

Product datasheet for **RN207798**

Atp12a (NM_133517) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Atp12a (NM_133517) Rat Untagged Clone
Tag: Tag Free
Symbol: Atp12a
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN207798 representing NM_133517
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGCGCCGGAAAACAGAAATTTATTCTGTAGAGCTCAACGGAAGTAAAGACGTCAAGCCAGCAGACCAGA
GGGATGACAAAAAGTTCAAAGGAGCGAAGAACAAGGACTTGAACCCAACAAGAGTCACGAGAAAGAGGA
GCTGAAGAAAGAACTTGATCTGGATGATCAGAGCTCAGTAATACAGAATTGGAACAGAAATATGGTACC
AACATCATCCAGGGTCTCTCCAGCGTCAGAGCTACAGAGCTCCTGGCTCGGGATGGGCCAACACTCTTA
CCCCTCCCAAGCAAACCTCCAGAGATTATCAAGTTCCTCAAGCAGATGGTGGGGGGCTTTTCCATCCTCCT
GTGGATAGGTGCTGCCTTGTGCTGGATCGCATTTGTGATCCAGTACGTCAACAATCCGCATCCCTAGAC
AACGTCTACTTGGGCGCCATACTTGTCTGGTTGTTATTTTAACGGGGATTTTGTCTATTACCAAGAAG
CCAAAAGCACCAACATCATGGCCAGCTTTAGTAAGATGATCCCCAGCAAGCTCTTGTCTCCGAGATGC
CGAAAAGAAGGTCATTTACGAGAGCAACTGGTGGTGGGGGACGTTGTGGAGATTAAAGGAGGGGACCAG
ATCCCTGCAGACATCAGACTGGTATTTTCCAAGGGTCAAAGTAGATAACTCCTCTCTCACTGGGGAAAT
CTGAGCCCCAGGCTCGTTCAACTGAGTTTACCCATGAAAACCCCTTGAAACCAAGAACATAGGCTTCTA
TTCCACAACCTGCCTGGAAGGTACAGCAACTGGCATTGTATCAACACGGGTGACCGTACCATCATCGGG
CGCATAGCCTCCTTGGCTTCAGGCGTTGGGAGTGAGAAAACCCATTGCCATTGAGATCGAGCATTTTG
TCCATATTGTGGCAGGAGTGGCTGTGTCATTGGCATTTTTCTTTCATCACCGCGGTGTGCATGAAGTA
CTATGTCTCGACGCCATCATCTTCTCATTAGCATCATTGTGGCTAACGTGCCAGAGGGCTCCTGGCT
ACTGTCACTGTTACCCTGTCACTGACGGCAAAACGGATGGCCAAGAAGAACTGCCTGGTAAAGAATCTGG
AGGCAGTGGAGACTCTTGGCTCCACCTCCATCATCTGCTCAGACAAGACGGGGACCCTGACCCAGAACAG
GATGACTGTGGCTCACTTGTGGTTTGACAATCAGATCTTGTGGCTGATACTAGTAAAACCAAAACAAAA
CAAGCCTTTGACCAAAGCTCTGGAACCTGGGCTTCCTTGTCCAAGATAATAACTGTGTAAACCGAGCAG
AGTTTCAGGCCAGCCAGGAGAGTGTCCCATCATGAAGAGAAGTGTGGTTGGAGACGCCTCAGAAAAGTGC
TCTGCTAAAGTTCTCAGAGGTCAATTTTGGGTGACGTGATGGGAATTAGGAAAAGAAACCAAAAGTGGCT
GAAATTCCTTTAATTCTACCAACAAATTTTCAGCTCTCCATACATGAGACAGAGGACCCTAATGACAAAAC
GCTTCTCGTGGTGTGAAAGGAGCCCTGAGAGGATCTTAGAGAAGTGCAGCACCATCATGATCAATGG
CCAGGAGCAGCCACTGGACAAGAGCTCTGCTGATAGCTTCCACACAGCCTACATGGAGCTGGGCGGTCTG



