

▶ TEX264 siRNA (m): sc-154224

BACKGROUND

TEX264 (testis expressed 264), also known as SIG11 or ZSIG11, is a 313 amino acid secreted protein expressed in testis. The gene encoding TEX264 is located on chromosome 3 and is upregulated in Sporadic Parkinson's disease (PD), a neurodegenerative disorder characterized by rigidity, resting tremor and bradykinesia. Typically, the genes that are upregulated in PD play a role in processes involving the cell cycle, transcription, cell adhesion, extracellular matrix components, protein metabolism, inflammation/cell stress and protein modification. This suggests that TEX264 may participate in one of these biological processes.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Tex264 (mouse) mapping to 9 F1.

PRODUCT

TEX264 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 TEX264 shRNA Plasmid (m): sc-154224-SH and TEX264 shRNA (m) Lentiviral Particles: sc-154224-V as alternate gene silencing products.

For independent verification of TEX264 (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-154224A, sc-154224B and sc-154224C.

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

TEX264 siRNA (m) is recommended for the inhibition of TEX264 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 TEX264 gene expression knockdown using RT-PCR Primer: TEX264 (m)-PR: sc-154224-PR (20 μ l). Annealing temperature for the primers should be 55-60° C and the extension temperature should be 68-72° C.