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SATB2 Knockout 293T Cell Line, Homozygous

Catalog No.: RM02426

Basic Information

Catalog No.
RM02426

Category
Cell Line

Parental Cell line
293T

Genotype
Knockout

Gene Information

Gene Symbol
SATB2

Species
Human

Gene ID
23314

Swiss Prot
Q9UPW6

Synonyms
GLSS

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Background

This gene encodes a DNA binding protein that specifically binds nuclear matrix attachment regions. The encoded protein is involved in transcription regulation and chromatin remodeling. Defects in this gene are associated with isolated cleft palate and mental retardation. Alternate splicing results in multiple transcript variants that encode the same protein. [provided by RefSeq, Feb 2010]

Product Information

Description
SATB2 Knockout 293T Cell line is engineered from 293T cell line with Gene-Editing Technology.
Allele-1:65bp deletion in exon2
Allele-2:64bp 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
1~5x10^6 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

WT GATGATTCCTGTCT**********GTCCTGGTGCGGAA
Mut GATGATTCCTGTCT***Deletion***GTCCTGGTGCGGAA
Allele-1: 65bp deletion in exon2

WT ATGATTCCTGTCTT**********GTCCTGGTGCGGAA
Mut ATGATTCCTGTCTT***Deletion***GTCCTGGTGCGGAA
Allele-2: 64bp deletion in exon2

Genome sequence analysis of PCR products from parental (WT) and SATB2 knockout (KO) 293T cells, using sanger sequencing.