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SANTA CRUZ BIOTECHNOLOGY, INC.

LRRC10 siRNA (m): sc-149052

BACKGROUND

The leucine-rich repeat (LRR) is a 20-30 amino acid motif that forms a hydrophobic α/β horseshoe fold, allowing it to accommodate several leucine residues within a tightly packed core. All LRRs contain a variable segment and a highly conserved segment, the latter of which accounts for 11 or 12 residues of the entire LRR motif. The primary function of these motifs is to provide a versatile structural framework to mediate the formation of protein-protein interactions. LRRs are present in a variety of proteins with diverse structure and function, including innate immunity and nervous system development. LRRC10 (leucine-rich repeat-containing protein 10), also known as HRLRRP or LRRC10A, is a 277 amino acid protein that contains eight LRRs. Localized to the nucleus, LRRC10 may play an important role in cardiac development and/or cardiac function. The gene that encodes LRRC10 maps to human chromosome 12q15 and murine chromosome 10 D2.

REFERENCES

1. Kobe, B. and Kajava, A.V. 2001. The leucine-rich repeat as a protein recognition motif. Curr. Opin. Struct. Biol. 11: 725-732.
2. Suzuki, T., Morita, R., Sugimoto, Y., Sugawara, T., Bai, D.S., Alonso, M.E., Medina, M.T., Bailey, J.N., Rasmussen, A., Ramos-Peek, J., Cordova, S., Rubio-Donnadieu, F., Ochoa, A., Jara-Prado, A., Inazawa, J., et al. 2002. Identification and mutational analysis of candidate genes for juvenile myoclonic epilepsy on 6p11-p12: LRRC1, GCLC, KIAA0057 and CLIC5. Epilepsy Res. 50: 265-275.
3. Nakane, T., Satoh, T., Inada, Y., Nakayama, J., Itoh, F. and Chiba, S. 2004. Molecular cloning and expression of HRLRRP, a novel heart-restricted leucine-rich repeat protein. Biochem. Biophys. Res. Commun. 314: 1086-1092.
4. Matsushima, N., Tachi, N., Kuroki, Y., Enkhbayar, P., Osaki, M., Kamiya, M. and Kretsinger, R.H. 2005. Structural analysis of leucine-rich-repeat variants in proteins associated with human diseases. Cell. Mol. Life Sci. 62: 2771-2791.

CHROMOSOMAL LOCATION

Genetic locus: Lrrc10 (mouse) mapping to 10 D2.

PRODUCT

LRRC10 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 µM solution once resuspended using protocol below. Suitable for 50-100 transfections. Also see LRRC10 shRNA Plasmid (m): sc-149052-SH and LRRC10 shRNA (m) Lentiviral Particles: sc-149052-V as alternate gene silencing products.

For independent verification of LRRC10 (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-149052A, sc-149052B and sc-149052C.

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

LRRC10 siRNA (m) is recommended for the inhibition of LRRC10 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 LRRC10 gene expression knockdown using RT-PCR Primer: LRRC10 (m)-PR: sc-149052-PR (20 µl). 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.