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SANTA CRUZ BIOTECHNOLOGY, INC.

# SNURF siRNA (m): sc-153662

## BACKGROUND

SNURF (SNRPN upstream reading frame protein) is a 71 amino acid nuclear protein that is produced along with Sm N (Small nuclear ribonucleoprotein-associated protein N) from a bicistronic transcript. While polycistronic transcripts are common in prokaryotes, they are rare in eukaryotes. The SNURF and Sm N genes are located within a region of paternal human chromosome 15 that is associated with Prader-Willi syndrome, a rare genetic disorder that is characterized by short stature, behavioral issues, hypotonia, hypogonadism, obesity and mild mental retardation. The SNURF-Sm N transcript is translated in normal tissues and cell lines, but is not translated in individuals with Prader-Willi syndrome. SNURF is expressed in skeletal muscle, brain, lung, kidney, liver, heart, pancreas and lymphoblasts.

## REFERENCES


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2. Tsai, T.F., Jiang, Y.H., Bressler, J., Armstrong, D. and Beaudet, A.L. 1999. Paternal deletion from Snrpn to Ube3a in the mouse causes hypotonia, growth retardation and partial lethality and provides evidence for a gene contributing to Prader-Willi syndrome. Hum. Mol. Genet. 8: 1357-1364.
3. Gray, T.A., Saitoh, S. and Nicholls, R.D. 1999. An imprinted, mammalian bicistronic transcript encodes two independent proteins. Proc. Natl. Acad. Sci. USA 96: 5616-5621.
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5. Mapendano, C.K., Kishino, T., Miyazaki, K., Kondo, S., Yoshiura, K., Hishikawa, Y., Koji, T., Niikawa, N. and Ohta, T. 2006. Expression of the Snurf-Snrpn IC transcript in the oocyte and its putative role in the imprinting establishment of the mouse 7C imprinting domain. J. Hum. Genet. 51: 236-243.
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## CHROMOSOMAL LOCATION

Genetic locus: Snurf (mouse) mapping to 7 C.

## PRODUCT

SNURF siRNA (m) is a target-specific 19-25 nt siRNA 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 SNURF shRNA Plasmid (m): sc-153662-SH and SNURF shRNA (m) Lentiviral Particles: sc-153662-V as alternate gene silencing products.

## RESEARCH USE

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

## 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

SNURF siRNA (m) is recommended for the inhibition of SNURF 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 SNURF gene expression knockdown using RT-PCR Primer: SNURF (m)-PR: sc-153662-PR (20 µl). 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.