

## Product datasheet for **KN200921RB**

### CBARA1 (MICU1) Human Gene Knockout Kit (CRISPR)

#### Product data:

Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 RFP-BSD donor, 1 scramble control
Donor DNA:	RFP-BSD
Symbol:	CBARA1
Locus ID:	10367
Components:	<b>KN200921G1</b> , CBARA1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) <b>KN200921G2</b> , CBARA1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) <b>KN200921RBD</b> , donor DNA containing left and right homologous arms and RFP-BSD functional cassette. <b>GE100003</b> , scramble sequence in pCas-Guide vector

**Disclaimer:** These products are manufactured and supplied by OriGene under license from ERS. The kit is designed based on the best knowledge of CRISPR technology. The system has been functionally validated for knocking-in the cassette downstream the native promoter. The efficiency of the knock-out varies due to the nature of the biology and the complexity of the experimental process.

**RefSeq:** [NM\\_001195518](#), [NM\\_001195519](#), [NM\\_006077](#), [NM\\_001363513](#)

**UniProt ID:** [Q9BPX6](#)

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

**Summary:** This gene encodes an essential regulator of mitochondrial Ca<sup>2+</sup> uptake under basal conditions. The encoded protein interacts with the mitochondrial calcium uniporter, a mitochondrial inner membrane Ca<sup>2+</sup> channel, and is essential in preventing mitochondrial Ca<sup>2+</sup> 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]



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## Product images:

