1810009A15Rik siRNA (m): sc-108541



The Power to Question

BACKGROUND

1810009A15Rik is a 103 amino acid uncharacterized murine protein that is encoded by a gene located on mouse chromosome 19. Many of the mouse homologues of genes on chromosome 19 are located on human chromosome 10 and 11. Spanning nearly 135 million base pairs, human chromosome 10 makes up approximately 4.5% of the total DNA in cells and encodes nearly 1,200 genes. Several protein-coding genes, including those that encode for chemokines, cadherins, excision repair proteins, early growth response factors (Egrs) and fibroblast growth receptors (FGFRs), are located on chromosome 10. Human chromosome 11 contains approximately 135 million base pairs, 1,400 genes, makes up around 4% of human genomic DNA and is considered a gene and disease association dense chromosome.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: 1810009A15Rik (mouse) mapping to 19 A.

PRODUCT

1810009A15Rik 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 1810009A15Rik shRNA Plasmid (m): sc-108541-SH and 1810009A15Rik shRNA (m) Lentiviral Particles: sc-108541-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 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

1810009A15Rik siRNA (m) is recommended for the inhibition of 1810009A15Rik 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 1810009A15Rik gene expression knockdown using RT-PCR Primer: 1810009A15Rik (m)-PR: sc-108541-PR (20 μ l). 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.

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