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# ZFP3 siRNA (m): sc-155544

## 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. ZFP3 (zinc finger protein 3), also known as Zfp-3 or ZNF752, is a 502 amino acid zinc-finger protein that belongs to the Kruppel C<sub>2</sub>H<sub>2</sub>-type zinc finger family. Localized to the nucleus, ZFP3 contains 13 C<sub>2</sub>H<sub>2</sub>-type zinc fingers and is thought to play a role in transcriptional regulation.

## REFERENCES

1. Ashworth, A., Williams, B.P., Buchberg, A.M., Goodfellow, P.N., Solomon, E., Potter, J. and Willison, K.R. 1989. Chromosomal localization of zinc finger protein genes in man and mouse. *Genomics* 4: 323-327.
2. Rousseau-Merck, M.F., Huebner, K., Berger, R. and Thiesen, H.J. 1991. Chromosomal localization of two human zinc finger protein genes, ZNF24 (KOX17) and ZNF29 (KOX26), to 18q12 and 17p13-p12, respectively. *Genomics* 9: 154-161.
3. McGinnis, J.F., Austin, B., Klisak, I., Heinzmann, C., Kojis, T., Sparkes, R.S., Bateman, J.B. and Lerious, V. 1995. Chromosomal assignment of the human gene for the cancer-associated retinopathy protein (recoverin) to chromosome 17p13.1. *J. Neurosci. Res.* 40: 165-168.
4. Online Mendelian Inheritance in Man, OMIM<sup>™</sup>. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 194480. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>

## CHROMOSOMAL LOCATION

Genetic locus: Zfp3 (mouse) mapping to 11 B3.

## PRODUCT

ZFP3 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  $\mu$ M solution once resuspended using protocol below. Suitable for 50-100 transfections. Also see ZFP3 shRNA Plasmid (m): sc-155544-SH and ZFP3 shRNA (m) Lentiviral Particles: sc-155544-V as alternate gene silencing 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  $\mu$ l of the RNase-free water provided. Resuspension of the siRNA duplex in 330  $\mu$ l of RNase-free water makes a 10  $\mu$ M solution in a 10  $\mu$ M Tris-HCl, pH 8.0, 20 mM NaCl, 1 mM EDTA buffered solution.

## PROTOCOLS

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

## APPLICATIONS

ZFP3 siRNA (m) is recommended for the inhibition of ZFP3 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  $\mu$ M in 66  $\mu$ l. 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 ZFP3 gene expression knockdown using RT-PCR Primer: ZFP3 (m)-PR: sc-155544-PR (20  $\mu$ l). 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.