

## Product datasheet for MR223002

### Atp4b (NM\_009724) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Atp4b (NM_009724) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Atp4b
Synonyms:	AV080843
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR223002 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCAGCCCTGCAGGAGAAGAAGTCATGCAGCCAGCGCATGGCCGAATTCGGCACTACTGTTGGAACC  
CGGACACTGGGCAAATGCTGGGCCGACCCAGCCGGTGGGTGGATCAGCCTGTACTACGCAGGTTT  
CTATGTGGTCATGACCGGGCTTTGCCTTGTGCATCTATGTGCTGATGCAGACCATTGACCCCTACACC  
CCAGACTACCAGGACCAGTTAAAGTCACCAGGGTAACCTTGAGACCGGACGTGTATGGGAAAGAGGGC  
TGAAGATTTCTACAATGTCTCTGAAAACAGTTCTGGGCTGGCCTCACACACACCCTGCACAGCTTCTT  
AGCAGGCTATACCCAGCATCCCAGCAGGACAGCATCAACTGTACATCTGAAAAGTACTTCTCCAGGAG  
AGCTTTGCAGCTCCAAACCACACCAAGTTCTCCTGCAAGTTCACTGCAGACATGCTACAAAAGTGCAG  
GCCTGGCGGACCCAGCTTCGGCTTCGAGGAGGGGAAGCCCTGCTTCAATTATAAAATGAACAGAATTGT  
CAAGTTCTCCCCAGCAACAACAGCTCCCCGAGTGGACTGCACCTTCCAGGATGATCCCCAAAAGCCC  
CGGAAGGACACTGAACCCCTGCAGGTCGAGTACTATCCCCCAATGGCACCTTCAGTCTCCACTATTTCC  
CCTACTATGGCAAGAAAGCACAGCCCCACTACAGCAACCCTCTGGTGGCAGCCAAGCTCCTCAACGTCCC  
CAAGAACATGCAAGTCAGCATCGTGTGCAAGATCCTGGCAGACCAGCTGACCTTCAACAACCCCCATGAC  
CCCTACGAAGGGAAGGTGGAGTTAAACTTACAATACAGAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR223002 protein sequence  
Red=Cloning site Green=Tags(s)

MAALQEKKSCSQRMAEFRHYCWNPDTGQMLGRTPARVWVWISLYYAGFYVMTGLFALCIYVLMQTIIDPYT  
 PDYQDQLKSPGVTLRPDVYGERLKI SYNVSSENSWAGL THTLHSFLAGYTPASQQDSINCTSEKYFFQE  
 SFAAPNHTKFSCKFTADMLQNCGLADPSFGFEEGKPCFIIKMNRIKFLPSNNTAPRVDCFQDDPQKP  
 RKDTEPLQVEYPPNGTFLHYFPYYGKKAQPHYSNPLVAAKLLNVPKNMQVSI VCKILADHVTFNPNPHD  
 PYEGKVEFKLTIQK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_009724

**ORF Size:** 885 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:**

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

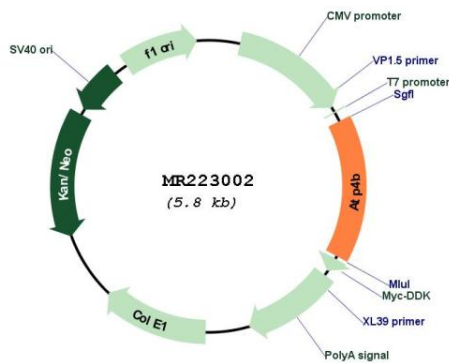
**UniProt ID:** [P50992](#)

**Cytogenetics:** 8 5.89 cM

**MW:** 33.6 kDa

**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]

### Product images:



Circular map for MR223002