

## Product datasheet for MR214717

### Olfr1500 (NM\_001011831) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Olfr1500 (NM_001011831) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Olfr1500
Synonyms:	MOR212-4P
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR214717 representing NM_001011831 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTAAGGTGAATCTCACTTTGGTGACAGAGTTCCTCCTCATAGCATTCACTGAGCATCCTGAATGGG  
GGCTCCCTCTTTCCACCTGTTTTATTTATCTATCTCTTCACTTTGCTAGGGAACCTCAGGCATGATTGT  
TTTGATCCGCATGGATCGCAGGCTCCACACCCCAATGACTTCCTTCTAAGCCACCTCTCTTTCATGGAT  
ATCTGTTACTCCTCTGCTACTGTTCTCAGACAATGGCTGTGCTGTTGGAGCATGGGCGAGCTTTATCCT  
ATGCACGCTGTGTGCTCAGTTTTCTGTTTACTTTTTTTGGATCCATCGATTGCTACCTTTGGCTCT  
CATGGCCTACGACCGCTATGTGGCCGTGTGCCAGCCTTTGCTTTATGTCACCATAATGACACAGAAAGCC  
CTTCTAAGTTTTGTGGCTGGGGCTTACATTGCTGGCCTCCTCAGTGCCTTGGTGAGGACAATCTCAGCAT  
TCACCCTCTTTTTGTGAAACAATGAGATCGACTTTATTTTTTTGTGACCTTCTCCTCTGTTAAAGCT  
GACCTGTGGTGAGAGCTATATCCAGGAATTGGTGATTATTGTGTTTGCCATTTTTGTGTCATCCCTGCATGC  
ATGGTGGTGATTGTGTTTCTACCTGTTTCATCATTGTGGCCATTCTGAGGATCCCTTCCAGCAGGAGGCC  
GGCCAAGACCTTCTCAACATGTGCTCCACCTCACTGCAGTGTCACTTCTTTGGCACTCTCATT  
CATGTACCTGAGAGACAACCTCTGGTCAGGCCTCAGAAAAGGATCGAGTTGTGCTGTGTTCTACACAACA  
GTAATCCCATGTTGAATCCCTCATCTACAGTTTGGGAACAAGGAAGTGAAGGAAGCACTGAAAAATT  
TTCTCAATAGAGTGAAGACTTTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR214717 representing NM\_001011831  
Red=Cloning site Green=Tags(s)

MAKVNLTLVTEFLLIAFTEHPEWGLPLFHLFLFIYLFLLGNSGMIVLIRMDRRLHTPMYFLLSHLSFMD  
 ICYSSVTVPQTMVLLLEHGAALSYARCAVQFFLFTFFGSDICYLLALMAYDRYVAVCQPLLVTIMTQKA  
 LLSFVAGAYIAGLLSALVRTISAFTLFCGNNEIDFIFCDLPPLLKLTGSEYIQELVIIVFAIFVIPAC  
 MVVIVVSYLFIIVAILRIPSAGGRAKTFSTCASHLTAVSLFFGTLIFMYLRDMSGQASEKDRVVSVFYTT  
 VIPMLNPLIYSLRNKEVKEALKNFLNRVKTF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9022\\_g11.zip](https://cdn.origene.com/chromatograms/mm9022_g11.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001011831

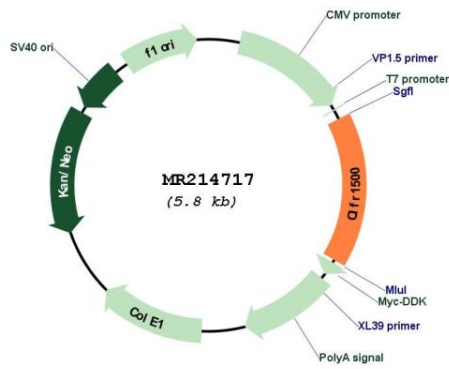
**ORF Size:** 933 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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>	<u><a href="#">NM_001011831.1</a></u> , <u><a href="#">NP_001011831.1</a></u>
<b>RefSeq Size:</b>	936 bp
<b>RefSeq ORF:</b>	936 bp
<b>Locus ID:</b>	258097
<b>Cytogenetics:</b>	19 A
<b>MW:</b>	35.4 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 MR214717