

## Product datasheet for **MC229273**

### Atp1a3 (NM\_001290469) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Atp1a3 (NM\_001290469) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Atp1a3  
**Synonyms:** Atpa-2  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC229273 representing NM\_001290469  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGGGGACAAAAAGATGACAAGAGCTCGCCCAAGAAGAGCAAGGCCAAAGAGCGCCGGGACCTGGATG  
 ACCTCAAGAAGGAAGTGGCTATGACAGAGCACAAGATGTCAGTAGAAGAGGTCTGCCGAAATACAATAC  
 TGACTGCGTGCAGGGTCTGACACACAGTAAAGCCAGGAGATCCTAGCCCGGGATGGGCCTAACGCCCTC  
 ACACCACCGCCACCACCCAGAATGGGTCAAGTTCTGCCGCGAGCTGTTTGGTGGCTTCTCTATCCTGC  
 TGTGGATCGGGGCAATCCTTTGCTTCTGGCCTATGGCATCCAGGCAGGGACGGAGGATGACCCCTCCGG  
 TGACAATCTGTACCTGGGCATAGTGTGGCCGAGTCTGATCATCACCGGCTGCTTCTCTACTACCAA  
 GAAGCCAAGAGTTCTAAGATCATGGAGTCTTCAAGAACATGGTCCCCAGCAAGCCCTTGTGATCCGGG  
 AAGGTGAAAAGATGCAGGTGAATGCGGAGGAGTGGTGGTCCGGGACCTGGTGGAGATCAAGGTGGTGA  
 CCGGGTGCCAGCTGACCTGCGCATCATCTCGGCCATGGCTGCAAGGTGGACAACCTCCTCCTGACTGGC  
 GAATCTGAGCCTCAGACCCGCTCCCCGGACTGCACACAGACAACCCCTGGAGACTCGGAACATCACCT  
 TCTTTTCCACCAACTGCGTGAAGGCACCGCTCGGGGTGTGGTGGTAGCCACAGGTGACCCGACCCGTCAT  
 GGGCCGATTGCCACCCTGGCCTCGGGCTTGGAGGTGGGCAAGACGCCCATCGCCATTGAGATTGAGCAT  
 TTCATCCAGCTCATTACGGGCGTGGCCGTGTTCTTGGGCGTGTCTTCTCATCCTCTCTCTCATTCTGG  
 GTTACACCTGGCTCGAGGCAGTCACTTCTCATCGGCATCATTGTGGCCAATGTCCAGAGGGGCTGCT  
 GGCTACTGTACGGTGTGTCTGACGCTGACCGCAAGCGCATGGCTCGCAAGAACTGCCTGGTGAAGAAC  
 CTGGAGGCGGTGGAGACGCTGGGCTCCACGTCCACCATCTGCTCGGACAAGACCGGCACTCTCACCCAGA  
 ACCGCATGACCGTCGCCCACATGTGGTTTGACAACAGATCCACGAGGCAGACACCACAGAGGATCAGTC  
 AGGGACCTCTTTCGACAAGAGCTCACACACCTGGGTGGCCCTGTCCACATCGCCGGGCTCTGCAACCGG  
 GCCGTCTTCAAGGGCGGGCAGGACAACATCCCAGTACTCAAGAGGGACGTGGCCGGTGTGCTCCGAGT  
 CTGCCCTGCTTAAGTGCATTGAGCTGTCTCGGGTCCGTAAGGCTGATGCGGAGAACGGAACAAGAAAGT  
 GGCTGAGATTCGGTTCAACTCGACCAACAAATACCAGCTATCCATCCATGAGACTGAGGATCCCAATGAC  
 AACCGGTACCTGCTAGTATGAAGGGCGCCCGCAACGCATTCTGGACCGCTGTGCCACCATCCTCCTGC



