OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MC223971

Atp8b2 (NM_001081182) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atp8b2 (NM_001081182) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Atp8b2
Synonyms:	Id
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

>MC223971 representing NM_001081182
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCACTGTGTGCAAAAAAGCGCCCCCCAGAAGAAGAGCGGAGGGCGCGGGCTAACGACCGTGAATACA
ATGAGAAATTCCAGTATGCGAGTAACTGCATCAAGACCTCCAAGTACAATATTGTCACCTTCCTGCCTGT
CAACCTCTTTGAGCAGTTCCAGGAAGTTGCCAACACCTACTTCCTGTTCCTTCTCATTCTGCAGTTAATC
CCCCAGATCTCGTCCCTGTCCTGGTTCACCACCATTGTGCCTTTGGTTCTCGTCCTCACCATCACAGCTG
TTAAAGATGCCACCGATGACTATTTCCGCCACAAGAGTGATAACCAGGTGAATAACCGTCATTCTCAGGT
GCTGATCAATGGAGTCCTCCAACAAGAGCAGTGGATGAATGTATGCGTTGGTGATATTATCAAGCTAGAA
AATAACCAGTTTGTGGCGGCGGACCTCCTCCTCCTTTCCAGCAGCGAACCCCACGGGCTGTGTTACATAG
AGACCGCAGAGCTGGATGGAGAGACCAACATGAAAGTGCGCCAGGCCATTCCAGTCACCTCAGAGCTGGG
AGACGTCAGTCAGCTGGCCAGGTTTGATGGCGAAGTAATCTGCGAACCACCCAACAACAAGCTGGACAAA
TTCAGTGGGACTCTGTACTGGAAGGAAAACAAGTTCCCCCTGAGCAACCAGAACATGCTGCTGAGAGGTT
GTGTGCTGAGAAACACTGAGTGGTGCTTCGGGCTGGTCATCTTTGCAGGTCCTGATACTAAGCTGATGCA
GAACAGCGGCAGGACGAAGTTCAAGAGAACAAGTATCGACCGCCTGATGAACACCCTGGTACTCTGGATT
TTTGGGTTCCTGGTTTGCATGGGGGTGATCCTGGCCATCGGTAATGCCATCTGGGAGCACGAAGTTGGGA
CGCGCTTCCAGGTCTACCTGCCCTGGGACGAGGCGGTGGACAGTGCCTTCTTCTCTGGCTTCCTCTCCTT
CTGGTCCTATATCATCATCCTCAACACCGTTGTGCCCATCTCACTGTACGTCAGTGTGGAAGTCATCCGC
TTGGGCCACAGCTACTTTATCAACTGGGACAAGAAGATGTTCTGCATGAAGAAGCGGACCCCTGCGGAGG
CCCGTACCACCACTCTGAACGAAGAGCTGGGCCAGGTGGAGTACATCTTCTCTGATAAGACGGGCACCCT
TACCCAGAACATCATGGTGTTCAACAAATGCTCCATCAACGGCCACAGCTATGGTGATGTGTTTGATGTC
TTGGGGCACAAAGCTGAATTGGGAGAGAGACCAGAGCCTGTTGACTTCTCCTTTAATCCACTGGCTGACA
AGAAATTCTTGTTTTGGGACTCGAGTCTCTTGGAGGCCGTCAAGATGGGGGACCCACACACGCACGAGTT
CTTCCGTCTCCTCTCCTTGTGTCACACTGTCATGTCAGAAGAAAAGAACGAAGGAGAGCTGTACTACAAA

