

# Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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# Lieferung & Zahlungsart

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# RP58 siRNA (m): sc-153094



The Power to Question

### **BACKGROUND**

The BTB (broad-complex, tramtrack and bric a brac) domain, also known as the POZ (POxvirus and zinc finger) domain, is an N-terminal homodimerization domain that contains multiple copies of kelch repeats and/or  $C_2H_2$ -type zinc fingers. Proteins that contain BTB domains are thought to be involved in transcriptional regulation via control of chromatin structure and function. RP58, also known as ZNF238 (zinc finger protein 238), TAZ1 or ZBTB18, is a 522 amino acid protein that localizes to the nucleus and contains one BTB (POZ) domain and four  $C_2H_2$ -type zinc fingers. Expressed in brain, testis, heart, pancreas, skeletal muscle and lymphoid tissue, RP58 interacts with Dnmt3a and functions as a sequence-specific DNA-binding protein that exhibits transcriptional repression activity and is thought to play a role in chromosomal organization within the nucleus. RP58 exists as two alternatively spliced isoforms and is subject to DNA damage-dependent phosphorylation, probably by ATM or ATR.

### **REFERENCES**

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## **CHROMOSOMAL LOCATION**

Genetic locus: Zfp238 (mouse) mapping to 1 H4.

# **RESEARCH USE**

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

#### **PRODUCT**

RP58 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  $\mu$ M solution once resuspended using protocol below. Suitable for 50-100 transfections. Also see RP58 shRNA Plasmid (m): sc-153094-SH and RP58 shRNA (m) Lentiviral Particles: sc-153094-V as alternate gene silencing products.

For independent verification of RP58 (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-153094A, sc-153094B and sc-153094C.

### 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**

RP58 siRNA (m) is recommended for the inhibition of RP58 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 RP58 gene expression knockdown using RT-PCR Primer: RP58 (m)-PR: sc-153094-PR (20  $\mu$ l). 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.