

## Product datasheet for **MC229407**

### Atp11a (NM\_001293667) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Atp11a (NM_001293667) 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:	>MC229407 representing NM_001293667 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACTGCAGTCTATTGAGGACGCTCGTGCGCAGATACTGTGCAGGGGAAGAGAACTGGGTGGACAGTC  
GGACCATCTACGTGGGACACAAGGAGCCCCCTCCGGGTGCAGAGGCCTACATTCCACAGAGATACCCCGA  
CAATAGAATCGTCTCCTCCAAGTACACATTCTGGAACCTCATACCCAAGAACTTATTTGAACAGTTCAGA  
AGAATAGCCAACCTTTATTTCTCATCATCTTCTGGTACAGTTGATCATCGACACACCCACAAGTCCAG  
TGACAAGCGGGCTCCCACTCTTCTCGTCATCACTGTCACGGCCATCAAGCAGGGCTATGAAGACTGGCT  
TCGCCACAAGGCCGACAACGCCATGAACCAAGTGTCCCCTGCACTTTATCCAGCATGGCAAGCTGGTCCGC  
AAGCAGAGTCGGAAGCTGAGGGTTGGGGACATTGTTCATGGTGAAGGAAGATGAGACCTTTCCCTGTGACC  
TGATCTTTCTCTCCAGCAACCGGGCAGATGGGACATGCCATGTCACTACAGCCAGCTTAGACGGAGAGTC  
GAGCCATAAACTCACTACGCAGTGCAGGATACCAAGGGCTTCCACACAGAGGCGGATGTTGACAGCTTG  
CACGCCACGATCGAGTGTGAACAGCCACAGCCTGACCTCTACAAGTTTGTGGGGCGCATCAATGTTTACA  
ACGACCTGAACGACCCTGTAGTGAGGCCTTTGGGGTCAAGAACTGCTTCTCAGAGGACCCACACTCAA  
AAACACAGAGAAGATCTTTGGTGTGGCTATCTACACAGGCATGGAGACCAAGATGGCCCTGAACTATCAA  
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TGGTGAGCAAGGCCCTGATCAACACGGTGTGAAGTACGTGTGGCAGAGTGAAGCCCTTCCGAGATGAGCC  
ATGGTACAACGAGAAGACCGAATCCGAGCGCCAGAGGAATTTGTTCTCAGGGCCTTCCAGACTTCTCTG  
GCCTTCATGGTCTCTTCAATTACATCATCCCCGTATCCATGTACGTACCGTGGAGATGCAGAAGTTCC  
TCGGCTCTACTTCATCACCTGGGATGAGGACATGTTTGTGAGGAAATGGGGAAAGGCCCTCTGGTCAA  
CACATCTGATCTGAATGAGGAGTTGGGACAGGTGGAATACATCTTCACTGACAAGACCGGCACGCTTACA  
GAGAACAACATGGCCTTCAAGGAGTGTGCATCGAGGGCCATGTCTACGTACCCCATGTCTGCAATG  
GGCAGGTCTTCCGACTCTTCTGGCATTGACATGATCGATTCTTCCCGGAGTCTGTGAAGGGAAACG  
GGAGGAGCTGTTTTTCAGGGCCATCTGCCTGTGCCACACTGTCCAAGTAAAGATGACCATTTGTGGGGAT  
GATGTGATGGTCCCCAGAAATCTCCAGATGCAAAATCTGTGTGATACATATCGTCTCGCTGATGAGG



