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SANTA CRUZ BIOTECHNOLOGY, INC.

TMEM216 siRNA (m): sc-154446

BACKGROUND

TMEM216 (transmembrane protein 216), also known as HSPC244, is a 145 amino acid multi-pass membrane protein that functions as part of the tectonic-like (B9) complex which is necessary for tissue-specific ciliogenesis. TMEM216 may mediate ciliary membrane composition and localizes to the transition zone, which is an area between the basal body and ciliary axoneme. Joubert syndrome type 2 (JBTS2) and Meckel syndrome type 2 (MKS2) are disorders caused by defects in TMEM216. Interestingly, the genes encoding TMEM138 and TMEM216 are adjacent to one another and aligned head-to-tail. Chromosomal rearrangement caused these 2 genes to be joined together approximately 340 million years ago during the amphibian to reptile transitionary period. TMEM216 is alternatively spliced, which results in three isoforms that are encoded by a gene that maps to human chromosome 11.

REFERENCES

1. Fabiani, J.E., et al. 2000. Hereditary angioedema. Long-term follow-up of 88 patients. Experience of the Argentine Allergy and Immunology Institute. Allergol. Immunopathol. 28: 267-271.
2. Jira, P.E., et al. 2003. Smith-Lemli-Opitz syndrome and the DHCR7 gene. Ann. Hum. Genet. 67: 269-280.
3. Schuchman, E.H. 2007. The pathogenesis and treatment of acid sphingomyelinase-deficient Niemann-Pick disease. J. Inherit. Metab. Dis. 30: 654-663.
4. Siem, G., et al. 2008. Jervell and Lange-Nielsen syndrome in Norwegian children: aspects around cochlear implantation, hearing, and balance. Ear Hear. 29: 261-269.

CHROMOSOMAL LOCATION

Genetic locus: Tmem216 (mouse) mapping to 19 A.

PRODUCT

TMEM216 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 TMEM216 shRNA Plasmid (m): sc-154446-SH and TMEM216 shRNA (m) Lentiviral Particles: sc-154446-V as alternate gene silencing products.

For independent verification of TMEM216 (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-154446A, sc-154446B and sc-154446C.

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.

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

TMEM216 siRNA (m) is recommended for the inhibition of TMEM216 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 TMEM216 gene expression knockdown using RT-PCR Primer: TMEM216 (m)-PR: sc-154446-PR (20 µl). Annealing temperature for the primers should be 55-60° C and the extension temperature should be 68-72° C.