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HOPX Knockout 293T Cell Line, Homozygous

Catalog No.: RM02706

Basic Information

Catalog No.
RM02706

Category
Cell Line

Parental Cell line
293T

Genotype
Knockout

Gene Information

Gene Symbol
HOPX

Species
Human

Gene ID
84525

Swiss Prot
Q9BPY8

Synonyms
HOD; HOP; OB1; LAGY; TOTO; CAMEO; NECC1; SMAP31; HOPX

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Background

The protein encoded by this gene is a homeodomain protein that lacks certain conserved residues required for DNA binding. It was reported that choriocarcinoma cell lines and tissues failed to express this gene, which suggested the possible involvement of this gene in malignant conversion of placental trophoblasts. Studies in mice suggest that this protein may interact with serum response factor (SRF) and modulate SRF-dependent cardiac-specific gene expression and cardiac development. Multiple alternatively spliced transcript variants have been identified for this gene.

Product Information

Description
HOPX Knockout cell line is engineered from 293T cell line with Gene-Editing Technology.
Allele-1:95bp deletion in exon1
Allele-2:95bp deletion in exon1
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
Store at -20℃

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    TCGGCGGAGACCGC**********CCGAGGCAGGCCT
Mut   TCGGCGGAGACCGC***Deletion***CCGAGGCAGGCCT
Allele-1:   95bp deletion in exon1

WT    TCGGCGGAGACCGC**********CCGAGGCAGGCCT
Mut   TCGGCGGAGACCGC***Deletion***CCGAGGCAGGCCT
Allele-2:   95bp deletion in exon1
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Genome sequence analysis of PCR products from parental (WT) and HOPX knockout (KO) 293T cells, using sanger sequencing.

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