SANTA CRUZ BIOTECHNOLOGY, INC.

CRAMP1L siRNA (h): sc-93051

BACKGROUND

CRAMP1L (cramped-like 1), also known as hematopoietic- and neurologic-expressed sequence 1-like protein (HN1L) or T-complex expressed protein 4 (TCE4), is a 1,269 amino acid protein localized to the nucleus and cytoplasm. CRAMP1L is a putative DNA binding protein and is expressed in a variety of tissues, such as liver, kidney, prostate, testis and uterus, at varying levels. CRAMP1L is highly conserved in vertebrates, and at least three CRAMP1L pseudogenes have been identified in the genomes of human, mouse and rat. Three isoforms of CRAMP1L exist as a result of alternative splicing events.

REFERENCES

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3. Kalyoncu, U., Tufan, A., Karadag, O., Kisacik, B., Akdogan, A. and Calguneri, M. 2006. Rubinstein-Taybi syndrome and familial Mediterranean fever in a single patient: two distinct genetic diseases located on chromosome 16p13.3. J. Natl. Med. Assoc. 98: 1692-1693.
4. Satish, L., Abdulally, A., Oswald, D., Johnson, S., Hu, F.Z., Post, J.C., Ehrlich, G.D. and Kathju, S. 2008. Differential expression of chaperonin containing T-complex polypeptide (CCT) subunits during fetal and adult skin wound healing. Cell Stress Chaperones 13: 527-533.

CHROMOSOMAL LOCATION

Genetic locus: CRAMP1L (human) mapping to 16p13.3.

PRODUCT

CRAMP1L siRNA (h) is a pool of 2 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 CRAMP1L shRNA Plasmid (h): sc-93051-SH and CRAMP1L shRNA (h) Lentiviral Particles: sc-93051-V as alternate gene silencing products.

For independent verification of CRAMP1L (h) gene silencing results, we also provide the individual siRNA duplex components. Each is available as 3.3 nmol of lyophilized siRNA. These include: sc-93051A and sc-93051B.

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

CRAMP1L siRNA (h) is recommended for the inhibition of CRAMP1L expression in human 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 CRAMP1L gene expression knockdown using RT-PCR Primer: CRAMP1L (h)-PR: sc-93051-PR (20 µl). Annealing temperature for the primers should be 55-60° C and the extension temperature should be 68-72° C.