

Product datasheet for **MC229406**

Atp11a (NM_001293668) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Atp11a (NM_001293668) Mouse Untagged Clone
Tag: Tag Free
Symbol: Atp11a
Synonyms: 4930558F19Rik; Atpc1h; AU040868; lh
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC229406 representing NM_001293668
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGACTGCAGTCTATTGAGGACGCTCGTGCGCAGATACTGTGCAGGGGAAGAGAACTGGGTGGACAGTC
 GGACCATCTACGTGGGACACAAGGAGCCCCCTCCGGGTGCAGAGGCCTACATTCCACAGAGATACCCCGA
 CAATAGAATCGTCTCCTCCAAGTACACATTCTGGAACCTCATACCAAGAAGTATTTGAACAGTTCAGA
 AGAATAGCCAACCTTTATTTCTCATCATCTTCTGGTACAGTTGATCATCGACACACCCACAAGTCCAG
 TGACAAGCGGGCTCCCACTCTTCTCGTCATCACTGTCACGGCCATCAAGCAGGGCTATGAAGACTGGCT
 TCGCCACAAGGCCGACAACGCCATGAACCAAGTGTCCCCTGCACTTTATCCAGCATGGCAAGCTGGTCCGC
 AAGCAGAGTCGGAAGCTGAGGGTTGGGGACATTGTGATGGTGAAGGAAGATGAGACCTTTCCCTGTGACC
 TGATCTTTCTCTCCAGCAACCGGGCAGATGGGACATGCCATGTCACACTACAGCCAGCTTAGACGGAGATC
 GAGCCATAAACTCACTACGCAGTGCAGGATACCAAGGGCTTCCACACAGAGGCGGATGTTGACAGCTTG
 CACGCCACGATCGAGTGTGAACAGCCACAGCCTGACCTCTACAAGTTTGTGGGGCGCATCAATGTTTACA
 ACGACCTGAACGACCCTGTAGTGAGGCCTTTGGGGTCAAGAACTGCTTCTCAGAGGACCCACACTCAA
 AAACACAGAGAAGATCTTTGGTGGCTATCTACACAGGCATGGAGACCAAGATGGCCCTGAACATCAA
 TCCAAGTCCCAAAAGAGATCTGCTGTGGAAAAGTCAATGAACACATTCTGATCGTGTACCTCTGCATCC
 TGGTGAGCAAGGCCCTGATCAACACGGTGTGAAGTACGTGTGGCAGAGTGAAGCCCTCCGAGATGAGCC
 ATGGTACAACGAGAAGACCGAATCCGAGCGCCAGAGGAATTTGTTCTCAGGGCCTTACCAGCTTCTCTG
 GCCTTCATGGTCTCTTCAATTACATCATCCCCGTATCCATGTACGTACCCTGGAGATGCAGAAGTTCC
 TCGGCTCTACTTCATCACCTGGATGAGGACATGTTTGTGAGGAAATGGGGAAAGGCCCTCTGGTCAA
 CACATCTGATCTGAATGAGGAGTTGGGACAGGTGGAATACATCTTCACTGACAAGACCGGCACGCTTACA
 GAGAACAACATGGCCTTCAAGGAGTGTGCATCGAGGGCCATGTCTACGTACCCCATGTCTGCAATG
 GGAGGTCTTCCGACTTCTGGCATTGACATGATCGATTCTCCCGGAGTCTGTGAAGGGAAACG
 GGAGGAGCTGTTTTTCAGGGCCATCTGCCTGTGCCACACTGTCCAAGTAAAGATGACCATTTGTGGGGAT
 GATGTCGATGGTCCCGAAATCTCCAGATGCAAAATCTGTGTGATACATATCGTCTCGCTGATGAGG



