

Product datasheet for **MR208239**

Atp6v1b1 (NM_134157) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atp6v1b1 (NM_134157) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Atp6v1b1
Synonyms:	Atp6b1; AW208839; D630003L15; D630030L16Rik; D630039P21Rik; Vpp-3; Vpp3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208239 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCACAACAGTAGACAGCAGGTCTCGGGATTCACTGGCAATAGCTGTGACCCAGGCACAGCCCAAG
 AGCATGTGACAGGCTGTGACCCGAAACTACATCACCCACCCCGAGTCACCTATAGGACAGTGTGCAGCGT
 CAATGGGCCTCTGGTGGTCTGGACCAGGTCAAGTTTGCCAGTATGCTGAGATTGTCAACTTTACCCCTC
 CCTGATGGTACTCAGAGGAGTGGCCAGGTGCTTGAAGTGGCTGGGACCAAGGCCATTGTTAGGTGTTTG
 AAGGGACTTCAGGGATTGATCCAGAAGACCACATGTGAATTCACAGGGGACATCCTGCGGACTCCTGT
 GTCAGAGGACATGCTGGTGGATTTTCAATGGCTCTGGCAAACCCATTGACAAAGGACCTGCTGTCATG
 GCAGAGGAGTTTCTGGACATCAACGGCCAGCCAATCAATCCCATGACCGAATCTACCCGAGGAGATGA
 TCCAGACGGGAATCTCCCCATTGATGTCATGAACAGCATCGCTCGTGGCCAGAAGATCCCATCTTCTC
 TCGGGCTGGGCTCCCCACAATGAGATTGACGCCAGATCTGCCGCAAGCCGGGCTGGTGAAGAAATCC
 AAGGCTGTGCTGGATTATCATGAAGACAATTCGCCATTGTCTTTGCAGCCATGGGGGTGAACATGGAGA
 CAGCCAGGTTCTTCAAGTCAGATTTGAGCAGAATGGAACCATGGGAAATGTCTGTCTTCTTCTGAATTT
 GGCCAATGACCCTACGATTGAGCGGATCATCACGCCACGTCTGGCACTGACCACGGCTGAGTTTCTTGCC
 TACCAGTGTGAGAAGCACGTGCTGGTGATACTGACTGACATGAGCTCCTATGCGGAGGCCTTGGGGAGG
 TCTCAGCTGCCCGGAGGAAGTCCAGGACGCCGTGGCTTTCTGGATATATGTACACAGACTTGGCCAC
 CATCTATGAGCGAGCTGGCCGTGGAGGGCCGGGTGGTTCCATCACCCAGATCCCATTTCTACCATG
 CCTAATGATGATACCCATCCCATCCAGACTTGACTGGCTTCCATCACAGAGGGGAGATTTATGTGA
 ACCGACAGCTACATAACCGGCAGGTCTACCCACCATCAATGTGCTCCATCCCTCTCGGACTGATGA
 GTCGGCCATAGGCGAGGGCATGACCAGAAAGGACCACGGAGATGTTTCCAACAGCTGTACGCCTGCTAC
 GCCATCGGGAAGGACGTGACAGGCCATGAAAGCGGTGGTGGGGAGGAGGCGCTCACCTCCGAGGACCTGC
 TCTACCTGGAGTTCTGCAGAAGTTTGAAGAATTTTCATCACCCAAGTCTTACGAGAACCGCACGGT
 GTTCGAGTCGCTGGACCTGGGCTGGAACTGCTGCGCATCTTCCGAAAGAGATGCTGAAGCGCATTCCG
 CAGAGCATGACGGACGAGTTCTACTCTCGCCAGGGGGCGCAGCAGGACCCCGCATCCGACACGGCGCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208239 protein sequence
 Red=Cloning site Green=Tags(s)

MATTVDSRSSGFTGNSCDPGTAQEHVQAVTRNYITHPRVYRTVCSVNGPLVVLQVQKFAQYAEIVNFTL
 PDGTQRSQVLEVAGTKAIVQVFEGTSGIDSQKTTCEFTGDILRTPVSEMDLGRIFNGSGKPIDKGPVAM
 AEEFLDINGQPINPHDRIYPEEMIQTGISPIDVMNSIARGQKIPFSAAGLPHNEIAAQICRQAGLVKKS
 KAVLDYHEDNFAIVFAAMGVNMETARFFKSDFEQNGTMGNVCLFLNLANDPTIERIITPRLALTTAEFLA
 YQCEKHLVLILTDMSSYAEALREVSAREEVPGRRGFPGYMYTDLATYERAGRVEGRGGSITQIPILTM
 PNDDITHPIPDLTGFITEGQIYVDRQLHNRQVYPPINVLPSSLRLMKSAIGEGMTRKDHGDVSNQLYACY
 AIGKDVQAMKAVVGEEALTSEDLLYLEFLQKFEKNFITQGPYENRTVFESLDLWKLRLIFPKEMLKRIPI
 QSMTEDEFYSRQGAQQDPASDTAL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_134157

ORF Size: 1542 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_134157.1](#)

RefSeq Size: 1945 bp

RefSeq ORF: 1542 bp

Locus ID: 110935

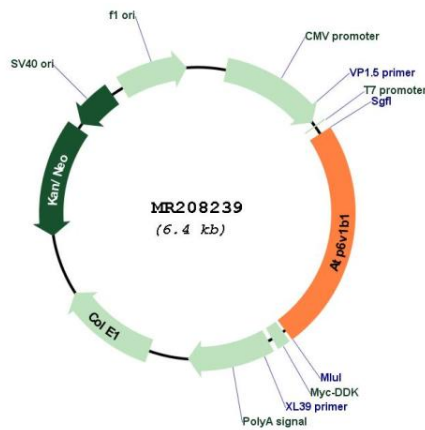
UniProt ID: [Q91YH6](#)

Cytogenetics: 6 35.94 cM

MW: 56.8 kDa

Gene Summary: Non-catalytic subunit of the V1 complex of vacuolar(H⁺)-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⁺) 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]

Product images:



Circular map for MR208239