

## Product datasheet for **RN207202**

### **Olr488 (NM\_001000308) Rat Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Olr488 (NM\_001000308) Rat Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Olr488  
**Synonyms:** ratchr3-69329359-69328433\_ORF  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >RN207202 representing NM\_001000308  
**Red**=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGCCCAACCAATGTAACAATGCCAACTGAGTTCATCCTGATGGGAGTCACACAGACTGCTGTGCTGA  
AACTCCCTCTGTTGCGAGTCTTCCTTGCTGTCTATGCAACTCACTGTGGTAGGCAACCTGGGCATGATCAT  
TTTGACCAAGCTGGACTCTCGCCTACACACCCCTATGTACTTTTTTCATCAGACACCTTGCTTTTATTGAT  
CTTGAAAATTCCACTACCATCTGCCCAAGATGCTGGTGAATTTTGTGTGGATCAAACACCATCACCT  
ATTACGCCTGTGCCACACAGATGGCATGCTTCATTATGTTCAATTGTTAGTGAATTGACAGTCTTGTCCCTC  
CATGGCCTATGACCGCTATGTGGCCATCTGCAACCCTCTGCTCTACAGTGAATAATGTCTCAGAGACGT  
TGTCAAGTGCTCGTTGGCATTCCATACCTCTACAGCACCTCCAGGCTCTGCTATTCCCCATTAAGTATT  
TCACATCAAGCTTCTGTGGTGTAAATGTCATAAGCCATTTCTATTGTGATGTTGTCCCCTTACTACCTTT  
GATCTGTTACATGTAGAAGAGACAGAATTGTTGACTATATTGTTTTCAGCCTTTAATTTAATCTCTTCT  
CTTCTTGTCATTCTTTTGTCTACATGCTGATTTTGTAAACCATATGTCGAATGCGTTCTGCAGAAGGTA  
GGAAAAAGGCTCTCCACTTGGCGTTCCCATCTGACAGTGGTGGTTGTGTTCTATGGTCTCTACTCTT  
CATGTATGTTTCAGCCTAAATCTGCTCACTCATTTGAGTATGACAAAATGGCATCTGTGTTTTATACATTA  
GTGATCCCCATGCTTAACCCCTTGATTTATAGTTAAAGGAACAAAGAAGTAAAAAATGCTTTTACAGAA  
TATGTAAGAACATATGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001000308  
**Insert Size:** 927 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>	<u><a href="#">NM_001000308.1</a></u> , <u><a href="#">NP_001000308.1</a></u>
<b>RefSeq Size:</b>	927 bp
<b>RefSeq ORF:</b>	927 bp
<b>Locus ID:</b>	295754
<b>Cytogenetics:</b>	3q24
<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]