

GNAI3 Knockout HeLa Cell Line, Homozygous

Catalog No.: RM02240

Basic Information

Catalog No.

RM02240

Category

Cell Line

Parental Cell line

HeLa

Genotype

Knockout

Gene Information

Gene Symbol

GNAI3

Species

Human

Gene ID

2773

Swiss Prot

P08754

Synonyms

87U6; ARCND1

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Background

Guanine nucleotide-binding proteins (G proteins) are involved as modulators or transducers in various transmembrane signaling pathways. G proteins are composed of 3 units: alpha, beta and gamma. This gene encodes an alpha subunit and belongs to the G-alpha family. Mutation in this gene, resulting in a gly40-to-arg substitution, is associated with auriculocondylar syndrome, and shown to affect downstream targets in the G protein-coupled endothelin receptor pathway. [provided by RefSeq, Jun 2012]

Product Information

Description

GNAI3 Knockout cell line is engineered from HeLa cell line with Gene-Editing Technology.

Allele-1:70bp 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 TCAGCCTGCCGAGC*****GGGAGGACGGGGAA
Mut TCAGCCTGCCGAGC***Deletion***GGGAGGACGGGGAA
Allele-1: 70bp deletion in exon1

WT AGCCTGCCGAGCCG*****GGAGGACGGGGAAA
Mut AGCCTGCCGAGCCG***Deletion***GGAGGACGGGGAAA
Allele-2: 71bp deletion in exon1

Genome sequence analysis of PCR products from parental (WT) and GNAI3 knockout (KO) HeLa cells, using sanger sequencing.