

## Product datasheet for MC213464

### Olfr281 (NM\_146280) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Olfr281 (NM\_146280) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Olfr281  
**Synonyms:** MOR160-5  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC213464 representing NM\_146280  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCCTGGAGCAACCACAGCGTCATCACGGAGTTCGTTCTCACCGGGCTCTCTGACGACCCCTGATCC  
 AGGCTCTACTTTTCGCGCTGTTCTGGGATTTACGTCCTCACCATGACGGGAACTGACGATGCTGCT  
 GGTGATCAGGGTACTCCACCTCCACACGCCATGTACTTCTCCTAAGTAACCTGTCCTTCCTGGAT  
 CTCTGTTCTCATCCGTCACGGTACCGAAGCTGCTGAAGGACCTGCTGTCTGCTAAGAAAACCATCTCTG  
 TAGAGGGCTGCCTGGCTCAGGTCTTCTCGTGTTCACTACTGCGGGAACCGAAGCCTTTCTCTGTCAAT  
 GATGGCGTACGACCGCTACGCGGCTGTCTGCCACCCGCTACTCTATGGGCAGATGATGAGCAACGAACTC  
 TGTCTGAAGTTGGTTTTGCTCTCATGGGCCTGGCCTCTCTCAGTTCAGTAGTCATTGTGCTCTTGGCGG  
 TGAACCTGGACTTCTGCGAGGCCACACCATACACCACTACACGTGTGAGTTACCCTCTCTTTCCCTTT  
 GTCTTGCTCAGATATCTCCATCAACGTGGACATCTTGATCTGCTTACCCTGCTGCACGGGCTGGGGACC  
 TTTCTCCCAATCTCTTTTCTTATGCCCGCATTGTATCCACCGTGTGAGCATGGAATCCACCACGGGGA  
 GAAGCAAGGCGTTAAACACCTGCTCTTCTCACCTCATAGCCGTGGTCTGTTTTTCGGGTCGGCTGAT  
 TCGTTATCTTATGCCACATCTGGCTCTTCTCTGGACTTGTCTCTTCTTGCAGTACAGCGCAGTCACG  
 CCCATGCTAAATCCCCTCATCTACAGCCTGAAGAACCAGGAGGTGAAGGCCGCTGTGAGAAGGACATTAG  
 GGAAGTGCTGCGATACTGGAG**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_146280  
**Insert Size:** 936 bp



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<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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>	<a href="#">NM_146280.1</a> , <a href="#">NP_666392.1</a>
<b>RefSeq Size:</b>	936 bp
<b>RefSeq ORF:</b>	936 bp
<b>Locus ID:</b>	258277
<b>Cytogenetics:</b>	15 F1
<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]