

## Product datasheet for MR214890

### Olfr549 (NM\_147101) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Olfr549 (NM_147101) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Olfr549
Synonyms:	MOR31-3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR214890 representing NM_147101 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCACCTTTAACTACACAGGAACCAGCCATTCTGTCTTCATTCTGTTGGGCATCCCTGGCCTGGAAG  
AGCAGCACTTGTGGATCTCTCCCTTCTTCATTTCTACCTGGTGGCACTCTTGGAAACATCACTCT  
CATCCTTGTAATCATTGCAGAACGCAGCCTCCATGAGCCCATGTACCTTCTCTGTCATGCTGGCTGCG  
GCTGACCTCATCTGTCTACCACCACCGTGCCCAAGGCTCTGGCCATATTTGGTTTCGTGCGGGAGCGA  
TTTCCCTTGATGGCTGTGTCACCAATCTTTCATCCATGCTACCTTTCATTGCCGAGTCGGGGATTTT  
GCTGGCCATGGCATTGACCGCTATGTGGCCATCTGTGACCCACTACACTACAGCACAGTCTCAGTCAT  
GTGGTAATTGTTAGGATCGGCTTGGCTGTGGTCTGAGAAGTTTCTGTGTGATCCTCCAGATGTGTTCC  
TGGTGAACGCCTGCCTTCTGCCGTAGCAATGTGCTGCCACACACCTACTGTGAACACATGGCTGTTGC  
GAGGTTTGCTGTGCTGATATTCGCGTCAATGTTGGTATGGCTTGTCTGTCTCCTCCTCTACTGTAGTG  
CTCGATGCTCTGCTCATCTTGGTCTCCTACGGTCTCATTCTTCACACAGTCTTCCGCCTCCCTCCAGAG  
GAGCCCGCAAAGGCTCTGGGCACATGTGGATCCCACCTTGGTGTATTTCCATGTTTTACCTGCCTGG  
CATTTTTACCATAATTACCCAGAGGTTTGGGCAGCACGTTCTCTCCATACCCACATCCTTCTGGCCAAT  
GTCTGCATGCTGGCCCTCCCATGCTGAATCCCATCATCTATGGGATCAAACCAGACAGATTCGTGAGC  
GTGTAAGTTCTTTGTCTTTCACAGTGAAACTATGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR214890 representing NM\_147101  
Red=Cloning site Green=Tags(s)

MAPFNYTGTSHSVFILLGIPGLEEQHLWISLPFFISYLVALFGNITLILVIAERSLHEPMYLFLCMLAA  
 ADLILSTTTVPKALAIWFVRAGAIISLDGCVTQIFFIHATFIAESGILLAMAFDRYVAICDPLHYSTVLSH  
 VVIVRIGLAVVLRSFVILPDVFLVKRLPFCRSNVLPHTYCEHMAVARFACADIRVNVWYGLSVLLSTVV  
 LDALLILVSYGLILHTVFRLP SRGARQKALGTCGSHLGVISMFYLP GIFTIITQRFGQHVPLHTHILLAN  
 VCMLAPPMLNPIIYG IKT RQIRERVLSLSSQWKLC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9085\\_d05.zip](https://cdn.origene.com/chromatograms/mm9085_d05.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_147101

**ORF Size:** 948 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.

**RefSeq:** [NM\\_147101.2](#), [NP\\_667312.2](#)

**RefSeq Size:** 951 bp

**RefSeq ORF:** 951 bp

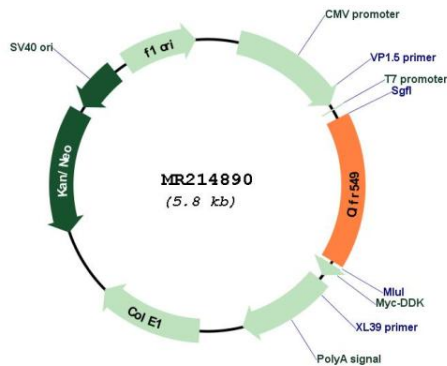
**Locus ID:** 259105

**Cytogenetics:** 7 E3

**MW:** 35.2 kDa

**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 MR214890