

## Product datasheet for MC224511

### Atp7b (NM\_007511) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Atp7b (NM_007511) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Atp7b
Synonyms:	Atp7a; tx; WND
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC224511 representing NM_007511 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGATCCCGAAGAAGCTTGGCGTCTGTGGGACGATGCCTGAACAGGAGAGACAGGTCACAGCCAAAG  
AGGCCAGTCGGAAAATCTTATCTAAACTTGCTTTGCCCGCCGGCCCTGGGAGCAATCAATGAAGCAGAG  
CTTCGCCTTCGACAATGTTGGCTACGAAGGGGTCTGGACAGCACCAGCTCGTCCCAGCAGCCACTGAT  
GTGGTTAACATCCTGGGCATGACTTGTCAATCTTTCGCTCAAGTCCATTGAGGACAGGATCTCCAGTCTGA  
AAGGCATTGTGAACATCAAGGTGTCCTTGAACAAGGCAGCGCCACTGTGAGATATGTGCCGTCTGTGAT  
GAACCTGCAGCAGATTTGCCTTCAGATTGAGGATATGGGCTTTGAGGCCAGCGCTGCAGAGGGAAAGGCC  
GCCTCCTGGCCTTCCAGGTCCTCCCAGCCAGGAGGGCGGTGGTCAAGCTCCGGGTAGAGGGCATGACCT  
GTCAGTCTGTGTCAGCTCTATCGAGGGCAAGATCCGGAACTGCAAGGGGTTGTGAGAATCAAAGTCTC  
CCTAAGCAACCAAGAGGCAGTCATTACCTATCAGCCTTACCTCATTCAACCCGAAGACCTCAGGGACCAC  
ATCTGTGACATGGGATTTGAAGCTGCCATCAAGAACAGAACAGCTCCCTTAAGGCTGGGACCAATTGATG  
TCAACAAGTTAGAAAGCACTAACCTAAAGAAAGAGACGGTCTCTCCTGTCCAGATTTCCAATCATTGATG  
GACCCCTGGGGCACCAGGGGAGCTACCTGGCCACCCTCCCACTAAGAATAGACGGCATGCACTGTAATCA  
TGTGTTTTGAATATTGAAGGAAATATAGGCCAACTCCCGGGGTTCAAAAATTACCGTGTCTTGGAGA  
ACAAAACCGCCAAATACAGTATGACCCTTCTTGTGTACCCCATGTTCTGCAGACAGCCATCGAGGC  
ACTACCACCTGGGCACTTTAAAGTGTCTTCCCGATGGAGTAGAGGAGAATGAGCCCCAAAGTGCTCC  
TCCCAGAGACACCAGGAGCAGGGCCCGGCAGGACTGCGGTGCTCACCATCAGCGGCATTACCTGTGCCT  
CATCTGTTGAGCCTATCGAAGACATGCTGTCCCAGAGGAAAGGTGTGCAGCAAACATCCATCTTTGGC  
AGAAGGGACTGGAGCAGTTCTTTACGACCCTCCATAGTCAGCTTGACGAACTCCGAACGGCTGTAGAA  
GACATGGGATTTGAGGTGTCTGTGAATTCTGAAACCTTACTATTAACCTGTGAGAACTTCAAATCTG  
GGAATTCTGTGCCACAAACCATGGGTGATATAGCAGGGTCTGTGCAAAAATGGCTCCCAGACTAGAGG  
GCTCCCCACACCAAGGTCTGGCCACTCTTCAGAGACCCCATATCCCAGGAGCAACAGCATCACAG  
AAGTGCTTCGTACAGATCAAAGGCATGACCTGTGCGTCTGTGTCTAACATAGAAAGGAGTCTCCAGA



