

## Product datasheet for RN207345

### Atp2a1 (NM\_058213) Rat Untagged Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: Atp2a1 (NM\_058213) Rat Untagged Clone  
 Tag: Tag Free  
 Symbol: Atp2a1  
 Synonyms: Serca1  
 Vector: pCMV6-Entry (PS100001)  
 E. coli Selection: Kanamycin (25 ug/mL)  
 Cell Selection: Neomycin  
 Fully Sequenced ORF: >RN207345 representing NM\_058213  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGGCCGCACACTCCAAGTCCACAGAGGAATGTTTGTCTATTTGGGGTGAAGGAGACCACAGGCC  
 TTACCCAGACCAAGTTAAGCGGCATCTGAAAAATACGGCCCAATGAGCTCCCTGCTGAGGAAGGCAA  
 GTCTCTGTGGGAGTTGGTGGTAGAGCAGTTCGAAGACCTGCTGGTGCGGATTCTCCTCTGGCTGCCTGC  
 ATTTCTTTGTGCTGGCCTGGTTTGAGGAAGGTGAGGAACTGCTACTGCCTTTGTGAGCCTTTTGTC  
 TTCTCTTGATCCTCATTGCCAACGCCATTGTGGGGTTTGGCAGGAACGGAATGCAGAGAATGCCATCGA  
 GGCGCTGAAGGAATGAACCCGAGATGGGGAAGGTCTATCGGGCTGACCGAAAGTCAGTGCAAAGGATC  
 AAGGCTCGGGACATCGTCCCTGGGGACATTGTGGAGGTGGCTGTTGGGGACAAAGTCCCTGCAGACATCC  
 GAATCCTCTCCATCAAATCCACCACCCTCCGGGTGACACAGTCCATCCTGACAGGAGAGTCTGTATCTGT  
 CATCAAGCACACAGACCCTGTCCCTGATCCCGAGCTGTCAACCAGGACAAGAAGAATGCTCTTCTCG  
 GGTACCAACATTGCAGCCGGCAAGGCCGTAGGCATCGTGGCCACCACTGGTGTGAGTACTGAGATTGGCA  
 AGATCCGAGACCAATGGCTGCCACTGAGCAGGACAAGACCCCGCTTCAGCAGAAGCTTGATGAGTTTGG  
 GGAACAGCTGTCCAAGTCATCTCTCATCTGTGTGGCTGTCTGGCTTATCAACATTGGTCACTTCAAC  
 GACCCTGTCCATGGGGCTCCTGGTTCGGGGGCCATTTACTACTTCAAGATTGCTGTAGCCTTGCTG  
 TGGCAGCCATCCCAGAAGGGCTTCTGCTGTCATCACCACTGCTTGGCCTTGGGTACCCGCCGGATGGC  
 AAAGAAGAAGCCATCGTGAGGAGTTTGCCTCTGTGGAGACCCTGGGCTGTACCTCTGTCTGTTCT  
 GACAAAACAGGGACCCTCACCACCAACCAGATGTCAGTTTGAAGATGTTTCATCATTGACAAAGTGGATG  
 GGGATATCTGCTCACTGAACGAGTTCTCCATCACTGGCTCTACTATGCTCCTGAGGGAGAAGTTTTGAA  
 GAATGATAAGCCAGTCCGAGCAGGCAGTATGACGGGCTGGTGGAACTTGCTACCATCTGTGCCCTCTGC  
 AATGACTCCTCCTGGACTTTAATGAGACCAAAGGTGTCTATGAGAAGGTGGGCGAGGCCACCGAGACAG  
 CCTCACCACCTTGGTGGAGAAGATGAATGTGTTCAACACGGAAGTGAGAAGCCTCTCAAAGTGGAGCG  
 GGCTAATGCCTGCAACTCGGTGATCCGCCAACTAATGAAGAAGGAATTCACCCTGGAATTTCCCGAGAC  
 AGGAAGTCTATGTCTGTCTACTGCTCCCGACCAAGTCTTACGGGCTGTGTAGGCAACAAGATGTTTG



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TCAAGGGTGCCCTGAGGGCGTCATTGACCCTGTAACATGTGCGTGTTGGCACAACCCGTGTGCCACT  
 GACAGGCCCTGTGAAGGAGAAGATCATGTCCGGTATCAAGGAGTGGGGTACTGGTCGGGATACCCCTACGG  
 TGCTGGCACTGGCCACCCGGGACACACCCCAACGGGAGGAAATGGTTCTGGATGACTCAGCCAAGT  
 TCATGGAGTATGAGATGGACCTGACGTTTGTGGTGTGGTGGGCATGTTGGATCCACCCCGTAAGGAGGT  
 CACAGGCTCTATCCAGCTGTGTCGTGATGCCGGATCCGAGTGATCATGATCACTGGGGACAACAAGGGT  
 ACCGCCATCGCCATCTGCCGACGAATTGGCATCTTTTCGGAGAATGAGGAAGTGGCAGACCGCTGCTTCGC  
 TCGTGTGGAGCCCTCACATAAGTCCAAGATTGTGGAGTACCTGCAGTCCTATGATGAGATCACAGCCATG  
 ACAGGGGATGGTGTCAATGATGCCCTGCTCTGAAGAAGCGGAGATTGGCATTGCCATGGGATCTGGTA  
 CTGCTGTGGCTAAGACTGCCTCCGAGATGGTACTGGCTGATGATAACTTCTCCACCATTGTGGCTGCCGT  
 GGAGGAAGGCCGTGCCATCTACAACAACATGAAGCAGTTCATCCGCTACCTCATTTCCTCAATGTGGGC  
 GAGGTGGTCTGTATCTTGTGACAGCAGCCTTGGGGCTGCCTGAGGCCTTGATCCCTGTGCAGCTGCTAT  
 GGGTGAACCTGGTACTGATGGCTCCCTGCTACTGCCCTGGGGTTCAACCCACCTGACCTGGACATCAT  
 GGACCGTCCCCCAGGAGTCCCAAGGAGCCTTATCAGTGGCTGGCTCTTTTCCGCTACATGGCAATT  
 GGGGGCTACGTGGGTGCACCCACTGTGGGAGCAGCTGCCTGGTGGTTCTGTATGCAGAGGATGGGCCTC  
 ATGTCAGTACCATCAACTGACTCATTTTCATGCAGTGCAGTGCAGATAAACCTGAATTTGATGGCCTGGA  
 CTGCGAGGTCTTTGAAGCCCCGAGCCCATGACCATGGCCTTGTCTGTGTTGGTACCATCGAGATGTGC  
 AACGCCCTCAACAGCCTGTCTGAGAACCAGTCCCTACTGCCGATGCCGCCCTGGGTGAACATCTGGCTTC  
 TCGGTTCCATCTGCCTGTCCATGTCCCTCCACTCCTCATCCTCTATGTTGACCCCTGCCGATGATCTT  
 CAAGCTCCGGGCCCTGGACTTTACCCAGTGGCTCATGGTCTCAAGATCTCACTTCCAGTCATCGGGCTA  
 GATGAGCTTCTCAAGTTCATTGCTCGGAATCTCTGGAGGGATAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_058213
- Insert Size:** 2985 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\\_058213.1](#), [NP\\_478120.1](#)
- RefSeq Size:** 3457 bp
- RefSeq ORF:** 2985 bp
- Locus ID:** 116601

UniProt ID: [Q64578](#)

Cytogenetics: 1q36

Gene Summary: catalyzes ATP hydrolysis and calcium ion transport [RGD, Feb 2006]