SANTA CRUZ BIOTECHNOLOGY, INC.

PRELID2 siRNA (h): sc-91841

BACKGROUND

PRELID2 (PRELI domain containing 2) is a 189 amino acid protein that contains one PRELI/MSF1 domain and belongs to the PRELI domain containing family. Existing as two alternatively spliced isoforms, PRELID2 is encoded by a gene that maps to human chromosome 5q32. With 181 million base pairs encoding approximately 1,000 genes, chromosome 5 makes up 6% of human genomic DNA. Chromosome 5 is associated with Cockayne syndrome through CSA, and with familial adenomatous polyposis through the adenomatous polyposis coli (APC) tumor suppressor gene. Treacher Collins syndrome, caused by insertions or deletions within Treacle, is also associated with chromosome 5. Deletion of 5q, or chromosome 5 altogether, is common in acute myelogenous leukemias and myelodysplastic syndrome.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: PRELID2 (human) mapping to 5q32.

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.

PRODUCT

PRELID2 siRNA (h) 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 PRELID2 shRNA Plasmid (h): sc-91841-SH and PRELID2 shRNA (h) Lentiviral Particles: sc-91841-V as alternate gene silencing products.

For independent verification of PRELID2 (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-91841A, sc-91841B and sc-91841C.

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

PRELID2 siRNA (h) is recommended for the inhibition of PRELID2 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 PRELID2 gene expression knockdown using RT-PCR Primer: PRELID2 (h)-PR: sc-91841-PR (20 µl). Annealing temperature for the primers should be 55-60° C and the extension temperature should be 68-72° C.