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GACATGCTGGTATTCTCTCAGTGTGGTCGCCTTGATGTCGGGAAAGGCAGAGGTCAAGTATGATCCGGA  
 GATCATCCAGTCGCCAGGATAGCTCAGCTCATCCAGGACCTGGGCTTCGAAGCGTCAGTCATGGAGGAC  
 AACACAGTCTCTGAAGGTGACATCGAACTGATTATCACAGGGATGACCTGTGCTTCTGTGTCCACAACA  
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 TGTGAAGTTCGATCCTGAAATGTTGGTCCCGTGACATCATCAAGATCATTGAGGAAATGGCTTTCAT  
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 CAGTACGCCTCAGGAGACGATGGTCTGGACCACAACATCATCCAGGACTGTCCGTTCTCAATCTCATC  
 TTCTTCATCTTGTGTACCTTTGTCCAATTTCTGGGTGGGTGACTTCTACGTACAAGCCTACAAATCGC  
 TGAGACACAGGTCCGCCAACATGGACGTAATCATCGTGTGCTGCCACAACCATTGCCTATGCCTACTCCCT  
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 ATGCTCTTTGTGTTTCATCGCCCTGGGACGGTGGCTGGAACACGTGGCCAAGAGCAAAACTTCAGAAGCCC  
 TTGCAAACTCATGTCACTCCAAGCCACAGAAGCCACAGTCGTGACCCTGGGTGAGGACAACTTAATCCT  
 CAGAGAGGAGCAGGTGCCATGGAGCTGGTGCAGCGAGGGCAGCTCATCAAGTTGTCCCTGGGGCAAG  
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 TGCTGTCACTAAGAACTGGGAGCATAGTATTGCTGGCTCTATTAATGCTCATGGCTCTGTGCTCCT  
 TAAAGCTACCCATGTGGTAATGACACAATTTGGCTCAGATTGTAAGTTGGTGGAAAGAGGCCAGATG  
 TCAAAGGCTCCCATTCAGCAGCTGGCTGACCGGTTCACTGGATATTTTGTCCATTTCATCATCATCATT  
 CAACCTTGACCCTGGTGGTGTGGATCGTCATTGGCTTTGTGATTTCCGTTGGTTCAGAAGTACTTTCC  
 TAGCCCTAGCAAGCACATCTCGCAGACAGAGGTGATCATCCGCTTTGCCCTCCAGACGTCCATCACTGTG  
 CTGTGCATCGCCTGCCCTGCTCCCTGGGGTGGCCACACCCACAGCAGTCATGGTGGGCACTGGGGTGG  
 CTGCCCAGAACGGTGTCTAATCAAAGGAGGGAAGCCTCTGGAGATGGCACACAAGATAAAGACCGTTAT  
 GTTTGACAAAACGGGCACCATCACCCACGGGGTCCCAGAGTCATGCGGTTCTGTGCTCGCAGAGCTG  
 GCCACACTCCCCCTCAGGAAGGTTCTGGCCGTGGTGGGCACCGGGAGGCCAGCAGCAGACCCCTTAG  
 GCGTGGCCGCTACTAAATACTGCAAAGAGGAATTTGGGACGGAGACCCTGGGATACAGCACAGACTTCCA  
 GGCAGTGCCCGGCTGTGGAATTAGTGCAAAGTTAGCAACGTGGAGGGCATCCTGGCTCGCAGTGATCTG  
 ACTGCTCACCTGTTGGAGTTGGCAACCCTCCACAGGGGAAGGTGCAGGTCCCCAGACCTTCTCCGTGC  
 TGATTGGAACCGGGAATGGATGCGGCGAAACGGTTAAACCATCTCCAGTGACATCAGTGACGCCATGAC  
 AGATCACGAGATGAAAGGACAGACGGCCATCCTGGTGGCCATTGATGGTGTGCTCTGCGGGATGATCGCC  
 ATCGCAGATGCTGTCAAACCAGAGGCTGCCCTGGCTATCTACACCCTGAAAAGCATGGGTGTGGATGTGG  
 CTCTGATCACAGGGGACAACCGGAAGACAGCCAGAGCCATTGCTACTCAGTTGGCATCAACAAAGTCTT  
 TCGCGAGTACTGCCTTCTCACAAGGTGGCCAAGTCCAGGAGCTTCAGAATGAAGGGAAGAAAGTCCGC  
 ATGGTGGGAGATGGGGTGAATGACTCCCAAGCCCTGGCCAGGCTGACGTGGGCATCGCCATCGGGACTG  
 GCACAGATGTTGCCATCGAAGCAGCAGACGTGGTCTGATCAGAAATGACTTATTGGACGTGCTGGCCAG  
 CATTCTCTCTCAAGAGGACCGTCCGGAGGATCCGGGTCAATCTGGTGTGGCATTGATTTATAACATG  
 GTTGGGATACCTATTGCTGCAGGTGCTTTCATGCCATTGGCATCGTGTGACAGCCGTGGATGGGCTCAG  
 CAGCCATGGTGCCTCTGTCTCTGTGGTGTCTGCTCTTTCAGCTCAAGTGTATAGAAAGCCCGA  
 CCTAGAGAGATATGAGGCCAGGCCACGGCCGATGAAGCCCTGAGTGCCTCCCAAGTCAGCGTGCAC  
 ATTGGCATGGATGACCGGCTCGGGATTCTCCAGGGCCACCGCTGGGACCAGGTCAGCTACGTGAGCC  
 AAGTGTCTCTGTCTCCCTGACGTGACAGAGATTGTCTCGCATGGCGGGGCAGCAGAGGACGGTGGCGA  
 CAAATGGTCCCTGCTCCTGAGTGACAGGGATGAAGAGCAGTGCATCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_007511  
**Insert Size:** 4389 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_007511.2</a></u> , <u><a href="#">NP_031537.2</a></u>
<b>RefSeq Size:</b>	4711 bp
<b>RefSeq ORF:</b>	4389 bp
<b>Locus ID:</b>	11979
<b>UniProt ID:</b>	<u><a href="#">Q64446</a></u>
<b>Cytogenetics:</b>	8 10.78 cM
<b>Gene Summary:</b>	Copper ion transmembrane transporter involved in the export of copper out of the cells, such as the efflux of hepatic copper into the bile.[UniProtKB/Swiss-Prot Function]