

Product datasheet for **MC224261**

Atp8b3 (NM_026094) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Atp8b3 (NM_026094) Mouse Untagged Clone
Tag: Tag Free
Symbol: Atp8b3
Synonyms: 1700042F02Rik; 1700056N23Rik; ATPIK; SAPLT
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC224261 representing NM_026094
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGATGGAGTTCATCTCGGGGAGAACCTTGAGGATAAAGACACAGAGTTCACCTGGGAGGTGAAGGCCA
ATGACAGAACCTATCACAAGCAGTTCAGAAGAAGGGCTTCTATGCTGGAGGCAGAAGAAGTACAAGG
CAACGCCATCCACTGCCAAATACAACATCTTCTCCTTCTGCCTGTGAACCTGTACGAGCAGTCCAT
CGAATGTCCAATCTACTTCTTTTTATCATCATCCTGCAGGGCATCCCCGAGATCTCCACTGCCCT
GGTTCACGCTCTTGCACCTCTGGTCTGCCTGTTGTGATCCGGGCCACTCGTGATCTTGTGGATGACAT
TGGTCGACACAGGAGCGATAAGATCATCAACAACAGGCCTTGCCAGATCCTGAGGGGGAAGATTTCTG
TGAAGAAGTGAAGAATCTATGTGTGGGGGACGTGGTGTGTCTCAGCAAAGACAGCATTGTCCCGGCCG
ACTTGCTCCTGCTGGCCAGCACAGAGCCAGTAGCCTGTGCTACGTGGAGACCGCAGACATCGACGGGA
GACCAACTGAAGTTCAGGCAGGCTCTGACGGTCACGCACCATGAACTTACCAGCCGAAGAAGATGGCT
TCCTTCCAGGGTACAGTGACTTGCAGGAACCCAAACAGCCGAATGCATCATTTTGTGGGGAGTCTGGAGT
GGAACAGCAGGAAGTACCCTTTGGACATCGGGAATCTGCTTCTGCGTGGCTGCAAGATCCGCAACACAGA
CACCTGTTACGGCCTCGTCATCTATGCTGGTTTAGACACAAGATCATGAAGAATTGTGGGAAGATTCAT
CTGAAGAGGACCAAGCTGGACCTGATGATGAACAAGCTGGTGGCCCTGATCTTCTGTCCCTGGTAAATCG
CGTCCCTGTTGCTGACGGTGGGCTTACCTTTCATGGTGAACAGTTCAAAGCCAAGCATTACTACATGTC
ACCCACCCACGGGCGCTCGGACGCGATGGAGTCTTCTTTCATCTTCTGGGGCTTCTCATCTGCTCAGC
GTCATGGTGGCCATGGCCATGTTTATCATTGCGGAGTTCATCTACCTAGGCAACAGCATTTCATTA
GGGACCTCAATATGTAACGAGCCACTGGACATGCCAGCAAGGCCCGCAGCACCAGTCTCAACGACCA
GCTGGGCCAGGTGCAGTACATCTTCTCAGACAAGACCGGGACGCTGACGCAGAACATCATGACCTTCAAG
AAGTGCTGTATCAATGGCTGCATCTATGATTGACAGGATGAACATGGGACGCTTCGAAAGCGGAACCCAT
ATGCCTGGAACCCATTCCGCTGATGGCAAACCTCCAGTCTACAATAAGGAGCTGGAATCCCTGGTGC
AAGG
CCGGCAGGACCGAGCGGTTGAGGAGTTTGGCGTCTGCTGGCCATCTGCCACACCGTGATGGTACAGGAG
AAGACAACCAGCTGCTGTACCAGGCTGCCTCCCTGATGAGGAAGCACTGGTACCAGGCTGCCCGAACT



