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METTL3 Knockdown 293T Cell Line, Heterozygous

Catalog No.: RM02141

Basic Information

Catalog No.
RM02141

Category
Cell Line

Parental Cell line
293T

Genotype
Knockdown

Background

This gene encodes the 70 kDa subunit of MT-A which is part of N6-adenosine-methyltransferase. This enzyme is involved in the posttranscriptional methylation of internal adenosine residues in eukaryotic mRNAs, forming N6-methyladenosine. [provided by RefSeq, Jul 2008]

Gene Information

Gene Symbol
METTL3

Species
Human

Gene ID
56339

Swiss Prot
Q86U44

Synonyms
IME4; M6A; MT-A70; Spo8; hMETTL3

Product Information

Description
METTL3 Knockdown 293T Cell Line is engineered from 293T cell line with Gene-Editing Technology.
Allele-1:138bp deletion in exon2
Allele-2:139bp 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
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.

Contact

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Sequencing data

WT ATTGTCTCCAACCT**********CATTGCCCACTGAT
Mut ATTGTCTCCAACCT***Deletion***CATTGCCCACTGAT
Allele-1: 138bp deletion in exon2

WT CATTGTCTCCAACC**********CATTGCCCACTGAT
Mut CATTGTCTCCAACC***Deletion***CATTGCCCACTGAT
Allele-2: 139bp deletion in exon2

Genome sequence analysis of PCR products from parental (WT) and METTL3 Knockdown (KD) 293T cells, using sanger sequencing.

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