

Product datasheet for RR201017

Atp4b (NM_012510) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atp4b (NM_012510) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Atp4b
Synonyms:	S76401S1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR201017 representing NM_012510 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAGCCCTGCAGGAGAAGAAGTCATGCAGCCAGCGCATGGCCGAATCCGGCAATACTGTTGGAACC
CGGACACTGGGCAGATGCTGGGCCGACCCAGCCGGTGGGTGGATCAGCCTGTACTATGCAGCTTT
CTACGTGGTCATGACTGGGCTCTTGCCTTGTGCATCTATGTGCTGATGCAGACCATTGATCCCTACACC
CCCGACTACCAGGACCAGTTAAAGTCACCGGGGTAACCTTGAGACCGGATGTGTATGGGAAAGAGGGC
TGCAGATTTCTACAACATCTCTGAAAACAGCTCCTGGGCTGGCCTCACACACACCCTCCACAGCTTCTT
AGCGGGCTACACCCAGCATCCCAGCAGGACAGCATCAACTGTTCTGCTGAAAAGTACTTCTCCAGGAG
ACCTTTTCTGCTCCGAACCATAACCAAGTTCTCCTGCAAGTTCACGGCGGACATGTACAGAATTGCTCAG
GCCTGGTGGACCCAGTTTCGGCTTTGAGGAGGGAAAGCCCTGCTTCAATTATAAATGAACAGGATTGT
CAAGTTCCTGCCAGCAACAACACGGCTCCCGAGTGGACTGCACCTCCAGGATGACCCCCAAAAGCCC
CGGAAGGACATTGAACCCCTGCAGGTCCAGTACTATCCCCCAATGGTACCTTCAGTCTCCACTACTTCC
CCTACTACGGCAAGAAAGCACAGCCCACTACAGCAACCCTCTGGTGGCGGCAAAGTTCCTCAACGTCCC
CAAAAACACGCAAGTCTCATCGTGTGCAAGATCATGGCGGACCAGTGCCTTCGACAACCCCCACGAC
CCCTATGAAGGGAAGGTGGAGTCAAGCTACAATACAGAAGCCCTATGAAGGGAAGGTGGAGTTCAAGC
TCACAATACAGAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR201017 representing NM_012510
Red=Cloning site Green=Tags(s)

MAALQEKKSCSQRMAEFRQYCWNPDGQMLGRTPARVWVWISLYAAFYVVMVTGLFALCIYVLMQTIIDPYT
 PDYQDQLKSPGVTLRPDVYGERGLQISYNISENSSWAGLTHLHSFLAGYTPASQQDSINCSSEKYFFQE
 TFSAPNHTKF SCKFTADMLQNCGLVDP SFGFEEGKPCFIIKMNRIKVF LPSNNTAPRV DCTFQDDPQKP
 RKDIEPLQVQYYPNGT FSLHYFPYYGKKAQPHYSNPLVAAKFLNVPKNTQVLIVCKIMADHVTFDNP
 PHD
 PYEGKVEFKLTIQKPYEGKVEFKLTIQK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1543_f02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_012510

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:

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 Size: 1484 bp

RefSeq ORF: 885 bp

Locus ID: 24217

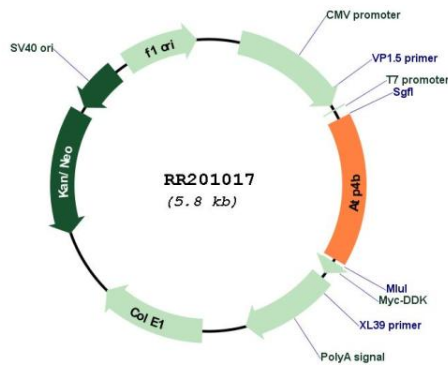
UniProt ID: [P18598](#)

Cytogenetics: 16q12.5

MW: 33.7 kDa

Gene Summary: subunit of ATP dependent pump that catalyzes the exchange of H⁺ and K⁺; involved in secretion of stomach acids [RGD, Feb 2006]

Product images:



Circular map for RR201017