

# FN1 Knockout U-87 MG Cell Lysate, Homozygous

**Catalog No.:** RM50027

## Basic Information

**Catalog No.**

RM50027

**Category**

Cell Lysate

**Parental Cell line**

U-87 MG

**Genotype**

Knockout

## Gene Information

**Gene Symbol**

FN1

**Species**

Human

**Gene ID**

2335

**Swiss Prot**

P02751

**Synonyms**FN; CIG; FNZ; MSF; ED-B; FINC; GFND;  
LET5; GFND2; SMDCF; Fibronectin

## Contact

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## Background

This gene encodes fibronectin, a glycoprotein present in a soluble dimeric form in plasma, and in a dimeric or multimeric form at the cell surface and in extracellular matrix. The encoded preproprotein is proteolytically processed to generate the mature protein. Fibronectin is involved in cell adhesion and migration processes including embryogenesis, wound healing, blood coagulation, host defense, and metastasis. The gene has three regions subject to alternative splicing, with the potential to produce 20 different transcript variants, at least one of which encodes an isoform that undergoes proteolytic processing. The full-length nature of some variants has not been determined.

## Product Information

**Description**

FN1 Knockout cell line is engineered from U-87 MG cell line with Gene-Editing Technology.

Allele-1:1bp deletion in exon3

Allele-2:61bp 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 TGGGAACACTTACC\*\*\*\*\*AGTGGGTGACACTT  
Mut TGGGAACACTTACC\*\*\*Deletion\*\*\*AGTGGGTGACACTT  
Allele-1: 1bp deletion in exon3

WT CTGGGAACACTTAC\*\*\*\*\*GGGCTGGGCGAGG  
Mut CTGGGAACACTTAC\*\*\*Deletion\*\*\*GGGCTGGGCGAGG  
Allele-2: 61bp deletion in exon3

Genome sequence analysis of PCR products from parental (WT) and FN1 knockout (KO) U-87 MG cells, using sanger sequencing.