

Product datasheet for **MR220396**

Olfr142 (NM_146984) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Olfr142 (NM_146984) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Olfr142
Synonyms:	K20; MOR227-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR220396 representing NM_146984 Red =Cloning site Blue =ORF Green =Tags(s)

TTTTGTATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGATCGCC

ATGGCCAACAAAATAATGTAACCGAGTTAATTTTCACTGGCCTTTTCCAGGATCCAGAGGTTTCAGAAGG
 TGTGCTTTGTGCTGTTCTTCTGTGTACCTGGCCACATTGCTGGGCAACAGTCTTATTCTTGTGGCAGT
 CAGCATCAGTAAGACTTTACATTCTCCCATGTACTTCTTCTCAGTTCCTTGTCCCTGGTGGAGATCTGT
 TACTCCTCTACAATTGTCCCTAAGTTCATCACTGACTTACTTGCTAAGGTTAAACCATCTCTGAAGG
 GCTGTCTGACTCAGATATTCTTTCCCATTTCTTTGGTGTGTTGAAGTCATTTTGCTAGTGGTGTATGGC
 CTATGACCGCTATGTGGCCATCTGCAAACCTCTTCATTACATGAACATCATGAGTCGTCAAGTGTGTAC
 ATGCTGGTGGCTGGCTCCTGGCTGGGGGCTTCATTCACTCCATAATCCAGATCATCACTACTATCCAT
 TGCCCTTCTGTGGTCCCAATGTGATTGACCACTACTTCTGTGACCTGCAACAATTATTTAAGCTTGCCCTG
 CACTGACACCTTTATGGAGGGGTTTATTGTGATGGCCAACAGTGGTTAATCTCTATAGTCTCTCTCTTC
 ATCTTGGTGTCTCCTATGCTGTATCCTAATCAGCTTGAGGAAGCGTTCTGCAGAGGGGAGGCGCAAGG
 CTCTCTCCACCTGTGCCTCTCACATCACAGTGGTCATCCTGTTCTTTGTGCCTGGTGCATTTATTTATAT
 GAGACCTTCCTCCACCTCACTGAAGATAAGCTTGTGTCTGTGTTCTACACTGTCAATACCCCTATGCTG
 AACCCATTGTCTATACTCTAAGGAATACAGAAATGAAAAATGCTATACGAATGTCTGGAAGCAAAAGG
 ACAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >MR220396 representing NM_146984
Red=Cloning site Green=Tags(s)

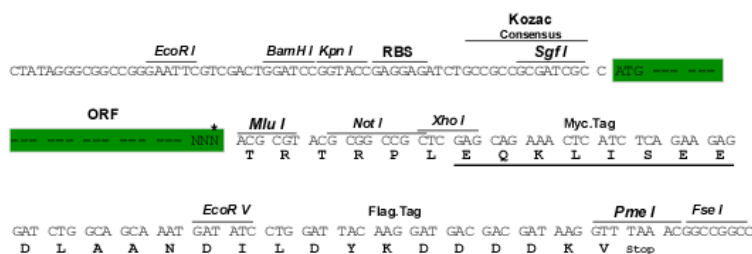
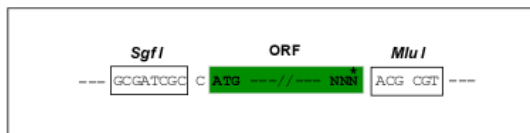
MANKNNVTELI FTGLFQDPEVQKVCFLFLPVYLA ILLGNSLILVAVSISKTLHSPMYFFLSSLSLVEIC
YSSTIVPKFITDLLAKVKTISLKGCLTQIFFSHFFGVVEILLVMAYDRVAICKPLHYMNMISRQVCH
MLVAGSWLGGFTHSIIQIIITIP LFCGPNVIDHYFCDLQQLFKLACTDTFMEGFIVMANSGLISIVSLF
LIVSSYAVILISLRKRS AEGRRKALSTCASHITVVILFFVPGAFIYMRPSSFTEDKLVVSFYTVITPML
NPVYVTLRNTENMKNAIRMSWKOKDS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM 146984

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_146984.1](#), [NP_667195.1](#)

RefSeq Size: 918 bp

RefSeq ORF: 918 bp

Locus ID: 406186

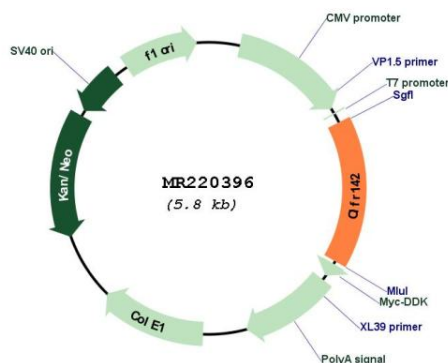
UniProt ID: [Q60881](#)

Cytogenetics: 2 E1

MW: 34.3 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 MR220396