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SANTA CRUZ BIOTECHNOLOGY, INC.

SLC35A5 siRNA (m): sc-153531

BACKGROUND

SLC35A5 (solute carrier family 35, member A5) is a 424 amino acid multi-pass membrane protein belonging to the nucleotide-sugar transporter family and the SLC35A subfamily. The gene that encodes SLC35A5 contains 21,496 bases and maps to human chromosome 3p21.31. As one of the largest human chromosomes, human chromosome 3 has the lowest rate of segmental duplication in the genome. It also contains a chemokine receptor gene group as well as a number of loci involved in multiple human cancers. 8.8 genes per Mb is the average gene density for chromosome 3, making it one of the more gene-poor chromosomes. Although the average gene density is low, the genes that make up chromosome 3 are larger than average and make up about 49% of the chromosome. A 13.6-cM region on 3p21.31-21.2, where a tumor suppressor gene cluster is located, is believed to be a novel locus for nasopharyngeal carcinoma.

REFERENCES

1. Braga, E.A., et al. 2003. New tumor suppressor genes in hot spots of human chromosome 3: new methods of identification. Mol. Biol. 37: 194-211.
2. Xiong, W., et al. 2004. A susceptibility locus at chromosome 3p21 linked to familial nasopharyngeal carcinoma. Cancer Res. 64: 1972-1974.
3. Jalkanen, J., et al. 2006. Novel epididymal protease inhibitors with Kazal or WAP family domain. Biochem. Biophys. Res. Commun. 349: 245-254.
4. Zeng, Z., et al. 2006. Family-based association analysis validates chromosome 3p21 as a putative nasopharyngeal carcinoma susceptibility locus. Genet. Med. 8: 156-160.
5. Muzny, D.M., et al. 2006. The DNA sequence, annotation and analysis of human chromosome 3. Nature 440: 1194-1198.
6. Wapenaar, M.C., et al. 2007. The SPINK gene family and celiac disease susceptibility. Immunogenetics 59: 349-357.
7. Cesari, A., et al. 2010. Regulated serine proteinase lytic system on mammalian sperm surface: there must be a role. Theriogenology 74: 699-711.

CHROMOSOMAL LOCATION

Genetic locus: Slc35a5 (mouse) mapping to 16 B5.

PRODUCT

SLC35A5 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 SLC35A5 shRNA Plasmid (m): sc-153531-SH and SLC35A5 shRNA (m) Lentiviral Particles: sc-153531-V as alternate gene silencing products.

For independent verification of SLC35A5 (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-153531A, sc-153531B and sc-153531C.

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

SLC35A5 siRNA (m) is recommended for the inhibition of SLC35A5 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 SLC35A5 gene expression knockdown using RT-PCR Primer: SLC35A5 (m)-PR: sc-153531-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.

PROTOCOLS

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