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# TCF4 Knockout HCT116 Cell Line, Homozygous

Catalog No.: RM01869

# **Basic Information**

#### Catalog No.

RM01869

# Category

Cell Line

#### **Parental Cell line**

HCT116

#### Genotype

Knockout

# **Background**

This gene encodes transcription factor 4, a basic helix-loop-helix transcription factor. The encoded protein recognizes an Ephrussi-box ('E-box') binding site ('CANNTG') - a motif first identified in immunoglobulin enhancers. This gene is broadly expressed, and may play an important role in nervous system development. Defects in this gene are a cause of Pitt-Hopkins syndrome. In addition, an intronic CTG repeat normally numbering 10-37 repeat units can expand to >50 repeat units and cause Fuchs endothelial corneal dystrophy. Multiple alternatively spliced transcript variants that encode different proteins have been described. [provided by RefSeq, Jul 2016]

# **Gene Information**

# **Gene Symbol**

TCF4

#### **Species**

Human

#### **Gene ID**

6925

### **Swiss Prot**

P15884

# Synonyms

E2-2; FECD3; ITF-2; ITF2; PTHS; SEF-2; SEF2; SEF2-1; SEF2-1A; SEF2-1B; SEF2-1D; TCF-4; bHLHb19

#### Contact

2	400-999-6126
$\bowtie$	cn.market@abclonal.com.cn
•	www.abclonal.com.cn

# **Product Information**

#### Description

TCF4 Knockout HCT116 Cell Line is engineered from HCT116 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**

 ${\bf 1}$  vial parental cell line and  ${\bf 1}$  vial knockout cell line

# **Shipping Conditions**

**Amount** 

Dry ice

1~5x10<sup>6</sup> cells/vial

Stored in liquid nitrogen for a long time less than -130  $^{\circ}\text{C}.$  Minimizing freeze-thaw cycles.

#### Protoco

Storage

Upon arrival, it should be maintained in DMEM medium with 10%(v/v) fetal bovine serum and 100U penicillin-streptomycin, at  $37^{\circ}C$  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

Mut ATATAAGAATGGAG\*\*\*Deletion\*\*\*TCACTTAATGTCAC Allele-1: exon2 was deleted

WT ATATAAGAATGGAG\*\*\*\*\*\*\*\*\*\*\*\*\*TCACTTAATGTCAC
Mut ATATAAGAATGGAG\*\*\*Deletion\*\*\*TCACTTAATGTCAC

Allele-2: exon2 was deleted

Genome sequence analysis of PCR products from parental (WT) and TCF4 knockout (KO) HCT116 cells, using sanger sequencing.