

## Product datasheet for MC207034

### Atp5g1 (NM\_001161419) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Atp5g1 (NM\_001161419) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Atp5g1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Fully Sequenced ORF:** >MC207034 representing NM\_001161419

Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCAGACCACCAAGGCACTGCTCATTTCTCCAGCTCTGATTCGCTCCTGTACCAGGGGTCTAATCAGGC  
CTGTGCTGCCTCCCTCCTGAGCAGACCAGAGGCCCATCTAAGCAGCCTTCCTGCAGCAGCTCCCTCT  
CCAGGTGGCCCGACGGGAATTCAGACCAGTGTCAATTTCCCGGACATCGACACAGCAGCCAAGTTCATT  
GGTGTGGGGCCGCCACAGTTGGTGTGGCTGGATCAGGAGCTGGCATTGGCACAGTGTGGTAGCTTGA  
TTATTGGCTATGCCAGGAACCATCTCTCAAGCAGCAGCTCTTCTCCTATGCCATTCTGGGTTTGCCCT  
GTCTGAGGCCATGGGACTCTTCTGTTTGATGGTCGCCTTCCTCATCTCTCGCCAT**GTA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001161419  
**Insert Size:** 411 bp  
**OTI Disclaimer:**  
**Components:**

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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).



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<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>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<u><a href="#">NM_001161419.1</a></u> , <u><a href="#">NP_001154891.1</a></u>
<b>RefSeq Size:</b>	805 bp
<b>RefSeq ORF:</b>	411 bp
<b>Locus ID:</b>	11951
<b>UniProt ID:</b>	<u><a href="#">Q9CR84</a></u>
<b>Cytogenetics:</b>	11 D
<b>Gene Summary:</b>	<p>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. A homomeric c-ring of probably 10 subunits is part of the complex rotary element (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) has an alternate 5' UTR exon, as compared to variant 1.</p>