

## Product datasheet for **MG214494**

### **Olfr1239 (NM\_146970) Mouse Tagged ORF Clone**

#### Product data:

|                           |                                                                             |
|---------------------------|-----------------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                                         |
| Product Name:             | Olfr1239 (NM_146970) Mouse Tagged ORF Clone                                 |
| Tag:                      | TurboGFP                                                                    |
| Symbol:                   | Olfr1239                                                                    |
| Synonyms:                 | MOR231-3                                                                    |
| Mammalian Cell Selection: | Neomycin                                                                    |
| Vector:                   | pCMV6-AC-GFP (PS100010)                                                     |
| E. coli Selection:        | Ampicillin (100 ug/mL)                                                      |
| ORF Nucleotide Sequence:  | >MG214494 representing NM_146970<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGAACAGAGAAACAATGTGACTGAGTTTGTCTCTTGGGCCTGACTCAGAGTCCTGAAGGCCAGAAAA  
 TATTATTTGTTGTGTTCTTGGTCATCTATGTTGTGACAATGGCAGGCAATCTACTCATTGTTGTGACTGT  
 TGTGGTCAGCCCAAGTTTAGATGCCCCATGTACTTCTTTCTTGGCTACTTATCATTATGGATGCTGTG  
 TATTCAACCACAGTTACACCAAATATGATTATAGACTTACTCTATGAGAAGAAAACATTTCTTCAAAG  
 CTTGCATGAGCCAGCTTTTCATAGGACACTTGTGGTGGAGCTGAGATCTTACTATTAGTTGTCATGGC  
 CTATGACCGGTATGTAGCCATCTGCAAACCTTACATTATCTGACCATCATGAACCAACGTGTGTGTT  
 TTGCTCTTGTATTGGCCTGGTTTGGGGTTTCTTGCATGCTGTAGTCCAACCTTCTATTTGTATATAACC  
 TTCCTTTCTGTGGTCCTAATATCATTGATCACTTCATCTGTGACATGTATCCCTTATTAATTTGGCCTG  
 CACAGACCTATGTTATTGGCCTCACAGTTGTTGCCAATGATGGAGCAATATGTGTGGTCATCTTTATG  
 CTGTTGGTCATTTCTTACGGGTAATCTTCACTCCCTGAAGAATCTCAGTCAGGAAGGAAGCGCAAG  
 CCTATCCACCTGTGGCTCCCATCACTGTGGTAGTCCTCTTCTTTGTTCCCTGTATTTTATGTATGT  
 GAGACCTCCATCTACTTTACCCATTGATAAGTCATTGACTGTATTTTACACTGTTGTACCCCCATGTTA  
 AATCCCCTCATATATACTCTGAGAAATGCAGAGATGAAAAATGCCATGAGGAACTATGGCAAGTAAAG  
 GGAAA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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**Protein Sequence:** >MG214494 representing NM\_146970  
 Red=Cloning site Green=Tags(s)

MEQRNNVTEFVLLGLTQSPGQKILFVVFVVIYVVTMAGNLLIVVTVVVSPSLDAPMYFFLGYSFMDAV  
 YSTTVTPNMIIDLLYEKKTISFKACMSQLFIGHLFGGAEILLVVMAYDRYVAICKPLHYLTIMNQRCV  
 LLLLLAWFGGFLHAVVQLLFVYNLPFCGPNIIDHFIIDMYPLKLACTDTYVIGLTVVANDGAICVVIFM  
 LLVISYGVILHSLKNLSQEGRRKALSTCGSHITVVVLFVPCIFMYVRPPSTLPIDKSLTVFYTVVTPML  
 NPLIYTLRNAEMKNAMRKLWASKGK

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_146970

**ORF Size:** 915 bp

**OTI Disclaimer:** 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. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**Components:** 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).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_146970.1](#), [NP\\_667181.1](#)

**RefSeq Size:** 918 bp

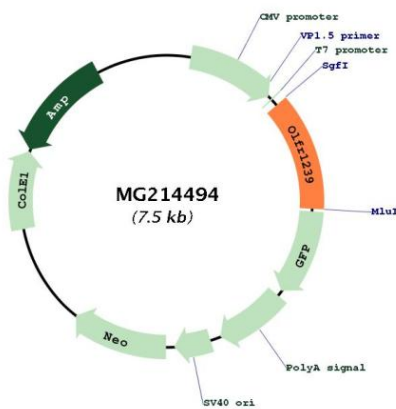
**RefSeq ORF:** 918 bp

**Locus ID:** 258972

**Cytogenetics:** 2 E1

**Gene Summary:** 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]

## Product images:



Circular map for MG214494