

SFT2D1 siRNA (m): sc-153407

BACKGROUND

SFT2D1 (SFT2 domain containing 1), also known as pRGR1 or vesicle transport protein SFT2A, is a 195 amino acid multi-pass membrane protein belonging to the SFT2 family. It is suggested that SFT2D1 may be involved in fusion of retrograde transport vesicles, which are derived from an endocytic compartment within the Golgi complex. SFT2D1 is conserved in chimpanzee, canine, bovine, mouse, rat, chicken, zebrafish, *Drosophila melanogaster* and *Caenorhabditis elegans*, and is encoded by a gene located on human chromosome 6q27. Chromosome 6 contains 170 million base pairs and comprises nearly 6% of the human genome. Porphyria cutanea tarda, Parkinson's disease, Stickler syndrome and a susceptibility to bipolar disorder are all associated with genes that map to chromosome 6.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Sft2d1 (mouse) mapping to 17 A1.

PRODUCT

SFT2D1 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 μ M solution once resuspended using protocol below. Suitable for 50-100 transfections. Also see SFT2D1 shRNA Plasmid (m): sc-153407-SH and SFT2D1 shRNA (m) Lentiviral Particles: sc-153407-V as alternate gene silencing products.

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 μ l of the RNase-free water provided. Resuspension of the siRNA duplex in 330 μ l of RNase-free water makes a 10 μ M solution in a 10 μ M Tris-HCl, pH 8.0, 20 mM NaCl, 1 mM EDTA buffered solution.

APPLICATIONS

SFT2D1 siRNA (m) is recommended for the inhibition of SFT2D1 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 μ M in 66 μ 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 SFT2D1 gene expression knockdown using RT-PCR Primer: SFT2D1 (m)-PR: sc-153407-PR (20 μ 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.

PROTOCOLS

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