

Product datasheet for **MG204262**

Atp1b1 (BC027319) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Atp1b1 (BC027319) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Atp1b1
Synonyms: Atp4b; Atpb; Atpb-1; NKbeta1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG204262 representing BC027319
Red=Cloning site **Blue**=ORF **Green**=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCCGCGGAAAAGCCAAGGAGGAAGGCAGCTGGAAGAAATTCATCTGGAACCTCGGAGAAGAAGGAGT
TTTTGGGCAGGACCGGTGGTAGTTGGTTAAGATCCTTCTGTTCTACGTGATATTTATGGCTGCCTGGC
TGGCATCTTCATCGGGACCATCCAAGTAATGCTGCTAACCATCAGTGAAGCCACATACCAGGAC
CGAGTGGCCCCGCCAGGATTGACACAGATTCGCCAGATCCAGAAGACTGAGATCTCCTCCGTCCTAATG
ACCCCAAGAGCTACGAGGCCTACGTGCTAAACATCATCAGGTTCTCTGGAAAAGTACAAGGATTCAGCCCA
GAAGGACGACATGATTTTCGAGGACTGTGGCAATGTTCCAGTGAACCAAGGAACGGGGCGACATCAAT
CACGAACGAGGAGAGAGGAAGGTGTGCAGTTCAAGCTTGACTGGCTGGGGAAGTCTCCGGTCTCAATG
ATGACTCTTACGGCTACAGAGAGGGGAAGCCCTGCATCATTATCAAGCTCAACCGAGTGTGGGCTTCAA
ACCGAAGCCTCCAAGAATGAATCCTTGGAGACTTACCCACTGATGATGAAGTAAATCCAAATGTCCTG
CCTGTTCAAGTGCCTGGCAAGAGAGATGAAGATAAAGTAAAGTTCGGGAACATAGAGTACTTTGGGATGG
GCGGATACTACGGCTTCCCTCTGCAGTATTATCCCTACTACGGCAAACTCCTGCAGCCCAAGTACCTGCA
GCCCTGCTGGCCGTGCAGTTCACCAACCTCACCGTGGACTGAAATCCGCGTCGAGTGTAAAGGCGTAT
GGTGAGAACATTGGGTACAGTGAGAAAGACCGTTTTTCAGGGACGCTTTGATGTAAAAATTGAAATTAAGA
GC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204262 representing BC027319
 Red=Cloning site Green=Tags(s)

MARGKAKEEGSWKKFIWNSEKKEFLGRTGGSWFKILLFYVIFYGCLAGIFIGTIQVMLLTISELKPTYQD
 RVAPPGLTQIPQIQKTEISFRPNPKSYEAYVLNIIRFLEKYKDSAQKDDMIFEDCGNVPSEPKERGDIN
 HERGERKVCRFKLDWLGNCGLNDDSYGYREGKPCIIIKLNRVLGFKPKPPKNESLETYPLMMKYNPNVL
 PVQCTGKRDEDKDKVGNIEYFGMGYYGFPLQYYPPYGKLLQPKYLQPLLAVQFTNLTVDTAIRVECKAY
 GENIGYSEKDRFQGRFDVKIEIKS

TRTRPLE - GFP Tag - V

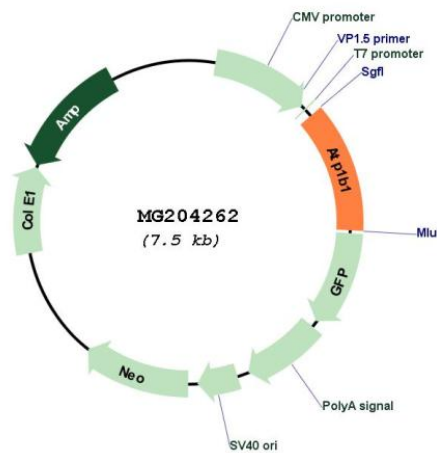
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: BC027319

ORF Size: 914 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:	BC027319 , AAH27319
RefSeq Size:	2233 bp
RefSeq ORF:	914 bp
Locus ID:	11931
Cytogenetics:	1 71.75 cM
Gene Summary:	This gene encodes an integral membrane protein that comprises a subunit of an ATP-metabolizing enzyme responsible for transporting sodium and potassium ions across the plasma membrane. This enzyme regulates the electrochemical gradient of these ions in cells, and plays a central role in osmoregulation and signal transmission in nerves and muscles, among other biological processes. The encoded protein is the non-catalytic beta subunit; it works together with a catalytic alpha subunit and a gamma subunit. [provided by RefSeq, Mar 2013]