

## Product datasheet for **MC214054**

### Olfr20 (NM\_146923) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Olfr20 (NM\_146923) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Olfr20  
**Synonyms:** MOR135-11; MTPCR06; MTPCR55; Olfr21; RP23-213110.4  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC214054 representing NM\_146923  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCAGAAGGGAACCAAACCTGTCATCTCCAGTTCTCCTCCTGGGCCTGCCATCCCCACAGAGCATC  
 AGCAGCTGTAATGCCCCTGTTCTGCTCATGTACCTCACCACCGTCCTGGGAACTCATCATCATCAT  
 CCTCATTGACTGGACTCCCATCTCCACACACCCATGTACTTGTCTCAGCAACTGTCTCTCTGAT  
 CTCTGCTTTTCTCTGTACAATGCCCAAATTGCTGCAGAACATGCAGAGCCAGGACTCATCCATCACCT  
 ATGCAGGATGCCTGACACAAATGTAATTTTTCTTCTCTTTGGAGACCTTGAGAGCTTCTCCTTGTGGC  
 CATGGCCTATGACCGCTATGTGGCCATCTGCTTCCCCCTTATTACATGAGCATCATGAGCCCCAGCCTC  
 TGTGTGAGTCTGGTGTCTGTCTGGGTGCTGACCACCTTCCATGCCATGCTGCATACCCTGCTCATGG  
 CCAGATTGTCATTCTGTGAGGACAATGTGATCCCCACTTTTTCTGTGACATGTCTGTCTGTGAAGCT  
 GTCCTGCTCTGACACCCACGTTAATGAATTGGTGATATTTGTACAGGAGGCCTGATCCTTGTATTCCA  
 TTTGTGCTCATCCTTGTGTCTATGCACAAATTGTGTCTCCATTCTCAAGTCCCGTCTGCTCGAGGCA  
 TCCGTAAGCCTTCTCCACCTGTGGGTCCACCTGTCTGTGGTCACTGTTCTATGGGACAATCATTGG  
 TCTGTACTTATGCCATCAGCTGATAACTCTACTGTGAAGGAACTGTCATGGCCATGATGTACACAGTG  
 GTGACTCCATGCTGAACCCCTTCTATAGCCTGAGGAACAGAGACATGAAGGGAGCATTGGCCAGAG  
 TTATTTGTAAGAAGAAAGTTTTCTTCTGTCTATGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_146923  
**Insert Size:** 945 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_146923.2</a> , <a href="#">NP_667134.2</a>
<b>RefSeq Size:</b>	1062 bp
<b>RefSeq ORF:</b>	945 bp
<b>Locus ID:</b>	258925
<b>Cytogenetics:</b>	11 B4
<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]