

ECE1 Knockdown HeLa Cell Line, Heterozygous

Catalog No.: RM02212

Basic Information

Catalog No.

RM02212

Category

Cell Line

Parental Cell line

HeLa

Genotype

Knockdown

Background

The protein encoded by this gene is involved in proteolytic processing of endothelin precursors to biologically active peptides. Mutations in this gene are associated with Hirschsprung disease, cardiac defects and autonomic dysfunction. Alternatively spliced transcript variants encoding different isoforms have been noted for this gene.[provided by RefSeq, Sep 2009]

Gene Information

Gene Symbol

ECE1

Species

Human

Gene ID

1889


Swiss Prot

P42892

Synonyms

ECE

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Product Information

Description

ECE1 Knockdown eLa cell line is engineered from HeLa cell line with Gene-Editing Technology.

Allele-1:3bp deletion and 15bp deletion in exon1

Allele-2:71bp 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

1~5x10⁶ cells/vial

Storage

Stored in liquid nitrogen for a long time less than -130°C. 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°C with 5% CO₂ 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% CO₂.
7. A subcultivation ratio of 1:2-1:4 is recommended.

Sequencing data

WT TTCCACAGCCCCCGAGTGGCCAGAGGTGCT***GGGCTGGTGGTGT*****CGGCAAGGACTGGTG
Mut TTCCACAGCCCCCG --TGGCCAGAGGTGCT***GGGCTGGTGGTGT***Deletion***CGGCAAGGACTGGTG
Allele-1: 3bp deletion and 15bp deletion in exon1
WT TTCCACAGCCCCCGG*****GGCAGGACTGGTG
Mut TTCCACAGCCCCCG***Deletion***GGCAGGACTGGTG
Allele-2: 71bp deletion in exon1

Genome sequence analysis of PCR products from parental (WT) and ECE1 Knockdown (KD) HeLa cells, using sanger sequencing.