



# 1110033M05Rik siRNA (m): sc-108177

## BACKGROUND

1110033M05Rik, also known as FAM172a, 53-E6 or pEN87, is a 417 amino acid secreted murine protein that exists as multiple alternatively spliced isoforms which are encoded by a gene that maps to mouse chromosome 13 C1. Mouse chromosome 13 houses over 1,000 genes that encode for a variety of proteins, including zinc fingers, solute transporters, olfactory receptors and histones. The genes that are localized to chromosome 13 may play a role in autoimmunity, as well as in the pathogenesis of Chediak-Higashi syndrome, a rare autosomal recessive disorder that results in immune deficits and abnormal blood clotting, pigmentation and neurologic function.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: Fam172a (mouse) mapping to 13 C1.

## RESEARCH USE

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

## PROTOCOLS

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

## PRODUCT

1110033M05Rik 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 1110033M05Rik shRNA Plasmid (m): sc-108177-SH and 1110033M05Rik shRNA (m) Lentiviral Particles: sc-108177-V as alternate gene silencing products.

For independent verification of 1110033M05Rik (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-108177A, sc-108177B and sc-108177C.

## 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.

## APPLICATIONS

1110033M05Rik siRNA (m) is recommended for the inhibition of 1110033M05Rik 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 1110033M05Rik gene expression knockdown using RT-PCR Primer: 1110033M05Rik (m)-PR: sc-108177-PR (20  $\mu$ l). Annealing temperature for the primers should be 55-60° C and the extension temperature should be 68-72° C.