OR2B3 siRNA – Putative Olfactory Receptor 2b3 (Human)

PRODUCT OVERVIEW

Product Name	OR2B3, siRNA
Full Product Name	OR2B3 siRNA (Human)
Product Gene Name	OR2B3 sirna
Product Synonym Names	OR2B3P; Putative olfactory receptor 2B3; Hs6M1-1; Olfactory receptor OR6-14; OR6-4; Olfactory receptor 6-4
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	OR2B3 siRNA (Human) is a target-specific 19-23 nt siRNA oligo duplexes designed to knock down gene expression.
Preparation and Storage	Shipped at 4 degree C. Store at -20 degree C for one year.
Molecular Weight	35,543 Da
3D Structure	ModBase 3D Structure for O76000
Negative Control	siRNA Negative Control (Catalog# MBS8241404) is a non-targeting 21 nt siRNA recommended as a negative control for experiments using targeted siRNA transfection.
Quality Control	Oligonucleotide synthesis is monitored base by base through trityl analysis to ensure appropriate coupling efficiency. The oligo is subsequently purified by affinity-solid phase extraction. The annealed RNA duplex is further analyzed by mass spectrometry to verify the exact composition of the duplex. Each lot is compared to the previous lot by mass spectrometry to ensure maximum lot-to-lot consistency.
Directions for Use	We recommends transfection with 100 nM siRNA 48 to 72 hours prior to cell lysis. Before resuspending, briefly centrifuge the tube to ensure the lyophilized siRNA is at the bottom of the tube. Resuspend the siRNA oligos to an appropriate concentration with DEPC water. For each vial, suitable for 250 transfections in 24 well plate (20 pmol for each well).
Components	We offer pre-designed sets of 3 different target-specific siRNA oligo duplexes of human OR2B3 gene. Each vial contains 5 nmol of lyophilized siRNA. The duplexes can be transfected individually or pooled together to achieve knockdown of the target gene, which is most commonly assessed by qPCR or western blot. Our siRNA oligos are also chemically modified (2'-OMe) at no extra charge for increased stability and enhanced knockdown in vitro and in vivo.
Applications Tested/Suitable for OR2B3 sirna	RNA Interference (RNAi)
Related Product Information for OR2B3 sirna	MBS8221127 is an siRNA targeting OR2B3. Also known as OR2B3 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit OR2B3 expression using RNA interference
Other Notes	Small volumes of OR2B3 sirna vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for OR2B3. It may not necessarily be applicable to this product.

NCBI GI #	52421347

NCBI GeneID	442184
NCBI Accession #	NP_001005226.1
UniProt Primary Accession #	O76000
UniProt Secondary Accession #	Q5ST41; Q96R13; B0UYQ1
UniProt Related Accession #	O76000
GenBank Nucleotide #	NM_001005226.2
NCBI Official Full Name	putative olfactory receptor 2B3
NCBI Official Synonym Full Names	olfactory receptor, family 2, subfamily B, member 3
NCBI Official Symbol	OR2B3
NCBI Official Synonym Symbols	6M1-1; OR6-4; OR2B3P; OR6-14
UniProt Protein Name	Putative olfactory receptor 2B3
UniProt Synonym Protein Names	Hs6M1-1; Olfactory receptor OR6-14; OR6-4; Olfactory receptor 6-4
Protein Family	Putative olfactory receptor
UniProt Gene Name	OR2B3
UniProt Synonym Gene Names	OR2B3P; OR6-4; Olfactory receptor 6-4
UniProt Entry Name	OR2B3_HUMAN
NCBI Protein Information	putative olfactory receptor 2B3
NCBI Summary for OR2B3	Olfactory receptors interact with odorant molecules in the nose, to initiate a neuronal response that triggers the perception of a smell. The olfactory receptor proteins are members of a large family of G-protein-coupled receptors (GPCR) arising from single coding-exon genes. Olfactory receptors share a 7-transmembrane domain structure with many neurotransmitter and hormone receptors and are responsible for the recognition and G protein-mediated transduction of odorant signals. The olfactory receptor gene family is the largest in the genome. The nomenclature assigned to the olfactory receptor genes and proteins for this organism is independent of other organisms. [provided by RefSeq, Jul 2008]
UniProt Comments for OR2B3	OR2B3P: Odorant receptor (Potential). Belongs to the G-protein coupled receptor 1 family. Protein type: GPCR, family 1; Membrane protein, integral; Membrane protein, multi-pass; Receptor, GPCR Chromosomal Location of Human Ortholog: 6p22.1 Cellular Component: integral to membrane; plasma membrane Molecular Function: G-protein coupled receptor activity; olfactory receptor activity Biological Process: G-protein coupled receptor protein signaling pathway; detection of chemical stimulus involved in sensory perception of smell
Research Articles on OR2B3	**1.** Observational study of gene-disease association. (HuGE Navigator)
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.

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