SANTA CRUZ BIOTECHNOLOGY, INC.

9130019O22Rik siRNA (m): sc-140518

BACKGROUND

9130019O22Rik (RIKEN cDNA 9130019O22) is a murine ortholog of C_2H_2-type zinc finger protein human ZNF764 (zinc finger protein 764). Transcript levels are abundant within adult large intestine, and small intestine. ZNF764 is a cofactor directing steroid hormone response networks emanating from glucocorticoid receptors (GR), androgen receptors (AR), and thyroid hormone-dependent pathways. Zinc finger (ZnF) domains are present in approximately 5% of human proteins.

REFERENCES

1. Kino, T., Pavlatou, M.G., Moraitis, A.G., Nemery, R.L., Raygada, M. and Stratakis, C.A. 2012. ZNF764 haploinsufficiency may explain partial glucocorticoid, androgen, and thyroid hormone resistance associated with 16p11.2 microdeletion. J. Clin. Endocrinol. Metab. 97: E1557-E1566.
2. Fadda, A., Syed, N., Mackeh, R., Papadopoulou, A., Suzuki, S., Jithesh, P.V. and Kino, T. 2017. Genome-wide regulatory roles of the C_2H_2-type zinc finger protein ZNF764 on the glucocorticoid receptor. Sci. Rep. 7: 41598.
3. Vilas, C.K., Emery, L.E., Denchi, E.L. and Miller, K.M. 2018. Caught with one's zinc fingers in the genome integrity cookie jar. Trends Genet. 34: 313-325.

CHROMOSOMAL LOCATION

Genetic locus: 9130019O22Rik (mouse) mapping to 7 F3.

PRODUCT

9130019O22Rik 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 µM solution once resuspended using protocol below. Suitable for 50-100 transfections. Also see 9130019O22Rik shRNA Plasmid (m): sc-140518-SH and 9130019O22Rik shRNA (m) Lentiviral Particles: sc-140518-V as alternate gene silencing 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

9130019O22Rik siRNA (m) is recommended for the inhibition of 9130019O22Rik expression in mouse cells.

PROTOCOLS

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

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 9130019O22Rik gene expression knockdown using RT-PCR Primer: 9130019O22Rik (m)-PR: sc-140518-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.