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# ZNF384 siRNA (m): sc-155703

## BACKGROUND

ZNF384 (zinc finger protein 384), also known as CAGH1 (CAG repeat protein 1), CIZ (CAS-interacting zinc finger protein), NMP4 (nuclear matrix transcription factor 4) or TNRC1 (trinucleotide repeat-containing gene 1 protein), is a 577 amino acid nuclear protein that interacts with p130<sup>Cas</sup>. Existing as three alternatively spliced isoforms, ZNF384 contains eight C<sub>2</sub>H<sub>2</sub>-type zinc fingers and belongs to the Krüppel C<sub>2</sub>H<sub>2</sub>-type zinc-finger protein family. ZNF384 acts as a transcription factor that binds the consensus DNA sequence [GC]AAAAA, and seems to bind and regulate the promoters of MMP-1, MMP-3, MMP-7 and COL1A1. The gene that encodes ZNF384 consists of more than 23,000 bases and maps to human chromosome 12p13.31.

## REFERENCES

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## PROTOCOLS

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

## CHROMOSOMAL LOCATION

Genetic locus: Zfp384 (mouse) mapping to 6 F2.

## PRODUCT

ZNF384 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 ZNF384 shRNA Plasmid (m): sc-155703-SH and ZNF384 shRNA (m) Lentiviral Particles: sc-155703-V as alternate gene silencing products.

For independent verification of ZNF384 (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-155703A, sc-155703B and sc-155703C.

## 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

ZNF384 siRNA (m) is recommended for the inhibition of ZNF384 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 ZNF384 gene expression knockdown using RT-PCR Primer: ZNF384 (m)-PR: sc-155703-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.