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# SDF-2L1 siRNA (m): sc-153287

## BACKGROUND

SDF-2L1 (stromal cell-derived factor 2-like 1), also known as PWP1-interacting protein 8, is a 221 amino acid protein that localizes to the lumen of the endoplasmic reticulum (ER) and contains three MIR domains. Expressed ubiquitously with highest expression in testis and moderate expression in colon, spleen, pancreas, prostate and small intestine, SDF-2L1 is thought to play a role in the unfolded protein response within the ER and may be involved in the pathogenesis of hepatocellular carcinoma. The gene encoding SDF-2L1 maps to human chromosome 22, which houses over 500 genes and is the second smallest human chromosome. Mutations in several of the genes that map to chromosome 22 are involved in the development of Phelan-McDermid syndrome, Neurofibromatosis type 2, autism and schizophrenia.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: Sdf2l1 (mouse) mapping to 16 A3.

## RESEARCH USE

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

## PROTOCOLS

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

## PRODUCT

SDF-2L1 siRNA (m) is a pool of 2 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 SDF-2L1 shRNA "Plasmid (m): sc-153287-SH and SDF-2L1 shRNA (m) Lentiviral Particles: sc-153287-V as alternate gene silencing products.

For independent verification of SDF-2L1 (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-153287A and sc-153287B.

## 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

SDF-2L1 siRNA (m) is recommended for the inhibition of SDF-2L1 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  $\mu$ M in 66  $\mu$ l. 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 SDF-2L1 gene expression knockdown using RT-PCR Primer: SDF-2L1 (m)-PR: sc-153287-PR (20  $\mu$ l). Annealing temperature for the primers should be 55-60° C and the extension temperature should be 68-72° C.