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AGGGCAAGGAGCAGCCTCTGGATGAGGAGATGAAGGAGGCCTTCCAGAATGCCTACCTGGAGCTTGGTGG
CCTGGGCGAGCGTGTGCTGGGTTTCTGCCATTACTACCTGCCTGAGGAACAGTTCCTCCCAAGGGCTTTGCC
TTTGACTGTGATGACGTGAACCTCACCACAGACAACTTTGCTTTGTGGGTCTCATGTCCATGATTGACC
CTCCCCGGGCAGCCGTCCTGACGCTGTGGGCAAAATGCCGAAGCGCAGGCATCAAGGTATCATGGTCAC
CGGCGATACCCCATCACTGCCAAGGCCATTGCCAAGGGTGTGGGTATCATCTCTGAGGGTAACGAGACT
GTCGAAGACATCGCTGCCCGCTCAACATCCCTGTCAGCCAGGTGAACCCAGGGATGCCAAAGCCTGTG
TGATTCACGGCACCGACCTCAAGGACTTCACCTCGGAGCAGATTGACGAGATTCTGCAGAACCACACCGA
GATCGTCTTTGCCGAACCTCCCCTCAGCAGAAGCTCATCATCGTGGAGGGCTGTGAGAGACAGGGAGCA
ATTGTGGCTGTGACTGGCGATGGTGTGAATGACTCCCCTGCTCTGAAGAAGGCTGACATCGGGGTGGCCA
TGGGCATTGCTGGCTCTGATGTCTTAAGCAGGCTGCCGACATGATTCTGCTGGATGACAACTTTGCTTC
CATTGTCACTGGTGTGGAGGAAGGCCGCTGATCTTTGACAACCTGAAGAAATCCATCGCTACACTCTG
ACTAGCAACATCCCTGAGATCACACCCTCCTGCTTTCATCATGGCTAACATCCCCTGCTCTTGCCA
CCATCACCATCCTCTGCATTGACCTGGTACCGACATGGTCCCTGCAATCTCCCTGGCCTACGAGGCTGC
CGAGAGCGACATCATGAAGAGGCAGCCAGGAACCCACGCACAGACAACTGGTCAACGAAAGGCTCATC
AGCATGGCCTACGGGCAGATTGGGATGATCCAGGCCCTCGGTGGTTTCTTCTCTACTTTGTCATCTGG
CAGAAAATGGCTTCTTGCCCGAAACCTGGTGGGCATCCGGCTCAACTGGGATGATCGCACTGTCAATGA
CCTAGAAGACAGTTATGGGCAGCAGTGGACTTATGAGCAGAGGAAGGTGGTAGAGTTCACATGCCACACA
GCCTTCTTTGTGAGTATCGTGGTGGTCCAGTGGGCTGACCTGATCATCTGCAAGACCAGGAGGAACTCCG
TCTTCCAGCAGGGCATGAAGAATAAGATCTTGATCTTCGGCTTGTGGAGGACGGCCCTCGCTGCCTT
CCTGTCTACTGCCCAGGCATGGATGTGGCCCTTCGCATGTACCTCTCAAGCCCAGCTGGTGGTTCTGT
GCCTTCCCCTACAGTTTCCTCATCTTCGTCTATGATGAGATTGCAAACTCATCTGCGCAGGAACCCCG
GGGGTTGGGTGGAGAAAGAGACCTACTATGGA
    
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**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001290469
- Insert Size:** 3042 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\\_001290469.1](#), [NP\\_001277398.1](#)

RefSeq Size: 3609 bp

RefSeq ORF: 3042 bp

Locus ID: 232975

UniProt ID: [Q6PIC6](#)

Cytogenetics: 7 13.73 cM

**Gene Summary:** This is the catalytic component of the active enzyme, which catalyzes the hydrolysis of ATP coupled with the exchange of sodium and potassium ions across the plasma membrane. This action creates the electrochemical gradient of sodium and potassium ions, providing the energy for active transport of various nutrients (By similarity).[UniProtKB/Swiss-Prot Function]