

# FUS Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM02382

## Basic Information

**Catalog No.**

RM02382

**Category**

Cell Lysate

**Parental Cell line**

293T

**Genotype**

Knockout

## Gene Information

**Gene Symbol**

FUS

**Species**

Human

**Gene ID**

2521

**Swiss Prot**

P35637

**Synonyms**ALS6; ETM4; FUS1; HNRNPP2; POMP75;  
TLS

## Contact

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## Background

This gene encodes a multifunctional protein component of the heterogeneous nuclear ribonucleoprotein (hnRNP) complex. The hnRNP complex is involved in pre-mRNA splicing and the export of fully processed mRNA to the cytoplasm. This protein belongs to the FET family of RNA-binding proteins which have been implicated in cellular processes that include regulation of gene expression, maintenance of genomic integrity and mRNA/microRNA processing. Alternative splicing results in multiple transcript variants. Defects in this gene result in amyotrophic lateral sclerosis type 6. [provided by RefSeq, Sep 2009]

## Product Information

**Description**

FUS Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.  
Allele-1:1bp insertion and 6bp deletion in exon3  
Allele-2:46bp 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 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 AGTCAGCCCTACGG - ACAGCAGAGTTACA\*\*\*CGGACACTTCAGGCTATGGCCAGAGCAGCTATTTC  
Mut AGTCAGCCCTACGGGAGCAGAGTTACA\*\*\*CGGACACTTCAGGC- - - - -CAGASCAGCTATTTC  
Allele-1: 1bp insertion and 8bp deletion in exon3  
WT AGTCAGCCCTACGG\*\*\*\*\*TATGGCCAGAGCAG  
Mut AGTCAGCCCTACGA\*\*\*Deletion\*\*\*TATGGCCAGAGCAG  
Allele-2: 46bp deletion in exon3

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