

# TRIM21 Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM02484

## Basic Information

**Catalog No.**

RM02484

**Category**

Cell Lysate

**Parental Cell line**

293T

**Genotype**

Knockout

## Gene Information

**Gene Symbol**

TRIM21

**Species**

Human

**Gene ID**

6737

**Swiss Prot**

P19474

**Synonyms**

RNF81; RO52; Ro/SSA; SSA; SSA1

## Contact

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## Background

This gene encodes a member of the tripartite motif (TRIM) family. The TRIM motif includes three zinc-binding domains, a RING, a B-box type 1 and a B-box type 2, and a coiled-coil region. The encoded protein is part of the RoSSA ribonucleoprotein, which includes a single polypeptide and one of four small RNA molecules. The RoSSA particle localizes to both the cytoplasm and the nucleus. RoSSA interacts with autoantigens in patients with Sjogren syndrome and systemic lupus erythematosus. Alternatively spliced transcript variants for this gene have been described but the full-length nature of only one has been determined. [provided by RefSeq, Jul 2008]

## Product Information

**Description**

TRIM21 Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.

Allele-1:176bp deletion in exon1

Allele-2:172bp deletion in exon1

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 AGAATCTCCGGCCC\*\*\*\*\*CATGGTCCCTCTTG  
Mut AGAATCTCCGGCCC\*\*\*Deletion\*\*\*CATGGTCCCTCTTG  
Allele-1: 176bp deletion in exon1  
WT ATCTCCGGCCCAAT\*\*\*\*\*CCATGGTCCCTCTT  
Mut ATCTCCGGCCCAAT\*\*\*Deletion\*\*\*CCATGGTCCCTCTT  
Allele-2: 172bp deletion in exon1

Genome sequence analysis of PCR products from parental (WT) and TRIM21 knockout (KO) 293T cells, using sanger sequencing.