

Product datasheet for **MG223002**

Atp4b (NM_009724) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atp4b (NM_009724) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Atp4b
Synonyms:	AV080843
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG223002 representing NM_009724 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAGCCCTGCAGGAGAAGAAGTCATGCAGCCAGCGCATGGCCGAATTCGGCACTACTGTTGGAACC
CGGACACTGGGCAAATGCTGGGCCGACCCAGCCGGTGGGTGTGGATCAGCCTGTACTACGCAGGTTT
CTATGTGGTCATGACCGGGCTTTGCCTTGTGCATCTATGTGCTGATGCAGACCATTGACCCCTACACC
CCAGACTACCAGGACCAGTTAAAGTCACCAGGGGTAACCTTGAGACCGGACGTGTATGGGAAAGAGGGC
TGAAGATTTCTACAATGTCTCTGAAAACAGTTCTCTGGGCTGGCCTCACACACACCCTGCACAGCTTCTT
AGCAGGCTATACCCAGCATCCCAGCAGGACAGCATCAACTGTACATCTGAAAAGTACTTCTCCAGGAG
AGCTTTGCAGCTCCAAACCACACCAAGTTCTCCTGCAAGTTCACTGCAGACATGCTACAAAAGTGCAG
GCCTGGCGGACCCAGCTTCGGCTTCGAGGAGGGGAAGCCCTGCTTCAATTATAAAATGAACAGAATTGT
CAAGTTCTCCCCAGCAACAACAGCTCCCCGAGTGGACTGCACCTTCCAGGATGATCCCCAAAAGCCC
CGGAAGGACACTGAACCCCTGCAGGTCGAGTACTATCCCCCAATGGCACCTTCAGTCTCCACTATTTCC
CCTACTATGGCAAGAAAGCACAGCCCCACTACAGCAACCCTCTGGTGGCAGCCAAGCTCCTCAACGTCCC
CAAGAACATGCAAGTCAGCATCGTGTGCAAGATCCTGGCAGACCAGCTGACCTTCAACAACCCCCATGAC
CCCTACGAAGGGAAGGTGGAGTTAAACTTACAATACAGAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG223002 representing NM_009724
 Red=Cloning site Green=Tags(s)

MAALQEKKSCSQRMAEFRHYCWNPDTGQMLGRTPARVWVWISLYYAGFYVVMTGLFALCIYVLMQTIIDPYT
 PDYQDQLKSPGVTLRPDVYGERLKI SYNVSSENSWAGL THTLHSFLAGYTPASQQDSINCTSEKYFFQE
 SFAAPNHTKF SCKFTADMLQNCGLADPSFGFEEGKPCF I IKMNRIVKFLPSNNTAPRVDCITFDQDPQKP
 RKDTEPLQVEYPPNGTFSLHYFPYYGKKAQPHYSNPLVAAKLLNVPKNMQVSI VCKILADHVTFNNPHD
 PYEGKVEFKLTIQK

TRTRPLE - GFP Tag - V

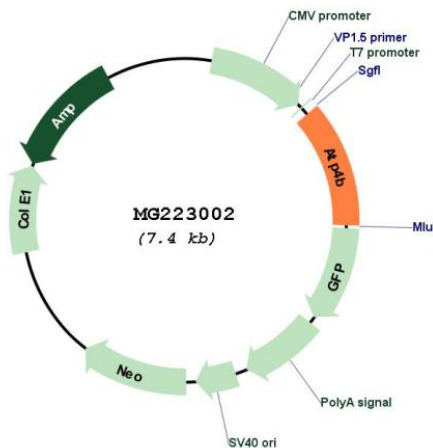
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_009724

ORF Size: 882 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:	NM_009724.2 , NP_033854.1
RefSeq Size:	1327 bp
RefSeq ORF:	885 bp
Locus ID:	11945
UniProt ID:	P50992
Cytogenetics:	8 5.89 cM
Gene Summary:	Required for stabilization and maturation of the catalytic proton pump alpha subunit and may also involved in cell adhesion and establishing epithelial cell polarity.[UniProtKB/Swiss-Prot Function]