

TRAPPC8 siRNA (m): sc-142771

BACKGROUND

TRS85, also designated Gsg1 or HsT2706, is a 1,435 amino acid Golgi apparatus protein belonging to the TRS85 family. A component of the multisubunit TRAPP (transport protein particle) complex, a well-characterized multisubunit tethering complex that acts as a GTP exchange factor, TRS85 may play a role in vesicular transport from endoplasmic reticulum to Golgi apparatus. In *Saccharomyces cerevisiae*, TRS85 is required for nonspecific autophagy, pexophagy and the cytoplasm to vacuole targeting (Cvt) pathway. Existing as 2 alternatively spliced isoforms, TRS85 is encoded by a gene located on human chromosome 18, which houses over 300 protein-coding genes and contains nearly 76 million bases. There are a variety of diseases associated with defects in chromosome 18-localized genes, some of which include Trisomy 18 (also known as Edwards syndrome), Niemann-Pick disease, hereditary hemorrhagic telangiectasia, erythropoietic protoporphyria and follicular lymphomas.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Trappc8 (mouse) mapping to 18 A2.

PROTOCOLS

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

PRODUCT

TRAPPC8 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 TRAPPC8 shRNA Plasmid (m): sc-142771-SH and TRAPPC8 shRNA (m) Lentiviral Particles: sc-142771-V as alternate gene silencing products.

For independent verification of TRAPPC8 (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-142771A, sc-142771B and sc-142771C.

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

TRAPPC8 siRNA (m) is recommended for the inhibition of TRAPPC8 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 TRAPPC8 gene expression knockdown using RT-PCR Primer: TRAPPC8 (m)-PR: sc-142771-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.