

5330417C22Rik siRNA (m): sc-140350

BACKGROUND

EIG121 (Estrogen-induced gene 121 protein), also known as KIAA1324, is a 1013 amino acid single-pass transmembrane protein that, though expressed in normal endometrium, is overexpressed in endometrioid tumors. This two to three fold upregulation seems to be in response to estrogen replacement therapy, therefore making EIG121 a biomarker for a hyperestrogenic state and estrogen-related type I endometrial carcinoma. As an evolutionarily conserved gene, EIG121 is also expressed during early *Xenopus* development, showing maximum expression at the gastrula stage. The gene encoding EIG121 maps to human chromosome 1, which is the largest human chromosome spanning about 260 million base pairs and making up 8% of the human genome. There are four isoforms of EIG121 that are produced as a result of alternative splicing events.

REFERENCES

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PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.

CHROMOSOMAL LOCATION

Genetic locus: 5330417C22Rik (mouse) mapping to 3 F3.

PRODUCT

5330417C22Rik 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 5330417C22Rik shRNA Plasmid (m): sc-140350-SH and 5330417C22Rik shRNA (m) Lentiviral Particles: sc-140350-V as alternate gene silencing products.

For independent verification of 5330417C22Rik (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-140350A, sc-140350B and sc-140350C.

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

5330417C22Rik siRNA (m) is recommended for the inhibition of 5330417C22Rik 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 5330417C22Rik gene expression knockdown using RT-PCR Primer: 5330417C22Rik (m)-PR: sc-140350-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.