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# NDUFA5 Knockout 293F Cell Lysate, Homozygous

**Catalog No.: RM02394**

## Basic Information

**Catalog No.**
RM02394

**Category**
Cell Lysate

**Parental Cell line**
293F

**Genotype**
Knockout

## Background

This nuclear gene encodes a conserved protein that comprises the B13 subunit of complex I of the mitochondrial respiratory chain. The encoded protein localizes to the inner mitochondrial membrane, where it is thought to aid in the transfer of electrons from NADH to ubiquinone. Alternative splicing results in multiple transcript variants. There are numerous pseudogenes of this gene on chromosomes 1, 3, 6, 8, 9, 11, 12, and 16. [provided by RefSeq, Apr 2014]

## Gene Information

**Gene Symbol**
NDUFA5

**Species**
Human

**Gene ID**
4698

**Swiss Prot**
Q16718

**Synonyms**
B13; CI-13KD-B; CI-13kB; NUFM; UQOR13

## Product Information

**Description**
NDUFA5 Knockout 293F Cell Line is engineered from 293F cell line with Gene-Editing technology.
Allele-1:exon1 was deleted
Allele-2:exon1 was deleted
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℃

**Amount**
50μL, 2μg/μL.

**Storage**
Lysate is stable for 12 months when stored at -20℃. 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.

## Contact


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## Sequencing data


Genome sequence analysis of PCR products from parental (WT) and NDUFA5 knockout (KO) 293F cells, using sanger sequencing.