

## Product datasheet for MR211503L4

## Atp2a3 (NM\_016745) Mouse Tagged Lenti ORF Clone

## **Product data:**

**Product Type:** Expression Plasmids

**Product Name:** Atp2a3 (NM\_016745) Mouse Tagged Lenti ORF Clone

Tag: mGFP Symbol: Atp2a3

Synonyms: Serca3; SERCA3b

Mammalian Cell Puromycin

Selection:

**Vector:** pLenti-C-mGFP-P2A-Puro (PS100093)

E. coli Selection: Chloramphenicol (34 ug/mL)

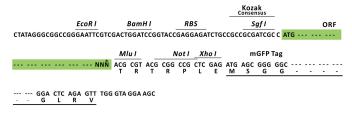
ORF Nucleotide The ORF insert of this clone is exactly the same as(MR211503).

Sequence:

Restriction Sites: Sgfl-Mlul

**Cloning Scheme:** 





<sup>\*</sup> The last codon before the Stop codon of the ORF

**ACCN:** NM\_016745

ORF Size: 3114 bp



**OriGene Technologies, Inc.** 9620 Medical Center Drive, Ste 200

CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com



## Atp2a3 (NM\_016745) Mouse Tagged Lenti ORF Clone - MR211503L4

**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

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

**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: <u>NM 016745.3</u>, <u>NP 058025.2</u>

 RefSeq Size:
 4593 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]