

Product datasheet for **MC223274**

Atp1a4 (NM_013734) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atp1a4 (NM_013734) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Atp1a4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC223274 representing NM_013734 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCCTGGAAAAGAAAAGGAGGTAGAGGCCCTGGTGAAGCTGAATCAGAAACCAAGACCCAGCACCA
GGTCCCTCAACTACAAATAGACAGCCGAAAATGAAAAGAAGGAAGAAAAGATTTAGAAGAGCTGAAGAAGGA
AGTGGTTATGGATGATCACAAGCTAACGTTGGATGAGCTGAGTGCCAAGTACTCTGTGGACTTGACCAAG
GGTCTTAGCATCCTAGAAGCCAGGATATCTGTTTCAAATGGACCGAATGACTAACTCCTCCTCCAA
CCACTCCAGAGTGGTCAAATCTGTAGACAACCTGTTGGTGGCTTCTCCCTCTACTGTGGACTGGTGC
CTGTCTCTGCTTCTGGCCTATGGCATACATGTAATATTACAAGAAAACGCCAACAAAGATAATCTG
TACCTGGGATTGTAATCTGCGGTGATCATTACCGGCTGCTTCTCATATTACCAGGAGGCCAAGA
GCTCCAAGATCATGGAGTCTTTAAGAACATGGTGCCTCAGCAAGCTCTGGTGATTTCGAGATGGAGAGAA
AATGCAAATCAATGTAAGAGATGTGGTTTTGGGAGACCTAGTAGAGGTGAAGGGAGGAGACCAAATCCCT
GCTGATATCAGGGTTATCTCGGCGCAAGGATGCAAGGTAGACAATTCCTCCTTGACTGGGGAGTCAGAAC
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GCTGGATGCTGTCAATTTCTTATTGGTATCATTGTGGCCAATGTGCCGGAAGGGCTGCTGGCCACTGTC
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AGTGGCGCATTTGTGGTTTGATAAGACTGTGTATGAGGCCGACACCAGTGAGGAGCAAACACGGGGAAA
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ATTCCCTTAACTCCACCAACAAGTATCAGATGTCCATCCACCTTCTGGAAGATAATTCCGAAGCCACG
TGCTGCTAATGAAAGGTGCCCCAGAGAGGATCTTTGATTTTTGCTCCAGTTTCTGCTGAATGGGCAGGA



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GTACCCTATGGATGAGGAAATGAAGATGGACTTCCAGAATGCCTACATAGAAGCTGGGAGGTCTGGGCGAA
CGTGTGCTGGGGTTCTGCTTCTTGAAGTTCCTAGCAATTTCTCTAAGGGGTTCCAGTTTAAATACCGATG
AGTTAAATTTTCCATGGAAAATCTGTGTTTCGCGGGCCTCATCTCCATGATTGATCCTCCTCGGACGGC
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AGAACTGAAAGACATGGAATCCCAACAGCTGGACGACATCCTCAAGTCTATAAGGAGATTGTCTTTGCC
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TATGGGACGACGTGGACCTATGAGCAGCGGAAGGTGGTGAATTACATGCCAAACGGCCTTCTTATCA
GTATCGTGATTGTGACGTGGGCTGACCTCATCATCTGCAAGACACGCAGAAATCACTCTTCAAGCAGGG
CATGAAAAACAAAATCCTAATATTTGGACTCCTTGAGGAGACAGTCTGGCAGCTTCTCTGCTCCTACGTT
CCAGGCATGGATGTGTCCTGCGGATGTACCCACTCAAGATAAAGTGGTGGTTCTGCGCACTTCCCTACA
GTGTTCTCATCTTCGCTATGATGAAATCAGAAAACCTTATCATCCGGAGACGGCCTGGTGGATGGCTGGA
GAAGGAGACGTACTACTAA
    
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja2288_a05.zip

Restriction Sites: SgfI-MluI

ACCN: NM_013734

Insert Size: 3099 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

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_013734.1](#), [NP_038762.1](#)

RefSeq Size: 3485 bp

RefSeq ORF: 3099 bp

Locus ID: 27222

UniProt ID: [Q9WV27](#)

Cytogenetics: 1 79.54 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. Plays a role in sperm motility (By similarity). [UniProtKB/Swiss-Prot Function]