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Produktinformation

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

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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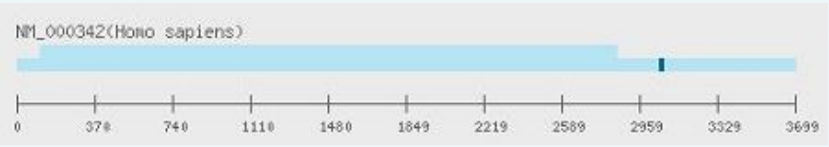
SLC4A1 Pre-design Chimera RNAi

Catalog # : H00006521-R01 **規格 :** [10 nmol] [20 nmol]

List All

Specification

Product Description:	Homo sapiens solute carrier family 4, anion exchanger, member 1 (erythrocyte membrane protein band 3, Diego blood group) (SLC4A1), mRNA.
Reactivity:	Human
Supplied Product:	DEPC water
Target Refseq:	NM_000342
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

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:	6521
Gene Name:	SLC4A1
Gene Alias:	AE1,BND3,CD233,DI,EMPB3,EPB3,FR,MGC116750,MGC116753,MGC

	126619,MGC126623,RTA1A,SW,WD,WD1,WR
Gene Description:	solute carrier family 4, anion exchanger, member 1 (erythrocyte membrane protein band 3, Diego blood group)
Omim ID:	109270, 110500, 112010, 112050, 601550, 601551, 602722
Gene Ontology:	Hyperlink
Gene Summary:	The protein encoded by this gene is part of the anion exchanger (AE) family and is expressed in the erythrocyte plasma membrane, where it functions as a chloride/bicarbonate exchanger involved in carbon dioxide transport from tissues to lungs. The protein comprises two domains that are structurally and functionally distinct. The N-terminal 40kDa domain is located in the cytoplasm and acts as an attachment site for the red cell skeleton by binding ankyrin. The glycosylated C-terminal membrane-associated domain contains 12-14 membrane spanning segments and carries out the stilbene disulphonate-sensitive exchange transport of anions. The cytoplasmic tail at the extreme C-terminus of the membrane domain binds carbonic anhydrase II. The encoded protein associates with the red cell membrane protein glycophorin A and this association promotes the correct folding and translocation of the exchanger. This protein is predominantly dimeric but forms tetramers in the presence of ankyrin. Many mutations in this gene are known in man, and these mutations can lead to two types of disease: destabilization of red cell membrane leading to hereditary spherocytosis, and defective kidney acid secretion leading to distal renal tubular acidosis. Other mutations that do not give rise to disease result in novel blood group antigens, which form the Diego blood group system. Southeast Asian ovalocytosis (SAO, Melanesian ovalocytosis) results from the heterozygous presence of a deletion in the encoded protein and is common in areas where Plasmodium falciparum malaria is endemic. One null mutation in this gene is known, resulting in very severe anemia and nephrocalcinosis. [provided by RefSeq
Other Designations:	Froese blood group,Swann blood group,Waldner blood group,Wright blood group,anion exchange protein 1,anion exchanger 1,erythrocyte membrane protein band 3,erythroid anion exchange protein,solute carrier family 4, anion exchanger, member 1

Related Disease

Anemia Anemia, Sickle Cell Anemia, sickle cell Cardiovascular Diseases
Diabetes Mellitus, Type 2 Edema Elliptocytosis, Hereditary
Genetic Predisposition to Disease Hyperparathyroidism, Secondary Hypertension
Malaria, Falciparum Priapism Spherocytosis, Hereditary Thalassemia Thalassemia