# ABclonal www.abclonal.com

# NDUFA11 Knockout 293T Cell Line, Homozygous

Catalog No.: RM02710

# **Basic Information**

#### Catalog No.

RM02710

#### Category

Cell Line

#### **Parental Cell line**

293T

#### Genotype

Knockout

# **Background**

This gene encodes a subunit of the membrane-bound mitochondrial complex I. Complex I is composed of numerous subunits and functions as the NADH-ubiquinol reductase of the mitochondrial electron transport chain. Mutations in this gene are associated with severe mitochondrial complex I deficiency. Alternate splicing results in multiple transcript variants.

#### **Gene Information**

#### **Gene Symbol**

NDUFA11

#### **Species**

Human

# Gene ID

126328

#### **Swiss Prot**

Q86Y39

#### **Synonyms**

B14.7; MC1DN14; CI-B14.7; NDUFA11

#### **Contact**

<u>a</u>	400-999-6126
$\bowtie$	cn.market@abclonal.com.cn
•	www.abclonal.com.cn

#### **Product Information**

#### Description

NDUFA11 Knockout cell line is engineered from 293T cell line with Gene-Editing Technology. Allele-1:61bp deletion in exon3

Allele-2:61bp 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 line and 1 vial knockout cell line

## **Shipping Conditions**

**Amount** 

Dry ice

1~5x10<sup>6</sup> cells/vial.

# Storage

Stored in liquid nitrogen for a long time less than -130°C. Minimizing freeze-thaw cycles.

#### Protocol

Upon arrival, it should be maintained in DMEM medium with 10%(v/v) fetal bovine serum and 100U penicillin-streptomycin, at 37°C with 5%  $CO_2$  condition.

- 1. Thaw the vial in  $37^{\circ}$ C water bath ,and shake it to melt as soon as possible.
- 2. Transfer the cell suspension to a 15mL conical tube with pre-warmed 5mL complete medium and centrifuge 1000rpm for approximately 5 minutes at room temperature.
- 3. Remove and discard the supernatant.
- 4. Resuspend the cell pellet with 1mL pre-warmed complete medium and seed in 10cm dish.
- 5. Add 8-10mL of complete medium.
- 6. Incubate the culture at 37°C incubator with 5% CO<sub>2</sub>.
- 7. A subcultivation ratio of 1:2-1:4 is recommended.

# Sequencing data

WT CCTCACCACCTGCA\*\*\*\*\*\*\*\*\*\*\*CGGAGGCCTGACT
Mut CCTCACCACCTGCA\*\*\*Deletion\*\*\*CGGAGGCCTGACT

Allele-2: 61bp deletion in exon3

Genome sequence analysis of PCR products from parental (WT) and NDUFA11 knockout (KO) 293T cells, using sanger sequencing.