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TTGCACTGGTCTGAAGGCGTGCAGAGGCTTGGATTACGCTACCTGAGGCTGAAGGACAATTACATGGAAAT
 ACTGAACAGGGGAGAACGACATAGAGAGATTTGAATTGCTAGAAGTGTGACCTTTGATTCTGTGCGGAGA
 AGAATGAGTGTGATTGTAAGTCTACTACAGGAGAAATTTATCTGTTTTGCAAAGGAGCAGATTCTTCAA
 TATTTCCCGAGTGATAGAAGGCAAAGTAGACCAGGTCCGGTCTAGAGTGGAGCGCAATGCCGTGGAAGG
 GCTGCGAACCCGTGTGTGCATACAAGAGGCTCGAGCCAGAGCAGTACGAAGATGCTTGCCGACTGCTA
 CAGAGTGCCAAAGTGGCGCTTCAGGACCGGAGAAGAAGCTGCCAGAAGCCTACGAGCAGATAGAGAAGG
 ACCTTGTCTGCTTGGTGTACGGCTGTGAGGACAGGCTCCAGGAGAAAGCTGTCACACAATTGAGGC
 ACTACAGAAGGCAGGCATCAAGGTCTGGGTGCTCACCGGGACAAGATGGAGACAGCATCCGCCACCTGC
 TATGCCTGCAAGCTGTTCCGAGGAGCACGCAGCTGCTGGAGCTGACCACCAAGAAGCTAGAGGAGCAGA
 GCCTGCACGATGTGCTCTTCGACCTGAGCAAGACAGTGTGCGCTGCAGCGGGAGCATGACCAGGGACTC
 CTTCTCGGGGCTCTCCACAGATATGCACGACTATGGTTAATCATCGATGGAGCAGCACTGTCTTGATA
 ATGAAGCCGAGAGAGGACGGGAGCTCCTCGGGCAACTACCGAGAGCTCTTCTGGAGATGTCAGGAACT
 GCAGTGTGTGCTGTGCTGCCGGATGGCACCTTGCGAAGGCCAGATCGTTAAGTTAATCAAATTTTC
 AAAGGAGCATCCTATTACCTTAGCAATGGTGATGGTGCAAATGATGTCAGTATGATCCTGGAGGCCAC
 GTGGGCATAGGTGTCATCGGAAAGAGGGTCGCCAGGCTGCAAGGAACAGCGACTATGCAATACCCAAGT
 TTAACACTTAAAGAAGATGCTTCTTGTTCATGGGCATTTTTATTATATCAGGATATCTGAGCTTGTGCA
 ATACTTCTTTTATAAGAAGCTGCTTCCATTTTCCCTCAGTTTTTGTACCAAGTCTTCTGCGGATTTTCA
 CAGCAGACTTTGTACGATACTGCGTATCTGACTCTTACAACATCAGTTCACTTCCCTCCCGATTCTCC
 TGTACAGCCTCATGGAGCAGCAGTGGGCATTGACGTGCTCAAGAGAGACCCGACCCTCTACAGAGACAT
 TGCCAAGAATGCGCTGCTGCGCTGGCGGGTGTTCATTTACTGGACGTTTTCTCGCGTTTTTGACGTTTTG
 GTATTTTTCTTTGGTGTATTTTCATATTTGAGAACACAACCGTGACCATCAACGGACAGATGTTTGGGA
 ACTGGACCTTCGGGACGCTGGTGTTCAGTGTGATGGTGTCTCACTGTCACACTGAAGCTCGCACTGGACAC
 GCACACTGGACTTGGATCAACCACTTTGTGTCATCTGGGGTTCGCTGCTTCTACATTGCCCTTCCCTG
 CTCTGGGAGGGGTTATCTGGCCGTTCCCTCAGTTACCAGAGGATGTAATGTGTTTATCCATGCTGT
 CCAAGTGGGCTGCCTGGCTGGGTATCATACTGCTTGTACCGTTCGGCCTCCTCCCTGACGCTCCTCAAGAA
 GGTCTGTGTAGGACAGCTGTGGCCACGGCAACGGAGAGAACTCAGGCCAGGAACAAGTGCCCTTTCTGTT
 GAGCAGCCACCCTTTATGCTTTCCAGACCAGTGTGAGTTCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001293668
- Insert Size:** 3414 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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_001293668.1](#), [NP_001280597.1](#)

RefSeq Size: 7528 bp

RefSeq ORF: 3414 bp

Locus ID: 50770

Cytogenetics: 8 A1.1

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]
Transcript Variant: This variant (3) contains an alternate exon in the 3' end compared to variant 1. The resulting isoform (3) has a shorter and distinct C-terminus compared to isoform 1.