

Product datasheet for **MG200378**

Atpif1 (NM_007512) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Atpif1 (NM_007512) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Atpif1
Synonyms: ATP5IF1; Atpi; If; IF(1); If1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG200378 representing NM_007512
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCAGGCTCGGCGTTGGCAGTTCGGGCTCGGTTGGTGTCTGGGGTATGAAGTCTGCAAACCCGAG
 GCTTCGTCTCGGACTCGTCGGATAGCATGGATACGGGCGCTGGCTCCATCCGAGAAGCTGGTGGAGCCTT
 CGGAAAACGAGAAAAGGCTGAAGAGGATCGGTACTTCCGAGAGAAGACTAAAGAACAGCTGGCTGCCCTG
 AGGAAACACCATGAAGATGAGATTGACCACCATTCAAGGAGATAGAGCGTCTGCAGAAGCAAATTGAAC
 GCCATAAGAAGAAGATCCAACAATAAAGAATAATCAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG200378 representing NM_007512
 Red=Cloning site Green=Tags(s)
 MAGSALAVRARFGVWGMKVLQTRGFVSDSSDMSDTGAGSIREAGGAFGKREKAEEDRYFREKTKEQLAAL
 RKHHEDEIDHHSKEIERLQKQIERHKKKIQLKNNH

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul

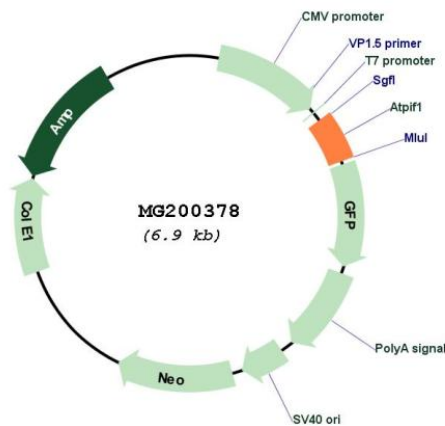


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Cloning Scheme:



Plasmid Map:



ACCN: NM_007512

ORF Size: 318 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:	<ol style="list-style-type: none">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:	<u>NM_007512.4</u>
RefSeq Size:	610 bp
RefSeq ORF:	321 bp
Locus ID:	11983
UniProt ID:	<u>O35143</u>
Cytogenetics:	4 D2.3
Gene Summary:	<p>This gene encodes a member of the ATPase inhibitor family of proteins. This protein has been shown to negatively regulate the ATP hydrolysis activity of the F1Fo-ATPase. Knockdown of this gene is associated with reduced heme synthesis in differentiating erythroid cells. Misregulation of this gene has been found to lead to increased aerobic glycolysis in mouse cancer cells, while high expression levels of this gene have been correlated with gastric and liver cancer severity in human patients. A pseudogene of this gene has been identified. [provided by RefSeq, Apr 2015]</p>