# ZFP3 siRNA (h): sc-93869



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. 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  $C_2H_2$ -type zinc finger family. Localized to the nucleus, ZFP3 contains 13  $C_2H_2$ -type zinc fingers and is thought to play a role in transcriptional regulation.

# **REFERENCES**

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- 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.
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# **CHROMOSOMAL LOCATION**

Genetic locus: ZFP3 (human) mapping to 17p13.2.

# **PRODUCT**

ZFP3 siRNA (h) 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  $\mu\text{M}$  solution once resuspended using protocol below. Suitable for 50-100 transfections. Also see ZFP3 shRNA Plasmid (h): sc-93869-SH and ZFP3 shRNA (h) Lentiviral Particles: sc-93869-V as alternate gene silencing products.

For independent verification of ZFP3 (h) gene silencing results, we also provide the individual siRNA duplex components. Each is available as 3.3 nmol of lyophilized siRNA. These include: sc-93869A, sc-93869B and sc-93869C.

# 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.

#### **APPLICATIONS**

ZZFP3 siRNA (h) is recommended for the inhibition of ZFP3 expression in human 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 ZFP3 gene expression knockdown using RT-PCR Primer: ZFP3 (h)-PR: sc-93869-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.

# **PROTOCOLS**

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

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