGGAGTGTCTTTGGTGTAGGTGGTGGTGGGCTTTTTTTCTTTAG  
 GGGCTTTTGGAGAATGGAAGCGGCGAGGGGGAGGGATATTAAGCAGGCACTTACTCCACCTCAGTCT  
 ATATATTTATTATAGAAGCCCCGCTCCAAAGATGTAAGTGAATGGAAAACAAAATAGTAACTGAGATG  
 AATTTGTCTCTAGTGA AAAACAAGATTGGGAATAATTTGTAACTGTTGAAGGTGCAGATTATCATGTG  
 GTTTGTAAAAGTATTTTTAA  
 AA

**Restriction Sites:** RsrII-NotI

**ACCN:** NM\_134157

**Insert Size:** 1539 bp

**OTI Disclaimer:** 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).

**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:**
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: [BC062202](#), [AAH62202](#)

RefSeq Size: 1993 bp

RefSeq ORF: 1539 bp

Locus ID: 110935

UniProt ID: [Q91YH6](#)

Cytogenetics: 6 35.94 cM

**Gene Summary:** Non-catalytic subunit of the V1 complex of vacuolar(H<sup>+</sup>)-ATPase (V-ATPase), a multisubunit enzyme composed of a peripheral complex (V1) that hydrolyzes ATP and a membrane integral complex (V0) that translocates protons (PubMed:16174750, PubMed:23028982). V-ATPase is responsible for acidifying and maintaining the pH of intracellular compartments and in some cell types, is targeted to the plasma membrane, where it is responsible for acidifying the extracellular environment (By similarity). Essential for the proper assembly and activity of V-ATPase (By similarity). In renal intercalated cells, mediates secretion of protons (H<sup>+</sup>) into the urine thereby ensuring correct urinary acidification (PubMed:16174750). Required for optimal olfactory function by mediating the acidification of the nasal olfactory epithelium (PubMed:23028982).[UniProtKB/Swiss-Prot Function]