

## Produktinformation



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# SURF-2 siRNA (m): sc-153934



The Power to Question

#### **BACKGROUND**

SURF-2 (surfeit locus protein 2) is a 256 amino acid protein that belongs to the SURF2 family and interacts with  $\beta\text{-}1,4\text{-}Gal\text{-}T3$ , uPAR and WDR20. The gene that encodes SURF-2 is located in the surfeit gene cluster, which is a group of very tightly linked genes that do not share sequence similarity. The SURF-2 gene maps to human chromosome 9q34.2 and shares a bidirectional promoter with SURF1, which is located on the opposite strand. The intergenic region between the SURF-1 and SURF-2 genes is expected to have bidirectional promoter activity, as is found in mouse. Although this region lacks a TATA box, it is GC-rich. Housing over 900 genes, human chromosome 9 comprises nearly 4% of the human genome. Hereditary hemorrhagic telangiectasia, which is characterized by harmful vascular defects, and Familial dysautonomia, are both associated with chromosome 9.

#### **REFERENCES**

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#### **CHROMOSOMAL LOCATION**

Genetic locus: Surf2 (mouse) mapping to 2 A3.

#### **PROTOCOLS**

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

#### **PRODUCT**

SURF-2 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 SURF-2 shRNA Plasmid (m): sc-153934-SH and SURF-2 shRNA (m) Lentiviral Particles: sc-153934-V as alternate gene silencing products.

For independent verification of SURF-2 (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-153934A, sc-153934B and sc-153934C.

#### 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**

SURF-2 siRNA (m) is recommended for the inhibition of SURF-2 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 SURF-2 gene expression knockdown using RT-PCR Primer: SURF-2 (m)-PR: sc-153934-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.

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