

## Product datasheet for **MC223632**

### Atp11c (NM\_001001798) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Atp11c (NM\_001001798) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Atp11c  
**Synonyms:** A330005H02Rik; AI315324; Ig  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC223632 representing NM\_001001798  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGTTCCGCCGGACCCTCAACCGTTTGTGTGCTGGAGAAGAGAAACGAGTTGGTACACGCACAGTGTGTTG  
TTGGCAATCATCCATTTCTGGAACAGAACCTTATATTGCGCAAAGATTTTGTGATAATAGAATAGTCTC  
ATCTAAGTATACACTTTGGAATTCCTCCCTAAGAATTTGTTTGAACAGTTTAGAAGAATTGCGAATTTT  
TATTTCCCTCATCATTTTCTTGTACAGGTCACAGTAGACACACCAACCAGCCAGTTACCAAGTGGACTTC  
CACTTTTTTTCTGTTATACTGTTACAGCAATCAAGCAGGGGTATGAAGATTGGCTTAGACACAGAGCTGA  
TAATGAAGTTAACAAAAGTGCTGTTTATATTGAAAATGCAAAGCGAGTGAGGAAAGAAAGTGAAAAA  
ATCAAGGTTGGTGATGTAGTAGAAGTACAGGCAAATGAAACCTTCCCTGTGATCTTATACTTCTGTCTC  
CCTGCACAACCTGATGGAACCTGTTATGTCACTACAGCCAGTCTTGATGGTGAATCTAATTGCAAGACACA  
TTATGCAGTACGAGATACCATTGCAGTGTACAGCCGAATCCATTGATAATCTCCGAGCAACAATTGAA  
TGTGAGCAGCCTCAACCTGATCTCTACAGTTTGTGGGCGAATCAGTATCTATAGTAATAGTATTGAGG  
CTGTTGCCAGTCTTTGGGACCTGAAAACTTTTGTGAAAGGAGCCACACTTAAAAATACCAAGAAGAT  
ATATGGAGTTGCTGTTTACACTGGGATGGAACCAAAAATGGCTTTGAACTACCAAGGAAAATCTCAGAAA  
TGTTCTGCTGTTGAAAAATCTATTAATGCCTTCTTGATTGTTTATTTATTTATCTTACTGACCAAAGCTG  
CAGTATGCACAACCTTAAAGTATGTTTGGCAAAGTTCCCATACAATGATGAACCATGGTATAACAAAAA  
GACTCAAAGGAACGGGAAACTTTTTCAGGTTTGGAAATGTTCACTGACTTTTTATCATTGATGTTCTT  
TTCAACTTCATTATACCTGTCTCCATGTATGTCACAGTAGAAATGCAGAAATTTTAGGGTCATTCTTTA  
TTTCATGGGATAAAGACTTTTTGATGAAGAAATTAATGAAGGAGCCTGGTTAATACATCAGACCTTAA  
TGAAGAAGTTGGTCAGGTGGACTATGTATTTACAGATAAGACTGGGACACTCACTGAAAAATAGCATGGAA  
TTCATTGAATGCTGCATAGATGGGCACAAATATAAAGGCACAACCTCAGGAAGTTGATGGATTATCTCAGA  
CTGATGGGCCCTTAGCCTATTTGATAAAGCAGATAAGAACCAGAGGCACTCTTTCTCCGTGCCCTATG  
CTTATGTCACACTGTAGAAATGAAAACAAATGATGATGTTGATGGACCTGTAGAAGGAGCCGGATTACACA  
TATATCTCCTCCTCACCAGATGAAATAGCTTTGGTGAAGGAGCTAAAAGGTTTGGGTTACATTTTTGG



