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TRIM21 Knockout 293T Cell Line, Homozygous

Catalog No.: RM02446

Basic Information

Catalog No.
RM02446

Category
Cell Line

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

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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 line and 1 vial knockout cell line

Shipping Conditions
Dry ice

Amount
1~5x10^6 cells/vial

Storage
Stored in liquid nitrogen for a long time less than -130℃. Minimizing freeze-thaw cycles.

Protocol
Upon arrival, it should be maintained in DMEM medium with 10%(v/v) fetal bovine serum and 100U penicillin-streptomycin, at 37℃ with 5% CO_2 condition.
1. Thaw the vial in 37℃ water bath ,and shake it to melt as soon as possible.
2. Transfer the cell suspension to a 15mL conical tube with pre-warmed 5mL complete medium and centrifuge 1000rpm for approximately 5 minutes at room temperature.
3. Remove and discard the supernatant.
4. Resuspend the cell pellet with 1mL pre-warmed complete medium and seed in 10cm dish.
5. Add 8-10mL of complete medium.
6. Incubate the culture at 37℃ incubator with 5% CO_2.
7. A subcultivation ratio of 1:2-1:4 is recommended.

Sequencing data

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.