

## Product datasheet for **MC224551**

### Atp7a (NM\_009726) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Atp7a (NM_009726) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Atp7a
Synonyms:	MNK
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC224551 representing NM_009726 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGAGCCAAGTGTGGATGCAAATTC AATTACTATCACTGTTGAGGGAATGACATGTATTTCTGTGTCC  
GGACATTGAACAGCAGATTGGGAAAGTGAATGGTGTCCATCACATTAAGTTTCACTAGAAGAAAAGAG  
TGCAACCATTATTTATGACCCTAACTTCAGACTCCAAAGACCCTCCAAGAAGCTATCGATGACATGGGC  
TTTGATGCTCTTCTCCACAATGCTAACCCCTCCCTGTCTTAACCAATACCGTGTTCCTGACTGTTACTG  
CTCCACTGACTCTGCCTGGGACCATATCCAAAGTACATTGCTCAAGACCAAGGGTGTGACTGGTGTAA  
GATTTCCCTCAGCAAAGAAGTGCAGTAGTCACCATAATCCATCTGTGGTGAGTGCCAGTCAGATTGTG  
GAGCTGGTCCCAGACCTCAGTTTAGACATGGGAACTCAGGAGAAAAAGTCAGGAGCTTGTGAAGAGCACA  
GCACGCCCTCAGGCAGGGGAAGTCATGCTGAAGATGAAAGTGGAAGGGATGACCTGCCATTCATGTACTAG  
CACCATTGAAGGAAAAGTTGGAAAGCTGCAAGGTGTTGAGCGCATTAAAGTGTCCCTAGACAACCAAGAA  
GCTACTATTGTTTTCAACCTCATCTCATCAGCAGAGGAAATAAAGAAGCAGATTGAAGCCGTGGGT  
TCCCAGCCTTCAAAAAAGCAGCCGAAGTACCTCAAATGGGAGCCATTGATGTTGAGCCCTGAAGAA  
CACACCGGTCAAATCTTCAGAAGGATCTCAGCAAAGAGCCCATCATATCCCAGTGACTCCACAACCATG  
TTCACCATAGAGGGCATGCATTGTAATCGTGTGTGTCCTAATATTGAAAGTGCTTATCTACACTCCAGT  
ATGTAAGCAGTATAGTAGTTTCTTTAGAGAATAGGTGAGCCATTGTAAGTACAATGCAAGCTTAGTCAC  
TCCAGAAATGCTGAGAAAGGCAATAGAGGCCATTTACCAGGGCAATACAGAGTTAGTATTGCAAGTGAA  
GTTGAAAGTACCAGCTCTCCCTCCAGCTCATCTCTCAGAAGATGCCTTTGAACATAGTTAGCCAGC  
CTCTGACCAAGAAGCTGTGATAAACATAAATGGCATGACTTGTAAATCTTGTGTGCAGTCTATAGAGGG  
TGTAATATCAAAAAGCCAGGTGTAATCCATCCACGTGTCCTCGAAACAGCACAGGGACTATTGAA  
TTTGATCTCTACTAACCTCTCCAGAACTTGCAGAGAAGCAATTGAAGACATGGGATTTGATGCTGCCT  
TGCCAGACATGAAAGAGCCACTGGTAGTAGCTCAGCCCTCACTGGAAACACCTCTTTTGCCCTCAAG  
TAATGAGCTAGAAAATGTGATGACGTCAGTTCAGAACAAGTGTACATACAGGTCTCTGGGATGACCTGT  
GCTTCTGTGTAGCAAACATTGAACGCAATTAAGACGAGAAGAAGGAATATATTCTGTACTTGTGCC



