

## Product datasheet for **MR208205**

### **Atp6v1b2 (NM\_007509) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Atp6v1b2 (NM_007509) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Atp6v1b2
Synonyms:	A1194269; A1790362; Atp6b2; HO57; R74844
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR208205 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCGTTGCGAGCGATGCGGGGAATCGTGAACGGGGCCGACCCGAACCTGCCCGTCCACCGGTGGG  
 CGATGGCCGAGCTCGGGAGCAGGCGCTGGCGGTGAGCCGGAACCTACCTATCCCAGCCTCGTCTCACCTA  
 CAAGACTGTCTCTGGGGTGAATGGTCCACTAGTGATCCTAGATCATGTGAAGTTTCCAGATACGCTGAG  
 ATTGTCCACTTGACATTACCAGATGGCACAAGAGAAGTGGCAAGTCTAGAAGTTAGTGGCTCCAAAG  
 CAGTGGTTCAGGTATTTGAAGGGACATCTGGTATAGACGCCAAGAAAACATCCTGTGAGTTTACTGGAGA  
 TATTCTCCGAACACCAGTGTCTGAGGATATGCTTGGTTCGAGTATCAACGGATCAGGAAAACCCATTGAC  
 CGAGGCCCTGTGGTGTGGCTGAAGACTTCCTTGACATCATGGGTGAGCCCAATCAACCTCAGTGTCCGA  
 TCTATCCAGAAGAGATGATTCAGACGGGCATTTCCGCCATCGATGGCATGAACAGTATTGCTAGGGGACA  
 GAAAATCCCATCTTTTCTGCTGTGGATTACCACACAACGAGATTGCAGCTCAGATCTGTGCCAGGCT  
 GGTGGTAAAGAAATCCAAAGATGTAGTGGACTATAGTGAAGAAAATTTTGCCATTGTGTTTGGCTGCTA  
 TGGGAGTAAACATGGAACAGCCCGGTTCTTTAAATCTGACTTTGAAGAAAATGGCTCAATGGACAATGT  
 CTGCCTTTTTTGAATCTGGCTAATGACCAACCATTTGAGCGGATCATCACTCCTCGCCTGGCTCTGACC  
 ACGGCCGAGTTTCTGGCATATCAGTGTGAGAAGCACGTGCTGGTATCCTGACGGACATGAGCTCCTACG  
 CTGAAGCGCTGCGAGAGGTTTTCAGCTGCCAGGGAAGAGGTCCCTGGTGGCGAGGCTTCCAGGCTACAT  
 GTATACCGACTTAGCCACAATCTATGAACGTGCCGGTTCGAGTGAAGGTAGAAACGGCTCTATTACCCAA  
 ATCCCTATTCTCACCATGCCCAATGACGATATCACTCATCCCATCCCTGACTTACTGGGTACATTACTG  
 AGGGCCAGATCTATGTGGACAGACAGCTGCACAACAGACAGATTACCCCTCTATTAATGTGCTGCCCTC  
 ACTCTCTCGGTTAATGAAGTCAGCTATCGGAGAAGGAATGACCAGAAAGGATCACGCTGATGTGTCTAAC  
 CAGTTGTATGCGTGTATGCCATCGGTAAGGACGTGCAAGCCATGAAAGCCGTGGTGGGAGAGGAAGCCC  
 TGACCTCAGATGATCTCCTTTACCTGGAATTTCTGCAGAAGTTTGAAGAAGAACTTCACTACTCAGGGTCC  
 CTATGAAAACCGAACTGTTTATGAGACTTTGGACATTGGCTGGCAGTTGCTTCGAATCTTCCCAAAGAA  
 ATGCTGAAGAGAATCCCTCAGAGCACCTGAGCGAATTTTACCCTCGAGACTCTGCAAAACAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR208205 protein sequence  
 Red=Cloning site Green=Tags(s)

MALRAMRGIVNGAAPPELVPVTGGPMAGAREQALAVSRNYLSQPRLTYKTVSGVNGPLVILDHVKFPRYAE  
 IVHLTLPDGTKRSGQVLEVSGSKAVVQVFEGTSGIDAKKTSCEFTGDILRTPVSEDMLGRVFNNGSKPID  
 RGPVVLAEFDLIMGQPINPQCRIYPEEMIQTGISAIDGMNSIARGQKIPIFSAAGLPHNEIAAQICRQA  
 GLVKKSKDVVDYSEENFAIVFAAMGVNMETARFFKSDFEENGSMNDVCLFLNLANPTIERIITPRLALT  
 TAEFLAYQCEKHVILVILDMSSYAEALREVSAAAREEVPGRRFPGYMYTDLATIERAGRVEGRNGSITQ  
 IPILTMPNDIITHPIPDLTGYITEGQIYVDRQLHNRQIYPPINVLPSSLRLMKSALGEGMTRKDHADVSN  
 QLYACYAIGKDVQAMKAVVGEEALTSDDLLEYLFLQKFEKNFITQGPYENRTVYETLDIGWQLLRIFPKE  
 MLKRIQSTLSEFYPRDSAKH

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_007509

**ORF Size:** 1536 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:**

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\\_007509.3](#)

**RefSeq Size:** 2742 bp

**RefSeq ORF:** 1536 bp

**Locus ID:** 11966

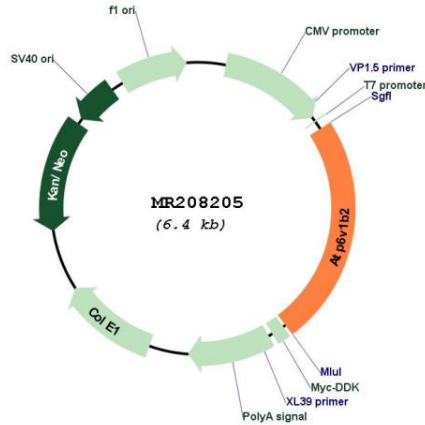
**UniProt ID:** [P62814](#)

**Cytogenetics:** 8 B3.3

**MW:** 56.6 kDa

**Gene Summary:** Non-catalytic subunit of the peripheral V1 complex of vacuolar ATPase. V-ATPase is responsible for acidifying a variety of intracellular compartments in eukaryotic cells. [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR208205