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ZNF407 siRNA (m): sc-155710

BACKGROUND

Zinc-finger proteins contain DNA-binding domains and have a wide variety of functions, most of which encompass some form of transcriptional activation or repression. The majority of zinc-finger proteins contain a Krüppel-type DNA binding domain and a KRAB domain, which is thought to interact with KAP1, thereby recruiting histone modifying proteins. As a member of the Krüppel C₂H₂-type zinc-finger protein family, ZNF407 (zinc finger protein 407) is a 2,248 amino acid nuclear protein that contains 22 C₂H₂-type zinc fingers. The gene encoding ZNF407 maps to human chromosome 18, in a region that is frequently found to be affected in 18q deletion syndrome, a multiple-anomaly mental retardation syndrome. There are three isoforms of ZNF407 that are expressed as a result of alternative splicing events.

REFERENCES

1. Payre, F. and Vincent, A. 1988. Finger proteins and DNA-specific recognition: distinct patterns of conserved amino acids suggest different evolutionary modes. *FEBS Lett.* 234: 245-250.
2. Thiesen, H.J. 1990. Multiple genes encoding zinc finger domains are expressed in human T cells. *New Biol.* 2: 363-374.
3. Rosenfeld, R. and Margalit, H. 1993. Zinc fingers: conserved properties that can distinguish between spurious and actual DNA-binding motifs. *J. Biomol. Struct. Dyn.* 11: 557-570.
4. Nuijten, I., Admiraal, R., Van Buggenhout, G., Cremers, C., Frijns, J.P., Smeets, D. and van Ravenswaaij-Arts, C. 2003. Congenital aural atresia in 18q deletion or de Grouchy syndrome. *Otol. Neurotol.* 24: 900-906.
5. Nusbaum, C., Zody, M.C., Borowsky, M.L., Kamal, M., Kodira, C.D., Taylor, T.D., Whittaker, C.A., Chang, J.L., Cuomo, C.A., Dewar, K., FitzGerald, M.G., Yang, X., Abouelleil, A., Allen, N.R., et al. 2005. DNA sequence and analysis of human chromosome 18. *Nature* 437: 551-555.
6. Dostal, A., Nemeckova, J., Gaillyova, R., Vranova, V., Zezulakova, D., Lejska, M., Slapak, I., Dostalova, Z. and Kuglik, P. 2006. Identification of 2.3-Mb gene locus for congenital aural atresia in 18q22.3 deletion: a case report analyzed by comparative genomic hybridization. *Otol. Neurotol.* 27: 427-432.
7. Tariq, M., Chishti, M.S., Ali, G. and Ahmad, W. 2008. A novel locus for ectodermal dysplasia of hairs, nails and teeth type maps to chromosome 18q22.1-22.3. *Ann. Hum. Genet.* 72: 19-25.

CHROMOSOMAL LOCATION

Genetic locus: Zfp407 (mouse) mapping to 18 E4.

PRODUCT

ZNF407 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 ZNF407 shRNA Plasmid (m): sc-155710-SH and ZNF407 shRNA (m) Lentiviral Particles: sc-155710-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 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

ZNF407 siRNA (m) is recommended for the inhibition of ZNF407 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 ZNF407 gene expression knockdown using RT-PCR Primer: ZNF407 (m)-PR: sc-155710-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.