

Product datasheet for **MC223923**

Atp13a1 (NM_133224) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Atp13a1 (NM_133224) Mouse Untagged Clone
Tag: Tag Free
Symbol: Atp13a1
Synonyms: Atp13a; catp; Cgi152
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC223923 representing NM_133224
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCGGTGGTGGCAACGCGGTTCTTTCGGAGCCCGGCTGGCGGGGCCGGGACAACGGGTCTCCTC
AGCCTGGGTGCGATTGCGGCCGGGCTAGCTGCCGGCCAGCACTCATAGCGAACGCGACGAAGTGGT
GGCCGCGTGTGGCCGTACCGGGCGCTGGCGCTTCTGCGGCGCTCACCGTGTGCGGTTTCCGGGCTG
CTGTACCCAGCCTGGCTGGGCGCCGCCAGCGGTTGCTGGGGATGGGCGAGCAGCTGGACCCAGATAC
CCGAGGCCGCGCTGCTGGCGCTCGCCACCATCTGCCTCGCGCACGCACTCACTGTCTGTGCGGGATTG
GTCTGTGCACGCGCACTGCGCGCTCACCTGCACCCCGAGTATGATCCCAACAAAGTAACCTTTGTGAAG
GTGGTGCCAACCCCAACAATGGCTCCACTGAGCTTGTGGCCCTGCACCGTGACAAGGGTGAAGATGGGC
TGGAGGTGCTGTCAATTTGAATCCAGAAGATCAAATATTCCTATGATGCCCTGGAGAAAAAGCAGTTCT
TCCGGTGGCCTTCCCAGTGGGAATGCCTTCTTACTATCAAAGCAACAGAGGCTTCCAGGAAGACTCA
GAGATCCGAGCTGCAGAGAAGAAGTTTGAAGCAACAAGGCTGAGATGGTAGTGCCCGACTTCTCTGAGC
TTTTCAAGGAGAGGCCACAGCCCTTTCTTTCGTGTTTCAGGTATTCTGCGTTGGGCTCTGGTGCCTGGA
CGAGTATTGGTACTACAGTGTCTTCACTCTGTCCATGCTGGTGGCTTTCGAAGCTTCCCTAGTGACGAG
CAGATGAGGAACATGTCAGAGATCCGAAAGATGGGCAACAAGCCCATATGATACAGGTCTACCGCAGCC
GAAAGTGGAGGCTGTGCGCAGTGATGACATTGTTCTGGGGACATCGTGTCTATCGGCCCTCACCCCA
GGAGAACTTGGTGCCTGTGATGTACTGCTGCTACGGGGCGCTGCATTGTAGACGAGGCCATGCTCACT
GGGGAATCTGTGCCACAAATGAAGGAGCCATTGAAGACCTGAGCCAGACCGTGTCTAGACCTGCAGG
CCGATGCTCGGCTGCATGTCATCTTTGGGGCACCAAGGTGGTACAGCACATTCCCCCGAGAAGGCCAC
CTCGGGCTGAAGCCGTCGACAATGGATGTGTGGCCTTTGCTGAGAACTGGGTTCAACACATCCCAG
GGCAGACTACTGCTACAATTCTTTGGGGTAAAGAGGGTCACTGCAAACAACCTGGAGACCTTTATCT
TCATCCTTCTCCTGCTTTCGCCATTGCTGCAGCTGCGTATGTGTGGTTGAAGGGACCAAGGACCC
CAGCCGGAACCGTTACAAGCTCTTTCTGGAGTGACCCCTCATCCTCACCTCTGTTGTACCCCTGAAGT
CCCATTGAACTGTCTGGCTGTCAACACCTCCCTCATCGCCTTGGCCAAGCTCTACATGTACTGCACAG



```

AGCCTTCCGGATCCCCTTCGCTGGCAAGGTTGAAGTGTGTTGCTTTGACAAGACGGGTACCTTGACCAG
TGACAGCCTGGTGGTGGCAGGCGTGGCAGGGCTGAGAGATGGGAAAGAGGTGACCCAGTGTCCAGCATT
CCCATAGAAAACACACCGGGCCCTGGCCTCCTGCCACTCGCTCATGCAGCTGGATGACGGCACCCCTAGTGG
GTGACCTCTGGAAAAGGCCATGCTGACAGCTGTGGACTGGACTGACCAAAGATGAGAAAAGTATTCCC
CCGAAGTATTA AAACTCAGGGGCTGAAAATTACCAGCGCTTTCATTTTGCCAGTGCCCTAAAGCGAATG
