

## Product datasheet for **MC205352**

### Atp2a3 (NM\_016745) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Atp2a3 (NM\_016745) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Atp2a3  
**Synonyms:** Serca3; SERCA3b  
**Mammalian Cell Selection:** Neomycin  
**Vector:** PCMV6-Kan/Neo (PCMV6KN)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Fully Sequenced ORF:** >BC017639

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GGCTCCCGAGGGGCCCGCCCGCCCAAGCTCGCAGCACTCCACACAGTAGCCTTGAGGAGAAGCGACC
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GGACATGCATCTAGATGACTGCAGCCGGTTGTACAGTACGAGACAGACCTGACCTTCGTGGGCTGCGTG
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AAATAAAGGTGTGTCTGAGGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
    
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- Restriction Sites:** RsrII-NotI
- ACCN:** NM\_016745
- Insert Size:** 3117 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:** [BC017639](#), [AAH17639](#)

**RefSeq Size:** 4537 bp

**RefSeq ORF:** 3117 bp

**Locus ID:** 53313

**UniProt ID:** [Q64518](#)

**Cytogenetics:** 11 B4

**Gene Summary:** This magnesium-dependent enzyme catalyzes the hydrolysis of ATP coupled with the transport of calcium. Transports calcium ions from the cytosol into the sarcoplasmic/endoplasmic reticulum lumen. Contributes to calcium sequestration involved in muscular excitation/contraction.[UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (2) includes an additional exon in the 3' coding region resulting in a frameshift, compared to variant 1. Variant 2 encodes isoform b, which is longer and has a distinct C-terminus compared to isoform a.