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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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OPA1 Pre-design Chimera RNAi

Catalog # : H00004976-R10

規格 : [10 nmol] [20 nmol]

List All

Specification

Product Description: Homo sapiens optic atrophy 1 (autosomal dominant) (OPA1), nuclear gene encoding mitochondrial protein, transcript variant 2, mRNA.

Reactivity: Human

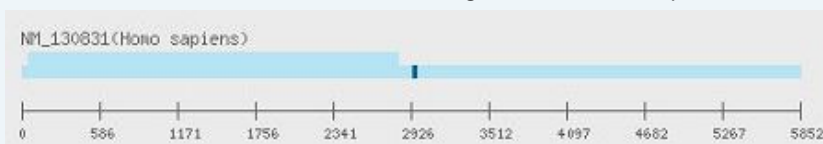
Supplied Product: DEPC water

Target Refseq: NM_130831

Target Region: 3' Untranslated Region (3'UTR)

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 accession number but sharing the same RNAi sequence.



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: [4976](#)

Gene Name: OPA1

Gene Alias: FLJ12460, KIAA0567, MGM1, NPG, NTG, largeG

Gene Description: optic atrophy 1 (autosomal dominant)

Omim ID: [125250](#), [165500](#), [605290](#), [606657](#)

Gene Ontology: [Hyperlink](#)

Gene Summary: This gene product is a nuclear-encoded mitochondrial protein with similarity to dynamin-related GTPases. It is a component of the mitochondrial network. Mutations in this gene have been associated with optic atrophy type 1, which is a dominantly inherited optic neuropathy resulting in progressive loss of visual acuity, leading in many cases to legal blindness. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]

Other Designations: OTTHUMP00000195065, mitochondrial dynamin-like GTPase, optic atrophy 1

Related Disease

[Genetic Predisposition to Disease](#) [Glaucoma](#) [Glaucoma](#) [Glaucoma, Open-Angle](#) [Leber hereditary optic neuropathy](#) [Low Tension Glaucoma](#) [Ocular Hypertension](#) [Optic Atrophies, Hereditary](#) [Optic Atrophy](#) [Optic Atrophy, Autosomal Dominant](#) [Optic Atrophy, Hereditary, Leber](#)

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