

## Product datasheet for **MC224552**

### Atp7a (NM\_001109757) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Atp7a (NM_001109757) 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:	>MC224552 representing NM_001109757 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGAGCCAAGTGTGGATGCAAATTC AATTACTATCACTGTTGAGGGAATGACATGTATTTCTGTGTCC  
GGACATTGAACAGCAGATTGGGAAAGTGAATGGTGTCCATCACATTAAGTTTCACTAGAAGAAAAGAG  
TGCAACCATTATTTATGACCCTAACTTCAGACTCCAAAGACCCTCCAAGAAGCTATCGATGACATGGGC  
TTTGATGCTCTTCTCCACAATGCTAACCCTCCCTGTCTTAACCAATACCGTGTTCCTGACTGTTACTG  
CTCCACTGACTCTGCCTTGGGACCATATCCAAAGTACATTGCTCAAGACCAAGGGTGTGACTGGTGTAA  
GATTTCCCTCAGCAAAGAAGTGCAGTAGTCACCATAATCCATCTGTGGTGAGTGCCAGTCAGATTGTG  
GAGCTGGTCCCAGACCTCAGTTTAGACATGGGAACTCAGGAGAAAAAGTCAGGAGCTTGTGAAGAGCACA  
GCACGCCCTCAGGCAGGGGAAGTCATGCTGAAGATGAAAGTGGAAGGGATGACCTGCCATTCATGTACTAG  
CACCATTGAAGGAAAAGTTGGAAAGCTGCAAGGTGTTGAGCGCATTAAAGTGTCCCTAGACAACCAAGAA  
GCTACTATTGTTTTCAACCTCATCTCATCAGCAGAGGAAATAAAGAAGCAGATTGAAGCCGTGGGTT  
TCCCAGCCTTCAAAAAAGCAGCCGAAGTACCTCAAATTGGGAGCCATTGATGTTGAGCCCTGAAGAA  
CACACCGTCAAATCTTCAGAAGGATCTCAGCAAAGAGCCCATCATATCCCAGTGACTCCACAACCATG  
TTCACCATAGAGGGCATGCATTGTAATCGTGTGTGTCCTAATATTGAAAGTGCTTATCTACACTCCAGT  
ATGTAAGCAGTATAGTAGTTTCTTTAGAGAATAGGTGAGCCATTGTAAAGTACAATGCAAGCTTAGTCAC  
TCCAGAAATGCTGAGAAAGGCAATAGAGGCCATTTACCGGGCAATACAGAGTTAGTATTGCAAGTGAA  
GTTGAAAGTACCGCCAGCTCTCCCTCCAGCTCATCTCTCAGAAGATGCCTTTGAACATAGTTAGCCAGC  
CTCTGACCAAGAAGCTGTGATAAACATAAATGGCATGACTTGTAAATCTTGTGTGCAGTCTATAGAGGG  
TGTAATATCAAAAAGCCAGGTGTAATAATCCATCCACGTGCCCTCGAAACAGCACAGGGACTATTGAA  
TTTGATCTCTACTAACCTCTCCAGAACTTGCAGAGAAGCAATTGAAGACATGGGATTTGATGCTGCCT  
TGCCAGCAGACATGAAAGAGCCACTGGTAGTGATAGCTCAGCCCTCACTGGAAACACCTCTTTGCCCTC  
AAGTAATGAGCTAGAAAATGTGATGACGTGAGTTCAGAACAAAGTGTACATACAGGTCTCTGGGATGACC  
TGTGCTTCTGTGTAGCAAACATTGAACGCAATTAAGACGAGAAGAAGGAATATATTCTGTACTTGTG



