

## Product datasheet for RC200921L1V

## OriGene Technologies, Inc.

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## CBARA1 (MICU1) (NM 006077) Human Tagged ORF Clone Lentiviral Particle

**Product data:** 

**Product Type:** Lentiviral Particles

**Product Name:** CBARA1 (MICU1) (NM\_006077) Human Tagged ORF Clone Lentiviral Particle

Symbol: MICU1

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

Mammalian Cell

Selection:

None

**Vector:** pLenti-C-Myc-DDK (PS100064)

Tag: Myc-DDK
ACCN: NM 006077

ORF Size: 1428 bp

**ORF Nucleotide** 

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

Sequence:

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.

RefSeq: <u>NM 006077.2</u>

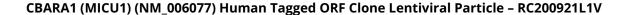
RefSeq Size: 2506 bp
RefSeq ORF: 1437 bp
Locus ID: 10367
UniProt ID: Q9BPX6

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]