

Product datasheet for MC223291

Atp12a (NM_138652) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atp12a (NM_138652) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Atp12a
Synonyms:	Atp1a1; cHKA; HKalpha2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC223291 representing NM_138652 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCGCCGAAAACAGAAATCTATTCTGTAGAGCTCAATGGAACAAAGACGTCGAGCTGGCAGACCAGA
AAGATGACAAAAAGTTCAAGGGCGGAAGAACAAGACTCAGAACCAACAAGAGTCAGGAGGAGGAGCT
GAAGAAAGAACTTGATCTGGATGACCACAGACTCAGTAATACAGATTTGGAACAGAAATATGGTACAAAC
ATCATCCAGGGTCTCTCCAGTATCAGAGCTGCAGAGCTCCTGGCTCGGGATGGGCCAACGCCCTCACCC
CTCCCAAGCAAACCTCCAGAGATCATCAAGTTCCCTCAAACAGATGGTGGGGGGCTTTTCCATCCTTCTGTG
GATAGGTGCAGCCTTGTGCTGGATCGCATATGTGATCCAGTATGTGAGCAGTACTGCATCCCTGGACAAT
GTCTATTTGGGCGCCATACTTGTCTGGTGGTATTTTAAACGGGGATTTTGTCTATTACCAAGAAGCCA
AAAGTACCAACATTATGGCAAGCTTTAGTAAGATGATCCCCAGCAAGCTCTTGTGATCCGAGATGCAGA
AAAGAAGATCATTCCAGCAGAGCAGCTGGTGGTGGGGGACGTTGTGGAGATTAAGGAGGGGACCAGATC
CCTGCAGACATCAGACTGGTGTTCCTCAAGGGTGCAAAGTAGATAAATCCTCTCTACTGGGGAGTCTG
AGCCCCAGGCTCGGTCAACTGAGTTTACCCATGAAAACCCCTTGGAAACTAAGAACATAGGCTTCTATTCT
TACAACGTGCCTGGAAGGTACGGCAACTGGCATTGTTCATCAACACGGGTGACCGCACCATCATCGGGCGC
ATAGCCTCCTTGCTTACGGCGTTGGGAGTGAGAAGACACCCATAGCCATTGAGATTGAGCATTTTGTCC
ATATTGTGGCAGCAGTGGCTGTGTCGGTGGCGTCATTTTCTTCATCACCGCCGTGTGCATGAAGTACTA
CGTCTGGATGCCATCATCTTCTCATTAGCATCATTGTGGCCAATGTGCCAGAGGGCCTCCTGGCTACT
GTCACTGTTACCTGTCACTGACGGCAAAGCGGATGGCTAAGAAGAACTGCTTGGTAAAGAACTGGAGG
CCGTGGAGACGCTTGGCTCCACCTCCATCATCTGCTCAGATAAGACAGGGACCCTCACCCAGAACAGGAT
GACTGTGGCCCACTTGTGGTTTGACAACAGATCTTTGTGGCTGATACAAGTAAAACAGACAAAACAA
GCCTTTGACCAAAGCTCTGGAACCTGGGCTTCCCTTGCCAAGATAATAAACTGTGTAACCGAGCAGAGT
TCAGGCCAGGCCAGGAGAGTGTCCCATCATGAAGAGAGTTGTGGTTGGAGATGCCTCAGAAACTGCTCT
GCTAAAGTTCTCAGAGGTTATTTGGGTGATGTGATGGACATTAGGAAAAGAAAACCAAAAGTAGCTGAG
ATTCCTTTAATTCTACCAACAAATTTAGCTCTCCATACATGAGACCGAGGACCCGAATGACAAGCGCT



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TCCTCATGGTGTGAAAGGGGCCCTGAGAGGATCTTAGAGAAGTGCAGCACCATCATGATCAACGGCCA
 GGAGCAGCCACTGGACAAGAGCTCTGCCGATGCCTTCCACACGGCCTACATGGAGCTGGGTGGTCTGGGA
 GAGCGTGTGTTGGGTTTCTGTACCTCTACTTGCAGCAGATAAGTTTCCCAAAGCTACACATTTGATG
 TAGACTCCATAAACTTTCCCACTCCAATCTCTGCTTTGTGGGGCTTCTGTCCATGATTGACCCTCCTCG
 GTCTACCGTGCCAGATGCGGTCTCCAAATGTGGAGTGCAGGGATCAAGGTTATCATGGTCACAGGTGAT
 CACCCTATCACAGCCAAAGCTATTGCCAAGAGTGTAGGAATCATATCAGCCAACAATGAGACGGTGGAAAG
 ACATCGCAAAACGCCCAACATTGCTGTGGAGCAAGTCAACAAAAGAGAAGCGAAAAGCCGCTGTGGTGAC
 TGGCATGGAACTGAAGGACATGACCCCAAGAACTGGATGAGCTTCTAATCAACTACCAAGAAATTGTG
 TTTGCCCGGACATCACCCAGCAGAAGTTGATCATTGTAGAAGGCTGTCAGAGGCAGGATGCAGTTGTTG
 CTGTGACGGGTGATGGAGTAAACGACTCTCCAGCATTAAAGAAGGCAGACATCGGGATTGCTATGGGGAT
 AGCAGGTTCTGATGCTGCTAAGAATGCAGCTGACATGGTCTTGTCTGATGACAACCTTGCATCTATAGTC
 ACAGGGGTGGAGGAAGTGCCTGATCTTCGACAACCTGAAGAAGACCATTGCTTACACCCTGACAAAGA
 ACATCGCTGAGCTCTGCCCTTTTTGATCTACATTGTTGCTGGGCTCCCCCTGCCTATTGGCACCATCAC
 TATCCTATTCATCGACCTGGGCACAGACATTATCCCCTCCATTGCCTTGGCCTATGAGAAAGCGGAAAGT
 GACATTATGAATAGGAAACCTCGCCACAAGAAGAAGACAGACTGGTGAACAAGCAGCTGGCCATCTACT
 CTTACCTTACATTGGTCTCATGCAAGCCCTGGGAGGTTTCTCGTCTATTTCACTGTCTATGCACAGCA
 GGGCTTTTGGCCACCTCTCTCAACCTGAGGGTATCATGGGAAACAGATGACATAAATGACTTGGAA
 GATAGCTACGGGCAGGAATGGACGAGGTATCAGAGAAAATACCTGGAATGGACAGGCTCAACGGCTTTCT
 TTGTTGCCATCATGGTCCAACAAATTGCAGATCTGATCATCAGGAAAACCCGGAGGAATTCATCTTCCA
 GCAGGGGCTCTTCAGAAACAAAGTATCTGGGTGGGATCATCTCGCAGATCATCGTTGCGTTGGTCTCT
 TCCTACGGTCTCGGGAGTGTACAGCTCTGAGCTTTACCATGCTCAGGGCTCAGTACTGGTTTGTGGCTG
 TCCCGCATGCCATTTGATTTGGGTGATGACGAGATGCCGAAGTTGTTTCATCAGGCTCTACCCTGGAAG
 CTGGTGGGACAAGAACATGTATTAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-Mlul

ACCN:

NM_138652

Insert Size:

3108 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_138652.2](#), [NP_619593.2](#)

RefSeq Size:

3954 bp

RefSeq ORF:

3108 bp

Locus ID: 192113

UniProt ID: [Q9Z1W8](#)

Cytogenetics: 14 C3

Gene Summary: Catalyzes the hydrolysis of ATP coupled with the exchange of H(+) and K(+) ions across the plasma membrane. Responsible for potassium absorption in various tissues.
[UniProtKB/Swiss-Prot Function]