SANTA CRUZ BIOTECHNOLOGY, INC.

1810030J14Rik siRNA (m): sc-108564

BACKGROUND

1810030J14Rik, also known as Mptx (mucosal pentraxin) or AV054416, is a 219 amino acid secreted protein that belongs to the pentaxin family. Proteins in the pentaxin family typically consist of five non-covalently bound subunits with a discoid arrangement, and are typically involved in acute immunological responses. Containing one pentaxin domain, 1810030J14Rik exists as a homopentamer that can bind two calcium ions per subunit. The gene encoding 1810030J14Rik maps to mouse chromosome 1 H3. There is no known human homolog to 1810030J14Rik.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: 1810030J14Rik (mouse) mapping to 1 H3.

PRODUCT

1810030J14Rik 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 1810030J14Rik shRNA Plasmid (m): sc-108564-SH and 1810030J14Rik shRNA (m) Lentiviral Particles: sc-108564-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 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

1810030J14Rik siRNA (m) is recommended for the inhibition of 1810030J14Rik 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 1810030J14Rik gene expression knockdown using RT-PCR Primer: 1810030J14Rik (m)-PR: sc-108564-PR (20 µl). 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.