

## Product datasheet for MC223982

### Atp13a3 (NM\_001128094) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Atp13a3 (NM\_001128094) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Atp13a3  
**Synonyms:** AU022875; Gm541; Gm542; Gm1745  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC223982 representing NM\_001128094  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGGACAAAGAAGAAAGGAAGACTATCAACAAGGGTCAAGAAGATGAAATGGAGATACATGGCTATAACT  
 TATGCCGCTGGAAGCTTGCCATGGTTTTGTAGGAGTGATTTGTACTGGTGGTTTTCTCCTCCTCCTCCT  
 CTACTGGCTGCCGAGTGGCAGTGAAAGCCACATGTGTTAGAGCTGCAGTTAAAGACTGTGAAGTGGTG  
 CTCTCAGGACAACCTGATGAATTTAGAGTATGGTTTTGTGCAAAAATTCACCTTCTCTGTGGAGAATC  
 AACCAATTTGAATGCAAAATGTTTAGTTAATGAGTTTTCTAATGGCCATGCTGTTTCATCTGACTGAAGA  
 AAATAGATGCGAGATGAATAAACTCACAGAGTCAGTCAACAGATGCGTTATTTTACCACCATAGC  
 ATAAGATATTTCTGGAATGATGCCATTCACAATTTGATTTCTTAAAGGGACTGGATGAAGGTGATCTT  
 GTGCATCACTTTATGAAAAGCATAGTGCAGGACTGACACAGGGGATGCATGCCTACAGAAAGTTGATTTA  
 TGGAGTAAATGAAATGCTGTGAAAGTGCCTTCTGTTTTAAGCTTCTAATTAAGAGGTTCTCAACCCA  
 TTTTACATTTCCAGCTCTTCAGTGTTATCCTGTGGAGCGTTGATGAGTACTATTACTATGCTCTAGCCA  
 TTGTGATCATGTCCGTAGTATCCATTATAAGTTCACTATATCCATTAGAAAGCAATATGTTATGTACA  
 TGACATGGTGGCAACTCACAGTACCGTGAGAGTTTCAGTCTGTAGAGAAAATGAAGAAAATAGAAGAGATC  
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 CAGTACTTATTAATGGTACTTGCATTGTAATGAAAGCATGTTAACAGGAGAAAAGTGTCCAGTGACAAA  
 GACTAATTTGCCAAATCCTTCAGTGGATGTGAAAGGAATGGGGGAGGAGCAGTACAGCCCAGAGACACAC  
 AAGCGGCACACTTTGTTTTGTGGGACGACTGTTATTCAGACCCGTTTCTACACTGGAGAACTTGTGAAAG  
 CCATAGTAGTTAGAACAGGATTTAGTACTTCAAAGGACAGCTTGTTCGTTCTATACTGTATCCCAAGCC  
 AACTGACTTTAACTCTATAGAGATGCCTACTTGTTCGCTGTGCTTGTGGTGGTGGCTGGAATTGGA  
 TTTATCTACACAATCATCAATAGCATCCTAAATGAGAAAAGTTCAAGAAATAATTAAGTCTCTTG  
 ATATCATTACAATTAAGTGTGCCACCTGCTTCTCCTGCTGCAATGACTGCTGGGATTGTGTATGCTCAGAG  
 AAGACTGAAAAAAGTTGGGATTTCTGTATTAGTCCCCAGAGGATAAACATCTGTGGACAGCTGAACCTT  
 GTTTGCTTTGACAAGACTGGAACCTTACCGAAGATGGTTTAGATCTGTGGGGAATTCAGCGAGTGGAAA



