

## Product datasheet for **RR200368**

### Atp2a2 (NM\_001110823) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Atp2a2 (NM_001110823) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Atp2a2
Synonyms:	Serca2; Sercall
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR200368 representing NM_001110823 Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**GCGATCGCC**

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TTCTGCTTATATTGGTAGCCAATGCAATTGTGGGTGTATGGCAGGAGAGAAACGCTGAAAATGCAATAGA  
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CATCAAGCATACTGACCCTGTCCCTGACCCACGAGCTGTTAATCAAGACAAAAGAACATGCTCTTTTCT  
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AGGGTGCTCCAGAAGGTGTCATCGACAGGTGCACCCACATCCGAGTTGGAAGTACCAAGGTCCCCATGAC
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**Protein Sequence:**

>RR200368 representing NM\_001110823  
 Red=Cloning site Green=Tags(s)

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MENAHTKTVEEVLGHFGVNESTGLSLEQVKKLKERWGSNELPAEEGKTLLLELVIEQFEDLLVRILLAAC
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KAKDIVPGDIVEIAVGDKVPADIRLTSIKSTTLRVDQSILTGESVSVIKHTDPVDPRAVNQDKKNMLFS
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DPVHGGSWIRGAIYYFKIAVALAVAAIPEGLPAVITTCALGTRMAKKNAIVRSLPSVETLGCTSVICS
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ALNSLSENQSLLRMPWENIWL VGSICLSMSLHFLILYVEPLPLIFQITPLNLTQWLMVLKISLPVILMD
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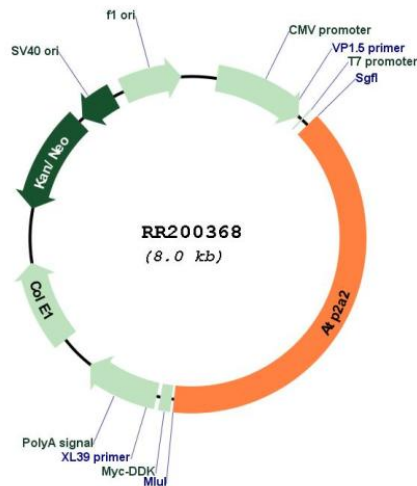
**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM\_001110823

ORF Size:

3129 bp

OTI Disclaimer:

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001110823.2</a></u> , <u><a href="#">NP_001104293.1</a></u>
<b>RefSeq Size:</b>	4471 bp
<b>RefSeq ORF:</b>	3132 bp
<b>Locus ID:</b>	29693
<b>UniProt ID:</b>	<u><a href="#">P11507</a></u>
<b>Cytogenetics:</b>	12q16
<b>MW:</b>	114.8 kDa
<b>Gene Summary:</b>	sarco(endo)plasmic reticulum Ca(2+) ATPase; involved in calcium transport and cycling in the heart and in calcium sequestering in enamel forming cells [RGD, Feb 2006]