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FUS Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM02382

Basic Information

Catalog No.
RM02382

Category
Cell Lysate

Parental Cell line
293T

Genotype
Knockout

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]

Gene Information

Gene Symbol
FUS

Species
Human

Gene ID
2521

Swiss Prot
P35637

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

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℃

Amount
50μL, 2μg/μL.

Storage
Store at -20℃

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.

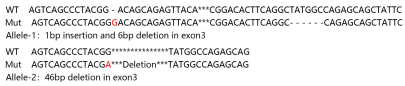
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Sequencing data



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