

# TSC22D3 Knockout 293T Cell Line, Homozygous

**Catalog No.:** RM02726

## Basic Information

### Catalog No.

RM02726

### Category

Cell Line

### Parental Cell line

293T

### Genotype

Knockout

## Gene Information

### Gene Symbol

TSC22D3

### Species

Human

### Gene ID

1831

### Swiss Prot

Q99576

### Synonyms

DIP; GILZ; DSIPI; TSC-22R; TSC22D3

## Contact

☎ | 400-999-6126

✉ | [cn.market@abclonal.com.cn](mailto:cn.market@abclonal.com.cn)

🌐 | [www.abclonal.com.cn](http://www.abclonal.com.cn)

## Background

This gene encodes the anti-inflammatory protein glucocorticoid (GC)-induced leucine zipper. Expression of this gene stimulated by glucocorticoids and interleukin 10 and it appears to play a key role in the anti-inflammatory and immunosuppressive effects of this steroid. This protein has also been shown to inhibit pro-inflammatory molecules including nuclear factor κB. Alternate splicing results in multiple transcript variants.

## Product Information

### Description

TSC22D3 Knockout cell line is engineered from 293T cell line with Gene-Editing Technology.

Allele-1:exon2 was deleted

Allele-2:exon2 was deleted

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 ACTGCCATGTACTC\*\*\*\*\*GCACTGGAGGTGGA  
Mut ACTGCCATGTACTC\*\*\*Deletion\*\*\*GCACTGGAGGTGGA  
Allele-1: exon2 was deleted

WT ACTGCCATGTACTC\*\*\*\*\*GCACTGGAGGTGGA  
Mut ACTGCCATGTACTC\*\*\*Deletion\*\*\*GCACTGGAGGTGGA  
Allele-2: exon2 was deleted

Genome sequence analysis of PCR products from parental (WT) and TSC22D3 knockout (KO) 293T cells, using sanger sequencing.