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GAAATCAGAATGGATATATCAGAGTAGAGAACCAAGAAAAGAAATAGAAGAGTATGAACTTCTCCACAC  
 CTTAAATTTTGTATTCTGTCCGCCGACGTATGAGTGAATTGTAAGGACCCAAAAGGAGATATTCTACTT  
 TTCTGTAAGGAGCAGATTTCATCAATTTTTCCAGGGTACATAGCCATCAAATTGAGTTAACCAAAGACC  
 ATGTGGAACGTAATGCAATGGATGGGTATCGGACTCTTTGTGTAGCCTTCAAAGAAATTCCTCCAGATGA  
 TTTTGAAGAATCAATGCACAAC TAGTAGAGGCAAAAATGGCCCTACAAGATAGAGAAGAAAACCTGGAA  
 AAGTTTTTGTAGAGATTGAGACTAACATGAATTTAATTGGAGCCACTGCTGTGGAAGACAAGCTGCAAG  
 ATCAGGCTGCAGAGACCATTGAAGCTCTCCATGCAGCTGGCTTAAAAGTCTGGTGCTTACTGGGGACAA  
 GATGGAAACAGCCAAATCTACTTGTATGCCTGCCGCTTTTCCAAACCAATACTGAGCTCTTGGAACTG  
 ACCACAAAACCATTGAAGAGAGTGAAAGGAAAAGATCGATTACATGAACTGCTAATAGAATATCGTA  
 AGAAGTTGCTGCATGAATTTCTAAAAGCACTAGAAGCCTTAAAAAGCATGGACAGAACATCAGGAATA  
 TGGATTAATCATTGATGGCTCCACATTGCACTCATACTAAATTCAGTCAAGATTGTAGTTCAAACAAC  
 TATAAAGTATTTTTCTACAAATCTGTATGAAATGCACCTGCAGTCTGCTGCCGGATGCCACCATTAC  
 AAAAGCCAGATTGTCAGAATGGTGAAGAAGTGAAGGCGAGCCCATAACTGTCAATAGGTGATGG  
 TGCCAATGATGTCAGTATGATTTTGAATCCCATGTGGGAATAGGTATTAAGGAAAAGAAGGCCGTC  
 GCAGCCAGGAATAGTGATTATTCTGTTCCAAAGTTTAAAGCATTTAAAGAACTGCTATTGGTTCATGGAC  
 ATCTATACTATGTGAGAATAGCACATCTGTACAATATTTCTTCTACAAGAACCTTTGTTTCATTTTGCC  
 ACAATTTTTGTACCAGTTCTTCTGTGGATTCTCACAACAGCCACTCTATGATGCTGCTTATCTTACAATG  
 TACAATATCTGTTTCACATCCCTGCCCATCCTGGCTTATAGTCTACTGGAACAGCACATCAACATTGATA  
 CTCTGACCGCAGACCCTCGATTGTATATGAAAATTACCGGTAATGCTATGTTACAGTTGGGGCCCTTCTT  
 ACATTGGACATTTCTGGCTGCATTTGAAGGGACAGTATCTTCTTTGGGACTTATTTCTTTTTCAGACT  
 TCATCCTTAGAAGACAATGGAAGATTTATGAAAATTGGACATTTGGAACCATTGTTTTACAGTCTTAG  
 TATTCACCGTAACCTGAAGCTCGCCTTGATACCCGGTCTGGACATGGATAAATCATTGTGATTTG  
 GGGTCTCTAGCCTTTTATGTTTTTTCTCATTCTTCTGGGAGGAATTATTTGGCCTTTTCTGAAACAA  
 CAGAGAATGTATTTGTGTTGCTCAAATGCTCTGTTCTGTATCCACATGGTTGGCTATAATCCTTTTAA  
 TATTTATCAGCCTTTTCCCTGAGATTCTCCTAATAGTTGTAAGAATGTTGGAAGAGAAGTCCAGGAA  
 TCCGAATCTTGAAGTGCCTATGTTATTGCTCCTACAAGCATATTGACCGTGGTTGCAGTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM\_001001798
- Insert Size:** 3351 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\\_001001798.2](#), [NP\\_001001798.1](#)

RefSeq Size: 5965 bp

RefSeq ORF: 3351 bp

Locus ID: 320940

Cytogenetics: X A6

**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. In the cell membrane of erythrocytes, it is required to maintain phosphatidylserine (PS) in the inner leaflet preventing its exposure on the surface. This asymmetric distribution is critical for the survival of erythrocytes in circulation since externalized PS is a phagocytic signal for splenic macrophages (By similarity). Phospholipid translocation seems also to be implicated in vesicle formation and in uptake of lipid signaling molecules. Required for B cell differentiation past the pro-B cell stage (PubMed:21423173). Seems to mediate phosphatidylserine (PS) flipping in pro-B cells (PubMed:21423172). May be involved in the transport of cholestatic bile acids (PubMed:21518881).[UniProtKB/Swiss-Prot Function]