

MCU Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM02312

Basic Information

Catalog No.

RM02312

Category

Cell Lysate

Parental Cell line

293T

Genotype

Knockout

Gene Information

Gene Symbol

MCU

Species

Human

Gene ID

90550

Swiss Prot

Q8NE86

Synonyms

C10orf42; CCDC109A; HsMCU

Contact

 | 400-999-6126

 | cn.market@abclonal.com.cn

 | www.abclonal.com.cn

Background

This gene encodes a calcium transporter that localizes to the mitochondrial inner membrane. The encoded protein interacts with mitochondrial calcium uptake 1. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2012]

Product Information

Description

MCU Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.

Allele-1:12bp deletion and 8bp deletion in exon3

Allele-2:12bp deletion and 8bp deletion in exon3

Mammalian cells such as human, rat and mouse cells are normally diploid with two alleles.

Homozygote: both alleles were knocked out, mRNA has no signal, no expression of proteins.

Heterozygote: only one allele was knocked out, the mRNA transcript levels was decreased compared to wild type, and the protein expression levels was also lower than that of the wild type.

Packaging

1 vial parental cell Lysate and 1 vial knockout cell Lysate

Shipping Conditions

4°C

Amount

50µL, 2µg/µL.

Storage

Lysate is stable for 12 months when stored at -20°C. Minimizing freeze-thaw cycles.

Protocol

To be used as WB control. Lysate is supplied in 1× SDS sample buffer (2% SDS, 60 mM Tris-HCl pH 6.8, 10% Glycerol, 0.02% Bromophenol blue, 60 mM beta-mercaptoethanol). Lysate should be boiled for 3 - 5 minutes before loading onto gel.

Sequencing data

WT TGAGGCTACCATCC*****TGTCAAGTTCACACT***TACGACAACCTGCAAGAAGAGGATCGGGGAATTGACA
Mut TGAGGCTACCATCC***Deletion***TGTCAAGTTCACACT***TACGACAACCTGCAAA-----TCGGGGAAATTGACA
Allele-1: 12bp deletion and 8bp deletion in exon3
WT TGAGGCTACCATCC*****TGTCAAGTTCACACT***TACGACAACCTGCAAGAAGAGGATCGGGGAATTGACA
Mut TGAGGCTACCATCC***Deletion***TGTCAAGTTCACACT***TACGACAACCTGCAA-----TCGGGGAAATTGACA
Allele-2: 12bp deletion and 8bp deletion in exon3

Genome sequence analysis of PCR products from parental (WT) and MCU Knockout (KO) 293T cells, using sanger sequencing.