



# SZABO SCANDIC

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## Produktinformation



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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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## OPA1 Pre-design Chimera RNAi

Catalog # : H00004976-R11

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 3, mRNA.

**Reactivity:** Human

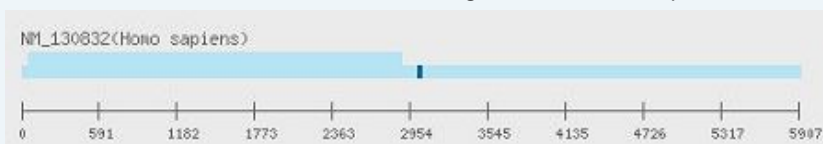
**Supplied Product:** DEPC water

**Target Refseq:** NM\_130832

**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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