

## Product datasheet for MC212319

### Olfr78 (NM\_001168503) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Olfr78 (NM_001168503) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Olfr78
Synonyms:	4633402A21Rik; MOL2.3; MOR18-2; Or51e2; PSGR; RA1c
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC212319 representing NM_001168503 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGAGTTCCTGCAACTTCACCCATGCCACCTTCCTGCTTATTGGTATTCCAGGACTGGAGGAAGCTCACT  
TTTGGTTGGCTTCCCCTGCTTCCATGTATGCTGTAGCATTGTTGGAACTGCATTGGTCTTCAT  
AGTGAGAACAGAGCGGAGCCTGCATGCACCCATGTACCTTTTCTCTGCATGCTGGCAGCTATTGATCTG  
GCTTTGTCCACATCCACAATGCCAAGATTCTCGCCCTCTTTGGTTTGACTCCCGGGAGATTACTTTTG  
ATGCCTGTCTTGCCAGATGTTTTTCATCATACTCTCTCAGCAATTGAATCTACTATCCTGCTGGCCAT  
GGCCTTTGACCGGTACGTGGCTATCTGCCACCCACTGCGTCACGCTGCTGTCTCAACAATACAGTAACA  
GTCCAAATAGGCATGGTGGCTCTGGTCCGGGGATCCCTATTCTTTTCCCACTCCCACTACTGATCAAGC  
GACTGGCTTTCTGCTCACTCCAATGTGCTCTCCCACTCCTATTGTGTCCACCAGGATGTGATGAAGTTGGC  
CTATACAGACACATTACCCAATGTAGTCTATGGTCTAACTGCCATTCTGCTAGTCATGGGTGTAGATGTC  
ATGTTTCATCTCCTTGCTACTTCTCTGATCATAACGAGGTTCTGCAACTGCCTTCCAAGTCTGAGCGAG  
CTAAGGCATTTGGGACTTGTGTGCACACATTAGTGTGGTCTGGCTTTCTATGTACCACTATTGGTCT  
GTCAGTGGTGCACCGTTTTGGAAACAGCCTGGATCCCATTGTGCATGTTCTAATGGGGATGTCTACCTG  
CTGCTGCCTCCTGTGATCAATCCCATCATCTACGGTCTAAGACCAACAGATCAGAACACGGGTTCTGG  
CTATGTTCAAGATCAGCTGTGACAAGGACATTGAAGCTGGGGAAACACGTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001168503



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<b>Insert Size:</b>	963 bp
<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>	<u><a href="#">NM_001168503.1</a></u> , <u><a href="#">NP_001161975.1</a></u>
<b>RefSeq Size:</b>	2627 bp
<b>RefSeq ORF:</b>	963 bp
<b>Locus ID:</b>	170639
<b>UniProt ID:</b>	<u><a href="#">Q8VBV9</a></u>
<b>Cytogenetics:</b>	7 E3
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1 and 2 both encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>