

## Product datasheet for RC212525

### OR4C46 (NM\_001004703) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	OR4C46 (NM_001004703) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	OR4C46
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC212525 representing NM_001004703 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGAATAGGAATAACATGACAGAGTTTGTGGTGGGGCTTACAGAGAATCCAAAGATGCAGAAAA  
TCATATTTGTTGTGTTTTTGTTCATCTATATCACTGTGGTGGGATATGTGCTCATTGTGGTCACCAT  
CACTGCCAGCCCATCACTGGGGTCCCCATGTACCTTCCCTGGCCTATCTCTCCTTTATTGATGCCTGC  
TATTCCTCTGTCAATACCCTAACCTGATCACACATTCATCTATGAAAGAAGGCCATCCTATTCAATG  
GATGCATGACTCAAGTCTTTGGAGAACATTTCTCGGAGGTGCAGAGGGCATCCTACTTACTGTGATGGC  
CTATGACCACTATGTGGCCATCTGCAAGCCCTTGCACTATATGACTATCATGAACCAGTGTGTGTGTC  
CTGCTAATGGGAGTGGTGTGGATGGGAGGCTTTCTTCATGCAACCATACAGATCCTCTTCACTTCCAAT  
TACCTTCTGTGGTCTAATGTCATAGATCACTTTATGTGTGATCTGAACCCTTTGCTCAACCTCGCCTG  
CACTGACACCCATATGCTGGAACCTTCATTGCTGCCAACAGTGGATTTCATCTGCTTGTAAACTTTGCC  
CTCCTGCTGGTCTCCTATGTGGTCATCTGTGCTCCCTAAGGACTCATAGCTTGGAGGCAAGGCACAAAG  
CCCTCTCCACCTGTGTCTCCACATCACGGTTGCATCTTATTCTTTGTGCCCTGCATATTTGTGTACAT  
GAGACCTGCAGCTACTTTACCTATTGATAAAGCAGTTGCTATATTCTACACTATGATAACTCCTATGTTA  
AACCCCTAATCTATACCTTGAAGAATGCCAGATGAAAAATGCCATCAGGAAATTGTGTAGTAGAAAGG  
ACATTTCAAGTGACAAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC212525 representing NM\_001004703  
Red=Cloning site Green=Tags(s)

MENRNNMTEFVLLGLTENPKMQKIIFFVFFVIYIITVVGYVLIVVTITASPSLGGSPMYLSLAYLSFIDAC  
 YSSVNTPNLITHSLYGKKAIFNGCMTQVFGHEFFGGAEGILLTMAYDHYVAICKPLHYMTIMNQCVCA  
 LLMGVVWGGFLHATIQLIFIFQLPFCGPNVIDHFMCNPLNACTDTHMLELFIAANSGFICLLNFA  
 LLLVSYVVILCSLRTHSLEARHKALSTCVSHITVVILFFVPCIFVYMRPAATLPIDKAVAIFYTMITPML  
 NPLIYTLKNAQMKNAIRKLCRSKDISGDK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8002\\_e07.zip](https://cdn.origene.com/chromatograms/mk8002_e07.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001004703

**ORF Size:** 927 bp

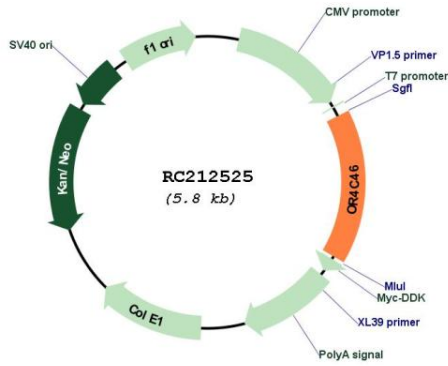
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001004703.1</a> , <a href="#">NP_001004703.1</a>
<b>RefSeq Size:</b>	930 bp
<b>RefSeq ORF:</b>	930 bp
<b>Locus ID:</b>	119749
<b>UniProt ID:</b>	<a href="#">A6NHA9</a>
<b>Cytogenetics:</b>	11q11
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Olfactory transduction
<b>MW:</b>	34.4 kDa
<b>Gene Summary:</b>	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]

Product images:



Circular map for RC212525