

4921501E09Rik siRNA (m): sc-108981

BACKGROUND

Members of the PHD finger protein family function as transcriptional regulators that affect gene expression by modulating chromatin structure. 4921501E09Rik, also known as PHF8 (PHD finger protein 8-like), is a 908 amino acid murine protein that consists of a PHD-type zinc finger domain and a JmjC domain. The JmjC domain belongs to a domain family that is part of the cupin metalloenzyme superfamily. Proteins containing JmjC domain are suggested to be involved in chromatin remodelling. 4921501E09Rik is encoded by a gene located on mouse chromosome 17 B1.

REFERENCES

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3. Clissold, P.M. and Ponting, C.P. 2001. JmjC: cupin metalloenzyme-like domains in jumonji, hairless and phospholipase A2 β . *Trends Biochem. Sci.* 26: 7-9.
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6. Tsukada, Y., Fang, J., Erdjument-Bromage, H., Warren, M.E., Borchers, C.H., Tempst, P. and Zhang, Y. 2006. Histone demethylation by a family of JmjC domain-containing proteins. *Nature* 439: 811-816.

CHROMOSOMAL LOCATION

Genetic locus: 4921501E09Rik (mouse) mapping to 17 B1.

PRODUCT

4921501E09Rik 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 4921501E09Rik shRNA Plasmid (m): sc-108981-SH and 4921501E09Rik shRNA (m) Lentiviral Particles: sc-108981-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

4921501E09Rik siRNA (m) is recommended for the inhibition of 4921501E09Rik 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 4921501E09Rik gene expression knockdown using RT-PCR Primer: 4921501E09Rik (m)-PR: sc-108981-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.