

## Product datasheet for RN217427

### Atp4a (NM\_012509) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Atp4a (NM_012509) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Atp4a
Synonyms:	Hka; Hkatpc
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN217427 representing NM_012509 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGC**C

ATGGGGAAGGCAGAGAATTATGAATTGACTCAGTGGAACTGGGGACTGGCCCTGGTGGGAACATGGCTG  
CCAAGATGAGCAAGAAGAAGGCCGGGAGGCGGGGAGGCAAGAAGAAGGAGAAGCTAGAGAACATGAAGAA  
GGAGATGGAGATGAACGACCACCAGTTGTCAGTGTCTGAGCTGGAGCAGAAGTACCAGACCAGTGCCACC  
AAGGGCCTGAAGGCGAGTCTGGCAGCTGAGCTGCTGCTGAGGGATGGGCCAATGCACTCCGGCCACCTC  
GGGGCACCCCTGAGTACGTGAAGTTCGCCCGGAGCTGGCAGGCGGTCTGCAGTGCCTCATGTGGGTGGC  
TGCAGCCATCTGCCTCATTGCCTTTGCGATTACAGGCCAGCGAGGGAGACCTGACCACTGATGACAATTTG  
TACCTGGCGTTGGCACTCATTGCTGTGGTTGTGGTCACTGGCTGTTTTGGCTACTACCAGGAGTTCAAGA  
GCACAAATATCATCGCCAGCTTCAAGAATCTTGTACCCAGCAAGCCACAGTGATCCGAGACGGGATAA  
GTTCCAGATCAACGCGGATCAGCTTGTGGTGGGCGACCTGGTAGAGATGAAAGGCGGGGACCGCTCCCA  
GCAGACATCCGAATCTGTGAGCCAGGGCTGCAAGGTGGACAACCTCTCGCTTACTGGAGAGTCTGAAC  
CGCAGACCCGCTCACCTGAGTGTACACAGAGAGTCCCCTTGAGACCCGCAACATCGCCTCTTCTCCAC  
CATGTGTCTGGAGGGCACGGCGCAGGGCTTGGTGGTAGCACCGGTGATCGCACCATCATTGGACGCATC  
GCCTCTCTGGCTTCGGGTGTGGAAAACGAGAAGACTCCTATCGCGATCGAGATCGAACATTTTGTGGACA  
TCATTGCTGGCCTGGCCATCCTCTTGGTGGCCATTCTTGTGGTGGCCATGTGTATCGGCTATACCTT  
CCTTCGGGCCATGGTCTTCTTATGGCCATTGTGGTAGCCTATGTGCCTGAGGGGCTGCTGGCTACTGTC  
ACGGTCTGCCTGTCACTGACAGCAAAGAGGCTGGCCAGTAAAACTGTGTGGTCAAAAATCTGGAAGCAG  
TGGAGACCCTGGTTCCACGTCACTGCTGCTCAGACAAGACAGGAACCTTACTCAGAACCGCATGAC  
GGTGTCTCATCTATGGTTTGACAACCATATCCACACGGCGGACACCACAGAAGACCAGTCAAGGCAAACG  
TTCGACCAATCGTCGGAGACCTGGCGGGCGCTGTGCCGCTGCTCACCTGTGCAACCGCGCTGCCTTCA  
AGTCTGGCCAGGACGCCGTGCCAGTGCCCAAGCGCATCGTGATCGGAGACGCATCTGAGACTGCGCTGCT  
CAAGTTCTCGGAGTTGACGTTGGGCAACGCCATGGGTTATCGGGACCGCTTCCCAAAAGTTTGGCAGATC  
CCCTTCAACTCCACCAACAAGTTTCAGCTGTCCATTACACTCTGGAGGATCCGCGCGACCCCGGCACT



