

Product datasheet for **RN207948**

Atp1a1 (NM_012504) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Atp1a1 (NM_012504) Rat Untagged Clone
Tag: Tag Free
Symbol: Atp1a1
Synonyms: Nkaa1b
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN207948 representing NM_012504
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGGGAAGGGGTTGGACGAGACAAGTATGAGCCCGCAGCTGTATCAGAACATGGGGACAAGAAGAGCA
AGAAGGCGAAGAAGGAAAGGGACATGGACGAACCAAGAAGGAAGTGTCTATGGACGACCATAAACTCAG
CCTGGATGAACCTCATCGTAAATACGGAACAGATTTGAGCCGAGGCCTAACACCCGCAAGGGCCGCTGAG
ATCCTGGCTCGGGATGGCCCAACGCCCTCACGCCCTCCCACTACTCCCGAGTGGGTCAAATTCGTGTC
GGCAGCTGTTCCGGTGGCTTCTCCATGTTACTGTGGATTGGAGCCATTCTTTGTTTCTGGCTTATGGCAT
CCGAAGTGCTACAGAAGAGGAACCACCAATGATGATCTGTACCTCGGGGTCGTGCTGTCTGCTGTGCTGTC
ATCATAACTGGCTGTTTCTCCTATTATCAAGAAGCAAAAAGCTCCAAGATCATGGAATCCTTCAAGAACA
TGGTCCCTCAGCAAGCCCTCGTGATTCGAAATGGAGAGAAGATGAGCATCAACGCAGAGGATGTCGTGCT
TGGTGATCTGGTGGAGGTGAAGGGCGGAGACCGAATCCCTGCTGATCTCAGAATCATATCTGCAAATGGC
TGCAAGGTGGATAACTCCTCACTCACTGGTGAATCAGAACCCAGACTCGGTCCCGGATTTCAAAACG
AGAACCCTTGGAGACAAGGAACATTGCCTTCTCTCAACCAACTGTGTTGAAGGAATGCACGTGGCAT
CGTTGTGTACTGTTGGGATCGCACCGTGTGGCAGGATCGCCACCCTTGCTTCTGGGCTGGAAGGCGGC
CAGACCCCATTTGCTGAAGAAATCGAGCACTTCATCCACCTCATCACGGGTGTGGCCGTGTTCTGGGGG
TGTCTTCTTCTCCTCTCTGATCCTTGAGTACACCTGGCTCGAGGCTGTGATCTTCTCATTGGTAT
CATCGTAGCCAACGTGCCGAAGGTTTGTGGCCACCCTCACGGTATGTCTGACGCTCACTGCCAAGCGC
ATGGCGAGGAAGAAGTGCCTGGTGAAGAACCTGGAAGCTGTGGAGACCTGGGGTCCACATCCACCATCT
GCTCCGACAAGACTGGAACCTGACTCAGAACCGGATGACAGTGGCTCACATGTGGTTTGACAATCAAAT
CCATGAAGCTGACACCACAGAGAATCAGAGTGGGGTCTCCTTTGACAAGACGTGACCCACCTGGTTCGCT
CTGTCCAGAATTGCTGGTCTCTGTAACAGGGCAGTGTTCAGGCTAACCAAGAAAACCTGCCTATCCTTA
AGCGTGACAGTAGCGGGAGATGCTCCGAGTCGGCGCTCTTAAAGTGCATCGAGGTCTGCTGTGGCTCCGT
GATGGAGATGAGGGAGAAGTACACCAAGATAGTGGAGATTCTTTCAACTCCACCAACAAGTACCAGCTC
TCCATTACAAGAACCAACGCATCGGAGCCTAAGCACCTGCTAGTGATGAAGGGCGCCCAAGAAAGGA



TCCTGGACCGATGCAGTTCTATCCTCCTCCACGGCAAGGAGCAGCCCCTGGACGAAGAGCTGAAGGACGC
 CTTTCAGAATGCCTACCTAGAGCTGGGGGGCTTGGAGAGCGTGTGCTAGGTTTCTGCCACCTCCTTCTG
 CCTGACGAACAGTTTTCCCGAAGGCTTCCAGTTTGACACTGATGAAGTCAATTTCCCGTGGATAACCTCT
 GCTTCGTGGGTCTTATCTCCATGATTGACCCTCCTCGAGCTGCTGTCCCGATGCTGTGGGCAAATGCCG
 CAGCGCTGGGATTAAGGTATCATGGTACAGGAGACCATCCAATCACAGCCAAAGCCATTGCTAAGGGG
 GTGGGCATTATCTCAGAAGGTAACGAGACCGTGGAAAGACATTGCTGCCCGCTCAACATTCAGTGAACC
 AGGTGAACCCAGAGATGCCAAGGCTGTGTAGTACATGGCAGTACTTGAAGGACATGACCTCTGAGGA
 GCTGGATGACATTTTGGGTACACACGGAGATTGTCTTTGCTAGGACCTCTCCTCAACAGAAGCTCATC
 ATTGTGGAGGGCTGCCAGCGGCAGGGTGCATCGTGGCTGTACAGGGGATGGTGTCAATGACTCTCCAG
 CTTTAAAAAGGCAGATATTGGGGTTGCCATGGGGATTGTTGGCTCGGATGTGTCCAAGCAAGCTGCTGA
 CATGATTCTTCTGGATGACAACCTTGCCTCCATCGTACTGGAGTAGAAGAAGGTCGTCTGATATTTGAT
 AACTTGAAGAAATCCATTGCTTACACCCTAACAAAGTAACATTCCGGAAATCACCCCTTCTTGATATTTA
 TTATTGCAACATTCCACTGCCCTGGGCACCGTGACCATCCTCTGCATTGACTTGGGCACTGACATGGT
 TCCCGCCATCTCTGGCCTATGAACAGGCTGAAAGTGACATCATGAAGAGGCAGCCAGAAATCCCAA
 ACGGACAAACTTGTGAACGAGCGTCTGATCAGCATGGCCTATGGACAGATCGGTATGATCCAGGCCCTGG
 GAGGCTTCTTCACTATTTTGTGATTCTGGCTGAGAACGGTTTCTGCCCTTTCACCTGTTGGGCATCCG
 AGAGACCTGGGATGACCCTGGATCAATGATGTGGAGGACAGCTACGGGCAGCAGTGGACCTACGAGCAG
 AGGAAGATTGTGGAGTTCACCTGCCACACGGCCTTCTTTGTCAGTATCGTGGTAGTGCAGTGGGCTGACT
 TGGTCACTGCAAGACCAGAAGGAATTCTGTCTCCAGCAGGGAATGAAGAACAAGATCTTAATATTTGG
 CCTCTTTGAAGAGACAGCTCTTGTCTTCTGTCTTCTGCTTCCACTGCCCTGGGATGGGTGCAGCCCTTAGGATG
 TATCCCTCAAACCTACTTGGTGGTCTGTGCCTCCCTACTCCCTTCTCATCTTCGTGTATGACGAGG
 TGCGGAAGCTCATCATCAGGCGACGCCCTGGCGGCTGGGTGGAGAAGGAAACCTACTACTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_012504
- Insert Size:** 3072 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:**
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:** [NM_012504.1](#), [NP_036636.1](#)
- RefSeq Size:** 3636 bp
- RefSeq ORF:** 3072 bp

Locus ID: 24211
UniProt ID: [P06685](#)
Cytogenetics: 2q34
Gene Summary: mediates Na⁺ and K⁺ transport; may play a role in regulation of blood pressure [RGD, Feb 2006]