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TAATGGCTGGCAAGGCAGAAGTAAGATATAACCCAGCTGTTATCCAACCCCGAGTGATAGCAGAGTTTAT  
 TCGAGAGCTTGGATTTGGAGCTATGGTATGGAACCGCTGGGAAGGCAACGGCATCTTGGAACTTGT  
 GTGAGAGGAATGACGTGTGCTTCTGTGCCATAAAATGAATCAACACTCACAAAACACAAAGGGATCT  
 TCTACTGCTCTGTGGCCCTGGCAACTAACAAAGCACATATTAATATGATCCAGAAATTATTGGTCCCAG  
 AGATATTATCCATACCATCGGAAGCTTAGGCTTTGAAGCTTCTTTGGTCAAGAAAGATCGATCAGCCAAC  
 CACTTAGATCATAAACGAGAAAATAAACAAATGGAGAGGGTCTTTCCTTGTGAGCCTGTTTTCTGTATCC  
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 CATGAGTAATGAAGAAATGATCAACATGCATTCTGCTATGTTTCTGGAGGTCAGATCCTGCCAGGACTG  
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 TTCAGGCTTACAAAGCACTGAAGCATAAGACAGCAAAACATGGATGTGCTGATTGTGCTGGCAACCACAT  
 CGCATTTCCTACTCTCTGGTTATTCTTCTGGTTGCAATGTTTGAGAGAGCCAAAGTGAACCCATTACC  
 TTCTTTGATACACCTCCTATGCTGTTTGTGTTTATTGCACTAGGACGATGGCTGGAACATATAGCGAAGG  
 GCAAAACCTCCGAGGCTCTTCAAAGCTAATTTCAATACAAGCAACTGAAGCCACTATTGAACTCTGAA  
 CTCTGAAAATCTCTCCTGAGTGAAGAACAAGTGGATGTGGAAGTGTACAACGTGGAGATATCATAAG  
 GTTGTCCAGGAGCAAAATTTCCAGTGGATGGCCGTGTTATTGAAGGACATTCTATGGTGGACGAGTCCC  
 TCATCACAGGGGAGGCAATGCCTGTGGCTAAGAAACCTGGCAGCACGGTATTGACAGTTCCATTAAACCA  
 GAATGGATCTCTCCTCATCCGAGCAACACATGTGGGAGCAGATACAACCTTTCTCAGATCGTCAAACCT  
 GTGGAGGAGGCACAGACATCAAAGGCTCCTATCCAGCAGTTTGCAGACAACTCAGTGGCTACTTTGTTC  
 CTTTACATCGTCTTGGTTCCATTGTTACCTCTTGGTGTGGATTATAATTGGATTTCAAATTTTGAAT  
 TGTGGAACCTACTTTCCCGCTATAATAGAAGCATCTCCCGAACAGAAACCATAATACGCTTTGCTTTC  
 CAAGCCTCATACCGTTCTGTGTATCGCATGTCCCTGTTCACTGGGACTAGCCACTCCAAGTGTGTA  
 TGGTGGGCACAGGAGTAGGTGCTCAGAATGGCATACTTATCAAAGTGGGAGCCACTGGAATGGCTCA  
 TAAGGTAAGGTAGTGGTATTTGATAAGACTGGAACCATCACCCATGGAACCCAGTAGTGAATCAAGT  
 AAGGTTCTCGTGGAAAGTAACAAGATATACGCAATAAGATCCTGGCCATTGTGGGACTGCAGAAAGTA  
 ACAGTGAACATCCTTTAGGAGCAGCTGTAAACAAATATTGCAAAAAGGAGCTGGACACTGAAACCTGGG  
 TACCTGTACAGATTTCCAGGTTGTACCAGGCTGTGGTATTAGCTGTAAAGTCAACCAATTTGAAGTTTG  
 CTACATAAGAGTAACCTGAAGATAGAAGAAAATAACATTAATAATGCATCCCTGGTTCAAATTTGATGCAA  
 TTAATGAACAGTCATCAACTTCTTCTATGATTATTGATGCTCATCTCAAATGCTGTTAATACTCA  
 GCAGTACAAAGTCTCATTGGTAACCGGAATGGATGATTAGAAATGGTCTTGTGATAAGTAATGATGTA  
 GATGAATCTATGATTGAACATGAAAGAAGAGGTCGGACTGCTGTCTTGGTACAATCGATGATGAGCTGT  
 GTGGCTTATTGCTATTGCTGATACTGTGAAACCTGAGGCCGAGTTGGCTGTACACATTCTGAAATCTAT  
 GGGTTTAGAAGTAGTTCTGATGACTGGAGACAACAGTAAACCTGCTCGGTCTATTGCTTCTCAGGTTGGC  
 ATTACTAAGGTGTTTGTGAAAGTTCTACCTTCCACAAAGTTGCTAAGGTGAAGCAGCTCCAAGAGGAGG  
 GCAACCTGTAGCAATGGTAGGAGATGGAATCAATGACTCCCCAGCTCTGGCAATGGCAAACGTTGGAAT  
 TGCCATAGGCACAGGCACAGATGTAGCCATTGAAGCAGCTGATGTGGTTTTGATAAGGAATGACCTTCTG  
 GATGTTGTGGCAAGTATTGACTTGTCAAGGAAAACAGTCAAGAGGATTGCAATCAATTTTGTCTTTGCTC  
 TAATTTAATCTGGTTGGAATCCCATCGCTGCTGGAGTTTTCTGCCATCGGTTTGGTTTTACAACC  
 CTGGATGGATCCGCAGCAATGGCCGCTCATCTGTCTGTAGTCTTTCTTCCCTTTCTCAAGCTT  
 TACAGGAAACCTACGTATGACAATTATGAGTTGCATCCCCGAGCCACACAGGACAGAGGAGTCCCTCAG  
 AAATCAGTGTTCAGTTGGAATAGATGACACCTCAAGAAATTTCCAAGGCTGGGTTTGTGGACCGGAT  
 TGTCAACTATAGCAGAGCCTCCATAAAATCACTGCTGTCTGACAAGCGCTCCCTGAACAGCGTTGTTACT  
 AGTGAACCTGACAAGCACTCGTCTTGGTGGGCGACTTCCGGGAAGATGATGACACCACACTGTAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_009726  
**Insert Size:** 4476 bp

<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_009726.5</a> , <a href="#">NP_033856.3</a>
<b>RefSeq Size:</b>	8195 bp
<b>RefSeq ORF:</b>	4476 bp
<b>Locus ID:</b>	11977
<b>UniProt ID:</b>	<a href="#">Q64430</a>
<b>Cytogenetics:</b>	X 47.36 cM
<b>Gene Summary:</b>	<p>May supply copper to copper-requiring proteins within the secretory pathway, when localized in the trans-Golgi network. Under conditions of elevated extracellular copper, it relocalized to the plasma membrane where it functions in the efflux of copper from cells (By similarity). [UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) uses an alternate in-frame splice site in the 5' coding region compared to variant 1. This results in a shorter protein (isoform 2) compared to isoform 1.</p> <p>Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>