

Product datasheet for **MC224614**

Atp10a (NM_009728) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atp10a (NM_009728) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Atp10a
Synonyms:	Atp10c; pfatp
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC224614 representing NM_009728 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGAGCGGGAGCTCCCGCGGCCGAAGAGTCCGCATCCTCGGGATGGCGCGGCCGGAAGAAGGCGCT
GGGAGGGCAGGACGCGCACGGTGCCTCCAACCTGCTACCGCCTCTGGGCACCGAGGACTCCACGATCGG
AGCCCCAAGGGCGAGCGGCTGTGATGCGCGGCTGCATCCAGCACCTGGCCGACAACCGCCTCAAGACC
ACCAAGTACACGCTGCTGTCTTCTTGCCCAAGAATCTCTTCGAGCAGTTCACCGCCTAGCCAATGTGT
ACTTCGTCTTCATCGCGCTGCTCAACTTTGTGCCGGCTGTGAACGCCCTCCAGCCGGGCCTGGCACTGGC
GCCTGTGCTCTTCATTCTGGCGGTACAGCCATCAAAGACCTGTGGGAGGACTACAGCCGACACCGCTCG
GACCATGAAATCAACCACCTGGGCTGCCTGTCTTCAGCAGGGAAGAAAAGAAGTATGTGAATCGATACT
GGAAAGAAATCCGAGTGGGCGACTTTGTCCGTCTTTGCTGCAATGAAATCATACTGCGGACATTTTGT
GCTGTATCCAGTGACCTGACGGTGTGCCACATCGAGACTGTAACCTGGATGGAGAGACCAACCTG
AAGCGCGCCAAGTGGTCCGTGGCTTCTCGGAGCTTGTCTGAATTCAACCTCTGACGTTCCACAGTG
TAATCGAGTGTGAGAAGCCAAACAATGACCTGAGTGGTTCGTGGCTACATCATGCACGAATGGGGA
GAAGGCTGGGCTGCATAAGGAAAATCTGCTGCTTCGTGGGTGCACCATCAGAAACACAGAGGCTGTGGCT
GGAATTGTCATCTACGCAGGACATGAAACCAAAGCCCTGCTGAACAATAGTGGGCCCCGCTACAAGCGCA
GCCAGCTTGAAGGCAGATGAACTGCGATGTCCTCTGGTGTGCTTCTCCTCGTTTGTATATCTCTATT
TTCAGCGGTTGGGCATGGATTGTGGTTTCGGCGCTATCAAGAGAAAAAGCACTATTTGATGTTCCCGAG
TCTGATGCGAGCTCTTTATCCCCAGCCACAGCTGCAGTTACTCATTTTTTACAATGATAATAGTTCTGC
AGGTTTTGATTCCAATTTCTTATATGTTTCCATTGAAATGTTAAAGTGTGCCAAGTATACTTCATTA
CCAAGATATAGAGCTCTATGATGAAGAGACAGATTACAGCTGCAGTGCCGAGCTCTGAACATAACGAA
GACTTAGGGCAGATAAAATACATCTTCTCGGACAAAACCGGCACATTAAGTGAACAAGATGGTCTTTC
GAAGATGCACTGTGCCGATAGAATATTCTCAGCATGCAATGCTCAGCGACTGGCCAGGTATCAAGA
GGCAGACTCAGAAGAGGAGGAAGTGGTGTCCAAGTGGGCACAATATCCACCGTGGCAGCACTGGGAGC
CATCAGAGCATCTGGATGACTCATAAGACCCAAAGTATCAAGTCCACCGCGCACAGGCAGTTCGAGCTG



```

AGGCAAAGAGAGCCAGCATGCTGTCTAAGCACACTGCCTTCAGCAGCCCCATGGAGAAAGACATTACACC
TGACCCCAAGCTGTTGGAGAAGGTGAGTGAGTGTGACCGATTCCCTCGCCATTGCAAGGCACCAGGAACAC
CCTCTGGCCCATCTCTCACCCGAGCTGTCTGATGTTTTGATTTCTTCATCGCACTACCATCTGCAATA
CAGTAGTTGTACCTCTCCAGACCAACCACGACAAAAGGTGAGGGTGAGGTTTGAGCTGAAGTCCCCAGT
AAAGACCATAGAAGATTTCTTCGGAGGTTACGCCAGCCGCTGGCTTCTGGCTGCAGCAGTATCGGG
AACCTGAGCACCAGTAAATCCAGCCACAAATCTGGATCAGCTTTCTGCCAGCCTGTCTCAGGACAGCA
TGCTTTTGGGCTGGAGGAGAAGCTGGGTCAAACAGCACCGTCCATTGCCAGCAATGGCTATGCCAGCCA
GGCAGGCCAGGAGGAAAGCTGGGCCTCAGAGTGTACTACAGACCAGAAGTGTCCAGGGGAGCAGAGGGAG
CAGCAGGAGGGGAGCTGCGATATGAGGCTGAGAGCCCAGATGAGGCTGCACTGGTGTATGCAGCCAGAG
CCTATAACTGTGCCCTGGTGGACCGGCTTACGACCAGGTGTCTGTGGAGTTGCCACACCTAGGCAGGCT
CACCTTCGAGCTGCTGCACACACTTGGCTTCGACTCCATCCGCAAGAGGATGTCAGTGGTGTATCCGCCAC
CCGCTGACTGACGAGATCAATGTATACACCAAGGGGGCCGATTCCGGTGGTCATGGATCTTCTGCTGCCCT
GTTCTCAGATGACGCCAGAGGAAGGCACCAGAAAAGATCCGGAGTAAAACACAGAATTACCTCAATCT
