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PSD2 siRNA (m): sc-152537

BACKGROUND

PSD2 (pleckstrin and SEC7 domain containing 2) is a 771 amino acid single-pass membrane protein belonging to the PSD family. PSD2 contains one PH (pleckstrin homology) domain and one SEC7 domain, suggesting a function in guanine nucleotide exchange. Proteins containing pleckstrin homology domains, which consist of approximately 120 amino acids, are known to be involved in intracellular signaling or as constituents of the cytoskeleton. The gene encoding PSD2 is located on human chromosome 5, which contains 181 million base pairs and comprises nearly 6% of the human genome. Deletion of the p arm of chromosome 5 leads to Cri du chat syndrome, while deletion of the q arm or of chromosome 5 altogether is common in therapy-related acute myelogenous leukemias and myelodysplastic syndrome.

REFERENCES

1. Dixon, M.J., et al. 1991. The gene for Treacher Collins syndrome maps to the long arm of chromosome 5. *Am. J. Hum. Genet.* 49: 17-22.
2. Haslam, R.J., et al. 1993. Pleckstrin domain homology. *Nature* 363: 309-310.
3. Musacchio, A., et al. 1993. The PH domain: a common piece in the structural patchwork of signalling proteins. *Trends Biochem. Sci.* 18: 343-348.
4. Ingley, E. and Hemmings, B.A. 1994. Pleckstrin homology (PH) domains in signal transduction. *J. Cell. Biochem.* 56: 436-443.
5. Gibson, T.J., et al. 1994. PH domain: the first anniversary. *Trends Biochem. Sci.* 19: 349-353.
6. Du, H.Y., et al. 2007. Telomerase reverse transcriptase haploinsufficiency and telomere length in individuals with 5p- syndrome. *Aging Cell* 6: 689-697.

CHROMOSOMAL LOCATION

Genetic locus: Psd2 (mouse) mapping to 18 B2.

PRODUCT

PSD2 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 PSD2 shRNA Plasmid (m): sc-152537-SH and PSD2 shRNA (m) Lentiviral Particles: sc-152537-V as alternate gene silencing products.

For independent verification of PSD2 (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-152537A, sc-152537B and sc-152537C.

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 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

PSD2 siRNA (m) is recommended for the inhibition of PSD2 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 PSD2 gene expression knockdown using RT-PCR Primer: PSD2 (m)-PR: sc-152537-PR (20 μ l). Annealing temperature for the primers should be 55-60° C and the extension temperature should be 68-72° C.