

# NDUFAF3 Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM50002

## Basic Information

### Catalog No.

RM50002

### Category

Cell Lysate

### Parental Cell line

HeLa

### Genotype

Knockout

## Gene Information

### Gene Symbol

NDUFAF3

### Species

Human

### Gene ID

25915

### Swiss Prot

Q9BU61

### Synonyms

2P1; E3-3; C3orf60; MC1DN18

## Contact

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## 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.

## 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

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

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WT GCTCTCGCCGGCGG\*\*\*\*\*CTCGGCCCTGCGC  
Mut GCTCTCGCCGGCGG\*\*\*Deletion\*\*\*CTCGGCCCTGCGC  
Allele-1: 113bp deletion in exon2

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

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