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- Trockeneiszuschlag
- Gefahrgutzuschlag
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SANTA CRUZ BIOTECHNOLOGY, INC.

# Omt2α siRNA (m): sc-151299

## BACKGROUND

Omt2α (oocyte maturation α), also known as OM2a, is a 100 amino acid oocyte-specific protein. The gene that encodes Omt2α is transcribed in growing oocytes and the resulting RNA is polyadenylated in the cytoplasm upon oocyte maturation, suggesting translational activation. The gene that encodes Omt2α maps to a locus designated Ksc1 (keratinocyte stem cell locus 1) on chromosome 9. The Ksc1 locus is believed to contain genes that regulate keratinocyte stem cell amplification, which may play a role in sensitivity or resistance to the promotion of skin tumors.

## REFERENCES


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## CHROMOSOMAL LOCATION

Genetic locus: Omt2a (mouse) mapping to 9 E1.

## PRODUCT

Omt2α 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 µM solution once resuspended using protocol below. Suitable for 50-100 transfections. Also see Omt2α shRNA Plasmid (m): sc-151299-SH and Omt2α shRNA (m) Lentiviral Particles: sc-151299-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 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 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

Omt2α siRNA (m) is recommended for the inhibition of Omt2α 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 Omt2α gene expression knockdown using RT-PCR Primer: Omt2α (m)-PR: sc-151299-PR (20 µl). Annealing temperature for the primers should be 55-60° C and the extension temperature should be 68-72° C.