TTATGCAGTAGAAGGCCGCGCACCTGTGCATTGCCAAGAGGGTTCGAGCAAAGAAGAGTATGCCTGC
TGTTTGCAGAGCCACATAGAAGCCGAGGGCTCTGTGGAGAGCCGTGAGGAGCTCCTCTCCAGTCTGCCG
TTCGCCTGGAGACGAACCTGCACCTGCTGGGTGCCACGGGGATAGAAGACCGCCTTCAGGAAGGAGTACC
TGAAACCATGGCAAATTACGACAAGCTGGCCTGCAGATTTGGGTTCTCAGAGTGACAAACAGGAAACA
GCCATTAACATTGCATATGCCTGCAAAGTCTGGATCATGGTGAAGAGGTGTCACACTGAATGCTGACT
CTCAGGAAGCATGTGCAGCCCTGCTGGACCAGTGCCTCAGTTATGTGCAATCCAGAAACCTAGAAAGTAC
CCTTCAGAACTCTGAAAGCAACTTGAGTGTGGGTTCTCTTTCAACCCAGTCTCCACATCCACTGACGCC
AGCCCCAGCCCAAGCCTTGATGATGGAAGAAGTCTGGCCTATGCCCTCGAGAAAAGCCTGGAGGACA
AATTTCTTTTCTTCCCAAGCAGTGTGCTCAGTCTCTGCTGCCGATCGACCCCTTTGCAAAAGAGCAT
GGTGGTGAAGCTGTGAGAAGCAAGCTCAAGGCCATGACCTTGGCCATAGGTGATGGGGCAATGATGTC
AGCATGATCCAGGTGGCAGATGTAGGTGTTGGGATCTCAGGCCAGGAGGGCATGCAGGCTGTGATGGCAA
GTGACTTTGCAAGTCCAAGATTCCGATACCTGGAGAGACTTTTGTGTCATGGACACTGGTGTACTC
CAGACTGGCCAATATGGTGTGATTTTCTTATAAAAAACAATGTTTGTGGGCTCTTGTTTTGGTTC
CAGTTTTACTGTGGCTTTTCTGCATCTGCCATGATTGATCAGTGGTATCTGATTTTCTTAACTGCTCT
TCTCATCACTTCCCAGCTGGTACTGGGGTCTGGATAAAGATGTTCCAGCTGACATGCTGCTGAGAGA
GCCACAGCTTTACAAGAGTGGCCAAAACATGGAGGAATACAGACCAGGACTTCTGGTTAAACATGGTG
GATGCTGCCTTTCAAAGCCTGGTATGCTTTTTTTCATCCCTACCTGGCCTACTATGACTCCGATGTGGATG
TCTTTACCTGGGGGACCCCTGTACAGCAATAGCACTGTTACCTTCTGCTGCACCTGGGTATTGAAAC
CAAACCTGGACCTGGCTCAACTGGTTAGCCTGTGGCTTACAGTACCTTTTGTCTTCTCCGTGGCTCTG
ATTTACAACACTTCTGTGCCACATGCTACCCTCCATCTAACCTTACTGGACCATGCAGACATTACTGG
GTGACCCTCTGTTCTACTTGACTTGTCTCATCGCACCTATTGCTGCATTGTTGCCAGATTGTTTTTCAA
AGCCCTCCAGGGGAGTCTTTTCCCACCAACTCCAGTAGGACGCCAGTTGGCCAAGAAACCCCTCAAC
AAATTCAGTGATCCCAAAGAGACTTTTGTCTCAGGGACAGCCACCTGGACACTCAGAAACCGAGCTTTCAG
AAAGGAAGACCATGGGACCTTTTGGACTCTCCCTAGAGACTGTGCCTCTCAAGCTTCCCAGTTCACACA
GCAGCTGACCTGTTCCCAGAAGCCAGCGGGGAACCCAGTGCAGTGGATACAAACATGCCATTAAGAGAG
AACACCTTGCTGGAAGGACTTGGCTCTCAGGCCTCAGGGTCCATGCCAGAGGGGCTATTTCAGAAG
TATGTCCTGGGGATTCTAAGAGACAATCCACCAGTGTAGTCAAGTGCAGCTGCCGTTTGTGCTCACTCTTCCA
TCTGCCAGCTTTGGCTCCCTAAATTGGATCTCCTCGCTGCTCACTGGCCAGTGGGCTGGGAAGTGTCTTG
CAATTGCTGGAAGTAGTTTACAGATGGATAAGCAGGATGGTGTGTTTCTATCCAACCCACCACAGCCAG
AGCAGGACCTGCACAGCTTCCAGGGACAAGTACGGGCTACTTAG

```

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_009728
Insert Size: 4527 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:	<ol style="list-style-type: none">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_009728.2 , NP_033858.2
RefSeq Size:	5469 bp
RefSeq ORF:	4527 bp
Locus ID:	11982
UniProt ID:	O54827
Cytogenetics:	7 B5
Gene Summary:	Catalytic component of a P4-ATPase flippase complex which catalyzes the hydrolysis of ATP coupled to the transport of aminophospholipids from the outer to the inner leaflet of various membranes and ensures the maintenance of asymmetric distribution of phospholipids. Phospholipid translocation seems also to be implicated in vesicle formation and in uptake of lipid signaling molecules (By similarity).[UniProtKB/Swiss-Prot Function]