

Product datasheet for **RN206811**

Atp7b (NM_012511) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atp7b (NM_012511) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Atp7b
Synonyms:	Hts; PINA; Wd
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN206811 representing NM_012511 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCTGAACAGGAGAGAAAAGGTCACAGCCAAAGAGGCCAGTCGGAAAATCTTATCTAAACTTGCTTTGC
CCACACGACCGTGGGGACAATCAATGAAGCAGAGCTTCGCCTTCGATAATGTTGGCTATGAAGGGGGCT
GGACAGCACCTGCTCATCTCACTACCACCGGTGTGGTTAGCATCCTGGGCATGACTTGTCACTTCTTGC
GTCAAGTCCATCGAGGACAGGATCTCCAGTCTGAAAGGCATTGTGAGCATCAAGTTTCTCTGGAGCAGG
GCAGCGCCACTGTCAAATATGTACCGTCAGTCTTGAACCTGCAGCAGATTTGCCTTCAGATTGAGGACAT
GGGCTTTGAGGCCAGCGCTGCAGAAGGAAAGGCTGCCTCCTGGCCTTCCAGGTCTTCCCCAGCCCAGGAG
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TTACCTCATTCAACCCGAAGACCTCAGGGACCACATCTGCGACATGGGATTCCAAGCTGCCATCAAGAAC
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CAGTCCCTCCTATCCAGAATCCAATCATTGGAGACCCGGGGCACCAGCAGAACCACCTGGCCACCCT
CCCACTAAGAATAGACGGGATGCACTGTAATCATGTGTTTTGAATATCGAAGGAAATATAGGCCAACTT
CCAGGGGTTCAAATATTCATGTGTCCTTGGAGAACAACCCGCAAGTACAGTATGACTCTTCTTGTA
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TGTGCGTCCTGTGTGCTAACATAGAAAGGAGTCTGCAGAGACATGCCGGTATTCTCCTCGTGTGGTGC



CCTTGATGTCGGGAAAGGCAGAGGTCAAGTATGACCCAGAGGTCATCCAGTCTCCCAGGATAGCTCAGCT
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 CATCACTTGGACCACAAGACGGAATAAAACAGTGAAGAATCTTTCTGTGCAGCCTGGTGTGGCA
 TCCCCTGATGGCTTGTGATGATCTACATGCTAATCCCCAGCAGTAAGCCCCACGAGACCATTGGCTGGA
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 GGCGGAGAAGAGCCAGTGACCTTCTTTGACACACCCCATGCTCTTCTTTCATCGCCCTGGGACGG
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 AAGCCACAGTTGTGACCCTGGGAGAGGACAACCTAATCCTCAGAGAGGAGCAAGTCCCCATGGAGCTGGT
 GCAGCGAGGTGACATCATCAAGTTGTCCCTGGGGCAAGTCCCAGTGGACGGGAAAGTCTGGAAGGC
 AACACCATGGCAGATGAGTCCCTCATCACAGGAGAGGCCATGCCGTGACCAAGAAACCCGGGAGCATAG
 TGATTGCTGGCTCTATAAATGCTCATGGCTCTGTGCTCATTAAAGCTACCCATGTGGGCAATGACACTAC
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 CGGTTCACTGGATATTTCTGCTCCATTTATCATCATTATTTCAACCTTAACATTGGTGGTGTGGATCATCA
 TCGGCTTTGTGATTTTGGTATTGTTTCAAGAGTACTTTCCTAGCCCTAGCAAGCATATCTCACAGACAGA
 GGTGATCATCCGCTTTCGCTTCCAGACGTCCATCACCGTCTGTGCATCGCCTGCCCTGCTCCCTCGGG
 CTGGCCACACCCACAGCAGTTATGGTGGCACTGGGGTGGCTGCCAGAACGGCGTCTAATCAAGGGAG
 GGAAGCCTCTGGAGATGGCACACAAGATAAAGACCGTTATGTTTGACAAAACGGGACCAATTACCCACGG
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 GTGGTGGGCACCCGAGAGGCCAGCAGTGTGACACCCCTTAGGCGTGGCCGCTCACTAAATACTGCAAAGAGG
 AACTCGGGACGGAGACCTGGGGTACAGCACGGACTTCCAGGCAGTGCCAGGGTGTGGAATTAGCTGCAA
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 ATGTTTAAACATCTCCAGTGACATCAGTGACGCCATGACAGATCATGAAATGAAAGGACAGACGGCCAT
 CCTGGTGGCCATTGATGGTGTGCTGTGCGGGATGATCGCCATTGCAGATGCTGTTAAACCAGAGGCTGCC
 CTGGCTATCTACACCCTGAAAAGCATGGGCGTGGATGTGGCTCTGATCACAGGGGACAACCGGAAGACAG
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 CAAGGTCCAGGAGCTTCAAGAACAAGGGAAAAAGTGCCTATGGTGGGAGACGGGGTGAACGACTCCCCA
 GCCTTGGCCAGGCTGACGTGGCATTGCTATTGGGACTGGGACAGATGTGCCATCGAAGCAGCCGACG
 TGGTCTTATAAGAAATGACTTACTGGACGTGGTGGCCAGCATTATCTCTCAAGAGGACCGTCCGGAG
 GATCCGGGTCAATCTGGTGTGCGGTTGATTTATAACATGGTTGGGATACCCATTGCTGCAGGTGTCTTC
 ATGCCATTGGCATCGTGTGACGCCATGGATGGGCTCAGCGCCATGGCCGCTCCTCTGTGTCGGTGG
 TGCTCTCTCTTTCAGTCAAGTGCTACAGAAAGCCGACCTAGAGAGATATGAGGCACAGGCCATGG
 ACGCATGAAGCCTCTGAGTGCATCCAAGTCAGCGTGCACGTTGGCATGGATGACCGCGCGGGGATTCT
 CCCAGGGCCACACCCTGGGACCAGGTGAGTACGTGAGCCAAGTCTCTCTGCTTCCCTGACGTGAGACA
 GATTGTCTCGGCATGGCGTATGGCAGAGGATGGTGGAGACAAATGGTCCCTGCTCCTGATGACAGGGA
 TGAAGAGCAGTGCATCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_012511
Insert Size: 4359 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:	<u>NM_012511.2, NP_036643.2</u>
RefSeq Size:	5506 bp
RefSeq ORF:	4359 bp
Locus ID:	24218
Cytogenetics:	16q12.5
Gene Summary:	plays a role in copper ion transport; partial gene deletion in the Long-Evans Cinnamon (LEC) strain is a model for Wilson disease [RGD, Feb 2006]