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

www.szabo-scandic.com

linkedin.com/company/szaboscandic

SANTA CRUZ BIOTECHNOLOGY, INC.

TMEM50B siRNA (m): sc-154475

BACKGROUND

TMEM50B (transmembrane protein 50B), also known as HCV p7-*trans*-regulated protein 3 (HCVP7TP3), is a 158 amino acid protein belonging to the UPF0220 family. The gene that encodes TMEM50B maps to chromosome 21, the smallest of the human chromosomes. Down syndrome, also known as trisomy 21, is the disease most commonly associated with chromosome 21. Alzheimer's disease, Jervell and Lange-Nielsen syndrome and amyotrophic lateral sclerosis are also associated with chromosome 21. Translocations are found to occur between chromosome 21 and 8, and chromosome 21 and 12, in certain leukemias.

REFERENCES

1. Reboul, J., Gardiner, K., Monneron, D., Uze, G. and Lutfalla, G. 1999. Comparative genomic analysis of the interferon/interleukin-10 receptor gene cluster. Genome Res. 9: 242-250.
2. Gardiner, K., Slavov, D., Bechtel, L. and Davisson, M. 2002. Annotation of human chromosome 21 for relevance to Down syndrome: gene structure and expression analysis. Genomics 79: 833-843.
3. Lim, J., Hao, T., Shaw, C., Patel, A.J., Szabó, G., Rual, J.F., Fisk, C.J., Li, N., Smolyar, A., Hill, D.E., Barabási, A.L., Vidal, M. and Zoghbi, H.Y. 2006. A protein-protein interaction network for human inherited ataxias and disorders of Purkinje cell degeneration. Cell 125: 801-814.
4. Sommer, C.A. and Henrique-Silva, F. 2008. Trisomy 21 and Down syndrome: a short review. Braz. J. Biol. 68: 447-452.
5. Jellinger, K.A., Janetzky, B., Attems, J. and Kienzl, E. 2008. Biomarkers for early diagnosis of Alzheimer disease: "ALZheimer ASsociated gene"—a new blood biomarker? J. Cell. Mol. Med. 12: 1094-1117.
6. Shin, M.G., Choi, H.W., Kim, H.R., Kim, M.J., Baek, H.J., Han, D.K., Kook, H., Hwang, T.J., Kim, H.J., Kim, S.H., Shin, J.H., Suh, S.P. and Ryang, D.W. 2008. Tetrasomy 21 as a sole acquired abnormality without GATA1 gene mutation in pediatric acute megakaryoblastic leukemia: a case report and review of the literature. Leuk. Res. 32: 1615-1619.
7. Moore, S.W. 2008. Down syndrome and the enteric nervous system. Pediatr. Surg. Int. 24: 873-883.

CHROMOSOMAL LOCATION

Genetic locus: Tmem50b (mouse) mapping to 16 C3.3.

PRODUCT

TMEM50B siRNA (m) 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 TMEM50B shRNA Plasmid (m): sc-154475-SH and TMEM50B shRNA (m) Lentiviral Particles: sc-154475-V as alternate gene silencing products.

For independent verification of TMEM50B (m) gene silencing results, we also provide the individual siRNA duplex components. Each is available as 3.3 nmol of lyophilized siRNA. These include: sc-154475A, sc-154475B and sc-154475C.

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

TMEM50B siRNA (m) is recommended for the inhibition of TMEM50B 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 TMEM50B gene expression knockdown using RT-PCR Primer: TMEM50B (m)-PR: sc-154475-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.