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MYL9 Knockout 293T Cell Line, Homozygous

Catalog No.: RM01910

Basic Information

Catalog No.
RM01910

Category
Cell Line

Parental Cell line
293T

Genotype
Knockout

Background

Myosin, a structural component of muscle, consists of two heavy chains and four light chains. The protein encoded by this gene is a myosin light chain that may regulate muscle contraction by modulating the ATPase activity of myosin heads. The encoded protein binds calcium and is activated by myosin light chain kinase. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Gene Information

Gene Symbol
MYL9

Species
Human

Gene ID
10398

Swiss Prot
P24844

Synonyms
LC20; MLC-2C; MLC2; MRLC1; MYRL2

Product Information

Description
MYL9 Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing Technology.
Allele-1:100bp deletion in exon1
Allele-2:100bp 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
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.

Contact

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Sequencing data

WT GGCCACATCCAATG**********CGACATGCTGGCCT
Mut GGCCACATCCAATG***Deletion***CGACATGCTGGCCT
Allele-1: 100bp deletion in exon1

WT GGCCACATCCAATG**********CGACATGCTGGCCT
Mut GGCCACATCCAATG***Deletion***CGACATGCTGGCCT
Allele-2: 100bp deletion in exon1

Genome sequence analysis of PCR products from parental (WT) and MYL9 knockout (KO) 293T cells, using sanger sequencing.