

## Product datasheet for RN217422

### Atp1a4 (NM\_001271030) Rat Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Atp1a4 (NM\_001271030) Rat Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Atp1a4  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >RN217422 representing NM\_001271030  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGGAGCCTGGAAAAGAGACAGCGGCCACTAGTGAGCAGAAGCCAAGACCCACCCTTAGGGCTTCAAATA  
 CGAATAGACAGCCGAAAGTGAAAAGAAGGAAGAAAGATTTAGAGGAGTTGAAGAAGGAAGTGGTTATGGA  
 CGATCACAAAGCTAACGTTGGATGAGCTGAGTGCCAAAGTACTCTGTGGACTTGACCAAGGGTCTTAGCGTC  
 ACAGATGCCAGGAAATCTGACTCTAAATGGACCGAATGTAATAACCCCTCCTCCAACCACTCCAGAAT  
 GGATCAAATCTGTAAACAATTATTTGGTGGCTTCTCCCTCCTGCTGTGGACTGGTTCCTTGCTGCTGCTT  
 CCTGGCCTATGGCATAACATGATCTTATTACCAAGAAAACGCCAACAAGATAATCTGTACTCTGGTATT  
 GTAATACTGCGGTGGTATCATCACTGGCTGCTTCTCATATTACCAGGAGGCGAAGAGCTCAAAGATCA  
 TGGAGTCTTTAAGACCATGGTGCCTCAGCAAGCTCTGGTAATTCGAGATGGAGAGAAAATGCAGATCAA  
 TGTAAAGAGATGTGGTTTTGGGAGACCTAGTAGAAGTGAAGGGTGGAGACCAAGTCCCTGCTGATATCAGG  
 GTTATCGCTGCGCAAGGATGTAAGGTAGACAATTCCTCCTTGACTGGGGAGTCAGAACCACAGTCTCGTT  
 GCCCTGATTGCACCCATGAGAACCCTCTGGAGACACGGAATATCATCTTCTTCTCCACCAACTGCGTAGA  
 AGGAACAGCCCGGGTGTGTGATTGCTACAGGAGACCACACAGTAATGGCCGGATTGCTTCCCTGACA  
 TCAGGATTGACAATGGGCAAGACCCGATTGCCACTGAAATCGAACACTTCATCCATATAATCACAGCTG  
 TCGCAGTCTTCTCGGTGTACGTTTTTTTTCTCTCACTTATCTTGGGTATACCTGGCTGGATGCTGT  
 CATTTTCTTATTGGCATCATTGTGGCCAAATGTGCCAGAAGGGCTGCTGGCCACTGCACTGTGTGCCTG  
 ACGCTGACAGCCAAGCGCATGGCTCGAAGAATGCCTGGTGAAGAACCTGGAGGCGGTGGAGACGCTGG  
 GCTCCACGTCCACCATCTGCTCGGACAAGACTGGCACCCTCACCCAGAACCAGTGCAGGTGGCTCATCT  
 GTGGTTTGATAAGACTGTGTATGAGGCTGACACCAGCAGGAGCAAACCACGGGGAAAACATTTCCCAAG  
 TCCTCTGACACCTGTTTTACCTGGCTCGAATTGCTGGCCTCTGCAACCGGGCCGACTTTAAGCCTCATC  
 AGGAGTCTTCCATAACTAAGCGGACAACAACAGGGGATGTTCTGAGTCAGCCCTCCTCAAATTCAT  
 TGAGCAGTCTTACAGCCCTGTGAGTGAAATGAGACAGAAAAACCCCAAGGTGGCAGAGATTCCTTTTAAT  
 TCTACCAACAAGTACCAGATGTCTATTCACCTTCTGGAAGATAACTCAGAAGCCACGTGCTGCTGATGA  
 AAGGTGCTCCAGAAAGGATCTTGGATTTTTGCTCCAGTTTCTGCTCAATGGGCAGGAGTACCCTATGGA  
 CGAAGAAATGAAGACAGACTTCCAGAATGCCTACATAGAAGTGGGAGTCTGGGCGAGCGTGTGCTGGG



