

## Product datasheet for **MR214415**

### **Olfr824 (NM\_146674) Mouse Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Olfr824 (NM\_146674) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Olfr824  
**Synonyms:** MOR210-3  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR214415 representing NM\_146674  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGAAACTGGAGCAGAGCAGGAAGCTATACTGAGCTGACAGACTTTATCCTGCTGGGATTCTGGACGTCTC  
CAGAAGCACAGGTTCCCTTATTCTTACTGTTCTTGTTTATCTATCTGGTCATTTTATTGGGAAACCTCAG  
CATGCTAACTGTCATTAATAAGACTCCAGACTTCATACACCAATGTATTTCTTTCTCCAAAATTTATCC  
TTTTTAGATCTCTGCTATTCCACAGTCATTGCACCCAAAACCTAGCTACTATTTTCTCCAAGGAAAAGA  
AAATTTATATAATGAATGTGCAACACAGTTCTTTTTCTTTGCTCTTTTCTGTTGGAACAGAAAGGTTTCT  
TTTGGCTGTGATGGCTTATGACCGCTTCTCAGCCATTTGCTCGCCTTTCCTGTACACAGTCCATATGTCT  
CAGCCAGCTTGTATTCTGTTGGTGGCTGGCTCCTATATCTGTGGATGCATCAACTCCATGATACAAACAG  
GATTCACCTTCAGCTTGCCTTCTGTGGAGAAAACAGGCTGGACCACTTTTTCTGTGATGTCCCAGCTCT  
GATCAAGATCTCATGTGTGACACTTTTGTGAATGAGATTGTGTTGTTTATTCTCTCTGCTCTCATCATC  
ATCTCCACCATCACTATCATTCTGGTTTCTATGCCTACATCCTTTCCACTGTCTGAAGATCCCCTCCA  
CCCATGGTAGGAGTAAAACCTTCTCTACATGTGGCTCTCATATAGCAGTGGTGGATTTATTCTATGGAAC  
AGTGTCTTCATGTATGCTCAGCCTGGGTCCATCTCTCCCCAGAGAAAAGCAAGATTGTAGCTGTGTTT  
TACACACTTATCATCCCAATGCTGAATCCTCTGATTTATAGCTTAAGGAATACAGAGGTAAGGTTGCTT  
TGAAGAAGACATTGCTGAGAAAAATATCCTGGCAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

**Protein Sequence:** >MR214415 representing NM\_146674  
Red=Cloning site Green=Tags(s)

MKLEQSRNYTEL TDFILLGFWTSPEAQVPLFLLFLFIYLVILLGNLSMLTVIKIDSR LHTPMYFFLQNL S  
 FLDLCYSTVIAPKTLATIFSKEKKISYNECATQFFFFALFVGTGEGFLAVMAYDRFSAICSPFLYTVHMS  
 QPACIRLVAGSYICGCINSMIQTGFTFSLRF CGENRLDHFHFCVDPALIKISCVDTFVNEIVLFILSALII  
 ISTITIIILVSYAYILSTVLKIPSTHGRSKTFSTCGSHIAVVS LFGYGVTFVFMYAQP GSISSPEKSKIVAVF  
 YTLIIPMLNPLIYSLRNTEVKSALKKTL LRKISWQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9084\\_d10.zip](https://cdn.origene.com/chromatograms/mm9084_d10.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_146674

**ORF Size:** 945 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\\_146674.1](#), [NP\\_666885.1](#)

**RefSeq Size:** 948 bp

**RefSeq ORF:** 948 bp

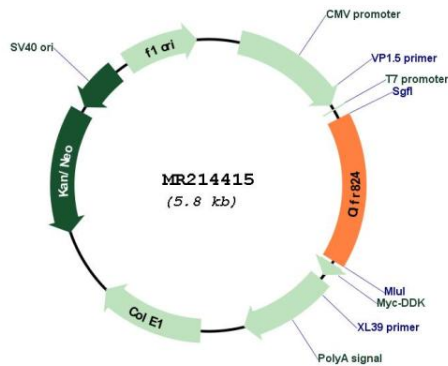
**Locus ID:** 258669

**Cytogenetics:** 10 D3

**MW:** 35.6 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 MR214415