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Product datasheet for MC224062

Atp8b1 (NM_001001488) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	Atp8b1
Synonyms:	AI451886; FIC1; Ic
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

>MC224062 representing NM_001001488
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGCACAGAAAGAGACTCGGAAACAACATTTGATGAGGAGTCTCAGCCCAACGATGAAGTGGTCCCCT
ACAGTGATGATGAAACTGAAGACGAACTTGAAGATCAGGGGTCCACGGTTGAACCAGAACAGAATCGTGT
CAACAGAGAAGCTGAGAAGAAGAGAGAGACATTCCGGAAAGATTGCACGTGGCAAGTCAAAGCAAATGAC
CGAAAGTTCCACGAACAACCTCATTTCATGAACACCAAGTTCTTTTGTATTAAGGAGAGCAAATATGCGA
GTAATGCAATTAAAACATACAAGTACAATGGATTTACCTTTCTACCCATGAATTTGTTTGAGCAGTTTAA
GAGGGCAGCCAACTTCTATTTCCTCATCCTCCTGATCCTGCAGGCAATTCCTCAAATCTCCACCCTGGCA
TGGTATACCACACTTGTACCTCTGCTTTTGGTGCTGGGCATCACGGCCATCAAAGACCTGGTAGATGATG
TGGCTCGTCATAAAATGGACAAGGAAATCAACAATAGGACGTGTGAAGTCATTAAGGATGGCAGGTTCAA
AATCATCAAGTGGAAAGATATCCAGGTTGGAGATGTCATCCGCCTGAAGAAGAATGATTTTATTCCAGCT
GACATCCTGCTGTTGTCCAGTTCAGAGCCTAACAGCCTCTGCTATGTAGAAACGGCTGAGCTCGACGGAG
AAACCAATTTGAAGTTCAAAATGGCCCTGGAAATCACGGACCAATATCTCCAAATAGAAGATAACTTGGC
AACATTTGATGGTTTCATCGAATGTGAAGAACCAAACAATCGGTTAGACAAGTTCACAGGAACGCTGTTT
TGGAAGAACCAAAGCTTTCCTTTGGATGCTGATAAAATCCTGTTACGAGGTTGTGTGATAAGGAACACCG
ATGTCTGCCATGGCCTGGTCATTTTTGCAGGTGCTGACACAAAGATAATGAAGAATAGTGGGAAAACCAG
ATTTAAAAGAACCAAAATTGATTACTTGATGAACTACATGGTGTACACGATCTTTATTGTTCTCATCCTG
GTTTCTGCCGGCCTCGCCATTGGCCACGCCTATTGGGAAGCCCAAGTTGGCAATTATTCCTGGTACCTCT
ATGATGGAGAAAATGCCACACCGTCCTACCGGGGATTCCTGAATTTCTGGGGCTACATCATTGTATTGAA
CACCATGGTGCCCATTTCTCTCTATGTCAGTGTGGAAGTGATCCGTCTGGGACAGAGTCATTTCATCAAC
TGGGACCTGCAGATGTACTATGCTGAGAAGGACACTCCTGCCAAGGCGAGGACCACCACCTTGAATGAGC
AGCTAGGGCAGATTCATTACATCTTCTCTGATAAGACGGGGACACTCACGCAAAATATCATGACCTTCAA
AAAGTGCTGCATTAACGGGACTATCTATGGAGACCATCGAGATGCTTCTCAACACAGCCACAGCAAAATC
GAGCTAGTGGACTTTAGCTGGAATACATTTGCCGATGGAAAGCTTGCATTTTATGACCATTACCTTATCG