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TGCTGGTGAAGGGCGCCAGAGCGGTGCTGGAGCGTTGCAGCTCCATCCTCATCAAGGGCCAGGA  
GCTGCCCTGGACGAGCAATGGCGTGAGGCCTCCAGACAGCCTACCTTAGCCTGGGAGGCCTAGGCGAA  
CGCGTTCTTGGTTTCTGCCAGCTCTACCTGAATGAGAAGGACTACCCGCCTGGCTACACCTTTGATGTGG  
AGGCCATGAACTTTCAAAGTAGTGGCCTCTGCTTTGCGGGACTTGTATCCATGATTGACCTCCCCGGGC  
CACCGTCCAGATGCTGTGCTCAAATGCCGTACGGCAGGCATCCGGGTGATCATGGTGACTGGTGACCAT  
CCCATCACAGCCAAGGCCATTGCAGCCAGTGTGGGATCATCTCGAAGGCAGCGAGACAGTGAAGACA  
TCGCCGCCCGCCTCCGAATGCCTGTAGACCAGTTAATAAGAAGGATGCCCGGCCTGTGTGATCAATGG  
CATGCAGTTGAAGGACATGACCACCTAGCTGAGCTGGTGGAGGCGCTGCGCACCCACCTGAGATGGTGTT  
GCTCGAACCAAGTCTCAGCAGAAGCTGGTGATTGTGGAGAGCTGTGAGGACTGGGTGCCATTGTGGCTG  
TAACAGGGGATGGTGTGAATGACTCCCCAGCCCTGAAGAAGGCTGACATTGGTGTAGCCATGGGCATTGC  
TGGCTCCGATGCTGCTAAAAATGCTGCTGACATGATCTTGGTGGATGACAACTTCGTTCCATTGTGACG  
GGCGTGGAGCAGGGCCGACTGATCTTTGACAACCTGAAGAAATCCATCGCCTATACACTGACCAAGAACA  
TTCCAGAACTGACACCCTACCTTATCTATATCACTGTCAGTGTGCCCTACCCCTGGGTGTATCACCAT  
TCTCTTATAGAAGTCTGCACAGATATCTTCCATCTGTGTCCCTGGCATATGAAAAGGCCGAGAGTGAC  
ATCATGCACCTGCGCCACGGAACCCAGGCGGGACCGTTGGTCAATGAACCCCTGGCTGCTTATCTCT  
ATTTTCAGATTGGTGCCATTGATCATTGCGCGCTTTGCTGACTACTTCACGGCCATGGCCAGGAGGG  
CTGGTTCCTCTGCTGTGTGGGGCTGCGACCACAATGGGAGGACCACCATCTACAAGATCTTCAAGAC  
AGCTACGGCCAGGAATGGACATTTGGTCAGCGTCTGTACCAGCAGTACACCTGTTACACCGTGTCTTCA  
TCAGCATCGAGATGTCCAGATCGCTGATGTCTCATCCGCAAGACACGCCGCTCTCCGCTTCCAGCA  
GGGATTCTTCAGGAACAGGATCCTGGTGTGATCGCCATCGTGTTCAGGTCTGCATTGGCTGCTTCTGTGC  
TACTGCCAGGGATGCCAACATCTTCAACTTCATGCCATCCGGTCCAGTGGTGGCTGGTCCCATGC  
CCTTTGGCCTTCTCATCTTTGTCTATGATGAGATCCGAAACTTGGAGTTCGCTGTTGCCAGGGAGCTG  
GTGGGACCAGGAAGTCTACTATAG

AGCGGACCGACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
TGGATTACAAGGATGACGACGATAAGGTTAA

<b>Restriction Sites:</b>	SgfI-RsrII
<b>ACCN:</b>	NM_012509
<b>Insert Size:</b>	3105 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>	<a href="#">NM_012509.1</a> , <a href="#">NP_036641.1</a>

RefSeq Size: 3105 bp

RefSeq ORF: 3105 bp

Locus ID: 24216

Cytogenetics: 1q21

Gene Summary: catalyzes H<sup>+</sup> and K<sup>+</sup> exchange; may play a role in secretion of stomach acids [RGD, Feb 2006]