Zfp799 siRNA (m): sc-140426



The Power to Question

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. Zfp799 (zinc finger protein 799), also known as 6030490I01Rik, is a 648 amino acid murine protein and may act as a transcriptional regulator. Zfp799 is encoded by a gene located on mouse chromosome 17 B1.

REFERENCES

- Okazaki, S., Tanase, S., Choudhury, B.K., Setoyama, K., Miura, R., Ogawa, M. and Setoyama, C. 1994. A novel nuclear protein with zinc fingers downregulated during early mammalian cell differentiation. J. Biol. Chem. 269: 6900-6907.
- Abrink, M., Aveskogh, M. and Hellman, L. 1995. Isolation of cDNA clones for 42 different Krüppel-related zinc finger proteins expressed in the human monoblast cell line U-937. DNA Cell Biol. 14: 125-136.
- Williams, A.J., Blacklow, S.C. and Collins, T. 1999. The zinc finger-associated SCAN box is a conserved oligomerization domain. Mol. Cell. Biol. 19: 8526-8535.
- Shannon, M., Hamilton, A.T., Gordon, L., Branscomb, E. and Stubbs, L. 2003.
 Differential expansion of zinc-finger transcription factor loci in homologous human and mouse gene clusters. Genome Res. 13: 1097-1110.
- Englbrecht, C.C., Schoof, H. and Böhm, S. 2004. Conservation, diversification and expansion of C₂H₂ zinc finger proteins in the *Arabidopsis thaliana* genome. BMC Genomics 5: 39.
- Alonso, M.B., Zoidl, G., Taveggia, C., Bosse, F., Zoidl, C., Rahman, M., Parmantier, E., Dean, C.H., Harris, B.S., Wrabetz, L., Müller, H.W., Jessen, K.R. and Mirsky, R. 2004. Identification and characterization of ZFP-57, a novel zinc finger transcription factor in the mammalian peripheral nervous system. J. Biol. Chem. 279: 25653-25664.

CHROMOSOMAL LOCATION

Genetic locus: Zfp799 (mouse) mapping to 17 B1.

PRODUCT

Zfp799 siRNA (m) is a pool of 3 target-specific 19-25 nt siRNAs 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 Zfp799 shRNA Plasmid (m): sc-140426-SH and Zfp799 shRNA (m) Lentiviral Particles: sc-140426-V as alternate gene silencing products.

For independent verification of Zfp799 (m) gene silencing results, we also provide the individual siRNA duplex components. Each is available as 3.3 nmol of lyophilized siRNA. These include: sc-140426A, sc-140426B and sc-140426C.

RESEARCH USE

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

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 μ l of the RNAse-free water provided. Resuspension of the siRNA duplex in 330 μ l of RNAse-free water makes a 10 μ M solution in a 10 μ M Tris-HCl, pH 8.0, 20 mM NaCl, 1 mM EDTA buffered solution.

APPLICATIONS

Zfp799 siRNA (m) is recommended for the inhibition of Zfp799 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 Zfp799 gene expression knockdown using RT-PCR Primer: Zfp799 (m)-PR: sc-140426-PR (20 μ I). Annealing temperature for the primers should be 55-60° C and the extension temperature should be 68-72° C.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.

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