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TTGGCTACGTATTTCTGTCTCGGACCCAGGACACCATCACACTGGTGGAGCTGGGGGAGGAACGGGTCTA
 CCAGGTTCTGGCCATGATGGATTTAACAGCGTTCGAAACGGATGTCAGTGTGGTCCGAAACCCAGAG
 GGCTCCATCTGCCTCTACACCAAGGGTCCGACACTGTATCCTGGAGCGTCTCCGCAGTAAGGGTGTCA
 TGGAGGCCACCACCGAGGAAGTCTTGGCTGCCTTTGCAGAGCAGACCCTGCGCACCTGTGCCTGGCCTA
 CAAGGATGTGGAGGAGGATGCCTACAAAGAATGGGAGCCGGAGCACCAGGAGGCCGCCCTCTGTACAG
 AACCGTGCAGGCCCTGCACCAGGTGTATAATAAGATGGAACAGAACCTGCAGTGTGGGAGCCACCG
 CCATTGAAGACAAACTGCAAGATGGCGTTCCTGAGACCATAAATGCCTCAAGAAGGGGAACATTTAAAT
 ATGGGTGCTGACCGGGACAAGCCAGAGACCCGAGTGAACATCGGCTTTGCGTGCCAGCTGCTGCGGAG
 AATATGATAATTCTGGAAGATAAGGACATCAATCAAGTACTGGAAGGTATTGGGAAGACACGTACACC
 AGAAGGCGTTCAAATGATGACCACCACAACATGGCCTTGGTTATCAATGGAGAATTCTTGGATCAGCT
 CCTCTGTCTTGCAGAGGAGCCCGAGCCCTAGTCCAGAATGCAGTGGTGGATGAGGTGCGCCAGGAG
 CCGGTTGTGTCGCGTTAGACTTCTCCAGAAGCGGAGGATCTCCAGATGTGGAGAAACGCTGGCCCT
 CTCTGGGAACGTCCACTCAGCCGACTCCAAGATCCGGGAGAGCCAGAGGTGCAGCGGGAGAGGGCCTT
 TGTAGACCTGGCCTCAAATGCCAGGCTGTATCTGCTGCAGGGTACCCTCAAGCAAAGGCCCTTGTG
 GTGGCATTGGTGAAGAAATACCAGCAGGTGGTGCAGCTGGCCATCGGAGATGGAGCAACGATGTGAACA
 TGATCAAGACTGCGGACATTGGTGTAGGACTGGCAGGCCAGGAGGCATGCAGGCAGTTCAGAACAGCGA
 CTACGTGCTGGCCAGTTCTGCTACCTGCAGCGGCTGCTCCTTGTGCATGGGCGCTGGTCTACATGCGA
 GTCTGCAAGTTTCTGCGTTACTTCTTACAAGACAGTGGCCAGCATGATGGCCAGATATGGTTCTCTC
 TAGTCAACGGCTTCTCTGCACAGCCCCTGTATGAAGGCTGGTTCCTGGCTCTCTTAACTGCTGTATTC
 CACGCTTCCAGTCTGTATTTGGCCTGTTTGGCAGGATGTGACCCGAGAGAAGAGCCTAAAGATGCCG
 GAGTTGTACATGGCCGGCCAGAAAGCGAGCTGTTCAACTACAGCATTTTCATGCAAGCCATCACCACG
 GCACCATCACATCCATGATCAACTTCTTGTACGGTTATGGTGCAGTCTGCATGTCCAAGGCTGGCAG
 CTCCCAGACTACCAGTCTTAGGGTATTGGTGGCCATATCTAGCCTACTGTGAGTACCCTGGAGGTC
 ATGCTTGTGGTAAAGTACTGGACACTCCTGTTTGTGGGCGCAGTGTGCTCAGCCTCAGTCTCTATGTCC
 TCATGACCAGCCTCACTCAGAGTCTATGGATGTACAGGATCTCGCCAAAGACCTTCCATTTCTGTTTGC
 TGACTACAACGTGCTCTTCGAGCCTTGCAGTCTGCTGTTGATTGTAATGTGGCCCTGAACGTTCTG
 CCCATGCTGGCTTTCGCGACAATCCATAGAAGTCTTGAACAGCGCCCTAAGGGGAAGAGGAGGCC
 CGAGTGAAGAAGTAGCCGTGGAGCCGGCCATGAGGCATCTTCGCCGTGGCATCCCAGCTCGCCGTTCCAG
 CTATGCCTTCTCCACCGTGAGGGCTACGCAAACCTCATACCCAGGGCACCATCTGCGCAGGCAAACG
 CACGTGGATGATCCGATGGGGCACAGTCTGTGAATCCCTGAACCCACCCGAAGAAGACATTCCCTTGC
 AAAACAAAGATTCAGTATTTAATCCGCGGAAGATCTCCATCCTGGCCAAGAAGAGACGTCATTTCTTGG
 AAAGGGTCCCAGGAAGAGGTCCACCCAACTAGCTCCAGACCATGGAGAAACAGCCACCATTACAC
 AGAGACTCTGAGACCCAGAAGCTACCCACCACCACAAGTGCCACGTGGGGAAAGTGTGCTGCCGTCGAT
 CCGAGGATGAGGCTTTCTACAGTGTGGCTTACAGTACACTCTGGCAAGCCAGCCAAAACACAGGATGT
 CCACTCTCATTCTGGAAGAGCCCCCTCTGGAGGGATTACGCTCTTCTAGTCCGAGCCAGCTGGAAGTC
 CCCAGAAAGCAAAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_026094
Insert Size: 4008 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.

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](#)

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_026094.3](#), [NP_080370.2](#)

RefSeq Size: 4411 bp

RefSeq ORF: 4008 bp

Locus ID: 67331

UniProt ID: [Q6UQ17](#)

Cytogenetics: 10 C1

Gene Summary: P4-ATPase flippase 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 be responsible for the maintenance of asymmetric distribution of phosphatidylserine (PS) in spermatozoa membranes. Involved in acrosome reactions and binding of spermatozoa to zona pellucida.[UniProtKB/Swiss-Prot Function]