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SANTA CRUZ BIOTECHNOLOGY, INC.

TNRC18 siRNA (m): sc-154545

BACKGROUND

TNRC18 (trinucleotide repeat-containing gene 18 protein), also known as TNRC18A, CAGL79 (long CAG trinucleotide repeat-containing gene 79 protein) or KIAA1856, is a 2,968 amino acid protein that contains one BAH domain. The BAH domain has been identified in a number of proteins involved in gene transcription and repression and is likely to be involved in protein-protein interactions. Existing as three alternatively spliced isoforms, TNRC18 is encoded by a gene that maps to human chromosome 7p22.1 and mouse chromosome 5 G2. Chromosome 7 is about 158 milllion bases long, encodes over 1,000 genes and makes up about 5% of the human genome. Chromosome 7 has been linked to osteogenesis imperfecta, Pendred syndrome, lissencephaly, citrullinemia and Shwachman-Diamond syndrome. The deletion of a portion of the q arm of chromosome 7 is associated with Williams-Beuren syndrome, a condition characterized by mild mental retardation, an unusual comfort and friendliness with strangers and an elfin appearance.

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CHROMOSOMAL LOCATION

Genetic locus: Tnrc18 (mouse) mapping to 5 G2.

PRODUCT

TNRC18 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 µM solution once resuspended using protocol below. Suitable for 50-100 transfections. Also see TNRC18 shRNA Plasmid (m): sc-154545-SH and TNRC18 shRNA (m) Lentiviral Particles: sc-154545-V as alternate gene silencing products.

For independent verification of TNRC18 (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-154545A and sc-154545B.

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

TNRC18 siRNA (m) is recommended for the inhibition of TNRC18 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 TNRC18 gene expression knockdown using RT-PCR Primer: TNRC18 (m)-PR: sc-154545-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.