# OR8K5 siRNA – Olfactory Receptor 8k5 (Human)

## PRODUCT OVERVIEW

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| **Product Name** | OR8K5, siRNA |
| **Full Product Name** | OR8K5 siRNA (Human) |
| **Product Gene Name** | OR8K5 sirna |
| **Product Synonym Names** | Olfactory receptor 8K5; Olfactory receptor OR11-174 |
| **Host** | Synthetic |
| **Species Reactivity** | Human |
| **Form/Format** | Lyophilized powder |
| **Purity/Purification** | > 97% |
| **Specificity** | OR8K5 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** | 35,190 Da |
| **3D Structure** | ModBase 3D Structure for Q8NH50 |
| **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 OR8K5 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 OR8K5 sirna** | RNA Interference (RNAi) |
| **Related Product Information for OR8K5 sirna** | MBS8237462 is an siRNA targeting OR8K5. Also known as OR8K5 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit OR8K5 expression using RNA interference |
| **Other Notes** | Small volumes of OR8K5 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 OR8K5. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 145279179 |

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| **NCBI GeneID** | 219453 |
| **NCBI Accession #** | NP_001004058.2 |
| **UniProt Primary Accession #** | Q8NH50 |
| **UniProt Secondary Accession #** | Q6IFB5 |
| **UniProt Related Accession #** | Q8NH50 |
| **GenBank Nucleotide #** | NM_001004058.2 |
| **NCBI Official Full Name** | olfactory receptor 8K5 |
| **NCBI Official Synonym Full Names** | olfactory receptor, family 8, subfamily K, member 5 |
| **NCBI Official Symbol** | OR8K5 |
| **NCBI Official Synonym Symbols** | OR11-174 |
| **UniProt Protein Name** | Olfactory receptor 8K5 |
| **UniProt Synonym Protein Names** | Olfactory receptor OR11-174 |
| **Protein Family** | Olfactory receptor |
| **UniProt Gene Name** | OR8K5 |
| **UniProt Entry Name** | OR8K5_HUMAN |
| **NCBI Protein Information** | olfactory receptor 8K5 |
| **NCBI Summary for OR8K5** | 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 OR8K5** | OR8K5: Odorant receptor (Potential). Belongs to the G-protein coupled receptor 1 family.<br><br>Protein type: Membrane protein, integral; Membrane protein, multi-pass; GPCR, family 1; Receptor, GPCR<br><br>Chromosomal Location of Human Ortholog: 11q12.1<br><br>Cellular Component: integral to membrane; plasma membrane<br><br>Molecular Function: G-protein coupled receptor activity; olfactory receptor activity<br><br>Biological Process: G-protein coupled receptor protein signaling pathway; detection of chemical stimulus involved in sensory perception of smell |
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