TCTGTGCTCGCCTCCTACGAGAAGCTTGGCTCCACTGACCTCTGCTACATCGCGGCTGTGAAGGGGGCCC
CCGAAACCTGCCTCTATGTTTTCTCAGTGCCACCTGACTACCACCACATCCACACTGAGATCTCTCG
GGAAGGAGCCCGTGTCTGGCTCTGGGATACAAGGAGCTAGGACATCTCACACATCAGCAGGCCCGGGAG
ATCAAGCGGGAGGCACTGGAGTGCAAGCTCAAGTTTGTGGGCTTCATCGTGGTCTCCTGTCCCCTCAAAG
CTGACTCCAAGGCTGTGATCCGAGAGATCCAGAATGCATCCACAGGGTGGTTCATGATCAGAGGAGACAA
CCCCCTACTGCATGCCATGTAGCTCAGGAGCTGCACTTCATTGACAAAGCCACACGCTCATCTTGAT
CCTCCCTCGGAGAAAGGCCAGCCATGTGAGTGGCGCTCCATTGATAGCAGCATCGTTCTGCCTCTCACC
TGGGCTCCCCAAGGCACTGGCCCTGGAGCACGCGCTATGCCTCACAGGGCATGGCTTGGCTCACCTGCA
GGCTGTGGACCCAGCAGCTGCTCTGCCTCATCCCTCATGTGCAGGTGTTTGCCCGTGTAGCCCTAAG
CAGAAGGAATTTGTCATCACTAGCTGAAGGAGCTGGGTTATGTGACCCTTATGTGTGGAGATGGCACCA
ACGATGTGGGCGCACTGAAGCACGCTGATGTGGGTGTAGCACTCTGGCCAATGCCCTGAGAGGGTGT
AGAACGGCGGCGACGGCCAAGGGACAGCCCTGTCTGAGCAACAGTGGCCCCAGAGTCTCCAGGTCCACC
AAACAGAAGTCGGCACTCCTCTCTCTGAGGAGCCACCAGCTTCCACAGGGACCGCTGAGCCAGGTGC
TGCGGGACCTGGAGGAGGAGACACCCCATCGTGAAGCTGGGGGATGCCAGCATCGCAGCACCCCTTCA
CTCCAAGTGTCTCCATCCAGTGCATCTGCCAGTGCATCAAGCAGGGCCGGTGCACATTGGTGACGACG
CTGCAGATGTTCAAGATCCTGGCCCTCAATGCCCTCATCTGGCATAACAGCCAAAGTGTCTCTACCTGG
AGGGTGTCAAGTTCAGTGACTTCCAGGCCACACTGCAGGGGCTGCTGCTGGCCGGCTGCTTCTCTTCA
TCCCGCTCCAAGCCTCTCAAGACTCTTCCCGAGAGCGGCCCTACCCAAACATCTTCAACCTGTACACC
ATCCTTACGGTGATGCTGCAATTCTGTGCCACTTCTGAGCCTGGTCTACCTGTACCGTGAGGCCCAGG
CACGCAGCCCTGAGAAGCAGGAGCAGTTTGTAGACCTGTACAAGGAGTTTGAAGCCGAGCCTGGTCAACAG
CACTGTGTACATCATGGCCATGGCCATGCAGATGGCCACCTTCGCCATCAACTACAAGGGCCACCCCTT
ATGGAGAGCCTGCCTGAGAACAGCCCTGGTGTGGAGTCTGGCAGTGTCACTGTGGCCATCATTGGCT
TGCTCCTTGGTTCCTCACCTGACTTCAACAGCCAGTTTGGCCTTGTGGACATCCCTGTAGAGTTCAGCT
GGTCATCGGCCAGGTCTGGCCCTGGACTTCTGCCTGGCACTCCTGGCTGACCGTGTCTACAGTCTTT
TTGGGACTCCGAAGCTGAGAGTGCCTTCTGA

```

```

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

```

Restriction Sites:

Sgfl-Mlul

ACCN:

NM_133224

Insert Size:

3603 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_133224.2](#), [NP_573487.2](#)

RefSeq Size: 3915 bp

RefSeq ORF: 3603 bp

Locus ID: 170759

UniProt ID: [Q9EPE9](#)

Cytogenetics: 8 B3.3

Gene Summary: Mediates manganese transport into the endoplasmic reticulum. The ATPase activity is required for cellular manganese homeostasis (By similarity).[UniProtKB/Swiss-Prot Function]