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AGCAAATACAGTCAGGGAAAGAGCCAGAAGTACGACAGTTCTTCTTTTTGCTTTCGATTTGCCATACGGT
CATGGTGGACAGAATTGATGGTCAGATCAACTACCAGGCGGCTTCTCCTGATGAAGGCGCCCTGGTAAAC
GCCGCCAGGAACTTCGGCTTTGCCTTTCTCGCCCGGACGCAGAACACCATCACCGTCAGCGAACTGGGCT
CAGAGAGGACCTACAACGTCCTTGCCATTTTGGATTTCAACAGCGACCGAAAGCGGATGTCTATCATCGT
GAGGACCCCAGAAGGTAGTATCCGGCTGTACTGTAAAGGTGCTGACACCGTGATTTATGAACGGCTCCAT
CGGATGAATCCTACGAAGCAAGAAACACAGGATGCCCTGGATATCTTTGCAAGTGAGACTCTCAGGACCC
TGTGCCTGTGCTACAAGGAAATTGAAGAAAAAGAATTTACAGAATGGAATAATAAGTTTATGGCCGCCAG
CGTGGCCTCAAGCAACCGAGACGAAGCGTTGGATAAAGTGTACGAGGAGATTGAGAAAGACTTGATTCTC
TTGGGAGCTACTGCTATTGAAGACAAGCTACAGGATGGAGTCCCAGAAACCATTTCAAAACTTGCAAAAG
CTGACATTAAGATCTGGGTACTCACCGGAGACAAAAAGGAAACTGCAGAAAACATAGGTTTTGCCTGTGA
ACTCTTGACGGAAGACACTACTATCTGCTACGGAGAGGACATAAACTCTCTTCTTCACACCAGGATGGAG
AATCAGAGAAACAGAGGTGGAGTCTCTGCGAAATTTGCACCTCCTGTGTATGAACCCTTTTTTCCACCTG
GAGAAAACCGTGCCTTAATCATCACTGGCTCCTGGCTGAATGAAATCCTTCTAGAGAAGAAGACCAAGAG
AAGTAAGATCCTGAAGCTGAAGTTCCCAAGGACAGAGGAGGAGAGGCGGATGCGGAGCCAGAGCCGGAGA
CGGCTGGAAGAGAAGAAAGAGCAGCGGCAAAAGAACTTCGTGGACCTGGCCTGCGAGTGCAGCGCCGTCA
TCTGCTGCCGCGTCACGCCCAAGCAGAAGGCCATGGTGGTGGACCTGGTGAAGAGGTACAAGAAAGCCAT
CACCCTGGCCATCGGAGACGGGGCCAATGATGTCAACATGATCAAAACTGCCCACATTGGTGTTGGAATA
AGTGGACAAGAAGGGATGCAAGCTGTCATGTCCAGTGACTATTCTTTTGCTCAGTTCAGATATCTGCAGC
GGTTGCTGCTGGTCCACGGCCGGTGGTCTTACATAAGGATGTGCAAGTTCCTACGATACTTCTTTTACAA
GAACTTTGCCTTTACTTTAGTTCATTTCTGGTACTCCTTCTTCAATGGCTACTCAGCCCAGACGGCGTAT
GAGGATTGGTTTATCACCCTCTACAACGTGCTGTACTCCAGTTTGCCTGTGCTCCTCATGGGGCTGCTGG
ATCAGGACGTGAGTGACAAGCTGAGCCTCCGATTCCCTGGGCTGTATGTAGTGGGGCAGAGGGACTTGCT
GTTCAACTATAAGAGATTCTTTGTCAGTTTGCTGCATGGGGTCTTAACCTCAATGGTCCTCTTCTTCATA
CCGCTTGGTGCTTATCTGCAAACAGTGGGACAGGATGGGGAGGCGCCTTCAGACTACCAGTCCTTCGCCG
TCACGGTGGCCTCCGCTCTAGTGATAACGGTCAACTTCCAGATTGGCTTGGATACTTCATACTGGACTTT
TGTGAATGCCTTTTCAATTTTCGGCAGCATCGCACTGTACTTCGGCATCATGTTTGATTTCCACAGTGCT
GGGATACACGTTCTCTTTCCGTCCGCATTTCAGTTCACAGGTACAGCTTCCAATGCCCTGAGACAGCCAT
ACATCTGGCTGACCATCATCCTGACGGTTGCCGTGTGCTTACTACCTGTCGTCGCCATCCGTTTCCTGTC
CATGACCATTTGGCCCTCAGAAAGTGATAAGATCCAGAAGCATCGAAAGCGATTGAAGGCTGAAGAGCAG
TGGAAACGGCGGCAGAGCGTGTTCCGGAGGGGAGTATCTTCCAGGCGCTCAGCCTATGCCTTTTCGCATC
AGAGAGGCTACGCAGACCTCATCTCCTCTGGCCGCAGCATCCGCAAGAAGCGCTCGCCCCTGGATGCCAT
CATCGCGGATGGCACGGCTGAGTACCGGCGCACAGTGGAGAGCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001001488

Insert Size: 3756 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.

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_001001488.3, NP_001001488.2

RefSeq Size: 6440 bp

RefSeq ORF: 3756 bp

Locus ID: 54670

UniProt ID: Q148W0

Cytogenetics: 18 E1

Gene Summary: Catalytic component of a P4-ATPase flippase complex which catalyzes the hydrolysis of ATP coupled to the transport of aminophospholipids from the outer to the inner leaflet of various membranes and ensures the maintenance of asymmetric distribution of phospholipids. Phospholipid translocation seems also to be implicated in vesicle formation and in uptake of lipid signaling molecules. May play a role in asymmetric distribution of phospholipids in the canicular membrane. Plays a role in bile salt homeostasis. In cooperation with ABCB4 may be involved in establishing integrity of the canalicular membrane thus protecting hepatocytes from bile salts. Involved in the microvillus formation in polarized epithelial cells; the function seems to be independent from its flippase activity. Required for the preservation of cochlear hair cells in the inner ear. Required for the preservation of cochlear hair cells in the inner ear. According PubMed:20852622 is proposed to act as cardiolipin transporter during inflammatory injury; the function is questioned by PubMed:21475228.[UniProtKB/Swiss-Prot Function]