



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 



# GnT-II siRNA (m): sc-145662

## BACKGROUND

GnT-II (mannosyl ( $\alpha$ -1,6-)-glycoprotein  $\beta$ -1, 2-N-acetylgluco-saminyltransferase, GlcNAc-T II) is a golgi enzyme that catalyzes the conversion of oligomannose into complex N-glycans and plays an important role in dietary fat absorption. Human MGAT2 transcript is abundant in the small intestine, liver, stomach, kidney, colon and white adipose tissue. Mouse MGAT2 transcript is abundant in the small intestine.

## REFERENCES

1. Tan, J., D'Agostaro, A.F., Bendiak, B., Reck, F., Sarkar, M., Squire, J.A., Leong, P. and Schachter, H. 1995. The human UDP-N-acetylglucosamine:  $\alpha$ -6-D-mannoside- $\beta$ -1,2- N-acetylglucosaminyltransferase II gene (MGAT2). Cloning of genomic DNA, localization to chromosome 14q21, expression in insect cells and purification of the recombinant protein. *Eur. J. Biochem.* 231: 317-328.
2. Cao, J., Lockwood, J., Burn, P. and Shi, Y. 2003. Cloning and functional characterization of a mouse intestinal acyl-CoA:monoacylglycerol acyl-transferase, MGAT2. *J. Biol. Chem.* 278: 13860-13866.
3. Yen, C.L. and Farese, R.V. Jr. 2003. MGAT2, a monoacylglycerol acyl-transferase expressed in the small intestine. *J. Biol. Chem.* 278: 18532-18537.
4. LocusLink Report (LocusID: 4247). <http://www.ncbi.nlm.nih.gov/LocusLink/>

## CHROMOSOMAL LOCATION

Genetic locus: Mgat2 (mouse) mapping to 12 C2.

## PRODUCT

GnT-II 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 GnT-II shRNA Plasmid (m): sc-145662-SH and GnT-II shRNA (m) Lentiviral Particles: sc-145662-V as alternate gene silencing 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.

## 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.

## APPLICATIONS

GnT-II siRNA (m) is recommended for the inhibition of GnT-II 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 GnT-II gene expression knockdown using RT-PCR Primer: GnT-II (m)-PR: sc-145662-PR (20  $\mu$ l). Annealing temperature for the primers should be 55-60° C and the extension temperature should be 68-72° C.