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### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 



# Ribosomal Protein L28 siRNA (h): sc-44078

## BACKGROUND

The genes encoding for mammalian ribosomal proteins comprise multigene families that consist predominantly of multiple processed pseudogenes and one functional intro-containing gene within their coding regions. Ribosomes, the organelles that catalyze protein synthesis, consist of a small 40S subunit and a large 60S subunit. 60S Ribosomal Protein L28 is encoded by the RPL28 gene. This protein, which is a structural constituent of the Ribosome, is an RNA binding protein involved in protein biosynthesis.

## REFERENCES

- Gross, T., Nischt, R., Gatermann, K., Swida, U. and Kaufer, N.F. 1988. Primary structure of the Ribosomal Protein gene S6 from *Schizosaccharomyces pombe*. *Curr. Genet.* 13: 57-63.
- Lott, J.B. and Mackie, G.A. 1988. Isolation and characterization of cloned cDNAs that code for human Ribosomal Protein S6. *Gene* 65: 31-39.
- Heinze, H., Arnold, H.H., Fischer, D. and Kruppa, J. 1988. The primary structure of the human Ribosomal Protein S6 derived from a cloned cDNA. *J. Biol. Chem.* 263: 4139-4144.
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- Feo, S., Davies, B. and Fried, M. 1992. The mapping of seven intron-containing Ribosomal Protein genes shows they are unlinked in the human genome. *Genomics* 13: 201-207.
- Frigerio, J.M., Dagorn, J.C. and Iovanna, J.L. 1995. Cloning, sequencing and expression of the L5, L21, L27a, L28, S5, S9, S10 and S29 human Ribosomal Protein mRNAs. *Biochim. Biophys. Acta* 1262: 64-68.
- Hernandez, V.P. and Fallon, A.M. 1999. Ribosomal Protein S6 cDNA from two *Aedes* mosquitoes encodes a carboxyl-terminal extension that resembles Histone H1 proteins. *Genetica* 106: 263-267.

## CHROMOSOMAL LOCATION

Genetic locus: RPL28 (human) mapping to 19q13.42.

## PRODUCT

Ribosomal Protein L28 siRNA (h) 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 Ribosomal Protein L28 shRNA Plasmid (h): sc-44078-SH and Ribosomal Protein L28 shRNA (h) Lentiviral Particles: sc-44078-V as alternate gene silencing products.

For independent verification of Ribosomal Protein L28 (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-44078A, sc-44078B and sc-44078C.

## RESEARCH USE

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

## 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

Ribosomal Protein L28 siRNA (h) is recommended for the inhibition of Ribosomal Protein L28 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  $\mu$ 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 Ribosomal Protein L28 gene expression knockdown using RT-PCR Primer: Ribosomal Protein L28 (h)-PR: sc-44078-PR (20  $\mu$ l, 469 bp). Annealing temperature for the primers should be 55-60° C and the extension temperature should be 68-72° C.

## PROTOCOLS

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