

#### OriGene Technologies, Inc.

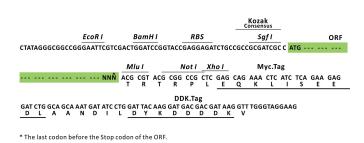
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# Product datasheet for RC207626L3

# SERCA2 (ATP2A2) (NM\_170665) Human Tagged Lenti ORF Clone

### **Product data:**

Product Type:	Expression Plasmids
Product Name:	SERCA2 (ATP2A2) (NM_170665) Human Tagged Lenti ORF Clone
Tag:	Myc-DDK
Symbol:	SERCA2
Synonyms:	ATP2B; DAR; DD; SERCA2
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC207626).
<b>Restriction Sites:</b>	Sgfl-Mlul
Cloning Scheme:	
	Cloning sites used for ORF Shuttling:
	Sgf1ORFMlu1



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

ACCN: ORF Size: NM\_170665 3126 bp



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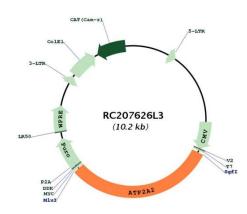
	CA2 (ATP2A2) (NM_170665) Human Tagged Lenti ORF Clone – RC207626L3
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <u>custsupport@origene.com</u> or by calling 301.340.3188 option 3 for pricing and delivery.
	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. <u>More info</u>
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 Metho	<ul> <li>d: 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> </ul>
RefSeq:	<u>NM 170665.2</u>
RefSeq Size:	8329 bp
RefSeq ORF:	3129 bp
Locus ID:	488
UniProt ID:	<u>P16615</u>
Cytogenetics:	12q24.11
Domains:	E1-E2_ATPase, Cation_ATPase_N, Hydrolase, Cation_ATPase_C
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Alzheimer's disease, Arrhythmogenic right ventricular cardiomyopathy (ARVC), Calcium signaling pathway, Cardiac muscle contraction, Dilated cardiomyopathy, Hypertrophic cardiomyopathy (HCM)
MW:	114.8 kDa

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#### SERCA2 (ATP2A2) (NM\_170665) Human Tagged Lenti ORF Clone – RC207626L3

Gene Summary:This gene encodes one of the SERCA Ca(2+)-ATPases, which are intracellular pumps located in<br/>the sarcoplasmic or endoplasmic reticula of the skeletal muscle. This enzyme catalyzes the<br/>hydrolysis of ATP coupled with the translocation of calcium from the cytosol into the<br/>sarcoplasmic reticulum lumen, and is involved in regulation of the contraction/relaxation<br/>cycle. Mutations in this gene cause Darier-White disease, also known as keratosis follicularis,<br/>an autosomal dominant skin disorder characterized by loss of adhesion between epidermal<br/>cells and abnormal keratinization. Other types of mutations in this gene have been associated<br/>with various forms of muscular dystrophies. Alternative splicing results in multiple transcript<br/>variants encoding different isoforms. [provided by RefSeq, Dec 2019]

# **Product images:**



Circular map for RC207626L3

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