

## Product datasheet for **MG212881**

### **Olfr1254 (NM\_146476) Mouse Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Olfr1254 (NM\_146476) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Olfr1254  
**Synonyms:** MOR231-13  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG212881 representing NM\_146476  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGAAAGAATAACAATGTTACAGAATTTATTCTACTGGGTCTCACTCAGGATCCTGTTGGCCAAAAAG  
CATTATTTGTCTTGTCTTACTCATGTACATTGTGACCATGCCAGGCAATTTGATTATTGTGTAACAAT  
CATTGCCAGCCCCTCCTTGAGCTCCCAATGTACTTCTCCTTGCCTATCTGTCCTCATGGATGCTATT  
TATTCCACTGCAATCTCACCCAAGTTGATTATGGACTTACTCTGCAATAAAAAGACTATCTTTTCAGAG  
CTTGTCATGGGCCAACTCTTTGTGGAACACTTATTTGGTGCAACTGAGATCTTCTTCTGGTAGCAATGGC  
TTATGATCGCTATGTTGCCATTTGTAAACCACTGCACTATTTAACCATCATGAATCACCGGTTTGCATT  
CTCCTGGTGATGGCAACCTGGGTTGGAGGGTTGCACACTCCATGGCTCAAGTTCTTTGTTTACGATC  
TTCTTTCTGTGGTCCCAATGTCATTGACCATTTTGCCTGTGATATGTATCCATTATTGGTGCTTGTGTG  
CTCTGACACCTACTTCTTGGTCTTACTGTCAATGGCAACGATGGAGCAATCTGTATGGTGGTGTGTTGT  
ATTCTGTTAGCCTCCTATGGAATCATTCTAAACTCTTAAAGACTCACAGTCAGGAAGGGAGCGCAAAAG  
CCCTGTCCACTTGCAAGTCTCACATCATGGTCGTTATCCTATTTTTTGTCTTGCATTTTCATGTATGT  
TAGACCTGTCTCCAATTTCTGTTGATAAATCAGTTACTATTTTTTATACAGTTGTCACTCCTATGTTG  
AATCCCTTAATATACACCTTGAGAAATTCAGAGATAAAACATTCTATGCTAAAACCTCTGGTCTAAAATAT  
TACATTCAGATAGACTAAGGAAATCTTGTGT

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >MG212881 representing NM\_146476  
Red=Cloning site Green=Tags(s)

MGKNNNVTEFILLGLTQDPVGGKALFVLFLLMYIVTMAGNLIIVVTIIASPSLSSPMYFFLAYLSLMDAI  
 YSTAISPKLIMDLLCNKKTISFRACMGQLFVEHLFGATEIFLLVAMAYDRYVAICKPLHYLTIMNHRVCI  
 LLVMATWVGGFAHSMQVLFVYDLPCGPNVIDHFACDMYPLLVLVCSDTYFLGLTVIANDGAICMVVFV  
 ILLASYGIILNSLKTHSQEGRRKALSTCSSHIMVVILFFVPCIFMYVRPVSNFPVDKSVTIFYTVVTPML  
 NPLIYTLRNSEIKHSMKLLWSKILHSDRLRKSSC

TRTRPLE - GFP Tag - V

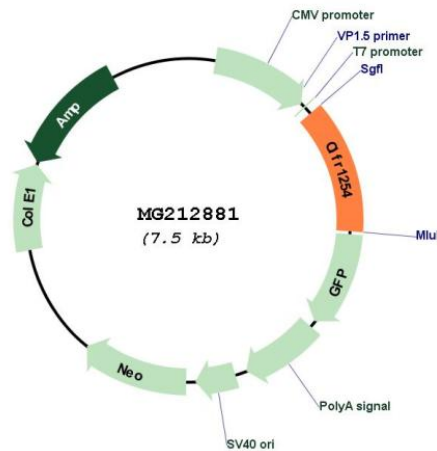
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_146476

**ORF Size:** 942 bp

|                               |  |
|-------------------------------|--|
| <b>OTI Disclaimer:</b>        | The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>   |
| <b>OTI Annotation:</b>        | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.   |
| <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_146476.1</a> , <a href="#">NP_666687.1</a>  |
| <b>RefSeq Size:</b>           | 945 bp   |
| <b>RefSeq ORF:</b>            | 945 bp   |
| <b>Locus ID:</b>              | 258468   |
| <b>Cytogenetics:</b>          | 2 E1   |
| <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] |