SANTA CRUZ BIOTECHNOLOGY, INC.

5830415F09Rik siRNA (m): sc-140402

BACKGROUND

5830415F09Rik (RIKEN cDNA 5830415F09 gene), also known as Nap1 (Nef-associated protein 1), AV014846 or RP23-423O7.7, is a 431 amino acid protein that interacts with HIV-1 Nef, a lentivirus protein. Belonging to the UPF0066 (virR) family, 5830415F09Rik is suggested to hydrolyze acyl-CoA thioesters *in vitro*. 5830415F09Rik has a preference for substrates with medium chain length, C10-C14, but is inactive towards substrates with C18 or C20 aliphatic chains. 5830415F09Rik is the mouse homolog of human C9orf156, which is encoded by a gene located on human chromosome 9 and exists as three alternatively spliced isoforms. Human chromosome 9 houses over 900 genes and comprises nearly 4% of the human genome. Hereditary hemorrhagic telangiectasia, which is characterized by harmful vascular defects, and Familial dysautonomia, are both associated with chromosome 9. Notably, chromosome 9 encompasses the largest interferon family gene cluster.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: 5830415F09Rik (mouse) mapping to 4 B1.

PRODUCT

5830415F09Rik 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 µM solution once resuspended using protocol below. Suitable for 50-100 transfections. Also see 5830415F09Rik shRNA Plasmid (m): sc-140402-SH and 5830415F09Rik shRNA (m) Lentiviral Particles: sc-140402-V as alternate gene silencing products.

For independent verification of 5830415F09Rik (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-140402A, sc-140402B and sc-140402C.

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

5830415F09Rik siRNA (m) is recommended for the inhibition of 5830415F09Rik 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 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 5830415F09Rik gene expression knockdown using RT-PCR Primer: 5830415F09Rik (m)-PR: sc-140402-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.