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OCT2 Knockout 293T Cell Line, Homozygous

Catalog No.: RM02675

Basic Information

Catalog No.
RM02675

Category
Cell Line

Parental Cell line
293T

Genotype
Knockout

Gene Information

Gene Symbol
OCT2

Species
Human

Gene ID
5452

Swiss Prot
P09086

Synonyms
POU2F2; OTF2; Oct-2

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Background

The protein encoded by this gene is a homeobox-containing transcription factor of the POU domain family. The encoded protein binds the octamer sequence 5'-ATTTGCAT-3', a common transcription factor binding site in immunoglobulin gene promoters. Several transcript variants encoding different isoforms have been found for this gene.

Product Information

Description
OCT2 Knockout cell line is engineered from 293T cell line with Gene-Editing Technology.
Allele-1:exon1 was deleted
Allele-2:exon1 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
1~5x10^6 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

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WT    CTGAGTGACTTCCG**********GTCCCCGCTAACCC
Mut   CTGAGTGACTTCCG***Deletion***GTCCCCGCTAACCC
Allele-1:    exon1 was deleted

WT    CTGAGTGACTTCCG**********CCGGGTCCCCGCTA
Mut   CTGAGTGACTTCCG***Deletion***CCGGGTCCCCGCTA
Allele-2:    exon1 was deleted
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Genome sequence analysis of PCR products from parental (WT) and OCT2 knockout (KO) 293T cells, using sanger sequencing.