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TTGCACTGGTCTGAAGGCGTGCAGAGGCTTGGATTACGTAACCTGAGGCTGAAGGACAATTACATGGAAAT
ACTGAACAGGGGAGAACGACATAGAGAGATTTGAATTGCTAGAAGTGTGACCTTTGATTCTGTGCGGAGA
AGAATGAGTGTGATTGTAAGTCTACTACAGGAGAAATTTATCTGTTTTGCAAAGGAGCAGATTCTTCAA
TATTTCCCGAGTGATAGAAGGCAAAGTAGACCAGGTCGGTCTAGAGTGGAGCGCAATGCCGTGGAAGG
GCTGCGAACCCGTGTGTGCATACAAGAGGCTCGAGCCAGAGCAGTACGAAGATGCTTGCCGACTGCTA
CAGAGTGCCAAAGTGGCGCTTCAGGACCGGAGAAAGCTGCCAGAAGCCTACGAGCAGATAGAGAAGG
ACCTTGTCTGCTTGGTGTACGGCTGTTGAGGACAGGCTCCAGGAGAAAGCTGCTGACACAATTGAGGC
ACTACAGAAGGCAGGCATCAAGGTCTGGGTGCTCACCGGGACAAGATGGAGACAGCATCCGCCACCTGC
TATGCCTGCAAGCTGTTCCGAGGAGCACGCAGCTGCTGGAGCTGACCACCAAGAAGCTAGAGGAGCAGA
GCCTGCACGATGTGCTCTTCGACCTGAGCAAGACAGTGTGCGCTGCAGCGGGAGCATGACCAGGGACTC
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ATGAAGCCGAGAGAGGACGGGAGCTCCTCGGGCAACTACCGAGAGCTCTTCTGGAGATGTCAGGAACT
GCAGTGTGTGCTGTGCTGCCGGATGGCACCTTGCGAAGGCCAGATCGTTAAGTTAATCAAATTTTC
AAAGGAGCATCCTATTACCTTAGCAATGGTGATGGTGCAAATGATGTCAGTATGATCCTGGAGGCCAC
GTGGGCATAGGTGTCATCGGAAAGAGGGTCGCCAGGCTGCAAGGAACAGCGACTATGCAATACCCAAGT
TTAAACACTTAAAGAAGATGCTTCTTGTTCATGGGCATTTTTATTATATCAGGATATCTGAGCTTGTGCA
ATACTTCTTTTATAAGAAGCTGCTTTCATTTTCCCTCAGTTTTTGTACCAGTCTTCTGCGGATTTTCA
CAGCAGACTTTGTACGATACTGCGTATCTGACTCTTACAACATCAGTTCACTTCCCTCCCGATTCTCC
TGTACAGCCTCATGGAGCAGCACGTGGGCATTGACGTGCTCAAGAGAGACCCGACCCTCTACAGAGACAT
TGCCAAGAATGCGCTGCTGCGCTGGCGGGTGTTCATTTACTGGACGTTTTCTCGCGTTTTTGACGTTTTG
GTATTTTTCTTTGGTGTATTTTCATATTTGAGAACACAACCGTGACCATCAACGGACAGATGTTTGGGA
ACTGGACCTTCGGGACGCTGGTGTTCACCTGTGATGGTGTCTCACTGTCACACTGAAGCTCGCACTGGACAC
GCACACTGGACTTGGATCAACCACTTTGTGTCATCTGGGGTTCGCTGCTTCTACATTGCTTCTCCCTG
CTCTGGGAGGGGTTATCTGGCCGTTCTCAGTTACCAGAGGATGTAATGTTGTTTATCCATGCTGT
CCAGTGGGCTGCTGGCTGGGTATCATACTGCTTGTACGCTGGCCTCCTCCCTGACGCTCCTCAAGAA
GGTCTGTGTAGGACGCTGTGGCCACGGCAACGGAGAGAACTCAGCAGAGCACCCGACTCAAAGCATTG
GCCGATGCCACCTCGAACAGCGCCAGGCCCTGCTGAAGGACTTCTTACCAGCAAGACATGCTAG

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**ACGGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001293667
- Insert Size:** 3429 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\_001293667.1, NP\_001280596.1

**RefSeq Size:** 7547 bp

**RefSeq ORF:** 3429 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 (2) contains an alternate exon in the 3' end compared to variant 1. The resulting isoform (2) has a shorter and distinct C-terminus compared to isoform 1.