

Product datasheet for RC216526L4

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ATP2A1 (NM 004320) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: ATP2A1 (NM_004320) Human Tagged Lenti ORF Clone

Tag: mGFP

Symbol: ATP2A1

Synonyms: ATP2A; SERCA1

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(RC216526).

Sgfl-Mlul

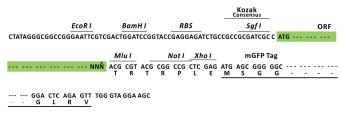
Sequence:

Restriction Sites: Cloning Scheme:

Cloning sites used for ORF Shuttling:

Sgf 1 ORF Mlu I

GGG ATC GC ATG ---//--- NNN ACG CGT ---

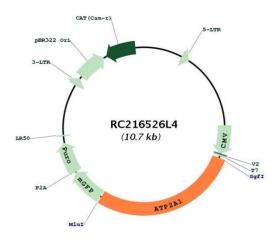


^{*} The last codon before the Stop codon of the ORF.





Plasmid Map:



ACCN: NM_004320 **ORF Size:** 2982 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

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 004320.4</u>

RefSeq Size: 3570 bp RefSeq ORF: 2985 bp



ATP2A1 (NM_004320) Human Tagged Lenti ORF Clone - RC216526L4

Locus ID: 487

UniProt ID: <u>O14983</u>

Cytogenetics: 16p11.2

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Alzheimer's disease, Calcium signaling pathway

MW: 109.3 kDa

Gene Summary: This gene encodes one of the SERCA Ca(2+)-ATPases, which are intracellular pumps located in

the sarcoplasmic or endoplasmic reticula of muscle cells. This enzyme catalyzes the hydrolysis

of ATP coupled with the translocation of calcium from the cytosol to the sarcoplasmic reticulum lumen, and is involved in muscular excitation and contraction. Mutations in this gene cause some autosomal recessive forms of Brody disease, characterized by increasing impairment of muscular relaxation during exercise. Alternative splicing results in three

transcript variants encoding different isoforms. [provided by RefSeq, Oct 2013]