

## Product datasheet for **MC227031**

### **Olfr612 (NM\_001200027) Mouse Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Olfr612 (NM\_001200027) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Olfr612  
**Synonyms:** EG545985; MOR15-3; Olfr612-ps1  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC227031 representing NM\_001200027  
**Red**=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGC**C

ATGCTTCATGTCAACATACCAACTCCATCTTCTCCACCTTCCTGGTTACAGGCATTCCAGGGCTGGAGG  
CAGTGTACATCTGGATAGCCATACCATTCTGTGCCATGTTTCTCATCACTATGGTGGCAACATGACCAT  
CATAATTGTTATCTGGCGTGAGCAGACTTTCATGTTCCCTATGTATCTATTCTGGCCATGTTAGCTTCC  
TCTGATCTGGGTCTCTCTGTTTACCTTCCCACTCTGTTGAGAATCTTCTGCTGAATGATAGAGAGT  
TGACCACCACTGCTTGTTCACACAGATGTTCTTCATTACACATTTCCAAGACCTTGAATCAGCTATTAT  
TCTGGCAATGGCCTTCGATCGGTATGTGGCCATTTCTCACCCACTTCACTATCACTCCATTTCTCACAGAC  
ACTGTGATTGCCAAGATAGGCTTGGCTATTGTTGTACGAACCTTAACTGTGCAGGTGCCTCTCCCTATCC  
TCTTGAAGAGATTGACTTTTGTCAATCAATGACTATCTCATTCTACTGTTTGCATCCTGACATCAT  
AAAGCTATCCTGCTCCAGTACTACTGTCAACAGTATCTTTGGACTTTTGTAGTGCTCTCCACCATGGGG  
CTTGACTTCTCCTCATCCTACTCTCATATGCATTGATTCTGAAAACAGTACTGAGTATGGCTTCCACA  
GTGGCCGCTCAAGGCTCTCAACACTGCATCTCATCTGTGTGCTGTGGTCTTCTTCCACACCCAT  
GATCTGCCTATCCATGCTGCATCGTTTTGGTCCAAGGCTTCCCTCACATGTCTATGTGACCTGGCCAAC  
ATGCATTTCTAATTCCTCCAGTATGAACCCATCGTCTATGTGGTAAAACCAAGCAGATCCGTGACA  
AAATTCAGAACTCTTCATTAGAAAAGCAACAAAGAAAGCTCAGGCTGCATCTATAACA**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001200027  
**Insert Size:** 972 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>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<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_001200027.1</a></u> , <u><a href="#">NP_001186956.1</a></u>
<b>RefSeq Size:</b>	972 bp
<b>RefSeq ORF:</b>	972 bp
<b>Locus ID:</b>	545985
<b>Cytogenetics:</b>	7 E3
<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, Feb 2010]