

Product datasheet for **RN210998**

Atp1a2 (NM_012505) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Atp1a2 (NM_012505) Rat Untagged Clone
Tag: Tag Free
Symbol: Atp1a2
Synonyms: RATATPA2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN210998 representing NM_012505
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGGTCGTGGGGCAGGGCGTGAGTACTCGCTGCCGCCACCACTGCGGAGAATGGGGTGGCAAGAAGA
AACAGAAAAGAGAAGGAGCTCGATGAGCTGAAGAAGGAGGTTGCCATGGATGACCACAAGCTGTCTTGG
TGAGCTGGGCCGAAAATACCAAGTGGATCTGTCCAAGGGCCTACCAACCAGCGAGCTCAGGATATTCTG
GCTAGAGACGGACCCAACGCCCTCACTCCACCCCTACAACCTCCTGAGTGGGTCAAGTCTGCCGTGAGC
TTTTTGGGGGCTTCTCTATCCTGCTGTGGATTGGGGCGCTTCTCTGCTTCTTAGCCTATGGTATCCTGGC
CGCCATGGAGGACGAACCATCCAATGACAATTTATATCTAGGTATCGTGCTAGCAGCTGTAGTTATCGTC
ACTGGCTGCTTCTCTACTACCAGGAAGCCAAAAGCTCCAAGATTATGGACTCCTTCAAGAACATGGTGC
CTCAGCAAGCTCTGGTCATCCGAGAGGGAGAGAAGATGCAGATCAATGCAGAGGAGGTGGTCTGGGAGA
CCTGGTGAAGTGAAGGGTGGAGACCGTGTCCCGCTGACCTCCGGATCATCTCTCCACGGTTGCAAG
GTGGATAACTCATCCCTGACAGGGGAGTCGGAGCCCCAGACCCGGTCCCCTGAGTTCACCCATGAGAATC
CCTTGGAGACCCGCAATATCTGTTTCTTCTCTACCAACTGTGTGAAGGCACTGCCAGGGCATTGTGAT
CGCCACAGGTGACCGGACGGTGTGGGCCGCATAGCCACTCTTGCTCTGGCCTAGAGGTGGGACAGACG
CCGATAGCCATGGAGATCGAGCATTTTCATCCAGCTGATCACGGGGTGGCCGTGTTCTGGGGTCTCCT
TCTTTGTTCTGTGCTCATCCTGGGCTACAGCTGGCTGGAGGCTGTATCTTCTCATCGGCATCATCGT
AGCCAACGTCCCCGAAGGGCTCTTGGCCACTGTTACTGTGTGCTGACGCTGACAGCCAAGCGCATGGCT
CGCAAGAAGTGCCTGGTGAAGAACCTGGAGGGTGGAGACGCTGGGCTCCACGTCCACCATCTGCTCGG
ACAAGACAGGCACCCCTACCCAGAACCGCATGACGGTGGCTCACATGTGGTTTGACAACCAGATCCATGA
GGCTGACACCACTGAAGATCAGTCTGGGCCACTTTTGACAAGCGGTCCCCGACGTGGACAGCCCTGTCT
CGGATCGCTGGTCTCTGCAATCGTGCCGTCTTCAAGGCTGGCAGGAGAACATCTCCGTGTCTAAGCGGG
ACACAGCTGGTACGCCCTCTGAGTCAGCTCTGCTCAAGTGCATCGAGTTGCTGTGGCTCAGTGAGGAA
GATGAGGGACAGGAATCCAAGGTGGCAGAAATCCCTTCAACTCTACCAACAAATATCAGCTTCCATC
CATGAGAGGGAAGACAGCCCCAGGCCATGTGCTGGTGTGAAAGGTGCCCGGAGCGCATCCTGGACC



GATGCTCTACCATCCTGGTACAGGGCAAGGAGATCCCTCTTGACAAGGAGATGCAAGATGCCTTTCAAAA
 CGCCTACATGGAGCTGGGAGGACTCGGGGAGCGAGTGTGGGCTTCTGTCAGCTGAACCTGCCTTCTGGA
 AAGTTTCTCGGGGCTTCAAATTTGACACGGATGAGCTGAACTTTCCACAGAGAAGCTCTGCTTTGTGG
 GGCTCATGTCTATGATTGATCCCCCAGAGCAGCTGTGCCAGATGCTGTGGGCAAGTGCAGAAGTGCAGG
 CATCAAGTGATCATGGTACTGGGATCACCCATCACAGCCAAGGCCATTGCCAAAGGTGTGGGCATC
 ATATCAGAGGGTAACGAGACTGTGGAAGACATTGCAGCCAGGCTCAACATTCTGTGAGTCAAGTCAATC
 CCAGAGAAGCCAAGGCATGTGTAGTGCACGGCTCAGACCTGAAGGACATGACTTCAGAGCAGCTGGATGA
 GATCCTCAGGGACCACAGGAGATCGTGTGGCCCGGACCTCCCTCAGCAGAAGCTCATATTGTGGAG
 GGCTGTACAGAGGCAAGGACCATCGTGGCAGTACTGGTACGGGGTGAACGACTCCCCCGCGCTGAAGA
 AGGCTGACATTGGCATTGCCATGGGCATCTCTGGCTCTGATGTCTCTAAGCAGGCAGCTGACATGATCCT
 TCTCGACGACAACCTTTCCTCCATTGTGACGGGCGTGGAGGAGGGGCGCCTGATCTTTGACAACCTGAAG
 AAGTCCATCGCGTACACCCTGACCAGCAACATCCCTGAGATCACCCCTTCTGCTGTTCATCATTGCCA
 ACATCCCCCTTCCCTGGGCACCGTGACCATCCTGTGCATCGACCTGGGCACAGACATGGTTCTGCCAT
 CTCATTAGCATACGAAGCGGCTGAGAGCGACATCATGAAGAGGCAGCCACGGAATCCCAGACGGACAAG
 CTGGTGAACGAGAGGCTTATCAGCATGGCTTACGGACAGATCGGCATGATCCAGGCTCTGGGCGGCTTCT
 TCACCTACTTTGTAATACTGGCAGAGAACGGCTTCTGCCATCGAGGCTGCTTGGGATCCGCCTTACTG
 GGATGATCGGACTACCAACGACCTGGAGGACAGCTATGGACAAGAGTGGACCTATGAGCAGCGGAAGGTG
 GTGGAGTTCACATGCCACACGGCCTTCTTTGCCAGCATCGTGGTGTGACAGTGGGCTGACCTCATCATT
 GCAAGACCCGGCGCAACTCGGTGTTCCAGCAGGGCATGAAGAACAAGATCCTGATTTTTGGGCTGCTAGA
 AGAGACGGCTCTGGCTGCCTTCTGTCTTACTGCCGGGTATGGGGTGGCCCTCCGAATGTACCCACTC
 AAGGTCACGTGGTGGTCTGTGCCTTCCCTACAGTCTCCTCATCTTATCTATGATGAAGTCCGAAAGC
 TCATCTGCGGCGGTACCCTGGGGCTGGGTGGAGAAGGAGACGTACTACTGA

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_012505
- Insert Size:** 3063 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_012505.2](#), [NP_036637.1](#)
- RefSeq Size:** 5149 bp
- RefSeq ORF:** 3063 bp

Locus ID: 24212
UniProt ID: [P06686](#)
Cytogenetics: 13q24
Gene Summary: catalytic subunit of the membrane ATPase; involved in ATP dependent transport of Na⁺ and K⁺; necessary for creating and maintaining electrochemical gradient across plasma membrane [RGD, Feb 2006]