

## Product datasheet for MC214160

### Olfr1416 (NM\_147038) Mouse Untagged Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: Olfr1416 (NM\_147038) Mouse Untagged Clone  
 Tag: Tag Free  
 Symbol: Olfr1416  
 Synonyms: MOR103-3  
 Vector: pCMV6-Entry (PS100001)  
 E. coli Selection: Kanamycin (25 ug/mL)  
 Cell Selection: Neomycin  
 Fully Sequenced ORF: >MC214160 representing NM\_147038  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGAGGGGGGAGAACATACCAAGGTCAGCACCTTCATCCTGCTGGGCTTCCCCACAGCCCTGAGCTGC  
 AATACCTGCTCTCCTCCTCTTCTGCTCGCTACCTCTTTGTGCTGGTGGAGAACCTGACCATCATCCT  
 CACTGTCTGGAGCAGCGCTCCCTCCACAGACCCATGTACTACTCTCTGGGATCCTTGCTTTCTAGAG  
 ATCTGGTATGTGTCAGACATCATCCCCAAATGCTGGATGGCTTCTCTTGCAGAGGAAACGCATCTCTT  
 TCATTGGATGCATGACTCAGCTCTACTTCTCAGCTCCCTGGTATGTACAGAGTGTACTCCTGGCTTC  
 CATGGCCTATGACCGCTATGTGGCCATCTGCCACCCCTGCGCTACCAAGTCATCATGACCACAGGGCTG  
 TGTGTCCAGCTTGTGGCCTTCTCTTTGCTAGTGGCTTACCACCTCTGTGATTAAGGTCTACTTTATCT  
 CCAGCGCCACCTTCTGTGGCTCCAATGTCTTGAACCACTTCTTGTGACATCTCCCCATCCTCAAGCT  
 GGCTGCACTGACTTCTCTACTGCAGAGCTGGTGGACTTCATCCTGGCCTTCATCATTCTGGTGTCCCA  
 CTCTTGGCCACCATCTCCTATGGCCACATCACCTGGCTGTGCTGCCATCCCTTACGCCACAGGCC  
 GGTGGAGAGCCTTCTCCACCTGTGCTTCCACCTCACTGTGGTCACTTCTTCTACATGGCCATGATCTT  
 CATGTATGTGCGACCCAGGCCATTGATACCCGGAGCTCCAACAAGCTCATCTCTGCTGTGTACACCGTC  
 CTCACGCCATGATGAATCCTTTGATCTACTGTCTGAGGAATACTGAATTTAAGGATGCTGTGAGAAGAA  
 CTTTGGGATTGGGAAATACTCCCGAGTAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI  
 ACCN: NM\_147038  
 Insert Size: 939 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_147038.1</a> , <a href="#">NP_667249.1</a>
<b>RefSeq Size:</b>	939 bp
<b>RefSeq ORF:</b>	939 bp
<b>Locus ID:</b>	259040
<b>Cytogenetics:</b>	1 D
<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]