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- Trockeneiszuschlag
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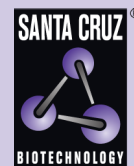
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# LHFPL4 siRNA (m): sc-146723

## BACKGROUND

The development of lipomas, benign tumors composed of fatty tissues, have been linked to breakpoints in the HMGI-C gene. LHP (lipoma HMGIC fusion partner) is a 200 amino acid multi-pass membrane protein that acts as a fusion partner with HMGI-C in a lipoma with the translocation t(12;13)(q13-q15;q12). As a LHP family member, LHFPL4 (lipoma HMGIC fusion partner-like 4 protein) is a 247 amino acid multi-pass membrane protein that is encoded by a gene which is found to be methylated in 55% of cervical cancers. This suggests that LHFPL4 is a novel methylation target specific for cervical cancer and may be evaluated for early detection and risk prediction. LHFPL4 shares 62% sequence similarity with LHFPL5, a protein which has been linked to normal function of the human cochlea. There are two isoforms of LHFPL4 that are produced as a result of alternative splicing events.

## REFERENCES

1. Petit, M.M., et al. 1999. LHP, a novel translocation partner gene of HMGI-C in a lipoma, is a member of a new family of LHP-like genes. *Genomics* 57: 438-441.
2. Rogalla, P., et al. 2002. Absence of HMGI-C-LHP fusion in pulmonary chondroid hamartomas with aberrations involving chromosomal regions 12q13 through 15 and 13q12 through q14. *Cancer Genet. Cytogenet.* 133: 90-93.
3. Longo-Guess, C.M., et al. 2005. A missense mutation in the previously undescribed gene *Tmhs* underlies deafness in hurry-scurry (*hscy*) mice. *Proc. Natl. Acad. Sci. USA* 102: 7894-7899.
4. Nilsson, M., et al. 2006. Truncation and fusion of HMGA2 in lipomas with rearrangements of 5q32→q33 and 12q14→q15. *Cytogenet. Genome Res.* 112: 60-66.
5. Kalay, E., et al. 2006. Mutations in the lipoma HMGIC fusion partner-like 5 (LHFPL5) gene cause autosomal recessive nonsyndromic hearing loss. *Hum. Mutat.* 27: 633-639.
6. Shabbir, M.I., et al. 2006. Mutations of human TMHS cause recessively inherited non-syndromic hearing loss. *J. Med. Genet.* 43: 634-640.
7. Online Mendelian Inheritance in Man, OMIM™. 2006. Johns Hopkins University, Baltimore, MD. MIM Number: 610240. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>

## CHROMOSOMAL LOCATION

Genetic locus: *Lhfp14* (mouse) mapping to 6 E3.

## PRODUCT

LHFPL4 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  $\mu$ M solution once resuspended using protocol below. Suitable for 50-100 transfections. Also see LHFPL4 shRNA Plasmid (m): sc-146723-SH and LHFPL4 shRNA (m) Lentiviral Particles: sc-146723-V as alternate gene silencing products.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## 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  $\mu$ l of the RNase-free water provided. Resuspension of the siRNA duplex in 330  $\mu$ l of RNase-free water makes a 10  $\mu$ M solution in a 10  $\mu$ M Tris-HCl, pH 8.0, 20 mM NaCl, 1 mM EDTA buffered solution.

## APPLICATIONS

LHFPL4 siRNA (m) is recommended for the inhibition of LHFPL4 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  $\mu$ M in 66  $\mu$ 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 LHFPL4 gene expression knockdown using RT-PCR Primer: LHFPL4 (m)-PR: sc-146723-PR (20  $\mu$ l). Annealing temperature for the primers should be 55-60° C and the extension temperature should be 68-72° C.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.