GCGAGCGTGTGTGGGTTTCTGTACCTCTACTTGCCAGCAGAGCAGTCCCCAAAGTTACATCTTTG
 ATGTGCGACTCCGTAACCTTTCCCACTTCCAACCTCTGCTTTGTGGGGCTTCTGTCCATGATCGACCCCTCC
 TCGGTCTACTGTGCCAGACGCAGTCTCCAAATGTCGGAGTGCCGGGATCAAGGTTATCATGGTCACAGGT
 GATCACCTATCACCGCCAAAGCTATTGCCAAGAGTGTAGGAATCATATCGGCCAACAACGAGACAGTGG
 AAGACATCGCGAAACGCCGCAATATCGCTGTGGAGCAGGTCAACAAAAGAGAAGCTAAAGCCGCTGTGGT
 GACTGGCATGGAGCTGAAGGACATGACCCAGACAAGTTGATCATTGTGGAGGGCTGTCAGAGGCAGGACCCATCG
 GTATTTGCCCGGACATCACCCAGCAGAAGTTGATCATTGTGGAGGGCTGTCAGAGGCAGGACCCATCG
 TTGCCGTGACGGGTGATGGAGTGAACGACTCTCCAGCACTGAAGAAGGCAGACATCGGGATTGCTATGGG
 GATAGCAGTTTCTGACGCTGCTAAGAACGCAGCTGACATGGTCTTACTAGACGACAACTTCGCGTCTATA
 GTCACAGGGGTGGAGGAAGGTCGCCTGATCTTCGACAACCTGAAGAAAACCATTGCGTACACCCTGACAA
 AGAACATCGCCGAGCTCTGCCCTTTTTTGTCTACATCGTTGCTGGGCTCCCCCTGCCTATTGGAACCAT
 CACTATCCTATTCATCGACCTGGGCACAGACATTATCCCCTCCATTGCCTTGGCCTATGAGAAAGCAGAA
 AGTGACATTATGAATAGGAAACCTCGCCACAAGAAGAAAGACAGACTGGTGAACACGCAGCTGGCCATCT
 ACTCTTACCTTACATTGGTCTCATGCAAGCTCTGGGAGGTTTCTCGTCTATTTCACTGTCTATGCACA
 GCAGGGCTTTTGGCCACTTCTCTCATCAACCTGAGGGTAGCATGGGAAACAGATGACATAAATGACTTG
 GAAGACAGCTACGGGCAGGAATGGACAAGGTATCAGAGAAAATACCTGGAATGGACAGGCTCAACGGCTT
 TCTTTGTTGCCATCATGATCCAACAAATTGCGGATCTGATCATCAGGAAAACCCGAGGAATTCCATCTT
 TCAGCAGGGGCTCTTCAGAAATAAAGTCATCTGGGTGGGGATCGCCTCACAGGTTCATCGTTGCACTGATC
 CTCTCCTATGGTCTCGGGAGTGTCCAGCTCTGAGCTTTACCATGCTCAGGGTTCAGTACTGGTTTGTGG
 CTGTGCCACATGCCATTTTATTGGGTGATGACGAGATGCGAAAGTTGTTTCATCAGGCTCTACCTGG
 AAGCTGGTGGGATAAGAACATGTATTATGGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-Mlul
ACCN:	NM_133517
Insert Size:	3111 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_133517.2, NP_598201.2</u>
RefSeq Size:	4019 bp
RefSeq ORF:	3111 bp
Locus ID:	171028

Cytogenetics: 15p12

Gene Summary: may act as a H⁺,K⁽⁺⁾-ATPase in distal colon; may also play a role in K⁺ absorption and H⁺ secretion in the distal nephron [RGD, Feb 2006]
Transcript Variant: This variant (1) encodes the longer isoform (a, also known as HKalpha2a).
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.