

## Product datasheet for RC221750

### OR6Q1 (NM\_001005186) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	OR6Q1 (NM_001005186) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	OR6Q1
Synonyms:	OR11-226
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC221750 representing NM_001005186 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCAACCATATACCAAAAAGTGGACCCAGGTAAGTGAATTTGTCATGATGGGCTTTGCTGGCATCCATG  
AAGCACACCTCCTCTTCATACTCTTCCTCACCATGTACCTGTTACCTTGGTGGAGAATTTGGCCAT  
CATTTTAGTGGTGGGTTGGACCACCGACTACGGAGACCCATGTATTTCTCCTGACACACTTGCCTGC  
CTTGAAATCTGGTACACTTCTGTTACAGTGCCCAAGATGCTGGCTGGTTTTATTGGGGTGGATGGTGCA  
AGAATATCTCTTATGCTGGTTGCCTATCCAGCTCTTCATCTTCACCTTTCTTGGGGCAACTGAGTGTTT  
CCTACTGGCTGCCATGGCCTATGATCGTTATGTGGCCATTTGTATGCCTCTCCACTATGGGGCTTTGTG  
TCCTGGGGCACCTGCATCCGTCTGGCAGCTGCCTGTTGGCTGGTAGGTTTCTCACACCCATCTTGCCAA  
TCTACCTCTTGTCTCAGCTAACATTTTGTGGCCAAATGTCATTGACCATTTCTCCTGTGATGCCTCACC  
CTTGCTAGCCTTGTGCTGCTCAGATGCTCACTTGGAAAGGAGACTGTGGATTTCTGGTGTCTCTGGCTGTG  
CTACTGGCCTCCTCTATGGTCATTGCTGTGCTATGGCAACATCGTCTGGACACTGCTGCACATCCGCT  
CAGCTGCTGAGCGCTGGAAGGCCTTCTACCTGTGCAGCTCACCTGACTGTGGTGAAGCCTTCTATGG  
CACTCTTTTCTTATGTATGTCCAGACCAAGGTGACCTCCTCCATCAACTCAACAAGGTGGTATCTGTC  
TTCTACTCTGTTGTCACGCCATGCTCAATCCTCTCATCTACAGTCTTAGGAACAAGGAAGTGAAGGGAG  
CTCTGGGTCGAGTCTTTCTCAACTTTTGAAGGGACAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAAGTCACTCAGAAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC221750 representing NM\_001005186  
Red=Cloning site Green=Tags(s)

MQPYTKNWTQVTEFVMMGFAGIHEAHLFFILFLTMYLFTLVENLAILVGLDHRLRRPMYFFLTHLSC  
 LEIWYTSVTVPKMLAGFIGVDGGKNISYAGLSQLFIFTLGATECFLLAAMAYDRYVAICMPLHYGAFV  
 SWGTCIRLAAACWLVGFLTPILPIYLLSQLTFCGPNVIDHFSCDASPLLALSCSDVTWKETVDFLVSLAV  
 LLASSMVIAVSYGNIVWTLHLHIRSAAERWKAFTCA AHLTVVSLFYGTLFFMYVQTKVTSSINFNKVVSV  
 FYSVVTPLNPLIYSLRNKEVKGALGRVFSLNFWKGQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8003\\_c01.zip](https://cdn.origene.com/chromatograms/mk8003_c01.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001005186

**ORF Size:** 951 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\\_001005186.1](#), [NP\\_001005186.1](#)

**RefSeq Size:** 954 bp

**RefSeq ORF:** 954 bp

**Locus ID:** 219952

**UniProt ID:** [Q8NGQ2](#)

**Cytogenetics:** 11q12.1

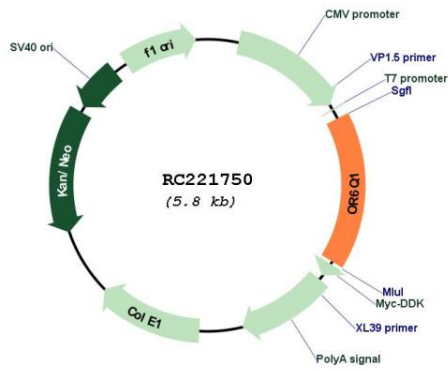
**Protein Families:** Transmembrane

**Protein Pathways:** Olfactory transduction

**MW:** 35.6 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, Jul 2015]

Product images:



Circular map for RC221750