

## Product datasheet for **RC223984**

### OR4C16 (NM\_001004701) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** OR4C16 (NM\_001004701) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** OR4C16  
**Synonyms:** OR11-135  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC223984 representing NM\_001004701  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCAACTGAATAATAATGTGACTGAGTTCATTCTGCTTGGATTGACACAGGATCCTTTTTGGAAGAAA  
 TAGTGTGGTTATTTTTTTCGCTCTACTTGGGAACACTGTTGGGTAATTTGCTAATCATTATTAGTGT  
 CAAGGCCAGCCAGGCACCTAAGAACCAATGTTCTTCTCCTTTTCTACTTATCTTTATCTGATACTTGC  
 CTCTCTACTTCCATAGCCCCTAGAATGATTGTGGATGCCCTTTGAAGAAGACAACATCTCCTTCAGCG  
 AGTGCATGATCCAAGTCTTTTCATCCCATGTCTTTGGCTGCCTGGAGATCTTCATCCTCATCCTCACGGC  
 TGTTGACCCTATGTGGACATCTGTAAGCCCCTGCACTACATGACCATCATAAGCCAGTGGGTCTGTGGT  
 GTTTTGATGGCTGTGGCCTGGGTGGGATCCTGTGTGCATTCTTTAGTTCAGATTTTTCTTGCCCTGAGTT  
 TGCCATTCTGTGGCCCAATGTGATCAATCACTGTTTCTGTGACTTGCAGCCCTTGTGAAACAAGCCTG  
 TTCAGAAACCTATGTGGTTAACCTACTCCTGGTTTCCAATAGTGGGGCCATTTGTGCAGTGAGTTATGTC  
 ATGCTAATATTCTCCTATGTCATCTTCTTGATTCTCTGAGAAACCACAGTGTGAAGTGATAAAGAAAG  
 CACTTCCACATGTGTCTCCACATCATTGTGGTCATCTTGTCTTTGGACCTTGCATATTTATGTACAC  
 ATGCCCTGCAACCGTATCCCCATGGATAAGATGATAGCTGTATTTTATACAGTTGGAACATCTTTTCTC  
 AACCTGTGATTTACACGCTGAAGAATACAGAAGTGAAAAGTGCCATGAGGAAGCTTTGGAGCAAGAAAT  
 TGATCACAGATGACAAAAGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC223984 representing NM\_001004701  
Red=Cloning site Green=Tags(s)

MQLNNNVTEFILLGLTQDPFWKKIVFVIFLRLYLGTLLGNLLIIISVKASQALKNPMFFFLFYLSLSDTC  
 LSTSIAPRMIVDALLKKTTFISFSECMIQVFSSHVFGCLEIFILILTAVDRYVDICKPLHYMTIISQWVCG  
 VLMVAWVWGSCVHSLVQIFLALSLPFCGPNVINHCFCDLQPLLKQACSETYVVNLLLVSNSGAICAVSYV  
 MLIFSYVIFLHSLRNHSAEVIKKALSTCVSHIIVVILFFGPCIFMYTFCPATVFPMDKMIAVFYTVGTSTFL  
 NPVIYTLKNTEVKSAMRKLWSKKLITDDKR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8002\\_e05.zip](https://cdn.origene.com/chromatograms/mk8002_e05.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001004701

**ORF Size:** 930 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).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
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.

**RefSeq:** [NM\\_001004701.1](#), [NP\\_001004701.1](#)

**RefSeq Size:** 933 bp

**RefSeq ORF:** 933 bp

**Locus ID:** 219428

**UniProt ID:** [Q8NGL9](#)

**Cytogenetics:** 11q11

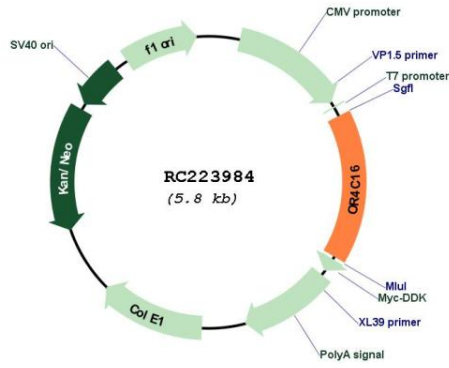
**Protein Families:** Transmembrane

**Protein Pathways:** Olfactory transduction

**MW:** 34.8 kDa

**Gene Summary:** 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. This olfactory receptor gene is a segregating pseudogene, where some individuals have an allele that encodes a functional olfactory receptor, while other individuals have an allele encoding a protein that is predicted to be non-functional. [provided by RefSeq, Jun 2015]

Product images:



Circular map for RC223984