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# TRAPPC6A siRNA (m): sc-154589

## BACKGROUND

TRAPPC6A (trafficking protein particle complex 6A), also known as TRS33 or HSPC289, is a 159 amino acid protein that localizes to the Golgi apparatus and endoplasmic reticulum. Belonging to the TRAPP small subunits family and the BET3 subfamily, TRAPPC6A may play a role in vesicular transport during the biogenesis of melanosomes. TRAPPC6A is part of the multisubunit TRAPP tethering complex, which acts as a GTP exchange factor. TRAPPC6A exists as a heterodimer with TRAPPC3 and undergoes alternative splicing to produce two isoforms. TRAPPC6A is encoded by a gene located on human chromosome 19, which consists of approximately 63 million bases and makes up over 2% of human genomic DNA. Chromosome 19 is recognized for having the greatest gene density of the human chromosomes. It is the genetic home for a number of immunoglobulin (Ig) superfamily members, including the killer cell and leukocyte Ig-like receptors, a variety of ICAMs, the CEACAM and PSG families and Fc receptors (Fc Rs).

## REFERENCES

1. Jones, S., et al. 2000. The TRAPP complex is a nucleotide exchanger for Ypt1 and Ypt31/32. *Mol. Biol. Cell* 11: 4403-4411.
2. Gwynn, B., et al. 2006. A mouse TRAPP-related protein is involved in pigmentation. *Genomics* 88: 196-203.
3. Kokkinakis, D.M., et al. 2006. Mitotic arrest, apoptosis, and sensitization to chemotherapy of melanomas by methionine deprivation stress. *Mol. Cancer Res.* 4: 575-589.
4. Ossandon, F.J., et al. 2008. In silico analysis of gastric carcinoma serial analysis of gene expression libraries reveals different profiles associated with ethnicity. *Mol. Cancer* 7: 22.
5. Kwei, K.A., et al. 2008. Genomic profiling identifies GATA6 as a candidate oncogene amplified in pancreaticobiliary cancer. *PLoS Genet.* 4: e1000081.
6. Sacher, M., et al. 2008. The TRAPP complex: insights into its architecture and function. *Traffic* 9: 2032-2042.

## CHROMOSOMAL LOCATION

Genetic locus: *Trappc6a* (mouse) mapping to 7 A3.

## PRODUCT

TRAPPC6A 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  $\mu$ M solution once resuspended using protocol below. Suitable for 50-100 transfections. Also see TRAPPC6A shRNA Plasmid (m): sc-154589-SH and TRAPPC6A shRNA (m) Lentiviral Particles: sc-154589-V as alternate gene silencing products.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support 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  $\mu$ l of the RNase-free water provided. Resuspension of the siRNA duplex in 330  $\mu$ l of RNase-free water makes a 10  $\mu$ M solution in a 10  $\mu$ M Tris-HCl, pH 8.0, 20 mM NaCl, 1 mM EDTA buffered solution.

## APPLICATIONS

TRAPPC6A siRNA (m) is recommended for the inhibition of TRAPPC6A 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  $\mu$ M in 66  $\mu$ 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 TRAPPC6A gene expression knockdown using RT-PCR Primer: TRAPPC6A (m)-PR: sc-154589-PR (20  $\mu$ l). Annealing temperature for the primers should be 55-60° C and the extension temperature should be 68-72° C.