

Gas2L2 siRNA (h): sc-93917

BACKGROUND

Gas2L2 (growth arrest-specific 2 like 2), also known as GAR17, is an 880 amino acid protein that belongs to the GAS2 family and contains one CH (calponin-homology) domain and a GAR domain. Localizing to the cytoplasm and cytoskeleton, Gas2L2 is expressed primarily in skeletal muscles. Gas2L2 may be a component of the crosslink microtubules and microfilaments in the cytoskeleton. Gas2L2 exists as two alternatively spliced isoforms and is encoded by a gene that maps to human chromosome 17q12 and mouse chromosome 11 C. Chromosome 17 makes up over 2.5% of the human genome with about 81 million bases encoding over 1,200 genes. Li-Fraumeni syndrome, Alexander disease, Birt-Hogg-Dube syndrome and Canavan disease are also associated with chromosome 17.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: GAS2L2 (human) mapping to 17q12.

PROTOCOLS

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

PRODUCT

Gas2L2 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 μ M solution once resuspended using protocol below. Suitable for 50-100 transfections. Also see Gas2L2 shRNA Plasmid (h): sc-93917-SH and Gas2L2 shRNA (h) Lentiviral Particles: sc-93917-V as alternate gene silencing products.

For independent verification of Gas2L2 (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-93917A, sc-93917B and sc-93917C.

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

Gas2L2 siRNA (h) is recommended for the inhibition of Gas2L2 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 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 Gas2L2 gene expression knockdown using RT-PCR Primer: Gas2L2 (h)-PR: sc-93917-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.