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GCTCAGTCTCCAGATGAGGGCGCTCTGGTCACCGCAGCCAGGAATTTTGGTTTTGTGTTCCGCTCTCGTA
CCCCTAAAACAATCACTGTCCATGAGCTCGGTACAGCCATCACCTACCAGCTGCTGGCCATCTTGGACTT
CAACAACATTCGCAAGCGGATGTCAGTCATAGTTCGGAATCCAGAGGGGAAGATACGACTCTACTGCAAA
GGGGCTGACACAATCCTGCTAGACAGGCTCCACCCTCCTACCCAGGAGCTGCTCAGCAGCACCACTGACC
ATCTGAATGAGTATGCAGGGGACGGGCTGAGGACCCTGGTGTTGGCCTACAAAGACCTGGATGAAGAGTA
CTATGAGGAGTGGGCCAGGAGACGCCTCCAGGCTAGCCTGGCCCAAGACAGCCGAGAGGACAGGCTAGCC
AGCATCTATGAAGAGGTTGAGAGTGACATGATGCTGCTGGGTGCCACGGCCATTGAGGACAAGCTTCAGC
AGGGAGTCCCAGAGACCATTGCCCTCTTGACTCTGGCCAACATCAAGATTTGGGTGCTAACAGGAGATAA
GCAAGAGACAGCTGTGAACATTGGCTACTCCTGTAAGATGCTGACTGACGACATGACAGAGGTGTTTGTA
GTCACAGGCCACACTGTCCTGGAGGTGCGAGAGGAGCTGAGGAAAGCCCGGAAGAAGATGGTAGATTCCT
CCCACGCTGTGGGCAACGGCTTCACCTACCAGGGGAACCTTTCTTCTTCAAAGCTCACTTCTGTCCTGGA
GGCTGTTGCTGGGGAGTACGCCTTGGTCATCAACGGGCACAGCCTGGCCCATGCCTTGGAGGCTGATATG
GAGCTAGAGTTTCTGGAGACAGCATGTGCCTGCAAAGCTGTCATCTGCTGTCGAGTGACACCCCTGCAGA
AGGCACAAGTGGTGGAACTGGTTAAGAAGTACAAGAAGGCAGTGACACTTGCCATTGGGGATGGAGCCAA
TGATGTCAGCATGATTAAAACTGCTCACATTGGTGTGGGCATCAGTGGGCAGGAAGGGATCCAGGCTGTC
CTGGCTTCCGATTATTCCTTTTCACAGTTCAAGTTCCTGCAACGCCTCCTGCTGGTGCATGGGCGCTGGT
CCTACCTACGCATGTGCAAGTTCCTCTGCTATTTCTTCTACAAGAACTTTGCGTTCACCATGGTCCACTT
CTGGTTTGGCTTCTTCTGCGGTTTCTCAGCCCAGACCGTTTATGACCAGTACTTCATCACCCTGTATAAC
ATCGTGTACACCTCCCTCCCCGTCCTAGCCATGGGCGTCTTTGACCAGGATGTCCCGGAACAGCGAAGCA
TGGAGTACCCTAAACTGTACGAGCCAGGCCAGTTGAACCTCCTATTCAACAAGCGAGAGTTCTTCATCTG
CATCGCCCAGGGCATCTACACCTCTGTGCTCATGTTCTTCATCCCCTATGGGGTGTTTGCGGAGGCCACT
CGGGATGATGGCACCCAACTGGCAGACTACCAGTCCTTTGCAGTCACTGTGGCCACATCGCTGGTCATTG
TGGTCAGTGTGCAGATTGGGCTGGATACAGGCTATTGGACAGCCATCAATCACTTCTTCATCTGGGGCAG
CCTTGCAGTGTACTTCGCCATCCTCTTTGCCATGCACAGCAATGGACTCTTTGACATGTTCCCAAACCAG
TTCCGGTTTGTGGGGAATGCCCAGAACACCCTGGCCCAGCCCACCGTGTGGCTCACCATCGCGCTCACCA
CGGCTGTCTGCATCATGCCTGTGGTTGCCTTCCGCTTCCTCAGGCTTAGCCTGAAGCCGGATCTCTCCGA
CACGGTCCGCTACACCCAGCTGGTAAGGAAGAAGCAGAAGGCGCAGCACCGCTGCATGCGGCGAGTGGGC
CGCACAGGCTCTCGGCGCTCTGGCTATGCCTTCTCTCATCAGGAAGGTTTTGGGGAGCTCATTATGTCTG
GCAAGAACATGCGGCTTAGCTCCCTGGCCCTCTCCAGCTTCAGCACGCGCTCCAGCTCCAGCTGGATCGA
GAGCCTGCGCAGGAAGAAAAGTGACAGTGCCAACAGCCCCAGTGGCGGAGCTGAGAAGCCCCTCAAGGGC
TGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001081182

Insert Size: 3573 bp

OTI Disclaimer: 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.
RefSeq:	NM_001081182.2, NP_001074651.2
RefSeq Size:	5459 bp
RefSeq ORF:	3573 bp
Locus ID:	54667
Cytogenetics:	3 F1
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 (By similarity).[UniProtKB/Swiss-Prot Function]