

## Product datasheet for **MG206810**

### Atp6v1c2 (NM\_133699) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Atp6v1c2 (NM_133699) 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:	>MG206810 representing NM_133699 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCGAGTTTTGGCTATTTTCGGCCCTGGCGATAAGGAAAATTTACAGGCTCTGAAAGGATGAACA  
ATGTAACCTCAAAGTCTAACCTGTCCACAACACCAAGTTTGCCATCCCAGACTTCAAGTGGGGACTTT  
GGATTCCCTTGTGGCCTCTCTGATGAGTTGGGAAACTCGATACCTTTGCTGAAAGCCTCATAAAGAGA  
ATGGCACAGAGTGTGGTGGAGGTCATGGAAGATTCCAAGGGAAAGCACACGAGACCTCCTGGCTAACG  
GAGTTGACCTGACATCCTTCGTGACGCACTTCGAGTGGGACATGGCCAAATATCCCGCAAGCAGCCACT  
GGTGAGCGTGGTGGACACTGGCCAAGCAACTGGCACAATCGAGACAGACCTGAAGTCCCGGACAGCC  
GCCTACAGCGTTCTGAAGGCCAACCTGGAGAAGTGGAGAAGAGATCCACGGGAACTCTTCACTCGGA  
CACTGAGCGATATTGTCAGCAAGGAAGACTTCGTACTTGATTCTGAATATCTCATAAACCTCCTGGTCA  
CGTCCCAAGTCAAGCTTTGCACAGTGGCAGAAGACATATGAGTCCATATCGGACATGGTGGTCCCTCGG  
TCAACCAAATTGATCGCCGAGGACAACGAAGGTGGCCTTTCACGGTACTCTTCCGAAAAGTGATCG  
AAGATTTCAAAGTCAAAGCCAAAGAAAACAAGTTCATTGTCCGGGAATTTACTACGATGAAAAAGAAAT  
TAAACGAGAAAAGGAGGAGATGACCAGTTGCTGTCTGATAAGAAACAACAGTATCCAACCTCCTGTGTT  
GCTCTAAAAAAGGGATCAGCCACCTACCGTACCACAAGTTAAGGTAGCCCCGTAGGTAAACCCTGCTA  
GGCCTGCTGCGGGCAGACCCGACAGAGACAGAGAGTGAAGGGCAGGGTGAAGGACCTCTGCTGCGCTG  
GCTCAAGTGAACCTCAGCGAGGCTTTATTGCCTGGATCCACATTAAGGCCCTGAGAGTGTGTTGGAG  
TCTGTGCTCAGGTATGGACTTCCAGTGAACCTCCAGGCTGTGCTCCTACAGCCCCATAAAAAAGTCAGCCA  
CCAAACGCCTGAGAGAGGTGCTCAATCTGTCTTCCGGCACCTGGATGAAGTTGCTGCAGCAAGCATACT  
GGATGCATCCGTGGAGATTCTGGACTGCAGCTCAGCAACCAGGACTATTTCCCTATGTGTACTTCCAT  
ATCGACCTCAGCCTTCTGAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG206810 representing NM\_133699  
 Red=Cloning site Green=Tags(s)

MSEFWLISAPGDKENLQALERMNNVTSKSNLSHNTKFAIPDFKVGTLDSLVLGSDDELGKLDTFAESLIKR  
 MAQSVVVEVMEDESKGKAHETLLANGVDLTSFVTHFEWDMAYPAKQPLVSVVDLAKQLAQIETDLKSRTA  
 AYSVLKANLENLEKRSTGNLFRTRLSDIVSKEDFVLDSEYLITLLVIVPKSSFAQWQKTYESLSDMVVPR  
 STKLIADNEGGLFTVTLFRKVIEDFKVKAKENKFIVREFYYDEKEIKREREEMTRLLSDKKQYPTSCV  
 ALKKGSAATYRDHKVKVAPLGNPARPAAGQTDRESEGEGERLLRWLKVNFEAFIAWIHKALRVFVE  
 SVLRYGLPVNFQAVLLQPHKKSATKRLREVLNSVFRHLDEVAASILDASVEIPGLQLSNQDYFPYVYFHF  
 IDLSLLD

TRTRPLE - GFP Tag - V

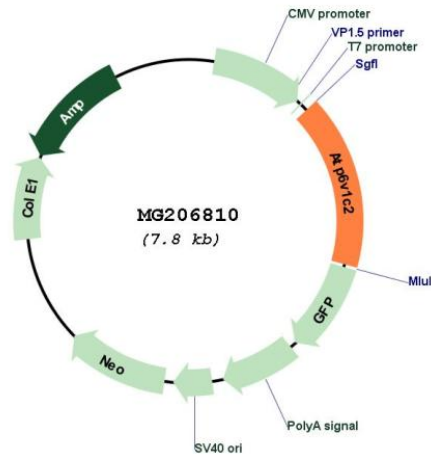
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

NM\_133699

<b>ORF Size:</b>	1281 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_133699.1</a> , <a href="#">NP_598460.1</a>
<b>RefSeq Size:</b>	1713 bp
<b>RefSeq ORF:</b>	1284 bp
<b>Locus ID:</b>	68775
<b>UniProt ID:</b>	<a href="#">Q99L60</a>
<b>Cytogenetics:</b>	12 A1.1
<b>Gene Summary:</b>	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]