

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

www.szabo-scandic.com

linkedin.com/company/szaboscandic in



TCP-10a siRNA (m): sc-154140



The Power to Question

BACKGROUND

The mouse t complex influences embryonic development, male transmission ratio and male fertility, as well as a few other traits. Male sterility and embryonic lethality in mice are caused by recessive mutations in t haplotypes. The transmission ratio distortion (TRD) plays a central role in maintaining these deleterious genes, which would otherwise be eliminated by selection. TRD is a property of complete t haplotypes and is considered a mechanism that is known to significantly deviate from the expected Mendelian ratios of inheritance of an allele or chromosome. TRD is suggested to be in particular regions of the mouse and human genome and is frequently associated with chromosome rearrangements. The mouse t complex responder locus (Tcr) is centrally involved in the phenomenon of male-specific TRD through its action in haploid germ cells. TCP-10a (t-complex protein 10a), also known as T66A-a or t-complex responder (Tcr), is a 418 amino acid murine protein that belongs to the TCP-10 family and exists as two alternatively spliced isoforms.

REFERENCES

- Bullard, D.C. and Schimenti, J.C. 1990. Molecular cloning and genetic mapping of the t complex responder candidate gene family. Genetics 124: 957-966.
- Rosen, L.L., et al. 1990. Molecular cloning of the t complex responder genetic locus. Genomics 8: 134-140.
- Davies, P.O. and Willison, K.R. 1991. Sequence of the t complex Tcp-10at gene and examination of the Tcp-10t gene family. Mamm. Genome 1: 235-241.
- Pilder, S.H., et al. 1992. Concerted evolution of the mouse Tcp-10 gene family: implications for the functional basis of t haplotype transmission ratio distortion. Genomics 12: 35-41.
- Snyder, L.C. and Silver, L.M. 1992. Distortion of transmission ratio by a candidate t complex responder locus transgene. Mamm. Genome 3: 588-596.
- Ardlie, K.G., et al. 1996. Recent evolution of mouse t haplotypes at polymorphic microsatellites associated with the t complex responder (Tcr) locus. Genet. Res. 67: 1-10.
- Underkoffler, L.A., et al. 2005. Transmission ratio distortion in offspring of mouse heterozygous carriers of a (7.18) Robertsonian translocation. Genetics 169: 843-848.

CHROMOSOMAL LOCATION

Genetic locus: Tcp10a (mouse) mapping to 17 A1.

PRODUCT

TCP-10a 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 TCP-10a shRNA Plasmid (m): sc-154140-SH and TCP-10a shRNA (m) Lentiviral Particles: sc-154140-V as alternate gene silencing products.

STORAGE AND RESUSPENSION

Store lyophilized siRNA duplex at -20 $^{\circ}$ C with desiccant. Stable for at least one year from the date of shipment. Once resuspended, store at -20 $^{\circ}$ 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

TCP-10a siRNA (m) is recommended for the inhibition of TCP-10a 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 TCP-10a gene expression knockdown using RT-PCR Primer: TCP-10a (m)-PR: sc-154140-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.

PROTOCOLS

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

Santa Cruz Biotechnology, Inc. 1.800.457.3801 831.457.3801 fax 831.457.3801 Europe +00800 4573 8000 49 6221 4503 0 www.scbt.com