

## Product datasheet for **MG203291**

### **Atp5f1 (BC087882) Mouse Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Atp5f1 (BC087882) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Atp5f1  
**Synonyms:** C76477  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG203291 representing BC087882  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTGTCCCGGGTGGTCTTTCTGCTGCCGCCACAGCGGCCCGTGTCTGAAGAACGGCGCCGCCCTAG  
GTCCAGGGGTATTACAGGCAACAAGGCCCTTTCACACAGGACAGCCTCGCCTTGCCCTCTACCACCTCT  
TCCTGAATATGGAGGAAAAGTGCCTTTGGGCTGATTCTGAGGAATTTTCCAGTTCCTTTACCCTAAG  
ACTGGTGAACAGGACCTTATGTGCTTGGAACTGGACTTAGCTTGTATTTCTATCCAAAGAAATATATG  
TGATTACCCAGAGACCTTCTCTACCATATCAGTAGTAGGTTGATAGTCTATGTGATTAAGAAATATGG  
CGCCTCTTTGGAGAATTTATTGACAACTTAATGAGGAAAAAATGCTCAACTAGAAGAAGTAAAGCAG  
TCGAGCATGAAACAAATCCAGGATGCAATCGACATGGAGAAGGCACAGCAGGCACTGGTTTCAGAAGCGCC  
ATTACCTCTTCGATGTGCAGAGGAATAACATTGCCCTGGCCTTGGAGGCTCACTTACCGGGAACGGCTACA  
TAAAGCATATAAGGAGGTAAGAATCGCCTGGACTACCACATCTCTGTACAGAACATGATGCGTCGCAAG  
GAGGAAGAACACATGATAGACTGGGTAGAAAAGCATGTGGTGAAGAGCATTCTGTACAGCAGGAAAAGG  
AGACCATTGCCAAGTGCATTGAAGATCTAAAGCTGCTTGC AAAGAAGGCTCAAGCTCAGCCAATTATG

**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA**



[View online »](#)

**Protein Sequence:** >MG203291 representing BC087882  
 Red=Cloning site Green=Tags(s)

MLSRVLSAAATAAPCLKNAAALGPGVLQATRAFHTGQPR LAPLPPEYGGKVR LGLIPEEFFQFLYPK  
 TGVTGPYVLGTGLSLYFLSKEIYVITPETFSTISV VGLIVYVIKYGASFGEFIDKLNEEKIAQLEEVKQ  
 SSMKQIQDAIDMEKAQQALVQKRHYLFDVQRNNIALALEV TYRERLHKAYKEVKNRLDYHISVQNMRRK  
 EEEHMIDWVEKHVVKSISVQEQEKETIAKCIEDLKLLAKKAQAQPI M

TRTRPLE - GFP Tag - V

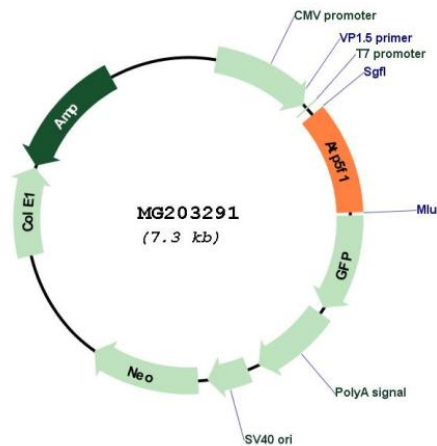
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



**ACCN:** BC087882

**ORF Size:** 770 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="#">BC087882</a> , <a href="#">AAH87882</a>
<b>RefSeq Size:</b>	1487 bp
<b>RefSeq ORF:</b>	770 bp
<b>Locus ID:</b>	11950
<b>Cytogenetics:</b>	3 46.46 cM
<b>Gene Summary:</b>	Mitochondrial membrane ATP synthase (F(1)F(0) ATP synthase or Complex V) produces ATP from ADP in the presence of a proton gradient across the membrane which is generated by electron transport complexes of the respiratory chain. F-type ATPases consist of two structural domains, F(1) - containing the extramembraneous catalytic core, and F(0) - containing the membrane proton channel, linked together by a central stalk and a peripheral stalk. During catalysis, ATP synthesis in the catalytic domain of F(1) is coupled via a rotary mechanism of the central stalk subunits to proton translocation. Part of the complex F(0) domain and the peripheric stalk, which acts as a stator to hold the catalytic alpha(3)beta(3) subcomplex and subunit a/ATP6 static relative to the rotary elements.[UniProtKB/Swiss-Prot Function]