



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 Handels GmbH

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

FAM58A siRNA (m): sc-145048

BACKGROUND

FAM58A (family with sequence similarity 58, member A) is a 248 amino acid protein belonging to the cyclin-like FAM58 subfamily. Existing as multiple alternatively spliced isoforms, FAM58A interacts with Sall1 and is thought to play a role in cellular proliferation. Defects in the gene encoding FAM58A are associated with toe syndactyly, telecanthus and STAR syndrome, which is characterized by renal and anogenital malformations. The gene that encodes FAM58A maps to human chromosome X, which consists of about 153 million base pairs and nearly 1,000 genes. The combination of an X and Y chromosome lead to normal male development while two copies of X lead to normal female development.

REFERENCES

1. Green, A.J., Sandford, R.N. and Davison, B.C. 1996. An autosomal dominant syndrome of renal and anogenital malformations with syndactyly. *J. Med. Genet.* 33: 594-596.
2. Hartley, J.L., Temple, G.F. and Brasch, M.A. 2000. DNA cloning using *in vitro* site-specific recombination. *Genome Res.* 10: 1788-1795.
3. Corson, T.W., Huang, A., Tsao, M.S. and Gallie, B.L. 2005. KIF14 is a candidate oncogene in the 1q minimal region of genomic gain in multiple cancers. *Oncogene* 24: 4741-4753.
4. Kim, J.M., Lee, K.H., Jeon, Y.J., Oh, J.H., Jeong, S.Y., Song, I.S., Kim, J.M., Lee, D.S. and Kim, N.S. 2006. Identification of genes related to Parkinson's disease using expressed sequence tags. *DNA Res.* 13: 275-286.
5. Unger, S., Böhm, D., Kaiser, F.J., Kaulfuss, S., Borozdin, W., Buiting, K., Burfeind, P., Böhm, J., Barrionuevo, F., Craig, A., Borowski, K., Keppler-Noreuil, K., Schmitt-Mechelke, T., Steiner, B., Bartholdi, D., et al. 2008. Mutations in the cyclin family member FAM58A cause an X-linked dominant disorder characterized by syndactyly, telecanthus and anogenital and renal malformations. *Nat. Genet.* 40: 287-289.
6. Online Mendelian Inheritance in Man, OMIM[™]. 2008. Johns Hopkins University, Baltimore, MD. MIM Number: 300707. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>

CHROMOSOMAL LOCATION

Genetic locus: Fam58b (mouse) mapping to 11 B5.

PRODUCT

FAM58A 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 μ M solution once resuspended using protocol below. Suitable for 50-100 transfections. Also see FAM58A shRNA Plasmid (m): sc-145048-SH and FAM58A shRNA (m) Lentiviral Particles: sc-145048-V as alternate gene silencing products.

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 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

FAM58A siRNA (m) is recommended for the inhibition of FAM58A 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 μ M in 66 μ 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 FAM58A gene expression knockdown using RT-PCR Primer: FAM58A (m)-PR: sc-145048-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.