SANTA CRUZ BIOTECHNOLOGY, INC.

# SLC35C2 siRNA (h): sc-76509

## BACKGROUND

SLC35C2 (solute carrier family 35, member C2), also known as C20orf5, OVCOV1 or CGI-15, is a 365 amino acid multi-pass membrane protein that belongs to the TPT transporter family and exists as multiple alternatively spliced isoforms. Expressed ubiquitously and functionally induced in hypoxic trophoblast cells, SLC35C2 plays a role in the cellular response to tissue hypoxia and is thought to be involved in the pathogenesis of ovarian cancer. The gene encoding SLC35C2 maps to human chromosome 20, which houses over 600 genes some of which are associated with Creutzfeldt-Jakob disease, amyotrophic lateral sclerosis, spinal muscular atrophy, RING chromosome 20 epilepsy syndrome and Alagille syndrome. Additionally, chromosome 20 contains a region with numerous genes which are thought important for seminal production and may be potential targets for male contraception.

## REFERENCES


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## CHROMOSOMAL LOCATION

Genetic locus: SLC35C2 (human) mapping to 20q13.12.

## PRODUCT

SLC35C2 siRNA (h) 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 µM solution once resuspended using protocol below. Suitable for 50-100 transfections. Also see SLC35C2 shRNA Plasmid (h): sc-76509-SH and SLC35C2 shRNA (h) Lentiviral Particles: sc-76509-V as alternate gene silencing products.

For independent verification of SLC35C2 (h) gene silencing results, we also provide the individual siRNA duplex components. Each is available as 3.3 nmol of lyophilized siRNA. These include: sc-76509A, sc-76509B and sc-76509C.

## 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

SLC35C2 siRNA (h) is recommended for the inhibition of SLC35C2 expression in human 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 SLC35C2 gene expression knockdown using RT-PCR Primer: SLC35C2 (h)-PR: sc-76509-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.