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SANTA CRUZ BIOTECHNOLOGY, INC.

ZNF236 siRNA (m): sc-155662

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 C_2H_2-type zinc-finger protein family, ZNF236 (zinc finger protein 236) is a 1,845 amino acid nuclear protein that contains 30 C_2H_2-type zinc fingers. ZNF236 is ubiquitously expressed, with highest levels found in brain and skeletal muscle and lowest levels found in liver, lung and kidney. Upregulation of ZNF236 expression is observed in response to elevated levels of d-glucose, suggesting that the ZNF236 gene may play a role in diabetic nephropathy. There are two isoforms of ZNF236, which are designated ZNF236a and ZNF236b, that are produced as a result of alternative splicing events.

REFERENCES

1. Holmes, D.I., Abdel Wahab, N. and Mason, R.M. 1997. Identification of glucose-regulated genes in human mesangial cells by mRNA differential display. Biochem. Biophys. Res. Commun. 238: 179-184.
2. Holmes, D.I., Wahab, N.A. and Mason, R.M. 1999. Cloning and characterization of ZNF236, a glucose-regulated Krüppel-like zinc-finger gene mapping to human chromosome 18q22-q23. Genomics 60: 105-109.
3. Vardarli, I., Baier, L.J., Hanson, R.L., Akkoyun, I., Fischer, C., Rohmeiss, P., Basci, A., Bartram, C.R., Van Der Woude, F.J. and Janssen, B. 2002. Gene for susceptibility to diabetic nephropathy in type 2 diabetes maps to 18q22.3-23. Kidney Int. 62: 2176-2183.
4. Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 604760. World Wide Web URL: http://www.ncbi.nlm.nih.gov/omim/
5. Gunn, S.R., Mohammed, M., Reveles, X.T., Viskochil, D.H., Palumbos, J.C., Johnson-Pais, T.L., Hale, D.E., Lancaster, J.L., Hardies, L.J., Boespflug-Tanguy, O., Cody, J.D. and Leach, R.J. 2003. Molecular characterization of a patient with central nervous system dysmyelination and cryptic unbalanced translocation between chromosomes 4q and 18q. Am. J. Med. Genet. A 120A: 127-135.
6. Halama, N., Yard-Breedijk, A., Vardarli, I., Akkoyun, I., Yard, B., Janssen, B. and van der Woude, F.J. 2003. The Krüppel-like zinc-finger gene ZNF236 is alternatively spliced and excluded as susceptibility gene for diabetic nephropathy. Genomics 82: 406-411.
7. Tanaka, N. and Babazono, T. 2005. Assessing genetic susceptibility to diabetic nephropathy. Nephrology 10: S17-S21.
8. Dostal, A., Nemeckova, J., Gaillyova, R., Vranova, V., Zezulkova, 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.

PROTOCOLS

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

CHROMOSOMAL LOCATION

Genetic locus: Zfp236 (mouse) mapping to 18 E3.

PRODUCT

ZNF236 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 ZNF236 shRNA Plasmid (m): sc-155662-SH and ZNF236 shRNA (m) Lentiviral Particles: sc-155662-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 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

ZNF236 siRNA (m) is recommended for the inhibition of ZNF236 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 ZNF236 gene expression knockdown using RT-PCR Primer: ZNF236 (m)-PR: sc-155662-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.