

Product datasheet for RC223206L2

OriGene Technologies, Inc.

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DNMT3B (NM_006892) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: DNMT3B (NM_006892) Human Tagged Lenti ORF Clone

Tag: mGFP

Symbol: DNMT3B

Synonyms: ICF; ICF1; M.HsallIB

Mammalian Cell None

Selection:

Vector: pLenti-C-mGFP (PS100071)

E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide

Sequence:

The ORF insert of this clone is exactly the same as(RC223206).

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Restriction Sites: Sgfl-Mlul

Cloning Scheme:





 $[\]ensuremath{^*}$ The last codon before the Stop codon of the ORF.

ACCN: NM_006892

ORF Size: 2559 bp





DNMT3B (NM_006892) Human Tagged Lenti ORF Clone - RC223206L2

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of

reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing

variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube

containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method: 1. Centrifuge at 5,000xg for 5min.

2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.

3. Close the tube and incubate for 10 minutes at room temperature.

4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid

at the bottom.

5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of

shipping when stored at -20°C.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with

0.22um filter is required.

RefSeq: <u>NM 006892.3</u>

RefSeq Size: 4353 bp
RefSeq ORF: 2562 bp
Locus ID: 1789
UniProt ID: Q9UBC3

Cytogenetics: 20q11.21

Domains: PWWP, DNA_methylase

Protein Families: Druggable Genome, Embryonic stem cells, Induced pluripotent stem cells, Stem cell -

Pluripotency

Protein Pathways: Cysteine and methionine metabolism, Metabolic pathways

MW: 95.8 kDa

Gene Summary: CpG methylation is an epigenetic modification that is important for embryonic development,

imprinting, and X-chromosome inactivation. Studies in mice have demonstrated that DNA

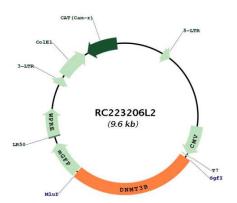
methylation is required for mammalian development. This gene encodes a DNA methyltransferase which is thought to function in de novo methylation, rather than

maintenance methylation. The protein localizes primarily to the nucleus and its expression is developmentally regulated. Mutations in this gene cause the immunodeficiency-centromeric instability-facial anomalies (ICF) syndrome. Eight alternatively spliced transcript variants have been described. The full length sequences of variants 4 and 5 have not been determined.

[provided by RefSeq, May 2011]



Product images:



Circular map for RC223206L2