

## Product datasheet for **MG210967**

### **Atp6v0a2 (NM\_011596) Mouse Tagged ORF Clone**

#### **Product data:**

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids  |
| Product Name:             | Atp6v0a2 (NM_011596) Mouse Tagged ORF Clone  |
| Tag:                      | TurboGFP   |
| Symbol:                   | Atp6v0a2   |
| Synonyms:                 | 8430408C20Rik; AI385560; ATP; ATP6a2; Atp6n1d; Atp6n2; AW489264; C76904; ISF; J6B7; SHIF; Stv1; Tj6; TJ6M; TJ6s; V-ATPase 116 kDa; V-ATPase a2 |
| Mammalian Cell Selection: | Neomycin   |
| Vector:                   | pCMV6-AC-GFP (PS100010)  |
| E. coli Selection:        | Ampicillin (100 ug/mL)   |



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ORF Nucleotide  
Sequence:

>MG210967 representing NM\_011596  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGGCTCTCTTCCGACGAGAGCATGTGCCTGGCGAGCTTCTCAGTGGGCACGGCCTACG  
AGTGTCTGAGCGCTGGGCGAGAAGGGCTGGTGCAGTTCGAGACCTCAATCAAAATGTAAGTCTTT  
TCAAAGAAAATTCGTCGGTGAGGTAAAGAGGTGTGAAGAGCTCGAACGAATACTGGTGTACCTGGTGCAG  
GAAATCACCAGAGCTGATATCCCTGCCTGAAGGAGAGGCCAGTCTCCCGCACCACTCTTAAACATG  
TCCTAGAAATGCAGGAACAGCTGCAGAAGCTGGAGGTGGAGCTCAGAGAAGTACCAAGAACAAGGAGAA  
GCTGAGGAAGAACCTGTTGGAGCTGGTGGAGTACACCCACATGCTGAGGGTACGAAGACCTTCTCAAG  
CGGAATGTGGAGTTTGGCCACGTATGAAGAGTTTCCCGCTTAGAGAAGCTCTCTGTTGGACTACA  
GCTGCATGCAGCGCTGGGCGCAAGCTGGGATTCGTTTCTGGCCTGATTCAGCAAGGCAGAGTTGAAGC  
ATTTGAAAGGATGCTGTGGCGGGCTGCAAAGGTACACCATTGTGACCTATGCAGAGCTGGACGAGTGC  
CTGGAGGACCCTGAAACGGGTGAAGTCATAAAGTGGTACGTGTTCTGATTTCTTTGGGAGAGCAGA  
TTGGCCACAAGGTTAAGAAGATATGTGACTGTTACCCTGCCACATCTACCCGTATCCAACACGGCTGA  
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TTAGGATGTTCTTTGACGGCCGGTATATCTGCTGCTGATGGGGCTGTTCTGTGTACACCGCCCTCAT  
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GAACCTGGCCACAACCCCTCACGTTCTCAACTCCTCAAGATGAAAATGTCTGTGATTTTAGGAATT  
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GCGCAATTGCTTTGGCATGAGCCGGAGCGGTTACACACTCGTGAAGGACAGCGAGGAAGAGGTGTCT  
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CATAAGGCTTCACTGGGTAGAATTTAGAACAAATTTACGTTGGTGCAGGCACCAAGTTTGTCCCTTC  
TCCTCAGTCTGCTCTCCTCAAGTTCAGTAATGATGACAGCATAGCA

**ACGGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG210967 representing NM\_011596  
Red=Cloning site Green=Tags(s)

MGSLFRSESMCLAQLFLQSGTAYECL SALGEKGLVQFRDLNQNVS SFQRKFVGEVKRCEELERILVYL VQ  
 EITRADIPLPEGEASPPAPPLKHVLEMQEQLQKLELREVTKNKEKLRKNLLELVEYTHMLRVTKTFLK  
 RNVEFEPTYEEFPALENDSLLDYSCMQRLGAKLGFVSGLIQQGRVEAFERMLWRACKGYTIVTYAELDEC  
 LEDPETGEVIKWYVFLISFWGEQIGHKVKKICDCYHCHIYPYPNTAEERREIQEGLNTRIQLDLYTLVHKT  
 EDYLRQVLCKAAESVCSR VVQVRKMKAIYHMLNMCSFDVTNKCLIAEVCWCEVDLPGLRRAL EEGSRESG  
 ATIPSFMNTIPTKETPPTLIRTNKFTGEFQNI VDAYGVGSYREVN PALFTIITFPFLFAVMFGDFGHGFV  
 MFLFALLLVLNENHPRLSQSQEILRMFFDGRYI LLLMGLFSVYTGLIYNDCFSKSVNLFSGGWNVSAMYS  
 SSHSPEEQRMVLWNDSTIRHSRTLQLDPNIPGVFRGYPFGIDPIWNLATNRLTFLNSFKMKMSVILGI  
 FHMTFGVVLGIFNHLHFRKKFNVYLVSVEILFMLCIFGYLIFMIYKWLAYS AETSREAPSILIEFINM  
 FLFPTSKTHGLYPGQAHVQRVLVALTVLAVPVLFLGKPLFLLWLHNGRNCFGMSRSGYTLVRKDSEEEVS  
 LLGNQDIEEGNSRMEEGCREVTCEEFNFG EILMTQAIHSIEYCLGCSINTASYLR LWALSLAHAQLSDVL  
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 SFLLSSKFSNDDZIA

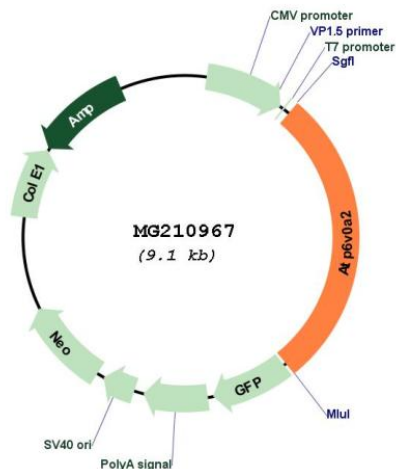
TRTRPLE - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**


**ACCN:** NM\_011596

**ORF Size:** 2568 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\\_011596.5](#), [NP\\_035726.2](#)

**RefSeq Size:** 3037 bp

**RefSeq ORF:** 2571 bp

**Locus ID:** 21871

**UniProt ID:** [P15920](#)

**Cytogenetics:** 5 F

**Gene Summary:** This gene encodes a subunit of vacuolar ATPase, a multimeric enzyme that localizes to intracellular vesicles and to the plasma membrane of specialized cells. The encoded protein is a component of the V(0) domain, which functions in proton translocation across membranes. Function of this gene is important in fetal-specific immune suppression during pregnancy. [provided by RefSeq, May 2013]