OR2A14 siRNA – Olfactory Receptor 2a14 (Human)

PRODUCT OVERVIEW

Product Name	OR2A14, siRNA
Full Product Name	OR2A14 siRNA (Human)
Product Gene Name	OR2A14 sirna
Product Synonym Names	OR2A14P; OR2A6; Olfactory receptor 2A14; OST182; Olfactory receptor 2A6; Olfactory receptor OR7-12
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	OR2A14 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	34,993 Da
3D Structure	ModBase 3D Structure for Q96R47
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 OR2A14 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 OR2A14 sirna	RNA Interference (RNAi)
Related Product Information for OR2A14 sirna	MBS8209409 is an siRNA targeting OR2A14. Also known as OR2A14 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit OR2A14 expression using RNA interference
Other Notes	Small volumes of OR2A14 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 OR2A14. It may not necessarily be applicable to this product.

NCBI GI #	48717236

NCBI GeneID	135941
NCBI Accession #	NP_001001659.1
UniProt Primary Accession #	Q96R47
UniProt Secondary Accession #	Q6IF41; Q8NGT8
UniProt Related Accession #	Q96R47
GenBank Nucleotide #	NM_001001659.1
NCBI Official Full Name	olfactory receptor 2A14
NCBI Official Synonym Full Names	olfactory receptor, family 2, subfamily A, member 14
NCBI Official Symbol	OR2A14
NCBI Official Synonym Symbols	OR2A6; OST182; OR2A14P
UniProt Protein Name	Olfactory receptor 2A14
UniProt Synonym Protein Names	OST182; Olfactory receptor 2A6; Olfactory receptor OR7-12
Protein Family	Olfactory receptor
UniProt Gene Name	OR2A14
UniProt Synonym Gene Names	OR2A14P; OR2A6
UniProt Entry Name	O2A14_HUMAN
NCBI Protein Information	olfactory receptor 2A14
NCBI Summary for OR2A14	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 OR2A14	OR2A14: Odorant receptor (Potential). Belongs to the G-protein coupled receptor 1 family. Protein type: Membrane protein, multi-pass; Receptor, GPCR; GPCR, family 1; Membrane protein, integral Chromosomal Location of Human Ortholog: 7q35 Cellular Component: plasma membrane; integral to 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
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