

Product datasheet for **MG208205**

Atp6v1b2 (NM_007509) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atp6v1b2 (NM_007509) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Atp6v1b2
Synonyms:	A1194269; A1790362; Atp6b2; HO57; R74844
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208205 representing NM_007509
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCGTTGCGAGCGATGCGGGGAATCGTGAACGGGGCCGACCCGAACCTGCCCGTCCACCAGGTGGG
 CGATGGCCGGAGCTCGGGAGCAGGCGCTGGCGGTGAGCCGGAACCTACCTATCCCAGCCTCGTCTCACCTA
 CAAGACTGTCTCTGGGGTGAATGGTCCACTAGTGATCCTAGATCATGTGAAGTTTCCAGATACGCTGAG
 ATTGTCCACTTGACATTACCAGATGGCACAAGAGAAGTGGGCAAGTCTAGAAGTTAGTGGCTCCAAAG
 CAGTGGTTCAGGTATTTGAAGGGACATCTGGTATAGACGCCAAGAAAACATCCTGTGAGTTTACTGGAGA
 TATTCTCCGAACACCAGTGTCTGAGGATATGCTTGGTTCGAGTATCAACGGATCAGGAAAACCCATTGAC
 CGAGGCCCTGTGGTGTGGCTGAAGACTTCCTTGACATCATGGGTGAGCCCAATCAACCTCAGTGTCCGA
 TCTATCCAGAAGAGATGATTCAGACGGGCAATTCGCCATCGATGGCATGAACAGTATTGCTAGGGGACA
 GAAAATCCCATCTTTCTGCTGTGGATTACCACACAACGAGATTGCAGCTCAGATCTGTGCCAGGCT
 GGTGGTAAAGAAATCCAAAGATGTAGTGGACTATAGTGAAGAAAATTTGCCATTGTGTTTGGCTGCTA
 TGGGAGTAAACATGGAACAGCCCGGTTCTTAAATCTGACTTTGAAGAAAATGGCTCAATGGACAATGT
 CTGCCTTTTTTGAATCTGGCTAATGACCAACCATTTGAGCGGATCATCACTCCTCGCCTGGCTCTGACC
 ACGGCCGAGTTTCTGGCATATCAGTGTGAGAAGCACGTGCTGGTATCCTGACGGACATGAGCTCCTACG
 CTGAAGCGCTGCGAGAGGTTTTCAGTGCAGGGAAGAGGTCCCTGGTGGCGAGGCTTCCAGGCTACAT
 GTATACCGACTTAGCCACAATCTATGAACGTGCCGGTTCGAGTGAAGGTAGAAACGGCTCTATTACCCAA
 ATCCCTATTCTCACCATGCCAATGACGATATCACTCATCCCATCCCTGACTTACTGGTACATTACTG
 AGGGCCAGATCTATGTGGACAGACAGTGCACAACAGACAGATTACCCCTCTATTAATGTGCTGCCCTC
 ACTCTCTCGGTTAATGAAGTTCAGCTATCGGAGAAGGAATGACCAGAAAGGATCACGCTGATGTGTCTAAC
 CAGTTGTATGCGTGTATGCCATCGGTAAGGACGTGCAAGCCATGAAAGCCGTGGTGGGAGAGGAAGCCC
 TGACCTCAGATGATCTCCTTTACCTGGAATTTCTGCAGAAGTTTGAAGAAGAACTTCACTACTCAGGGTCC
 CTATGAAAACCGAACTGTTTATGAGACTTTGGACATTGGCTGGCAGTTGCTTCGAATCTTCCCAAAGAA
 ATGCTGAAGAGAATCCCTCAGAGCACCTGAGCGAATTTACCCTCGAGACTCTGCAAAACAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG208205 representing NM_007509
 Red=Cloning site Green=Tags(s)

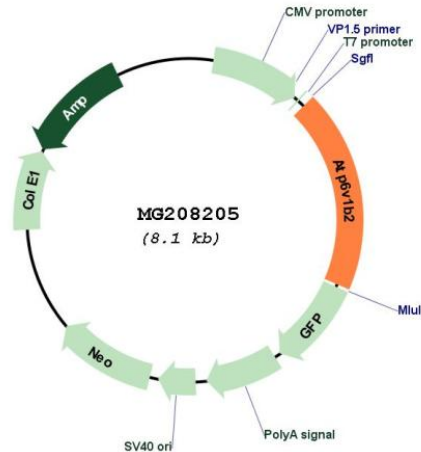
MALRAMRGIVNGAAPELPVPTGGPMAGAREQALAVSRNYLSQPRLTYKTVSGVNGPLVILDHVKFPRYAE
 IVHLTLPDGTKRSGQVLEVSGSKAVVQVFEGTSGIDAKKTSCEFTGDILRTPVSEDMLGRVFNNGSGKPID
 RGPVVLAEDFLDIMGQPINPQCRIYPEEMIQTGISAIDGMNSIARGQKIPFSAAGLPHNEIAAQICRQA
 GLVKKSKDVVDYSEENFAIVFAAMGVNMETARFFKSDFEENGSMNVCLFLNLANOPTIERIITPRLALT
 TAEFLAYQCEKHVLVILDMSSYAEALREVSAREEVPGRRGFPGYMYTDLATIERAGRVEGRNGSITQ
 IPILTMPNDDITHPIPDLTGYITEGQIYVDRQLHNRQIYPPINVLPSSLRMLKSAIGEGMTRKDHADVSN
 QLYACYAIGKDVQAMKAVVGEEALTSDDLLEYLFLQKFEKNFITQGPYENRTVYETLDIGWQLLRIFPKE
 MLKRIPQSTLSEFYPRDSAKH

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Plasmid Map:



ACCN: NM_007509

ORF Size: 1533 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: 2738 bp

RefSeq ORF: 1536 bp

Locus ID: 11966

UniProt ID: [P62814](#)

Cytogenetics: 8 B3.3

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]