

# FXN Knockdown 293T Cell Lysate, Heterozygous

Catalog No.: RM01777

## Basic Information

### Catalog No.

RM01777

### Category

Cell Lysate

### Parental Cell line

293T

### Genotype

Knockdown

## Gene Information

### Species

Human

### Gene ID

2395

### Swiss Prot

Q16595

### Synonyms

CyaY; FA; FARR; FRDA; X25

## Contact

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## Background

This nuclear gene encodes a mitochondrial protein which belongs to the FRATAXIN family. The protein functions in regulating mitochondrial iron transport and respiration. The expansion of intronic trinucleotide repeat GAA from 8-33 repeats to >90 repeats results in Friedreich ataxia. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2016]

## Product Information

### Description

FXN Knockdown 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.

Allele-1:exon2 was deleted

Allele-2:WT

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 TTGGCTTCAG\*\*\*\*\*GTAAGATAAAA  
Mut TTGGCTTCAG\*\*\*Deletion\*\*\*GTAAGATAAAA  
Allele-1: exon2 was deleted

Genome sequence analysis of PCR products from parental (WT) and FXN knockdown (KD) 293T cells, using sanger sequencing.

WT TTGGCTTCAG\*\*\*\*\*GTAAGATAAAA  
Mut TTGGCTTCAG\*\*\*\*\*GTAAGATAAAA  
Allele-2: WT