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Olfr1461 siRNA (m): sc-150594

BACKGROUND

Olfactory receptors are G protein-coupled receptors that localize to the cilia of olfactory sensory neurons where they display affinity for and bind to a variety of odor molecules. The genes encoding olfactory receptors comprise the largest family in the human genome. The binding of olfactory receptor proteins to odor molecules triggers a signal transduction that propagates nerve impulses throughout the body, ultimately leading to transmission of the signal to the brain and the subsequent perception of smell. Olfr1461 (olfactory receptor MOR202-35), is a 312 amino acid protein belonging to the G protein-coupled receptor 1 family. The gene encoding Olfr1461 maps to mouse chromosome 19 A.

REFERENCES

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3. Zhang, X. and Firestein, S. 2002. The olfactory receptor gene superfamily of the mouse. *Nat. Neurosci.* 5: 124-133.
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6. Nguyen-Ba-Charvet, K.T., Di Meglio, T., Fouquet, C. and Chedotal, A. 2008. Robos and slits control the pathfinding and targeting of mouse olfactory sensory axons. *J. Neurosci.* 28: 4244-4249.

CHROMOSOMAL LOCATION

Genetic locus: Olfr1461 (mouse) mapping to 19 A.

PRODUCT

Olfr1461 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 Olfr1461 shRNA Plasmid (m): sc-150594-SH and Olfr1461 shRNA (m) Lentiviral Particles: sc-150594-V as alternate gene silencing products.

For independent verification of Olfr1461 (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-150594A, sc-150594B and sc-150594C.

PROTOCOLS

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

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

Olfr1461 siRNA (m) is recommended for the inhibition of Olfr1461 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 Olfr1461 gene expression knockdown using RT-PCR Primer: Olfr1461 (m)-PR: sc-150594-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.