

## Product datasheet for **MG203972**

### Atp1b2 (NM\_013415) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Atp1b2 (NM_013415) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Atp1b2
Synonyms:	Amog; Atpb-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG203972 representing NM_013415 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTCATCCAGAAAGAGAAGAAGAGCTGCGGGCAGGTGGTTGAGGAGTGAAGGAGTTCGTGTGGAACC  
CGCGGACGCACCAGTTCATGGGGCGCACCGGGACCAGCTGGGCCCTTCATCCTCCTCTTACCTCGTCTT  
CTATGGTTTCTCACGGCCATGTTGAGCCTCACCATGTGGGTAATGCTGCAGACCGTCTCTGACCATAACC  
CCCAAGTACCAGGATCGACTGGCCACACCAGGCTTGATGATTCGACCCAAGACTGAGAACCTTGATGTCA  
TTGTCAACATTAGTGACACTGAAAGCTGGGGTCAGCATGTTGAGAAGCTCAACAAGTTCCTGGAACCTTA  
CAACGACTCCATCCAAGCACAGAAGAATGATGTCTGCCGTCCAGGGCGATATTATGAGCAACCTGATAAT  
GGGTTTCTGAACTACCAAAAACGTGCTGCCAGTTCACCGGACCAACTGGGCGATTGCTCTGGCATTG  
GGGACCTACCCACTATGGTTACAGCACCGGGCAGCCCTGTGTCTTCATCAAAATGAATCGGGTCATCAA  
CTTCTATGCAGGGGCAAACCAGAGCATGAATGTCACTTGTGTGGCAAGAGAGATGAAGATGCTGAGAAC  
CTTGGCCACTTTGTATGTTCCCTGCTAATGGCAGCATTGATCTGATGTACTTCCCTACTATGGCAAAA  
AGTTCCATGTAACATACTCAGCCTTTGGTGGCTGTAAGTTCCTGAATGTGACCCCAACGTGGAGGT  
GAATGTTGAATGCCGCATCAACGCTGCCAATATTGCCACAGACGATGAGCGGGACAAGTTCGCTGGCCGT  
GTGGCCTTCAAACCTCCGATCAACAAAACC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG203972 representing NM\_013415  
Red=Cloning site Green=Tags(s)

MVIQKEKKSCGQVVEEWKEFVWNPRTHQFMGRTGTSWAFILLFYLVFYGFLTAMFSLTMWVMLQTVSDHT  
 PKYQDRLATPGLMIRPKTENLDVIVNISDTESWGQHVQKLNKFLPEYNDSIQAQKNDVCRPGRYYEQPDN  
 GVLNYPKRACQFNRTLQGDSCGIGDPTHYGYSTGQPCVF IKMNRVINFYAGANQSMNVTCVGRDEDAEN  
 LGHFVMFPANGSIDLMYFPYYGKKFHVNYTQPLVAVKFLNVTNPVEVNVVECRINAANIATDDERDKFAGR  
 VAFKLRINKT

TRTRPLE - GFP Tag - V

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja2341\\_c06.zip](https://cdn.origene.com/chromatograms/ja2341_c06.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**ACCN:** NM\_013415

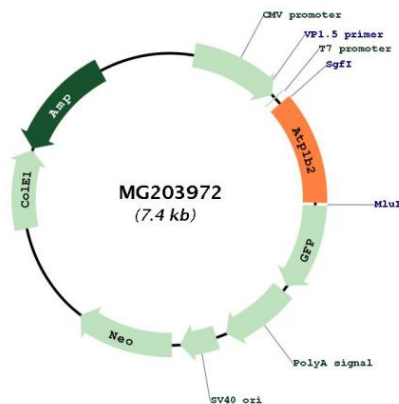
**ORF Size:** 870 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

<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="#">NM_013415.6</a>
<b>RefSeq Size:</b>	2961 bp
<b>RefSeq ORF:</b>	873 bp
<b>Locus ID:</b>	11932
<b>UniProt ID:</b>	<a href="#">P14231</a>
<b>Cytogenetics:</b>	11 42.86 cM
<b>Gene Summary:</b>	This is the non-catalytic component of the active enzyme, which catalyzes the hydrolysis of ATP coupled with the exchange of Na(+) and K(+) ions across the plasma membrane. The exact function of the beta-2 subunit is not known.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG203972