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# NR1H4 Knockout 293T Cell Line, Homozygous

**Catalog No.: RM02684**

## Basic Information

**Catalog No.**
RM02684

**Category**
Cell Line

**Parental Cell line**
293T

**Genotype**
Knockout

## Background

This gene encodes a ligand-activated transcription factor that shares structural features in common with nuclear hormone receptor family members. This protein functions as a receptor for bile acids, and when bound to bile acids, binds to DNA and regulates the expression of genes involved in bile acid synthesis and transport. Alternatively spliced transcript variants encoding different isoforms have been described.

## Gene Information

**Gene Symbol**
NR1H4

**Species**
Human

**Gene ID**
9971

**Swiss Prot**
Q96RI1

**Synonyms**
BAR; FXR; HRR1; HRR-1; PFIC5; RIP14; NR1H4

## Product Information

**Description**
NR1H4 Knockout cell line is engineered from 293T cell line with Gene-Editing Technology.
Allele-1:107bp deletion in exon2
Allele-2:107bp 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**
1~5x$10^6$ 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.

## Contact


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## Sequencing data

```
WT    GTGGAACCATACTC**********CTGGAATATATGAA
Mut   GTGGAACCATACTC***Deletion***CTGGAATATATGAA
Allele-1:   107bp deletion in exon2

WT    GTGGAACCATACTC**********CTGGAATATATGAA
Mut   GTGGAACCATACTC***Deletion***CTGGAATATATGAA
Allele-2:   107bp deletion in exon2
```

Genome sequence analysis of PCR products from parental (WT) and NR1H4 knockout (KO) 293T cells, using sanger sequencing.