



# KIAA1024 siRNA (m): sc-140893

## BACKGROUND

KIAA1024, also known as DD1 or AF529169, is a 917 amino acid single-pass membrane protein and member of the UPF0258 family. Existing as two alternatively spliced isoforms, KIAA1024 is expressed in brain and islets of Langerhans. KIAA1024 is encoded by a gene located on mouse chromosome 9 E3.1. The KIAA1024 gene product has been provisionally designated KIAA1024 pending further characterization.

## REFERENCES

1. Kawai, J., et al. 2001. Functional annotation of a full-length mouse cDNA collection. *Nature* 409: 685-690.
2. Okazaki, Y., et al. 2002. Analysis of the mouse transcriptome based on functional annotation of 60,770 full-length cDNAs. *Nature* 420: 563-573.
3. Strausberg, R.L., et al. 2002. Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences. *Proc. Natl. Acad. Sci. USA* 99: 16899-16903.
4. Okazaki, N., et al. 2004. Prediction of the coding sequences of mouse homologues of KIAA gene: IV. The complete nucleotide sequences of 500 mouse KIAA-homologous cDNAs identified by screening of terminal sequences of cDNA clones randomly sampled from size-fractionated libraries. *DNA Res.* 11: 205-218.
5. SWISS-PROT/TrEMBL (Q8K3V7). World Wide Web URL: <http://www.uniprot.org/uniprot/Q8K3V7>

## CHROMOSOMAL LOCATION

Genetic locus: AF529169 (mouse) mapping to 9 E3.1.

## PRODUCT

KIAA1024 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  $\mu$ M solution once resuspended using protocol below. Suitable for 50-100 transfections. Also see KIAA1024 shRNA Plasmid (m): sc-140893-SH and KIAA1024 shRNA (m) Lentiviral Particles: sc-140893-V as alternate gene silencing products.

For independent verification of KIAA1024 (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-140893A, sc-140893B and sc-140893C.

## 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  $\mu$ l of the RNase-free water provided. Resuspension of the siRNA duplex in 330  $\mu$ l of RNase-free water makes a 10  $\mu$ M solution in a 10  $\mu$ M Tris-HCl, pH 8.0, 20 mM NaCl, 1 mM EDTA buffered solution.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## APPLICATIONS

KIAA1024 siRNA (m) is recommended for the inhibition of KIAA1024 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  $\mu$ M in 66  $\mu$ 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 KIAA1024 gene expression knockdown using RT-PCR Primer: KIAA1024 (m)-PR: sc-140893-PR (20  $\mu$ l). Annealing temperature for the primers should be 55-60° C and the extension temperature should be 68-72° C.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.