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### Zuschläge

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- Gefahrgutzuschlag
- Expressversand

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# ZNF219 siRNA (m): sc-155658

## BACKGROUND

Zinc-finger proteins contain DNA-binding domains and have a wide variety of functions, most of which encompass some form of transcriptional activation or repression. The majority of zinc-finger proteins contain a Krüppel-type DNA binding domain and a KRAB domain, which is thought to interact with KAP1, thereby recruiting histone modifying proteins. ZNF219 (zinc-finger protein 219) is a 722 amino acid protein belonging to the Krüppel C<sub>2</sub>H<sub>2</sub>-type zinc-finger protein family. It is ubiquitously expressed and localizes to the nucleus. Containing six C<sub>2</sub>H<sub>2</sub>-type zinc fingers which function to bind DNA, ZNF219 is thought to be involved in transcriptional regulation. Specifically, ZNF219 has been identified as a transcriptional repressor that downregulates the transcription of the HMG-14 promoter.

## REFERENCES

1. Payre, F. and Vincent, A. 1988. Finger proteins and DNA-specific recognition: distinct patterns of conserved amino acids suggest different evolutionary modes. *FEBS Lett.* 234: 245-250.
2. Thiesen, H.J. 1990. Multiple genes encoding zinc finger domains are expressed in human T cells. *New Biol.* 2: 363-374.
3. Rosenfeld, R. and Margalit, H. 1993. Zinc fingers: conserved properties that can distinguish between spurious and actual DNA-binding motifs. *J. Biomol. Struct. Dyn.* 11: 557-570.
4. Sakai, T., Toyoda, A., Hashimoto, K. and Maeda, H. 2000. Isolation and characterization of a novel zinc-finger gene, ZNF219, and mapping to the human chromosome 14q11 region. *DNA Res.* 7: 137-141.
5. Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 605036. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
6. Sakai, T., Hino, K., Wada, S. and Maeda, H. 2003. Identification of the DNA binding specificity of the human ZNF219 protein and its function as a transcriptional repressor. *DNA Res.* 10: 155-165.
7. Liu, J. and Stormo, G.D. 2008. Context-dependent DNA recognition code for C<sub>2</sub>H<sub>2</sub> zinc-finger transcription factors. *Bioinformatics* 24: 1850-1857.

## CHROMOSOMAL LOCATION

Genetic locus: Zfp219 (mouse) mapping to 14 C2.

## PRODUCT

ZNF219 siRNA (m) is a target-specific 19-25 nt siRNA designed to knock down gene expression. Each vial contains 3.3 nmol of lyophilized siRNA, sufficient for a 10 μM solution once resuspended using protocol below. Suitable for 50-100 transfections. Also see ZNF219 shRNA Plasmid (m): sc-155658-SH and ZNF219 shRNA (m) Lentiviral Particles: sc-155658-V as alternate gene silencing products.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.

## STORAGE AND RESUSPENSION

Store lyophilized siRNA duplex at -20° C with desiccant. Stable for at least one year from the date of shipment. Once resuspended, store at -20° C, avoid contact with RNAses and repeated freeze thaw cycles.

Resuspend lyophilized siRNA duplex in 330 μl of the RNase-free water provided. Resuspension of the siRNA duplex in 330 μl of RNase-free water makes a 10 μM solution in a 10 μM Tris-HCl, pH 8.0, 20 mM NaCl, 1 mM EDTA buffered solution.

## APPLICATIONS

ZNF219 siRNA (m) is recommended for the inhibition of ZNF219 expression in mouse cells.

## SUPPORT REAGENTS

For optimal siRNA transfection efficiency, Santa Cruz Biotechnology's siRNA Transfection Reagent: sc-29528 (0.3 ml), siRNA Transfection Medium: sc-36868 (20 ml) and siRNA Dilution Buffer: sc-29527 (1.5 ml) are recommended. Control siRNAs or Fluorescein Conjugated Control siRNAs are available as 10 μM in 66 μl. Each contain a scrambled sequence that will not lead to the specific degradation of any known cellular mRNA. Fluorescein Conjugated Control siRNAs include: sc-36869, sc-44239, sc-44240 and sc-44241. Control siRNAs include: sc-37007, sc-44230, sc-44231, sc-44232, sc-44233, sc-44234, sc-44235, sc-44236, sc-44237 and sc-44238.

## RT-PCR REAGENTS

Semi-quantitative RT-PCR may be performed to monitor ZNF219 gene expression knockdown using RT-PCR Primer: ZNF219 (m)-PR: sc-155658-PR (20 μl). Annealing temperature for the primers should be 55-60° C and the extension temperature should be 68-72° C.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.