ATACCCGATTTCTTTTACCAGAAGACAATGTTTGCAGTGAGATGTTGGTAAAATCTCAATTTGTTGCTTG  
TATGGCTACTTGTCACTTCACTTACAAAAATCGAAGGTGTACTTTCTGGTGACCCACTTGATTTGAAAATG  
TTTGAAGCCATTGGATGGATTCTGGAAGAAGCAACTGAAGAAGAAACAGCACTTCATAACCGGATCATGC  
CTACTGTGGTTCGTCTTCCAAACAACCTGCTTCTGAACCTACAACCTGCAGGAAACCAAGAAATGGAGCT  
GTTTGAACCTCCAGCTATTTATGAGATAGGAATGTTTCGCCAGTTCCATTTTCTCTGCCTTGCACCG  
ATGAGTGTGGTTGCAAGGACACTAGGTGAGAAGAGGATGGATGCCTACATGAAGGGGGCCCTGAGGTTG  
TCGCCAGTCTCTGCAAACCGGAAACAGTCCAGTTGATTTTGGAAAAGTGTAGAAGATTATACCAAACA  
AGGTTTCCGTGTAATTGCTCTTGACACAGAAAATTGGAGTCAAAGCTGACCTGGCATAAAGTACAGCAT  
ATTAGCAGAGATGCCATTGAAAACAACATGGATTTTATGGGATTGATTATAATGCAGAACAATTGAAGC  
AGGAAACCCCTGCAGTACTTGAAGATTTGCATAAAGCCAACATTGCAACTGTCATGGTCACAGGAGACAA  
CATGTTGACGGCTGTCTCTGTGGCCAGAGACTGTGGGATGATTCTACCTCAGGATAAAGTTATTATTGCT  
GAAGCATTACCTCCAAGGATGGAAGTTGCCAAGATCAATTGGCATTATACAGACTCCCTGTCACAGT  
GTAGTGAATCATCAGCCATTGACTCAGAGGCTATTCGAATCAAACCTGCCATGATAGTTTAGAGGATCT  
TGAGGTGACTCGCTATCATTTCGATGAATGGAAGTCATTTTCGGTGATACTGGAACATTTTCAAGAT  
CTTGTTCTAAGTTGATGTTGCATGGTACTGTGTTTGTGCGAATGCCACCGGATCAGAAGACACAATTGG  
TGGAGGCATTGCAGAACGTAGACTACTTTGTTGGGATGTGCGGTGATGGTGCAAATGATTGTGGTGCCTT  
GAAGAGGGCACATGGTGGCATTTCCTTATCTGAGCTTGAAGCTTCCGTGGCATCTCCTTTACTTCTAAG  
ACACCCAGTATCTCTGTGTGCCAACCTTATCAGGGAAGGTCGTGCTGCTTAAATGACGTCCTTCTGTG  
TGTTTAAATTTATGGCGTTATACAGCATCATCCAGTACTTCAGTGTACTCTCCTGTATTCTATCTTGAG  
TAACCTGGGAGACTTTCAGTTTCTTTCATTGATCTGGCAATCATTTTGGTAGTAGTATTACAATGAGT  
TTAAATCTGCCTGGAAGAGCTTGTGGCACAGAGACCACCTTCAGGCCTTATATCTGGGGCGCTCCTCT  
TCTCCGCTTGTCTCAGATTGTGATCTCCGTTGGATTTTCAGTCGCTGGTTTTTCTGGGTCAAGCAGTA  
TAAAGTGTGCGATCCAAATTCAGATGTTTGTAAACAACAAGAAGCGCATGTTGGAACCTGCACACTTA  
TACAATGGGACTGAACTCGATTCTGTAAAATACAAAATTATGAAAATACCACAGTATTTTTTATCTCCA  
GTTTCCAGTACCTCACAGTGGCGTTGCCTTTTCAAAGGAAAACCATTAGGCAGCCTTGTACAGAA  
TTATTTTTTGTATATCTGTGATTATTTTGTATGTTTTTCATATTATTCATCATGTTGCATCCAGTTGCC  
TCTGTTGACCAGTTCTTGAGATTATGTGTGTACCATACCAGTGGCGCATATATGCTTATCATTGTTTC  
TTATCAATGCCTTCGTGTCTATCACGGTGGAGGAGTCAGTGGATCGGTGGGGAAAATGCTGTTTGCCTG  
GGCCCTGAGCTGTAGAAAGAAAACCTCAAAGCAAAGTACATGTACTTAGCACAGGAGCTCCGCTTGTGAT  
CCTGAGTGGCCGCTAACCTCAGACAACGACGGAAGCCAAAGCTGTAGTAAAGGAGAATGGATCATGTC  
AGATTATCACCATAGCA**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:**

SgfI-MluI

**ACCN:**

NM\_001128094

**Insert Size:**

3660 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\\_001128094.1](#), [NP\\_001121566.1](#)

**RefSeq Size:** 7220 bp

**RefSeq ORF:** 3660 bp

**Locus ID:** 224088

**UniProt ID:** [Q5XF89](#)

**Cytogenetics:** 16 B2

**Gene Summary:** ATP-driven pump involved in endocytosis-dependent polyamine transport. Uses ATP as an energy source to transfer polyamine precursor putrescine from the endosomal compartment to the cytosol.[UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (2) lacks an in-frame exon in the coding region, compared to variant 1. It encodes isoform 2 which is shorter than isoform 1.