Lce1c siRNA (m): sc-146672



The Power to Question

BACKGROUND

The lipid-corneocyte structure of stratum corneum is responsible for barrier activity of skin and internal barrier-forming epithelial linings. Corneocyte stability is dependent upon the outer cornified envelope and is essential for maintenance of barrier function. Within the epidermal differentiation complex on human chromosome 1 and mouse chromosome 3 lies the late cornified envelope (LCE) gene cluster, which contains multiple conserved genes encoding stratum-corneum proteins. LCE1C (late cornified envelope may be involved in barrier repair after injury or inflammation, like other family members. LCE1C is encoded by a gene located on human chromosome 1q21.3. Chromosome 1 spans 260 million base pairs, contains over 3,000 genes and comprises nearly 8% of the human genome

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Lce1c (mouse) mapping to 3 F1.

PRODUCT

Lce1c 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 Lce1c shRNA Plasmid (m): sc-146672-SH and Lce1c shRNA (m) Lentiviral Particles: sc-146672-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

Lce1c siRNA (m) is recommended for the inhibition of Lce1c 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 Lce1c gene expression knockdown using RT-PCR Primer: Lce1c (m)-PR: sc-146672-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.

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