# CELF3 siRNA (h): sc-88405



The Power to Question

#### **BACKGROUND**

CELF3 (CUG-BP- and ETR-3-like factor 3), also known as TNRC4 (trinucleotide repeat containing 4), CAGH4 (CAG repeat protein 4), ETR-1 (ELAV-type RNA-binding protein 1), ERDA4 (expanded repeat domain protein CAG/CTG 4) or BRUNOL1 (Bruno-like protein 1), is an RNA-binding protein that belongs to the CELF/BRUNOL family of proteins. Expressed specifically in brain, CELF3 contains three RRM (RNA recognition motif) domains (two at the N-terminus and one at the C-terminus) and localizes to the nucleus and the cytoplasm. As is characteristic of the CELF/BRUNOL family, CELF3 binds specifically to muscle-specific splicing enhancer (MSE)-containing RNAs and is believed to play a role in the regulation of pre-mRNA alternative splicing. In addition, CELF3 may participate in translation and mRNA editing. Due to alternative splicing events, CELF3 exists as three isoforms.

# **REFERENCES**

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## CHROMOSOMAL LOCATION

Genetic locus: CELF3 (human) mapping to 1q21.3.

## **PRODUCT**

CELF3 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 CELF3 shRNA Plasmid (h): sc-88405-SH and CELF3 shRNA (h) Lentiviral Particles: sc-88405-V as alternate gene silencing products.

For independent verification of CELF3 (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-88405A, sc-88405B and sc-88405C.

#### 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**

CELF3 siRNA (h) is recommended for the inhibition of CELF3 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 CELF3 gene expression knockdown using RT-PCR Primer: CELF3 (h)-PR: sc-88405-PR (20  $\mu$ I). 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.

Santa Cruz Biotechnology, Inc. 1.800.457.3801 831.457.3801 Fax 831.457.3801 Europe +00800 4573 8000 49 6221 4503 0 www.scbt.com