



Rlf siRNA (m): sc-155963

BACKGROUND

Rlf (rearranged L-Myc fusion) is a 1,914 amino acid protein that belongs to the Krüppel C₂H₂-type zinc-finger protein family. Widely expressed in fetal and adult tissues, Rlf may be involved in transcriptional regulation. The Rlf protein contains 14 widely spaced C₂H₂-type zinc fingers and is related to the Zn-15 transcription factor. The zinc fingers are not contained in the 79 amino acid N-terminal region of Rlf involved in the Rlf-L-Myc fusions, and the transforming ability of the Rlf-L-Myc and the normal L-Myc proteins is indistinguishable. Rlf and L-Myc are both located on chromosome 1 and separated by less than 800 kb. In some small cell lung carcinoma (SCLC) cell lines, there is an intra-chromosomal rearrangement at 1p32 fusing the first exon of the Rlf gene with L-Myc. The Rlf gene is conserved in chimpanzee, canine, bovine, mouse, rat, chicken and zebrafish, and maps to human chromosome 1p34.2.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Rlf (mouse) mapping to 4 D2.2.

PRODUCT

Rlf siRNA (m) is a pool of 2 target-specific 19-25 nt siRNAs 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 Rlf shRNA Plasmid (m): sc-155963-SH and Rlf shRNA (m) Lentiviral Particles: sc-155963-V as alternate gene silencing products.

For independent verification of Rlf (m) gene silencing results, we also provide the individual siRNA duplex components. Each is available as 3.3 nmol of lyophilized siRNA. These include: sc-155963A and sc-155963B.

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

Rlf siRNA (m) is recommended for the inhibition of Rlf 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 Rlf gene expression knockdown using RT-PCR Primer: Rlf (m)-PR: sc-155963-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.