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CCCTAATGGCTGGCAAGGCAGAAGTAAGATATAACCCAGCTGTTATCCAACCCCGAGTGATAGCAGAGTT  
TATTTCGAGAGCTTGGATTTGGAGCTATGGTGATGGAAAACGCTGGGGAAGGCAACGGCATCTTGGAACTT  
GTTGTGAGAGGAATGACGTGTGCTTCTGTGTCCATAAAATTGAATCAACACTCACAAAACAAAAGGGA  
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CAGAGATATTATCCATACCATCGGAAGCTTAGGCTTTGAAGCTTCTTTGGTCAAGAAAGATCGATCAGCC  
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GAACATGAGTAATGAAGAAATGATCAACATGCATTCTGCTATGTTTCTGGAGCGTCAGATCCTGCCAGGA  
CTGTCCATTATGAATTTGTTGTCCCTTTTATTGTGTCTACCTGTACAGTTTTGTGGCGGCTGGTACTTCT  
ACATTCAGGCTTACAAAGCACTGAAGCATAAGACAGCAAACATGGATGTGCTGATTGTGCTGGCAACCAC  
CATCGATTTGCCTACTCTCTGGTTATTCTTCTGGTTGCAATGTTTGTGAGAGGCCAAAGTGAACCCATT  
ACCTTCTTTGATACACCTCCTATGCTGTTTGTGTTTATTGCACTAGGACGATGGCTGGAACATATAGCGA  
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AAGGTTGTTCCAGGAGGCAAATTTCCAGTGGATGGCCGTGTTATTGAAGGACATTCTATGGTGGACGAGT  
CCCTCATCACAGGGGAGGCAATGCCTGTGGCTAAGAAAACCTGGCAGCACGGTGATTGCAGGTTCCATTAA  
CCAGAATGGATCTCTCCTCATCCGAGCAACACATGTGGGAGCAGATACAACCTTTCTCAGATCGTCAAA  
CTTGTGGAGGAGGCACAGACATCAAAGGCTCCTATCCAGCAGTTTGCAGACAAAACCTCAGTGGCTACTTTG  
TTCCTTTCATCGTCTTGGTTTCCATTGTTACCCTCTTGGTGTGGATTATAATTGGATTTCAAATTTTGA  
AATTGTGGAAACCTACTTTCCCGGCTATAATAGAAGCATCTCCCGAACAGAAACCATAATACGCTTTGCT  
TCCAAGCCTCTATCACGGTCTGTGTATCGCATGTCCCTGTTCACTGGGACTAGCCACTCCAACGTGCTG  
TGATGGTGGGCACAGGAGTAGGTGCTCAGAATGGCATACTTATCAAAGGTGGGAGCCACTGGAAATGGC  
TCATAAGGTAAGGTAGTGGTATTTGATAAGACTGGAACCATCACCCATGGAACCCCAAGTGTGAATCAA  
GTGAAGGTTCTCGTGGAAAGTAACAAGATATCACGCAATAAGATCCTGGCCATTGTGGGACTGCAGAAA  
GTAACAGTGAACATCCTTTAGGAGCAGCTGAACCAAATATTGCAAAAAGGAGCTGGACACTGAAACCTT  
GGGTACCTGTACAGATTTCCAGGTTGTACCAGGCTGTGGTATTAGCTGTAAGTCAACCAATATTGAAGGT  
TTGCTACATAAGAGTAACCTGAAGATAGAAGAAAATAACATTAATAATGCATCCCTGGTTCAAATTTGATG  
CAATTAATGAACAGTCATCAACTTCTCTATGATTATTGATGCTCATCTCTCAAATGCTGTTAATAC  
TCAGCAGTACAAAGTCTCATTGGTAACCGGGAATGGATGATTAGAAATGGTCTTGTGATAAGTAATGAT  
GTAGATGAATCTATGATTGAACATGAAAGAAGAGGTCGGACTGCTGTCTTGGTGACAATCGATGATGAGC  
TGTGTGGCTTGATTGCTATTGCTGATACTGTGAAACCTGAGGCCGAGTTGGCTGTACACATTCTGAAATC  
TATGGGTTTAGAAGTAGTTCTGATGACTGGAGACAACAGTAAAACCTGCTCGGTCTATTGCTTCTCAGGTT  
GGCATTACTAAGGTGTTTGTGTAAGTTCTACCTTCCCACAAAGTTGCTAAGGTGAAGCAGCTCCAAGAGG  
AGGGCAACCGTGTAGCAATGGTAGGAGATGGAATCAATGACTCCCCAGCTCTGGCAATGGCAAACGTTGG  
AATTGCCATAGGCACAGGCACAGATGTAGCCATTGAAGCAGCTGATGTGGTTTTGATAAGGAATGACCTT  
CTGGATGTTGTGGCAAGTATTGACTTGTCAAGGAAAACAGTCAAGAGGATTGCAATCAATTTTGTCTTTG  
CTCTAATTTATAATCTGGTTGGAATCCCATCGCTGCTGGAGTTTTCTGCCATCGGTTTGGTTTTACA  
ACCCTGGATGGATCCGCAGCAATGGCCGCTTCTCTGTCTCTGTAGTCTTTCTCCCTTTTCTCAAG  
CTTACAGGAAACCTACGTATGACAATTAGATTGATCCTCCCGAGCCACACAGGACAGAGGAGTCCCT  
CAGAAATCAGTGTTACGTTGGAATAGATGACACCTCAAGAAATTTCTCAAGGCTGGGTTTGTGACCG  
GATTGTCAACTATAGCAGAGCCTCCATAAATCTACTGCTGTCTGACAAGCGCTCCCTGAACAGCGTTGTT  
ACTAGTGAACCTGACAAGCACTCGCTTCTGGTGGGCGACTTCCGGGAAGATGATGACACCACACTGTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001109757  
**Insert Size:** 4479 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>	<u><a href="#">NM_001109757.2</a></u> , <u><a href="#">NP_001103227.1</a></u>
<b>RefSeq Size:</b>	8198 bp
<b>RefSeq ORF:</b>	4479 bp
<b>Locus ID:</b>	11977
<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 (1) represents the longer transcript and encodes the longer isoform (1). 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>