

# Product datasheet for RC200921L2

### OriGene Technologies, Inc.

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## CBARA1 (MICU1) (NM\_006077) Human Tagged Lenti ORF Clone

#### **Product data:**

**Product Type:** Expression Plasmids

Product Name: CBARA1 (MICU1) (NM\_006077) Human Tagged Lenti ORF Clone

Tag: mGFP Symbol: CBARA1

Synonyms: ara CALC; CALC; CBARA1; EFHA3; MPXPS

Mammalian Cell None

Selection:

**Vector:** pLenti-C-mGFP (PS100071)

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

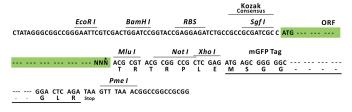
ORF Nucleotide The ORF insert of this clone is exactly the same as(RC200921).

Sequence:

**Restriction Sites:** Sgfl-Mlul

**Cloning Scheme:** 



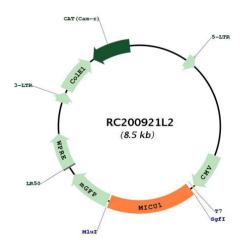


<sup>\*</sup> The last codon before the Stop codon of the ORF.





#### Plasmid Map:



**ACCN:** NM\_006077 **ORF Size:** 1428 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 006077.2</u>

RefSeq Size: 2506 bp RefSeq ORF: 1437 bp



### CBARA1 (MICU1) (NM\_006077) Human Tagged Lenti ORF Clone - RC200921L2

Locus ID: 10367
UniProt ID: Q9BPX6
Cytogenetics: 10q22.1
Domains: EFh

MW: 54.4 kDa

Gene Summary: This gene encodes an essential regulator of mitochondrial Ca2+ uptake under basal

conditions. The encoded protein interacts with the mitochondrial calcium uniporter, a mitochondrial inner membrane Ca2+ channel, and is essential in preventing mitochondrial Ca2+ overload, which can cause excessive production of reactive oxygen species and cell stress. Alternatively spliced transcript variants encoding different isoforms have been

described. [provided by RefSeq, Mar 2013]