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Fbxl22 siRNA (m): sc-145100

BACKGROUND

Fbxl22 (F-box and leucine-rich repeat protein 22) is a 236 amino acid mouse protein that contains six LRR (leucine-rich) repeats and one F-box domain, and is part of the SCF (SKP1-cullin-F-box) protein ligase complex. Fbxl22 likely recognizes and binds various phosphorylated proteins, resulting in the promotion of their ubiquitination and degradation. The human homolog of Fbxl22 is a 241 amino acid protein known as FBXL22. FBXL22 (F-box and leucine-rich repeat protein 22) contains one F-box domain, is part of the SCF (SKP1-cullin-F-box) protein ligase complex, and is involved in protein ubiquitination. The genes that encode Fbxl22 and FBXL22 map to mouse chromosome 9 C and human chromosome 15q22.31, respectively.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Fbxl22 (mouse) mapping to 9 C.

PRODUCT

Fbxl22 siRNA (m) is a target-specific 19-25 nt siRNA 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 Fbxl22 shRNA Plasmid (m): sc-145100-SH and Fbxl22 shRNA (m) Lentiviral Particles: sc-145100-V as alternate gene silencing products.

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

Fbxl22 siRNA (m) is recommended for the inhibition of Fbxl22 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 Fbxl22 gene expression knockdown using RT-PCR Primer: Fbxl22 (m)-PR: sc-145100-PR (20 μ l). 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.