

PCNXL3 siRNA (m): sc-152155

BACKGROUND

Human Pecanex proteins are homologs of the *Drosophila* Pecanex protein, a maternal-effect neurogenic protein that is involved in normal development of the fly nervous system. Three human Pecanex homologs exist, designated Pecanex, Pecanex 2 and Pecanex 3. PCNXL3 (Pecanex-like protein 3) is a 2,034 amino acid multi-pass membrane protein that belongs to the Pecanex family. Existing as three alternatively spliced isoforms, PCNXL3 is encoded by a gene that maps to human chromosome 11q13.1, and is conserved in canine, bovine, mouse, rat, fruit fly and mosquito. PCNXL3 is linked to psoriatic arthritis, a systemic inflammatory condition featuring polyarthritis associated with psoriasis, and may function as a novel disease marker.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Pcnxl3 (mouse) mapping to 19 A.

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

PCNXL3 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 μ M solution once resuspended using protocol below. Suitable for 50-100 transfections. Also see PCNXL3 shRNA Plasmid (m): sc-152155-SH and PCNXL3 shRNA (m) Lentiviral Particles: sc-152155-V as alternate gene silencing products.

For independent verification of PCNXL3 (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-152155A, sc-152155B and sc-152155C.

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

PCNXL3 siRNA (m) is recommended for the inhibition of PCNXL3 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 μ M in 66 μ 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 PCNXL3 gene expression knockdown using RT-PCR Primer: PCNXL3 (m)-PR: sc-152155-PR (20 μ l). Annealing temperature for the primers should be 55-60° C and the extension temperature should be 68-72° C.