

## Product datasheet for **RN217338**

### **Atp12a (NM\_001301664) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Atp12a (NM_001301664) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Atp12a
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

**Fully Sequenced ORF:** >RN217338 representing NM\_001301664  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGTGGGGGCTTTTCCATCCTCTGTGGATAGGTGCTGCCTTGTGCTGGATCGCATTGTGATCCAGT  
 ACGTCAACAATTCCGCATCCCTAGACAACGTCTACTTGGGCGCCATACTTGTCTGGTTGTTATTTAAC  
 GGGGATTTTTGCTTATTACCAAGAAGCCAAAAGCACCAACATCATGGCCAGCTTTAGTAAGATGATCCCC  
 CAGCAAGCTCTTGTATCCGAGATGCCGAAAAGAAGTCAATTCAGCAGAGCAACTGGTGGTGGGGACG  
 TTGTGGAGATTAAGGAGGGGACCAGATCCCTGCAGACATCAGACTGGTATTTTCCCAAGGGTGCAAAGT  
 AGATAACTCCTCTCACTGGGGAATCTGAGCCCCAGGCTCGTTCAACTGAGTTTACCCATGAAAACCCC  
 TTGGAACCAAGAACATAGGCTTCTATTCCACAACCTGCCTGGAAGGTACAGCAACTGGCATTGTCATCA  
 ACACGGGTGACCGTACCATCATCGGGCGCATAGCCTCCTTGGCTTCAGGGCTGGGAGTGAGAAAACACC  
 CATTGCCATTGAGATCGAGCATTTTGTCCATATTGTGGCAGGAGTGGCTGTGCCATTGGCATCATTTC  
 TTCATCACCGCCGTGTGCATGAAGTACTATGTCCTCGACGCCATCATCTTCTCATTAGCATCATTGTGG  
 CTAACGTGCCAGAGGGCCTCCTGGCTACTGTCCTGTACCCTGTCACTGACGGCAAAACGGATGGCCAA  
 GAAGAAGTGCCTGGTAAAGAATCTGGAGGCAGTGGAGACTCTTGGCTCCACCTCCATCATCTGCTCAGAC  
 AAGACGGGACCTGACCCAGAACAGGATGACTGTGGCTCACTTGTGGTTGACAATCAGATCTTTGTGG  
 CTGATACTAGTAAAAACCAAAACAAAGCCTTTGACCAAGCTCTGGAACCTGGGCTTCTTGTCCAA  
 GATAATAACACTGTGTAACCGAGCAGAGTTCAGGCCAGGCCAGGAGAGTGTCCCATCATGAAGAGAAGT  
 GTGGTTGGAGACGCCCTCAGAACTGCTCTGCTAAAGTTCAGAGGTCAATTTGGGTGACGTGAGGGAA  
 TTAGGAAAAGAAACCAAAAGTGGCTGAAATTCCTTTTAAATCTACCAACAAATTTGAGTCTCCATCA  
 TGAGACAGAGGACCCCTAATGACAACGCTTCTCGTGGTGTGAAAGGAGCCCTGAGAGGATCTTAGAG  
 AAGTGCAGCACCATCATGATCAATGGCCAGGAGCAGCCACTGGACAAGAGCTCTGCTGATAGCTTCCACA  
 CAGCCTACATGGAGCTGGGCGGTCTGGGCGAGCGTGTGTTGGGTTTCTGTACCTCTACTTGCCAGCAGA  
 GCAGTTCCCCAAAGTTACATCTTTGATGTGACTCCGTAACCTTCCCACTTCAAATCTGCTTTGTG  
 GGGCTTCTGTCCATGATCGACCTCCTCGGTCTACTGTGCCAGACGCAGTCTCAAATGTCGGAGTGCCG  
 GGATCAAGGTTATCATGGTACAGGTGATCACCTATCACCGCAAAGCTATTGCCAAGAGTGTAGGAAT  
 CATATCGGCCAACACGAGACAGTGAAGACATCGCGAAACGCCCAATATCGCTGTGGAGCAGGTCAAC  
 AAAAGAGAAGCTAAAGCCGCTGTGGTACTGGCATGGAGCTGAAGACATGACCCAGAACAAGTGGATG  
 AGCTTTTGACCAACTACCAAGAAATCGTATTTGCCCGGACATCACCCAGCAGAAGTTGATCATTGTGGA  
 GGGCTGTGAGAGGACAGGACGCCATCGTTGCCGTGACGGGTGATGGAGTGAACGACTCTCCAGCACTGAAG  
 AAGGCAGACATCGGGATTGCTATGGGGATAGCAGGTTCTGACGCTGCTAAGAACGCAGCTGACATGGTCT  
 TACTAGACGACAACCTTCGCGTCTATAGTCACAGGGGTGGAGGAAGGTCGCTGATCTTCGACAACCTGAA  
 GAAAACCATTGGGTACACCCTGACAAAGAACATCGCCGAGCTCTGCCCTTTTGGATCTACATCGTTGCT  
 GGGCTCCCCCTGCCTATTGGAACCATCACTATCCTATTCATCGACCTGGGCACAGACATTATCCCCTCA  
 TTGCCCTTGGCCTATGAGAAAGCAGAAAGTGACATTATGAATAGGAAACCTCGCCACAAGAAGAAAGACAG  
 ACTGGTGAACACGCAGCTGGCCATCTACTTACCTTACATTGGTCTCATGCAAGCTCTGGGAGGTTTC  
 CTGCTCTATTTCACTGTCTATGCACAGCAGGGCTTTTGGCCCACTTCTCTCATCAACCTGAGGGTAGCAT  
 GGGAAACAGATGACATAAATGACTTGAAGACAGCTACGGGCAGGAATGGACAAGGTATCAGAGAAAATA  
 CCTGGAATGGACAGGCTCAACGGCTTTCTTTGTTGCCATCATGATCCAACAAATTGCGGATCTGATCATC  
 AGGAAAACCCGGAGGAATCCATCTTTCAGCAGGGGCTTTCAGAAATAAAGTCACTGGGTGGGGATCG  
 CCTCACAGGTATCGTTGCACTGATCCTCTCTATGGTCTCGGGAGTGTCCAGCTCTGAGCTTTACCAT  
 GCTCAGGGTTCAGTACTGGTTTGTGGCTGTGCCACATGCCATTTTGATTTGGGTGTATGACGAGATGCCA  
 AAGTTGTTATCAGGCTCTACCTGGAAGCTGGTGGGATAAGAACATGTATTAT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

<b>ACCN:</b>	NM_001301664
<b>Insert Size:</b>	2787 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>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<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>NM_001301664.1, NP_001288593.1</u>
<b>RefSeq Size:</b>	4160 bp
<b>RefSeq ORF:</b>	2787 bp
<b>Locus ID:</b>	171028
<b>Cytogenetics:</b>	15p12
<b>Gene Summary:</b>	<p>may act as a H<sup>+</sup>,K<sup>(+)</sup>-ATPase in distal colon; may also play a role in K<sup>+</sup> absorption and H<sup>+</sup> secretion in the distal nephron [RGD, Feb 2006]</p> <p>Transcript Variant: This variant (2) has an alternate 5' sequence, which results in translation initiation at a downstream start codon, compared to variant 1. The resulting isoform (b, also known as HKalpha2b) has a shorter N-terminus, compared to isoform a. 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>