

# NDUFAF3 Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM50002

## **Basic Information**

#### Catalog No.

RM50002

### Category

Cell Lysate

## **Parental Cell line**

HeLa

### Genotype

Knockout

# **Background**

This gene encodes a mitochondrial complex I assembly protein that interacts with complex I subunits. Mutations in this gene cause mitochondrial complex I deficiency, a fatal neonatal disorder of the oxidative phosphorylation system. Alternatively spliced transcript variants encoding different isoforms have been identified.

# **Gene Information**

## **Gene Symbol**

NDUFAF3

#### **Species**

Human

# Gene ID

25915

#### **Swiss Prot**

Q9BU61

#### **Synonyms**

2P1; E3-3; C3orf60; MC1DN18

#### **Contact**

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## **Product Information**

#### Description

NDUFAF3 Knockout cell line is engineered from HeLa cell line with Gene-Editing Technology. Allele-1:113bp deletion in exon2

Allele-2:113bp deletion in exon2

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**

**Amount** 

4°C

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  $1\times$  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 GCTCTCGCCGGCGG\*\*\*\*\*\*\*\*\*\*\*CTCGGCCCCTGCGC
Mut GCTCTCGCCGGCGG\*\*\*Deletion\*\*\*CTCGGCCCTGCGC
Allele-1: 113bp deletion in exon2

WT GCTCTCGCCGGCGG\*\*\*\*\*\*\*\*\*\*\*CTCGGCCCCTGCGC
Mut GCTCTCGCCGGCGG\*\*\*Deletion\*\*\*CTCGGCCCCTGCGC
Allele-2: 113bp deletion in exon2

Genome sequence analysis of PCR products from parental (WT) and NDUFAF3 knockout (KO) HeLa cells, using sanger sequencing.