

## Product datasheet for MC213521

### Olfr77 (NM\_146339) Mouse Untagged Clone

#### Product data:

|                           |                                                                                 |
|---------------------------|---------------------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                                             |
| Product Name:             | Olfr77 (NM_146339) Mouse Untagged Clone                                         |
| Tag:                      | Tag Free                                                                        |
| Symbol:                   | Olfr77                                                                          |
| Synonyms:                 | 18A; MOR143-1                                                                   |
| Mammalian Cell Selection: | Neomycin                                                                        |
| Vector:                   | pCMV6-Entry (PS100001)                                                          |
| E. coli Selection:        | Kanamycin (25 ug/mL)                                                            |
| Fully Sequenced ORF:      | >MC213521 representing NM_146339<br>Red=Cloning site Blue=ORF Orange=Stop codon |

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGAAGCAGAGAACCATACAGCCATAGTACATTTCTCCTTATTGGTCTTTCAGAAGATCCTAAAATTC  
 AATCTGTTCTTTTGGACTATTCCTATCTATGTTCTGATTACCATGCTTGAAACTTTCTCATTGTCTT  
 AGTCACCAGCTGTGACTCCACCTTCACACCCCATGTACTTTTCTCTGCAACCTGTCATTTGTTGAC  
 ATTTGTTAACTCCACTACTATCCCCAAATGTTGGTGAACATTTACATGCACACCATGAAGATATCCT  
 ACACAGAGTGCCTTACTCAAGTATATTTTAAATAATTTCTTGAATGGATAATTTCTACTGACCAT  
 TATGGCCTATGATCGTTTTGTGGCCATCTGTACCCACTTAACACACAGTCATCATGAACCTCGAATC  
 TGTGGCCTTCTGGTTCTTTATCTTGGATCATTATGTTCTGGGTTTCCTTGATTCATATGCTGTTGATGA  
 AACAACTGAACCTCTCTACTAGCACTGAAATCCACATTTCTTTGTGAACCTCACTGAGCTTCTCAGGGT  
 GGCCCGCTCTGATACCCACATAAATAACATTTTCTGTATTTGGTTACTGCAGTGCTAGGTATGTTTCT  
 GTCATTGGGATAGCTTTCTTTATTTTCACATTGTCTCTGCTTTAATGAAATGTCCTCCATTAAGAATA  
 AGTATAAAGCCTTTCCACCTGTGGGTCTCACCTCTGTGTGGTATCCATGTTCTATGGGACAGGATTTGT  
 AGTTCATCTCAGTTCTGCTGTAGCCATTCAATCAAGAGAAACACAATCACTTCAATAATGTACACTGTT  
 GTCACCCCTATGTTGAACCCCTCATCTATAGCTTGCGAAACAAGGATGTAAAGGGGCCCTAGTAAGAC  
 TCCTTAGAAGAGTTAAATTTGTCT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

|                    |           |
|--------------------|-----------|
| Restriction Sites: | SgfI-MluI |
| ACCN:              | NM_146339 |


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|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Insert Size:</b>           | 939 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>Note:</b>                  | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>RefSeq:</b>                | <a href="#">NM_146339.3</a> , <a href="#">NP_666451.1</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>RefSeq Size:</b>           | 2671 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>RefSeq ORF:</b>            | 939 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Locus ID:</b>              | 258336                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Cytogenetics:</b>          | 9 A3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <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] |