

## Product datasheet for **MG210875**

### **Atp6v0a4 (NM\_080467) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Atp6v0a4 (NM_080467) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Atp6v0a4
Synonyms:	a4; Atp6n1b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide  
Sequence:

>MG210875 representing NM\_080467  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

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GTTCTCCCCCTTCTCCTTAAAGCACGCTCCTGGAAGGCACAGCTGAGGAG

ACCGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG210875 representing NM\_080467  
Red=Cloning site Green=Tags(s)

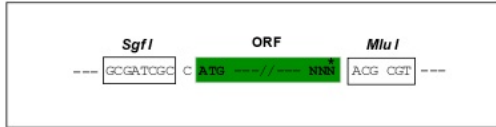
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TRTRPLE - GFP Tag - V

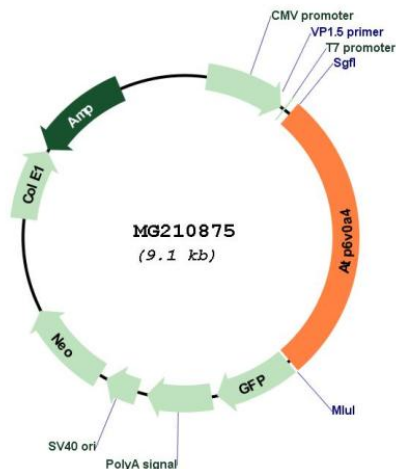
Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI  
 CTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGSAGATCTGCCGCCGATCGCCGGCGCCAGATCT  
  
 HindIII NheI RsrII MluI NotI XhoI GFP Tag  
 CAAGCTTAAGCTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC - - - -  
 T R T R P L E M E S D - - -  
  
 PmeI FseI  
 - - - GAA GAA AGA GTT TAA ACGGCCGGCCGCGGAGCT  
 - - - E E R V Stop

**Plasmid Map:**


**ACCN:** NM\_080467

**ORF Size:** 2499 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\\_080467.3](#), [NP\\_536715.3](#)

**RefSeq Size:** 3300 bp

**RefSeq ORF:** 2502 bp

**Locus ID:** 140494

**UniProt ID:** [Q920R6](#)

**Cytogenetics:** 6 B1

**Gene Summary:** Part of the proton channel of the V-ATPase that is involved in normal vectorial acid transport into the urine by the kidney.[UniProtKB/Swiss-Prot Function]