

TRIM30A siRNA (m): sc-154645

BACKGROUND

The tripartite motif (TRIM) family of proteins are characterized by a conserved TRIM domain that includes a coiled-coil region, a B-box type zinc finger, one RING-finger and three zinc-binding domains. TRIM30 (tripartite motif-containing 30), also known as Rpt1, is a 496 amino acid mouse protein that, characteristic of TRIM proteins, contains one RING-type zinc finger, one B-box type zinc finger and one SPRY domain. Localized to the nucleus, TRIM30 functions as a *trans*-acting factor that competes with enhancer and/or activator sequences and mediates the expression pattern of both HIV-1 and IL-2R α . TRIM30A, which is encoded by a gene that localizes to mouse chromosome 7, is expressed as two alternatively spliced isoforms, designated α and β .

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Trim30a (mouse) mapping to 7 E3.

PRODUCT

TRIM30A siRNA (m) is a pool of 3 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 TRIM30A shRNA Plasmid (m): sc-154645-SH and TRIM30A shRNA (m) Lentiviral Particles: sc-154645-V as alternate gene silencing products.

For independent verification of TRIM30A (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-154645A, sc-154645B and sc-154645C.

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

TRIM30A siRNA (m) is recommended for the inhibition of TRIM30A 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 TRIM30A gene expression knockdown using RT-PCR Primer: TRIM30A (m)-PR: sc-154645-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.