

## Product datasheet for **MG226673**

### **Olfr878 (NM\_146798) Mouse Tagged ORF Clone**

#### Product data:

|                           |                                                                             |
|---------------------------|-----------------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                                         |
| Product Name:             | Olfr878 (NM_146798) Mouse Tagged ORF Clone                                  |
| Tag:                      | TurboGFP                                                                    |
| Symbol:                   | Olfr878                                                                     |
| Synonyms:                 | MOR163-1                                                                    |
| Mammalian Cell Selection: | Neomycin                                                                    |
| Vector:                   | pCMV6-AC-GFP (PS100010)                                                     |
| E. coli Selection:        | Ampicillin (100 ug/mL)                                                      |
| ORF Nucleotide Sequence:  | >MG226673 representing NM_146798<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTCAGAAGAGAATGGCTCCAAGAAATAGCTCCTCTGTGACTGAATTTATCCTTGTGGGATTTCAA  
ACCAACCAGCTCTCCAGCTGCCTCTCTTCTCGTCTTCTTAGGTATCTATGTGCTGACTGTTATAGGCAA  
TTTGGGACTGATCACCTTAATTGGGTTGAATCCAGTCTTCATACTCCAATGTACTTTTCTCTTCAAC  
TTGTCCTTATAGATTTCTGTTATTCCTGTGTGTTACGCCAAAAATGTTGAGTGATTTTGTCTCAGAAA  
ACATTATCTCCTACATGGGATGCATGACTCAACTGTTTTCTTCTGTTTCTTGTCAATTCTGAATGCTA  
CGTGCTGGTGCAATGGCCTATGATCGCTATGTGGCATTGCAATCCTCTGCTGTACACAGTTACCATG  
TCTCCTCAGGTCTGCACTCTGCTGATGTTTTGTTTCATATGTGATAGGGTTTGTGGAGCCATGGCCATA  
CTGGAAGCATGCTGACACTTACTTTCTGTGATTCCAATATGATCCACCATTATCTCTGTGAAGTTCTTCC  
CCTTTTACAGCTCTCCTGCACCACTACCTATGCCAACGAGCTTGTGTTTTTATTGTTGTTGGAGTAGTC  
ATCACAGCATCCAGCATCAGCATCTTTATCTCTTATGCATTGATTCTCTCCAACATTCTTAAGATTCTT  
CTGCTGAAGGTAGATCCAAAGCCTTTGGCACATGTGTTCCCATGTAGTTGCTGTTGCTCTGTTTTTGG  
GTCAGGGGCATTACCTATTTAACAACCTCTTCCCTGGTTCAATGGAAGAGGGAAGTTTGCTTCAGTA  
TTTTATACCAATGTGTTCCCATGCTTAACCCACTGATCTATAGTTTGAGGAATAAAGACGTTAAACTTG  
CCCTAAATAAACCTTGAAGAGAGTGCTCTTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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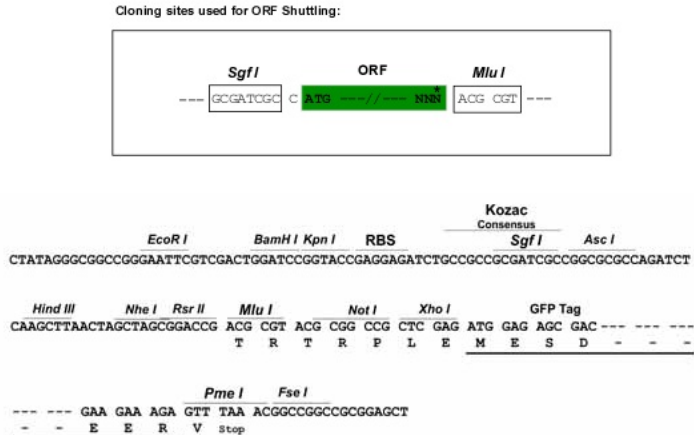
**Protein Sequence:** >MG226673 representing NM\_146798  
 Red=Cloning site Green=Tags(s)

MSQKRMARNSSSVTEFILVGFSNQPALQLPLFFVFLGIYVLTVIGNLGLITLIGLNSSLHTPMYFFLFN  
 LSFIDFCYSCVFTPKMLSDFVSENIISYMGCMTQLFFCFVNSECYVLVSMAYDRYVAICNPLLYVTM  
 SPQVCTLLMFCSYVIGFAGAMAHTGSM LTLTFCDNMIHHYLCEVLPLLQLSCTSTYANELVFFIVGVV  
 ITASSISIFISYALILSNILKIPSAEGRSKAFGTGSHVVAVALFFGSGAFTYLTTSFPGSMEEGRFASV  
 FYTNVVPMLNPLIYSLRNKDVKLALNKLKRVLF

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_146798

**ORF Size:** 942 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\\_146798.2](#), [NP\\_667009.1](#)

**RefSeq Size:** 1065 bp

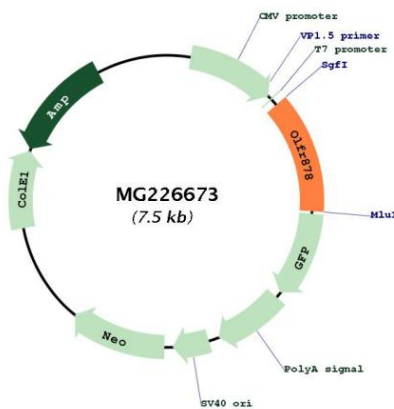
**RefSeq ORF:** 945 bp

**Locus ID:** 258794

**Cytogenetics:** 9 A4

**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 MG226673