

Product datasheet for MR203972

Atp1b2 (NM_013415) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atp1b2 (NM_013415) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Atp1b2
Synonyms:	Amog; Atpb-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203972 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGTCATCCAGAAAGAGAAGAAGAGCTGCGGGCAGGTGGTTGAGGAGTGGAAAGGAGTTCGTGTGGAACC
CGCGGACGCACCAGTTCATGGGGCGCACCGGGACCAGCTGGGCCCTTCATCCTCCTCTTACCTCGTCTT
CTATGGTTTCCTCACGGCCATGTTGAGCCTCACCATGTGGGTAATGCTGCAGACCGTCTCTGACCATAACC
CCCAAGTACCAGGATCGACTGGCCACACCAGGCTTGATGATTCGACCCAAGACTGAGAACCTTGATGTCA
TTGTCAACATTAGTGACTGAAAGCTGGGGTCAGCATGTTGAGAAGCTCAACAAGTTCCTGGAACCTTA
CAACGACTCCATCCAAGCACAGAAGAATGATGTCTGCCGTCCAGGGCGATATTATGAGCAACCTGATAAT
GGGGTTCTGAACTACCAAAAACGTGCTGCCAGTTCAACCGGACCCAACCTGGGCGATTGCTCTGGCATTG
GGGACCCTACCCACTATGGTTACAGCACCGGGCAGCCCTGTGTCTTCATCAAAAATGAATCGGGTCATCAA
CTTCTATGCAGGGGCAAACAGAGCATGAATGTCACTTGTGTGGCAAGAGAGATGAAGATGCTGAGAAC
CTTGGCCACTTTGTATGTTCCCTGCTAATGGCAGCATTGATCTGATGTACTTCCCTACTATGGCAAAA
AGTTCCATGTAACATACTCAGCCTTTGGTGGCTGTAAGTTCCTGAATGTGACCCCAACGTGGAGGT
GAATGTTGAATGCCGCATCAACGCTGCCAATATTGCCACAGACGATGAGCGGGACAAGTTCGCTGGCCGT
GTGGCCTTCAAACCTCCGGATCAACAAAACC

ACGCGTACGCGGGCCGCTCGAGCAGAAAACATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR203972 protein sequence
Red=Cloning site Green=Tags(s)

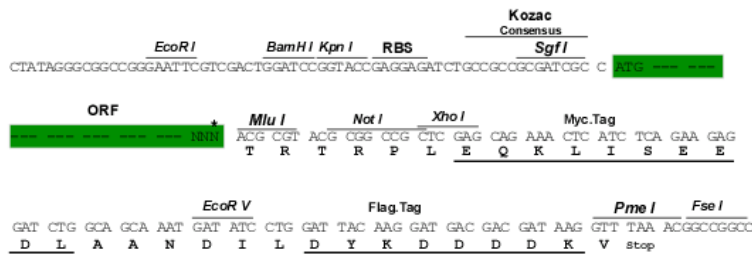
MVIQKEKKSCGQVVEEWKEFVWNPRTHQFMGRTGTSWAFILLFYLVFYGFLTAMFSLTMWVMLQTVSDHT
 PKYQDRLATPGLMIRPKTENLDVIVNISDTESWGQHVQKLNKFLPEYNDSIQAQKNDVCRPGRYYEQPDN
 GVLNYPKRACQFNRTLQGDSCGIGDPHYGYSTGQPCVF IKMNRVINFYAGANQSMNVTCVGRDEDAEN
 LGHFVMPANGSIDLMYFPYYGKKFHVNYTQPLVAVKFLNVTNPVEVNVNVECRINAANIATDDERDKFAGR
 VAFKLRINKT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_013415

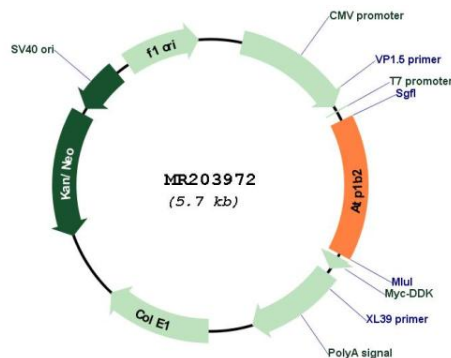
ORF Size: 870 bp

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 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](#)

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_013415.6
RefSeq Size:	2959 bp
RefSeq ORF:	873 bp
Locus ID:	11932
UniProt ID:	P14231
Cytogenetics:	11 42.86 cM
MW:	33.3 kDa
Gene Summary:	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 MR203972