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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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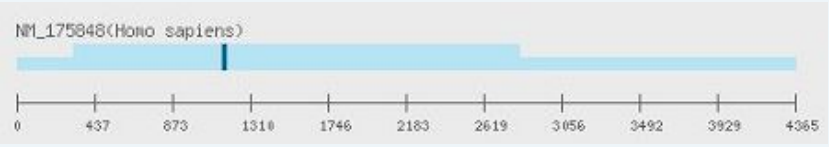
DNMT3B Pre-design Chimera RNAi

Catalog # : H00001789-R02 **規格 :** [10 nmol] [20 nmol]

List All

Specification

Product Description:	Homo sapiens DNA (cytosine-5-)-methyltransferase 3 beta (DNMT3B), transcript variant 2, mRNA.
Reactivity:	Human
Supplied Product:	DEPC water
Target Refseq:	NM_175848
Target Region:	Coding sequence
Storage Instruction:	Store at -20°C, do not exceed 4 - 5 freeze-thaw cycles to ensure product integrity.
Note:	Position of the Chimera RNAi. The related RNAi products listed below were designed from different accesion number but sharing the same RNAi sequence.



Application Image

RNAi Knockdown

Publication Reference

1. dsCheck: highly sensitive off-target search software for double-stranded RNA-mediated RNA interference.
   Naito Y, Yamada T, Matsumiya T, Ui-Tei K, Saigo K, Morishita S.Nucleic Acids Res. 2005 Jul 1;33(Web Server issue):W589-91.
2. Functional dissection of siRNA sequence by systematic DNA substitution: modified siRNA with a DNA seed arm is a powerful tool for mammalian gene silencing with significantly reduced off-target effect.
   Ui-Tei K, Naito Y, Zenno S, Nishi K, Yamato K, Takahashi F, Juni A, Saigo K.Nucleic Acids Res. 2008 Apr;36(7):2136-51. Epub 2008 Feb 11.
3. Guidelines for the selection of highly effective siRNA sequences for mammalian and chick RNA interference.
   Ui-Tei K, Naito Y, Takahashi F, Haraguchi T, Ohki-Hamazaki H, Juni A, Ueda R, Saigo K.Nucleic Acids Res. 2004 Feb 9;32(3):936-48. Print 2004.
4. siDirect: highly effective, target-specific siRNA design software for mammalian RNA interference.
   Naito Y, Yamada T, Ui-Tei K, Morishita S, Saigo K.Nucleic Acids Res. 2004 Jul 1;32(Web Server issue):W124-9.

Applications

RNAi Knockdown

Gene Information

Entrez GeneID: 1789

Gene Name:	DNMT3B
Gene Alias:	ICF,M.HsaIIIB
Gene Description:	DNA (cytosine-5-)-methyltransferase 3 beta
Omim ID:	242860, 602900
Gene Ontology:	Hyperlink
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. Six alternatively spliced transcript variants have been described. The full length sequences of variants 4 and 5 have not been determined. [provided by RefSeq
Other Designations:	DNA MTase HsaIIIB,DNA cytosine-5 methyltransferase 3 beta,DNA methyltransferase HsaIIIB

Gene Pathway

Cysteine and methionine metabolism Metabolic pathways

Related Disease

Acute Disease Adenocarcinoma Adenomatous Polyps Alzheimer disease
Arsenic Poisoning Arthritis, Rheumatoid Breast cancer Breast Neoplasms Carcinoma
Carcinoma, Hepatocellular Carcinoma, Squamous Cell Chronic Disease Colon cancer
Colonic Neoplasms Colonic Polyps Colorectal Neoplasms
Colorectal Neoplasms, Hereditary Nonpolyposis Cues Disease Progression

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