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▶ RBPMS2 siRNA (m): sc-152765

BACKGROUND

RBPMS2 (RNA-binding protein with multiple splicing 2) is a 209 amino acid protein that is involved in nucleic acid and nucleotide binding. The RBPMS2 protein contains one RRM (RNA recognition motif) domain. The RBPMS2 gene is conserved in chimpanzee, canine, bovine, mouse, rat, chicken, zebrafish and mosquito, and maps to human chromosome 15q22.2. Encoding more than 700 genes, chromosome 15 is made up of approximately 106 million base pairs and is about 3% of the human genome. Tay-Sachs disease is a lethal disorder associated with mutations of the HEXA gene, which is located on chromosome 15. Marfan syndrome is associated with chromosome 15 through the FBN1 gene.

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CHROMOSOMAL LOCATION

Genetic locus: *Rbpms2* (mouse) mapping to 9 C.

PRODUCT

RBPMS2 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 RBPMS2 shRNA Plasmid (m): sc-152765-SH and RBPMS2 shRNA (m) Lentiviral Particles: sc-152765-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

RBPMS2 siRNA (m) is recommended for the inhibition of RBPMS2 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 RBPMS2 gene expression knockdown using RT-PCR Primer: RBPMS2 (m)-PR: sc-152765-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.