

## Product datasheet for **RN208162**

### **Olr594 (NM\_001000657) Rat Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Olr594 (NM\_001000657) Rat Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Olr594  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >RN208162 representing NM\_001000657  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCAATTTGTGCTCATAGGATTTCTGACTTTCCCAACCTCCAAGGTTTCTACATGCAGTGTTTTCTG  
TAGTTTATAATTATCCTGGTTGGAAATTTCTCATAACTAACAACCCAGTATGGACCCTGCATTACA  
GAAACCCATGTATTTTTCTGGCAAACCTTTCTCTGAAATCTGTTATGTATCAGTTACTGTCCCA  
AGGATTCTGTTCAACCTTGAGAAACAGGACAGAAGCATTTCAGTATGTCCTGTGCCACACAGCTGTGCT  
TCTTCCTATTTTTGGAACACTGAATGTTGCTGCTGACTGTGATGTCGTATGACCGCTATGTGGCCAT  
CTGCAACCCTCTGCAATATCCACTGGTCAATGAACCCAAAAAGGTGCACACAGATGGTGGCAGTCTCCTGG  
CTGGGAGGTATCCCAGTCCAGATAGGACAACTTATCAGATATTCTCTATACCTTTTTGTTATTCGAATC  
AAATAGACCATTCTTTTGTGACATACCACCAATTCTCAAGCTGGCAGGTGGAGACACTTCTGTACACGA  
ACTGTCTGTTTATTTGGTTGTTCCATGGTAGTTGCTTTCCTCTTCATATTGGTGCTTACATCCTACAGC  
AAAATCATTGCCACCATCTGGGCTTGCCAACAACCAAAGGGCGGGCAAAGCCTTCTCCACATGTTCTT  
CGCACCTGCTGGTGGTGGTGTGTTTATGGATCTGCTACAGTTACCTATTTGAGACCAAAGTCCAGGCA  
TTCTCCTGGAACGACAAGTGTCTCTGTTCTATGCAATTGTGATTTCTATGTTAAATCCGCTAATA  
TACAGCCTTAGAAACAAGGAAGTACTGCTGCTATGAGAAAGTTAATATTCCAAATTAGGGACTTGTGTA  
GGCATAGAAGTTTATTATTTTTCTAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001000657  
**Insert Size:** 936 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_001000657.1</a></u> , <u><a href="#">NP_001000657.1</a></u>  |
| <b>RefSeq Size:</b>           | 936 bp   |
| <b>RefSeq ORF:</b>            | 936 bp   |
| <b>Locus ID:</b>              | 404856   |
| <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] |