

# PML Knockout 293T Cell Line, Homozygous

**Catalog No.: RM02499**

## Basic Information

**Catalog No.**

RM02499

**Category**

Cell Line

**Parental Cell line**

293T

**Genotype**

Knockout

## Gene Information

**Gene Symbol**

PML

**Species**

Human

**Gene ID**

5371

**Swiss Prot**

P29590

**Synonyms**

MYL; PP8675; RNF71; TRIM19

## Contact

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## Background

The protein encoded by this gene is 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. This phosphoprotein localizes to nuclear bodies where it functions as a transcription factor and tumor suppressor. Its expression is cell-cycle related and it regulates the p53 response to oncogenic signals. The gene is often involved in the translocation with the retinoic acid receptor alpha gene associated with acute promyelocytic leukemia (APL). Extensive alternative splicing of this gene results in several variations of the protein's central and C-terminal regions; all variants encode the same N-terminus. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]

## Product Information

**Description**

PML Knockout 293T Cell line is engineered from 293T cell line with Gene-Editing Technology. Allele-1:179bp deletion in exon2

Allele-2:178bp deletion in exon2

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<sup>6</sup> cells/vial

**Storage**

Stored in liquid nitrogen for a long time less than -130°C. 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°C with 5% CO<sub>2</sub> condition.

1. Thaw the vial in 37°C 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°C incubator with 5% CO<sub>2</sub>.
7. A subcultivation ratio of 1:2-1:4 is recommended.

## Sequencing data

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WT CAGCAATGCCAGGC\*\*\*\*\*TTGTGGATGCGCAG  
Mut CAGCAATGCCAGGC\*\*\*Deletion\*\*\*TTGTGGATGCGCAG  
Allele-1: 179bp deletion in exon2

WT AGCAATGCCAGGC\*\*\*\*\*TTGTGGATGCGCAG  
Mut AGCAATGCCAGGC\*\*\*Deletion\*\*\*TTGTGGATGCGCAG  
Allele-2: 178bp deletion in exon2

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