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ZSWIM6 siRNA (m): sc-155847

BACKGROUND

Zinc-finger proteins contain DNA-binding domains and have a wide variety of functions, most of which encompass some form of transcriptional activation or repression. ZSWIM6 (zinc finger SWIM domain-containing protein 6) is a 1,215 amino acid protein that contains one SWIM-type zinc finger. SWIM domains are found in a variety of eukaryotic and prokaryotic proteins and are thought to be critical for certain ubiquitination reactions. The gene encoding ZSWIM6 maps to human chromosome 5, which contains 181 million base pairs and comprises nearly 6% of the human genome. Deletion of the p arm of chromosome 5 leads to Cri du chat syndrome, while deletion of the q arm or of chromosome 5 altogether is common in therapy-related acute myelogenous leukemias and myelodysplastic syndrome.

REFERENCES

1. Makarova, K.S., Aravind, L. and Koonin, E.V. 2002. SWIM, a novel Zn-chelating domain present in bacteria, archaea and eukaryotes. *Trends Biochem. Sci.* 27: 384-386.
2. Murru, D., Boccone, L., Ristaldi, M.S. and Nucaro, A.L. 2008. Cri du chat mosaicism: an unusual case of partial deletion and partial deletion/duplication of the short arm of chromosome 5, leading to an unusual Cri du chat phenotype. *Genet. Couns.* 19: 381-386.
3. Sazawal, S., Kumar, B., Hasan, S.K., Dutta, P., Kumar, R., Chaubey, R., Mir, R. and Saxena, R. 2009. Haematological & molecular profile of acute myelogenous leukaemia in India. *Indian J. Med. Res.* 129: 256-261.
4. Eisenmann, K.M., Dykema, K.J., Matheson, S.F., Kent, N.F., DeWard, A.D., West, R.A., Tibes, R., Furge, K.A. and Alberts, A.S. 2009. 5q- myelodysplastic syndromes: chromosome 5q genes direct a tumor-suppression network sensing actin dynamics. *Oncogene* 28: 3429-3441.
5. Wang, J.C. and Khan, A. 2010. Large distal 5p deletion with hemifacial microsomia and absence of Cri-du-chat syndrome. *Clin. Dysmorphol.* 19: 38-39.
6. Yamamoto, K., Wakahashi, K., Okamura, A., Katayama, Y., Shimoyama, M. and Matsui, T. 2010. Two further cases of myelodysplastic syndrome and acute myeloid leukemia with der(5;19)(p10;q10): association with abnormalities involving chromosomes 12 and 21. *Leuk. Res.* 34: e38-e41.

CHROMOSOMAL LOCATION

Genetic locus: Zswim6 (mouse) mapping to 13 D2.1.

PRODUCT

ZSWIM6 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 ZSWIM6 shRNA Plasmid (m): sc-155847-SH and ZSWIM6 shRNA (m) Lentiviral Particles: sc-155847-V as alternate gene silencing products.

For independent verification of ZSWIM6 (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-155847A, sc-155847B and sc-155847C.

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

ZSWIM6 siRNA (m) is recommended for the inhibition of ZSWIM6 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 ZSWIM6 gene expression knockdown using RT-PCR Primer: ZSWIM6 (m)-PR: sc-155847-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.

PROTOCOLS

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