SANTA CRUZ BIOTECHNOLOGY, INC.

4930595M18Rik siRNA (m): sc-140214

BACKGROUND

4930595M18Rik is a 829 amino acid murine protein that consists a RING-type zinc finger motif. The RING-type zinc finger motif is a specialized type of Zn-finger of 40 to 60 residues and is present in a number of viral and eukaryotic proteins. RING-type zinc finger motif is made of a conserved cysteine-rich domain that is able to bind two zinc atoms. Proteins that contain the RING-type zinc finger conserved motif are generally involved in the ubiquitination pathway of protein degradation. 4930595M18Rik is encoded by a gene located on mouse chromosome X B.

REFERENCES

1. Joazeiro, C.A. and Weissman, A.M. 2000. RING finger proteins: mediators of ubiquitin ligase activity. Cell 102: 549-552.
2. Tuckfield, A., Clouston, D.R., Wilanowski, T.M., Zhao, L.L., Cunningham, J.M. and Jane, S.M. 2002. Binding of the RING polycomb proteins to specific target genes in complex with the grainyhead-like family of developmental transcription factors. Mol. Cell. Biol. 22: 1936-1946.
3. Moore, R. and Boyd, L. 2004. Analysis of RING finger genes required for embryogenesis in *C. elegans*. Genesis 38: 1-12.
4. Yang, Y., Lorick, K.L., Jensen, J.P. and Weissman, A.M. 2005. Expression and evaluation of RING finger proteins. Methods Enzymol. 398: 103-112.
5. SWISS-PROT/TrEMBL (Q86SE9). World Wide Web URL: http://www.expasy.ch/sprot/sprot-top.html

CHROMOSOMAL LOCATION

Genetic locus: 4930595M18Rik (mouse) mapping to X B.

PRODUCT

4930595M18Rik 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 4930595M18Rik shRNA Plasmid (m): sc-140214-SH and 4930595M18Rik shRNA (m) Lentiviral Particles: sc-140214-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.

PROTOCOLS

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

APPLICATIONS

4930595M18Rik siRNA (m) is recommended for the inhibition of 4930595M18Rik 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 4930595M18Rik gene expression knockdown using RT-PCR Primer: 4930595M18Rik (m)-PR: sc-140214-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.