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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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FEN1 Pre-design Chimera RNAi

Catalog # : H00002237-R01

規格 : [10 nmol] [20 nmol]

List All

Specification

Product Description: Homo sapiens flap structure-specific endonuclease 1 (FEN1), mRNA.

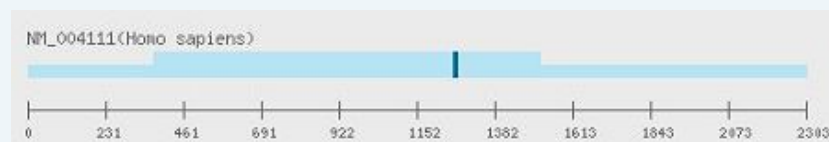
Reactivity: Human

Supplied Product: DEPC water

Target Refseq: NM_004111

Storage Instruction: Store at -20°C, do not exceed 4 - 5 freeze-thaw cycles to ensure product integrity.

Note: Position of the Chimera RNAi.



Application Image

RNAi Knockdown

Publication Reference

- 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.
- 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.
- 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.
- 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: [2237](#)

Gene Name: FEN1

Gene Alias: FEN-1, MF1, RAD2

Gene flap structure-specific endonuclease 1

Description:

Omim ID: [600393](#)

Gene Ontology: [Hyperlink](#)

Gene Summary: The protein encoded by this gene removes 5' overhanging flaps in DNA repair and processes the 5' ends of Okazaki fragments in lagging strand DNA synthesis. Direct physical interaction between this protein and AP endonuclease 1 during long-patch base excision repair provides coordinated loading of the proteins onto the substrate, thus passing the substrate from one enzyme to another. The protein is a member of the XPG/RAD2 endonuclease family and is one of ten proteins essential for cell-free DNA replication. DNA secondary structure can inhibit flap processing at certain trinucleotide repeats in a length-dependent manner by concealing the 5' end of the flap that is necessary for both binding and cleavage by the protein encoded by this gene. Therefore, secondary structure can deter the protective function of this protein, leading to site-specific trinucleotide expansions. [provided by RefSeq]

Other DNase IV,maturation factor-1

Designations:

Gene Pathway

[Base excision repair](#) [DNA replication](#) [Non-homologous end-joining](#)

Related Disease

[Breast cancer](#) [Breast Neoplasms](#) [Coronary Artery Disease](#) [DNA Damage](#)
[Genetic Predisposition to Disease](#) [Graft vs Host Disease](#) [Head and Neck Neoplasms](#)
[Huntington Disease](#) [Huntington disease](#) [Lung Neoplasms](#) [Lupus Erythematosus, Systemic](#)
[Multiple Sclerosis](#) [Neoplasm Recurrence, Local](#) [Neoplasms, Second Primary](#)