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TTCTGCTTCTGAATTTGCCTAGCAATTTCTCTAAGGGATTCCAATTTAATACCGAAGAATTAATTTTC
CCATGGAGAATCTGTGTTTCGCCGGCCTCATATCTATGATCGACCCTCCTCGAACGGCTGTGCCTGATGC
TGTTAGCAAGTGCCGAAGTGCAGGGATTAAGGTAATCATGGTAACAGGGGATCATCCCATCACAGCCAAA
GCTATTGCCAAAAGTGTGGGCATCATTTCAGAAGCTAATGAAACGGCGGAGGACATCGTGCTCGGCTTA
ATATCTCCATCAGTCAAGTCAGTAACAAGTCTATTAAGCCATTGTAGTGCACGGCTCAGAGCTGAAGGA
CATGGACTCAGGTCAGCTGGACAATATCCTCAAGTCTACAAGGAGATCGTGTTCGCCGGACCTCTCTCT
CAGCAGAAGCTCATCATCGTGGAGGGCTGTCAGAGACTGGGAGCCATTGTGGCAGTGACTGGTGACGGGG
TGAACGACTCCCCGCGCTGAAGAAGGCTGACATCGGCATTGCCATGGGCATCACTGGCTCTGATGTCTC
TAAGCAGGCGGCTGACATGATCCTTCTCGACGACAACCTTGCCTCCATTGTGACGGGCTGGAGGAGGGT
CGCCTCATCTTTGACAACCTGAAGAAGTCCATCGCCTATACCCTGACCAGCAACATCCCTGAGATCACCC
CCTTCTGCTGTTTCATCGTCTTAAGTATACCCTTGCCTTGGGTACCATTACCATTCTCTGCATTGACCT
GGGTACTGACATGGTCCCTGCTATCTCCTTGGCTTATGAGACACCTGAAAGTGACATCATGAAAAGGCTT
CCACGGAACCCAAAACCTGACAATCTCGTGAACGACCGTCTTATCGGCATGGCCTATGGGCAGATCGGGA
TGATACAGGCGCTGGCTGGATTTTTACCTATTCGTGATCCTGGCGGAGAATGGTTTTAAGCCTCTTGA
TCTTCTGGGTATCCGTCTATACTGGGATGATACAAACCTAAATGACCTAGAGGACACCTATGGGCAGCAG
TGGACCTATGAGCAGCGGAAGGTGGTGGAGTTCATGCCAAACAGCCTTCTTCATCAGCATCGTATCG
TGCAGTGGGCTGACCTCATCATCTGCAAGACGCGCAGAAATTCACTCTTCAAGCAGGGCATGAAAAACAA
AGTCTAATATTTGACTCCTTGAGGAGACGATCCTGGCAGCTTGCCTGTCTACATTCCAGGCATGGAT
GTAGCCCTGAGAAATGTACCCACTCAAGATAAATGGTGGTTCTGCGCACTTCCCTACAGTGTCTCATCT
TCATCTATGATGAAGTTCGAAAACCTCATCATCCGACAGCGCCCGGTGGATGGCTGGAGAAGGAGACGTA
CTACTAA
    
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**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_001271030
<b>Insert Size:</b>	3087 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><a href="#">NM_001271030.1</a></u> , <u><a href="#">NP_001257959.1</a></u>
<b>RefSeq Size:</b>	3491 bp

RefSeq ORF: 3087 bp

Locus ID: 29132

UniProt ID: [Q64541](#)

Cytogenetics: 13q24

**Gene Summary:** alpha subunit isoform of Na<sup>+</sup>, K<sup>(+)</sup>-ATPase, which has sodium/potassium ion exchange activity; may be involved in regulation of intracellular hydrogen ion homeostasis and sperm motility [RGD, Feb 2006]  
Transcript Variant: This variant (2) has an alternate splice site in the 5' UTR, compared to variant 1. Both variants 1 and 2 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.