

Product datasheet for **MG218458**

Atp6v1c2 (NM_001159632) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atp6v1c2 (NM_001159632) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Atp6v1c2
Synonyms:	1110038G14Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG218458 representing NM_001159632 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGAGTTTTGGCTATTTTCGGCCCTGGCGATAAGGAAAATTTACAGGCTCTGAAAGGATGAACA
ATGTAACCTCAAAGTCTAACCTGTCCACAACACCAAGTTTGCCATCCCAGACTTCAAGGTGGGACTTT
GGATTCCCTTGTGGCCTCTCTGATGAGCTGGGAAACTCGATACCTTTGCTGAAAGCCTCATAAGAGA
ATGGCACAGAGTGTGGTGGAGGTCATGGAAGATTCCAAGGGAAAGCACACGAGACCTCCTGGCTAACG
GAGGTCTGAAGGAAAAGATGAAATGTTTAAAGATTGACCTGACATCCTTCGTGACGCACTTCGAGTGGGA
CATGGCCAAATATCCCGCAAGCAGCCACTGGTGAAGCGTGGTGGACACACTGACCAAGCAACTGGCACA
ATCGAGACAGACCTGAAGTCCCGGACAGCCGCTACAGCGTTCTGAAGGCCAACCTGGAGAAGTGGAGA
AGAGATCCACGGGAACTCTTCACTCGGACACTGAGCGATATTGTGAGCAAGGAAGACTTCGTAATTGA
TTCTGAATATCTCATAACCCTCCTGGTCATCGTCCCAAGTCAAGCTTTGCACAGTGGCAGAAGACATAT
GAGTCCCTATCGGACATGGTGGTCCCTCGGTCAACCAAATGATCGCCGAGGACAACGAAGGTGGCCTCT
TCACGGTGACTCTTCCGAAAAGTGATCGAAGATTTCAAAGTCAAAGCCAAAGAAAACAAGTTCATTGT
CCGGGAATTTTACTATGATGAAAAAGAAATTAACGAGAAAAGGGAGGAGATGACCAGTTGCTGTCTGAT
AAGAAACAACAGTATCCAACCTCCTGTGTTGCTCTAAAAAGGGATCAGCCACCTACCGTACCACAAGG
TTAAGGTAGCCCGCTAGGTAACCTGCTAGGCCTGCTGCGGGGACAGCCGACAGAGACAGAGAGAGTGA
GGCGAGGGTGAGGGACCTCTGCTGCGCTGGCTCAAGGTGAACCTCAGCGAGGCCTTTATTGCTGGATC
CACATTAAGGCCCTGAGAGTGTGTGGAGTCTGTGCTCAGGTATGGACTTCCAGTGAACCTCCAGGCTG
TGCTCCTACAGCCCAAAAAAGTCAAGCCAAACGCTGAGAGAGGTGCTCAACTCTGTCTTCCGGCA
CCTGGATGAAGTTGCTGCAGCAAGCATACTGGATGCATCCGTGGAGATTCCTGGACTGCAGCTCAGCAAC
CAGGACTATTTCCCTATGTGTACTTCCATATCGACCTCAGCCTTCTTGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG218458 representing NM_001159632
 Red=Cloning site Green=Tags(s)

MSEFWLISAPGDKENLQALERMNNVTSKSNLSHNTKFAIPDFKVGTLDSLVLGSDDELGKLDTFAESLIKR
 MAQSVVEVMEDSKGKAHETLLANGGLKEKMKCLKIDLTSFVTHFEWDMAKYPAKQPLVSVVDLTKQLAQ
 IETDLKSRRTAAYSVLKANLENLEKRSTGNLFRTRLSDIVSKEDFVLDSEYLITLLVIVPKSSFAQWQKTY
 ESLSDMVVPRSTKLI AEDNEGGFLVTTLFRKVIEDFKVKAKENKFIVREFYYDEKEIKREREEMTRLLSD
 KKQQYPTSCVALKKGSA TYRDHKVKVAPLGNPARPAAGQTDRESEGE GEGPLLRLWKVNFSEAFIAWI
 HIKALRVFVESVLR YGLPVNFQAVLLQPHKKSATKRLREVLNSVFRHLDEVAAA SILDASVEIPGLQLSN
 QDYFPYVYFHIDLSLLD

TRTRPLE - GFP Tag - V

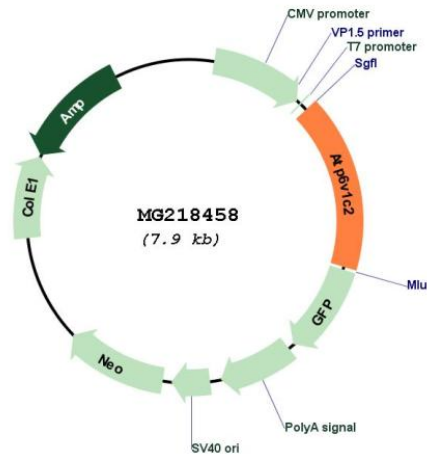
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_001159632

ORF Size:	1311 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:	<ol style="list-style-type: none">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_001159632.1 , NP_001153104.1
RefSeq Size:	1597 bp
RefSeq ORF:	1314 bp
Locus ID:	68775
UniProt ID:	Q99L60
Cytogenetics:	12 A1.1
Gene Summary:	Subunit of the peripheral V1 complex of vacuolar ATPase. Subunit C is necessary for the assembly of the catalytic sector of the enzyme and is likely to have a specific function in its catalytic activity. V-ATPase is responsible for acidifying a variety of intracellular compartments in eukaryotic cells.[UniProtKB/Swiss-Prot Function]