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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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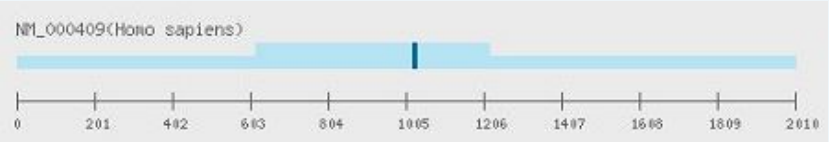
GUCA1A Validated Chimera RNAi

Catalog # : H00002978-R01V　　**規格 :** [10 nmol] [20 nmol]

List All

Specification

Product Description:	Homo sapiens guanylate cyclase activator 1A (retina) (GUCA1A), mRNA.
Reactivity:	Human
Supplied Product:	DEPC water
Target Refseq:	NM_000409
Storage Instruction:	Store at -20°C, do not exceed 4 - 5 freeze-thaw cycles to ensure product integrity.
Note:	Position of the Chimera RNAi.



Publication Reference

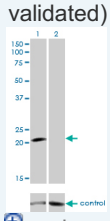
1. dsCheck: highly sensitive off-target search software for double-stranded RNA-mediated RNA interference.
   Naito Y, Yamada T, Matsumiya T, Ui-Tei K, Saigo K, Morishita S.Nucleic Acids Res. 2005 Jul 1;33(Web Server issue):W589-91.
2. Functional dissection of siRNA sequence by systematic DNA substitution: 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

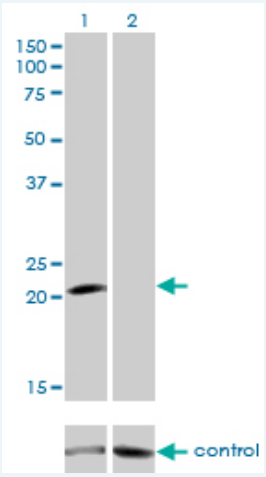
RNAi Knockdown (Antibody validated)

Application Image

RNAi Knockdown (Antibody validated)



enlarge



Western blot analysis of GUCA1A over-expressed 293 cell line, cotransfected with GUCA1A Validated Chimera RNAi (Cat # H00002978-R01V) (Lane 2) or non-transfected control (Lane 1). Blot probed with GUCA1A monoclonal antibody (M04), clone 2F7 (Cat # H00002978-M04). GAPDH (36.1 kDa) used as specificity and loading control.

Protocol Download

Gene Information

Entrez GeneID: 2978

Gene Name: GUCA1A

Gene Alias: COD3,GCAP,GCAP1,GUCA,GUCA1

Gene Description: guanylate cyclase activator 1A (retina)

Omim ID: 600364, 602093

Gene Ontology: Hyperlink

Gene Summary: This gene plays a role in the recovery of retinal photoreceptors from photobleaching. In the recovery phase, the phototransduction messeneger cGMP is replenished by retinal guanylyl cyclase-1 (GC1). GC1 is activated by decreasing Ca(2+) concentrations following photobleaching. The protein encoded by this gene, guanylyl cyclase activating protein 1 (GCAP1), mediates the sensitivity of GC1 to Ca(2+) concentrations. GCAP1 promotes activity of GC1 at low Ca(2+) concentrations and inhibits GC1 activity at high Ca(2+) concentrations. Mutations in this gene cause autosomal dominant cone dystrophy (COD3); a disease characterized by reduced visual acuity associated with progressive loss of color vision. Mutations in this gene prohibit the inactivation of RetGC1 at high Ca(2+) concentrations; causing the constitutive activation of RetGC1 and, presumably, increased cell death. This gene is expressed in retina and spermatagonia. [provided by RefSeq

Other Designations: OTTHUMP00000016397,OTTHUMP00000196466

Gene Pathway

Olfactory transduction

Related Disease

Retinal Degeneration Retinal Diseases