# ZNF367 siRNA (h): sc-92777



The Power to Question

#### **BACKGROUND**

ZNF367 (zinc finger protein 367), also known as ZFF29, is a 350 amino acid nuclear protein that exists as two alternatively spliced isoforms and acts as a transcriptional activator. Containing two  $\rm C_2H_2$ -type zinc fingers, ZNF367 belongs to the Krüppel  $\rm C_2H_2$ -type zinc-finger protein family. The gene that encodes ZNF367 consists of approximately 32,447 bases and maps to human chromosome 9q22.32. Housing over 900 genes, chromosome 9 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. Mutations in DFNB31, located on human chromosome 9, are associated with Usher syndrome type 2, which is characterized by severe rod-cone dystrophy and varying degrees of hearing impairment. Notably, chromosome 9 encompasses the largest interferon family gene cluster.

## **REFERENCES**

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- 3. Burmeister, T., et al. 2007. Atypical Bcr-Abl mRNA transcripts in adult acute lymphoblastic leukemia. Haematologica 92: 1699-1702.
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- 7. Gold-von Simson, G., et al. 2009. Kinetin in familial dysautonomia carriers: implications for a new therapeutic strategy targeting mRNA splicing. Pediatr. Res. 65: 341-346.
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- Audo, I., et al. 2011. A novel DFNB31 mutation associated with Usher type 2 syndrome showing variable degrees of auditory loss in a consanguineous Portuguese family. Mol. Vis. 17: 1598-1606.

### **CHROMOSOMAL LOCATION**

Genetic locus: ZNF367 (human) mapping to 9q22.32.

#### **PROTOCOLS**

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

#### **PRODUCT**

ZNF367 siRNA (h) is a pool of 2 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 ZNF367 shRNA Plasmid (h): sc-92777-SH and ZNF367 shRNA (h) Lentiviral Particles: sc-92777-V as alternate gene silencing products.

For independent verification of ZNF367 (h) gene silencing results, we also provide the individual siRNA duplex components. Each is available as 3.3 nmol of lyophilized siRNA. These include: sc-92777A and sc-92777B.

#### 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**

ZNF367 siRNA (h) is recommended for the inhibition of ZNF367 expression in human 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 ZNF367 gene expression knockdown using RT-PCR Primer: ZNF367 (h)-PR: sc-92777-PR (20  $\mu$ l). Annealing temperature for the primers should be 55-60° C and the extension temperature should be 68-72° C.

#### **SELECT PRODUCT CITATIONS**

 Shi, H., et al. 2020. The potential therapeutic role of exosomal microRNA-520b derived from normal fibroblasts in pancreatic cancer. Mol. Ther. Nucleic Acids 20: 373-384.

#### **RESEARCH USE**

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

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