

Product datasheet for **RN206015**

Atp2a3 (NM_012914) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Atp2a3 (NM_012914) Rat Untagged Clone
Tag: Tag Free
Symbol: Atp2a3
Synonyms: SERCA3
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN206015 representing NM_012914
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGAGGAGGCGCACCTGCTCTCGGCTGCCGACGTGCTGCGTCGTTCTCGGTGACAGCCGAGGGCGCT
TGACCCCTGGAGCAGGTGACCGACGCCGGGAGCGATACGGCCCCAACGAACCTCCCTACTGAGGAAGGGAA
ATCCCTGTGGGAGCTGGTGGTGGAGCAGTTTGGAGACCTTTGGTGCGCATCCTGCTGCTGCCAGCCCTG
GTTTCCTTTGTCCTGGCCTGGTTTGGAGAGGGTGGAGAGACCACGACGGCCTTCGTGGAGCCCTCGTCA
TCATGTTAATCCTTGTGGCCAATGCGATCGTGGGAGTGTGGCAGGAACGCAATGCTGAGAGTGCCATTGA
GGCCTTGAAGGAGTATGAGCCTGAGATGGGTAAGGTGATCCGCTCTGACCGCAAGGGTGTGCAGAGGATC
CGAGCCAGGGACATCGTCCCTGGGGACATTGTGGAAGTGGCAGTGGGAGACAAGGTACCTGCTGACCTCC
GCCTCATCGAGATCAAGTCCACCACACTTCGAGTGGACCAGTCCATCCTGACAGGGGAATCCGTGTCTGT
GACTAAGCACACAGATGCCATTCAGACCCCGAGCCGTGAACCAGGACAAGAAGCATGCTGTTTTCT
GGCACCAATATTGCATCAGGCAAAGCCCTGGGTGTGGCTGTGGCCACAGGCTTGCACACAGAGCTGGGCA
AGATTCGGAGCCAGATGGCGGCTGTGGAGCCTGAGCGGACGCCACTGCAGCGCAAGCTGGATGAATTTGG
GAGGCAGCTGTCCATGCCATCTGTGATCTGTGTGGCTGTGTGGGTCAACAACATCGGACACTTTGCT
GACCCGGCCCATGGTGGATCCTGGCTCCGTGGGCACTACTACTTCAAGATTGCTGTGGCCCTGGCTG
TGGCTGTATCCCCGAGGGCCTCCAGCAGTCACTACTACATGCCTAGCACTGGGACAAGAGCTATGGC
ACGTAAGAACGCCATTGTGCGGAGCCTGCCCTCTGTGGAGACCCTGGGCTGCACCTCAGTCATCTGCTCT
GACAAGACAGGGACACTCACCACCAATCAAATGTCTGTCTGCAGGATGTTCTGTGGTAGTGAAGCAGAGG
CAGGCGCCTGTGCTTTACACGAATTCACATTTCCGGTACCACGTATACCCAGAGGGCGAAGTGAAGCA
AGGGGAACAGCTTGTGCGCTGTGGGAGTTTGTGGACTTGTGGAGCTCGCAACCATCTGTGCACCTGTC
AATGATTCTGCACTGGACTACAATGAGGCCAAGGGTGTGTATGAGAAGGTAGGAGAGGCCACAGAGACAG
CCCTCACTTGCTGGTAGAGAAGATGAACGTGTTTACACAGACCTGAAAGGACTGTCCGGGTCCGAGCG
CGCTGGTGCCTGCAATTCGTCATCAAGCAACTCATGCAGAAGGAGTTACCCCTCGAATTCCTCCGGGAC
CGGAAGTCCATGTCTGTGTACTGCACACCCACTCGTGCTGACCCCAAGGCCAGGGCAGCAAGATGTTTTG



TGAAGGGAGCTCCTGAGAGTGAATTGAGCGCTGCAGCTCAGTCCGCGTGGGAAGCCGAACAGTACCCCT
 AAGCGCCACCTCCAGAGAGCATATCCTGGCCAAGATCCGAGACTGGGCTCAGGCTCTACATATTGCGC
 TGCTTAGCACTGGCCACCAGGGACACACCCCAAGGAAGGAGGACATGCAACTGGATGACTGCAGTCAGT
 TTGTACAGTACGAGACAGGCCTGACCTTCGTGGGCTGCGTGGGCATGTTAGACCCACCGAGACCAGAGGT
 GGCTGCCTGTATCACACGCTGTTCTCGGGCGGGCATTGAGTGGTCATGATCACAGGGGACAACAAAGGG
 ACAGCTGTGGCCATCTGCCGCCGACTTGGCATCTTTGGGATACGGAGGATGTGTGGGCAAGGCTTACA
 CGGGCCGAGAATTGATGACCTCAGCCAGAGCAGCAGCCAGGCTTGCCGTACCGCCGATGCTTTGC
 CCGTGTGGAACCCGCACATAAGTCTCGCATCGTGGAGAACCTCCAGTCTTTAATGAGATCACCGCCATG
 ACTGGCGATGGGGTGAATGATGCACCAGCCCTGAAGAAGGCAGAGATCGGCATCGCCATGGGCTCAGGCA
 CTGCTGTGGCCAAGTCGGCAGCGGAGATGGTTCTGTCTGATGACAACCTTGCCTCCATTGTGGTGCAGT
 GGAGGAGGGCAGGGCCATCTACAACAACATGAAGCAATTCATCCGCTACCTCATCTCCTCAATGTTGGC
 GAGTTGTCTGCATCTTCTCACAGCAATTCTGGGCTGCCGAAGCCCTGATCCCTGTGCAGTGTCTCT
 GGGTGAACCTGGTAACAGATGGTTACCTGCCACAGCCCTGGCTCAACCCACCCGATCTGGACATCAT
 GGGAAAGTGCCTCGGAACCCCGGGAGGCTCTCATCAGCGGCTGGCTTTTTTCCGCTATTTGGCTATT
 GGAGTGTACGTAGGCCTGGCTACAGTGGCTGCCGCCACCTGGTGGTTCCGTATGACGCTGAGGGACCAC
 AAGTCACCTTCCATCAGCTGAGGAACCTTCTGAAGTGTCTGAAGACAATCCACTGTTTGC CGGCATCGA
 CTGCGAGGTCTTTGAGTACGCTTCCCCACGACCATGGCCTTATCTGTGCTTGTGACCATTGAAATGTGC
 AACGCCCTAACAGCGTCTCAGAGAACCAGTCACTGCTGCGTATGCCACCTGGCTGAACCTTGGCTGC
 TGGGGGCTGTGGTCATGTCCATGGCCCTGCATTTTCTCATCCTTTTGGTGCCGCTCTGCCCTCATTTT
 CCAGGTGACCCCACTGAGTGGTCGACAGTGGGGGGTGGTCTTCAGATGTCTCTGCTGTATCTCTGCT
 GACGAGGCCCTCAAGTATCTGTCCAGGCATCACGTGGATGAAAAAAGGACCTGAAGTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_012914
- Insert Size:** 3000 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_012914.1](#), [NP_037046.1](#)
- RefSeq Size:** 4472 bp
- RefSeq ORF:** 3000 bp
- Locus ID:** 25391

UniProt ID: [P18596](#)

Cytogenetics: 10q24

Gene Summary: pumps Ca⁺² into the endoplasmic reticulum; plays a role in cellular Ca⁺² signaling [RGD, Feb 2006]