

## Product datasheet for RC216485

### OR6T1 (NM\_001005187) Human Tagged ORF Clone

#### Product data:

|                           |                                                                                              |
|---------------------------|----------------------------------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                                                          |
| Product Name:             | OR6T1 (NM_001005187) Human Tagged ORF Clone                                                  |
| Tag:                      | Myc-DDK                                                                                      |
| Symbol:                   | OR6T1                                                                                        |
| Synonyms:                 | OR11-277                                                                                     |
| Mammalian Cell Selection: | Neomycin                                                                                     |
| Vector:                   | pCMV6-Entry (PS100001)                                                                       |
| E. coli Selection:        | Kanamycin (25 ug/mL)                                                                         |
| ORF Nucleotide Sequence:  | <p>&gt;RC216485 representing NM_001005187</p> <p>Red=Cloning site Blue=ORF Green=Tags(s)</p> |

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGAACCCTGAAACTGGACTCAGGTAACAAGCTTTGTCCTTCTGGGTTTCCCCAGTAGCCACCTCATAC  
 AGTTCCTGGTGTTCTGGGGTTAATGGTGACCTACATTGTAACAGCCACAGGCAAGCTGCTAATTATTGT  
 GCTCAGCTGGATAGACCAACGCCTGCACATACAGATGTACTTCTCCTGCGGAATTTCTCCTTCTGGAG  
 CTGTTGCTGGTAAGTGTGTGGTCCCAAGATGCTTGTGTCGTCATCCTCACGGGGGATCACACCATCTCAT  
 TTGTCAGCTGCATCATCCAGTCTACCTCTACTTCTTTCTAGGCACCACTGACTTCTTCTTGGCCGT  
 CATGTCTCTGGATCGTTACCTGGCAATCTGCCGACCACTCCGCTATGAGACCCTGATGAATGGCCATGTC  
 TGTTCCTCAACTAGTGCTGGCCTCCTGGCTAGCTGGATTCTCTGGGTCTTTGCCCACTGTCCTCATGG  
 CCAGCCTGCCTTTCTGTGGCCCAATGGTATTGACCACTTCTTTCGTGACAGTTGGCCCTTGCTCAGGCT  
 TTCTTGTGGGGACACCCACCTGCTGAACTGGTGGCTTTCATGCTCTCTACGTTGGTGTTACTGGGCTCA  
 CTGGCTCTGACCTCAGTTTCTATGCCTGCATTCTTGCCACTGTTCTCAGGGCCCTACAGCTGCTGAGC  
 GAAGGAAAGCGTTTTCCACTGCGCCTCGCATCTTACAGTGGTGGTCATCATCTATGGCAGTTCCATCTT  
 TCTCTACATTCGTATGTCAGAGGCTCAGTCCAACTGCTCAACAAAGGTGCCTCCGTCTGAGCTGCATC  
 ATCACACCCCTCTGAACCAATTCATCTTCACTCTCCGAATGACAAGGTGCAGCAAGCACTGAGAGAAG  
 CCTTGGGTGGCCAGGCTCACTGCTGTGATGAACTGAGGGTCACAAGTCAAAGGAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA


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**Protein Sequence:** >RC216485 representing NM\_001005187  
 Red=Cloning site Green=Tags(s)

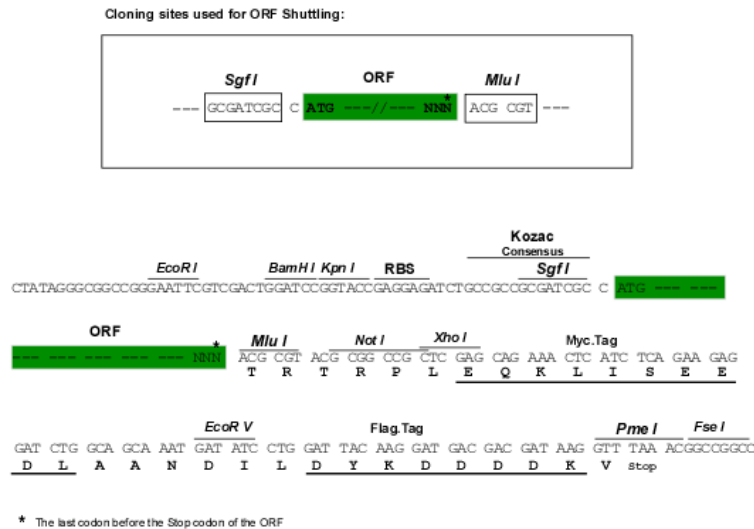
MNPENWTQVTSFVLLGFPSSHLIQFLVFLGLMVTYIVTATGKLLIIVLSWIDQRLHIQMYFFLRNFSFLE  
 LLLVTVVVPKMLVVILTDHTISFVSCIQSYLYFFLGTTDFLLAVMSLDRLAICRPLRYETLMNGHV  
 CSQVLVASWLAGFLWVLCPTVLMASLPFCGPNIDHFFRDSWPLLRLSCGDTHLLKLVAFMLSTLVLLGS  
 LALTSVSYACILATVLRAPTAERRKAFSTCASHLTVVVVIYGSIFLYIRMSEAQSKLLNKGASVLSCL  
 ITPLLNPFIFTLRNDKVQQALREALGWPRLTAVMKLRVTSQRK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8003\\_c02.zip](https://cdn.origene.com/chromatograms/mk8003_c02.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001005187

**ORF Size:** 969 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_001005187.1](#), [NP\\_001005187.1](#)

**RefSeq Size:** 972 bp

**RefSeq ORF:** 972 bp

**Locus ID:** 219874

**UniProt ID:** [Q8NGN1](#)

**Cytogenetics:** 11q24.1

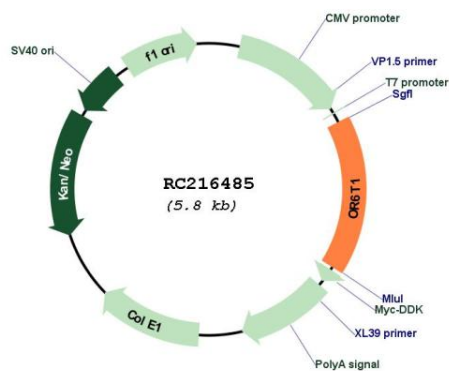
**Protein Families:** Transmembrane

**Protein Pathways:** Olfactory transduction

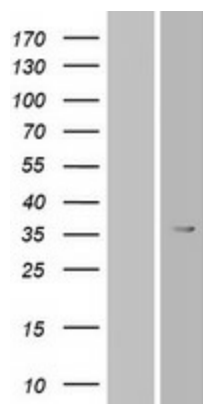
**MW:** 36.2 kDa

**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. [provided by RefSeq, Jul 2008]

## Product images:



Circular map for RC216485



Western blot validation of overexpression lysate (Cat# [LY423973]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC216485 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).