

Product datasheet for **MR219483**

Olfr1414 (NM_147039) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Olfr1414 (NM_147039) Mouse Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Olfr1414
 Synonyms: MOR103-2
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 ORF Nucleotide Sequence: >MR219483 representing NM_147039
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGGGGGGAGAACATACCAAGGTCAGCACCTTCATCCTGCTGGGCTTCCCCACAGCCCCTGAGCTGC
 AATACCTGCTCTTCTCCTCTTCTGCTCGCTACCTCTTTGTGCTGGTGGAGAACCTGGCCATCATCCT
 CACTGTCTGGAGCAGCGCCTCCCTCCACAGACCCATGTAATACTTCTGGGCATCATGTCCACCTTGGAG
 ATCTGGTATGTTTGTGACATCATCCCTAAGATGCTGGACGGCTTCTCCTGCAGAGGAAACGCATCTCTT
 TCATTGGATGCATGACTCAGCTCTACTTCTCAGCTCCCTGGTGTGTACAGAGTGTGTACTTTGGCTTC
 CATGGCCTATGACCGCTATGTGGCCATCTGCCACCCCTGCGCTACCAAGTCATCATGACCACAGGGCTC
 TGTGTCCAGCTTGTGGCCTTCTCTTTTGTAGTGGCTTCAGCATCTCTGTGATTAAGGTCTACTTTATCT
 CCAGTGCCACCTTCTGTGGCTCCAATGTCTTGAACCACTTCTTCTGTGACATCTCCCCGATCCTCAAGCT
 GGCTGCACTGACTTCTCTACTGCGGAGCTGGTGGACTTCATCCTGGCCTTCATCATTCTGGTGTCCCA
 CTTCTGGCCACCGTTCTCTCCTATGGCCACATCACCTGGCTGTGCTGCGCATCCCTTACGCCACAGGCC
 GGTGGAGAGCCTTCTCCACCTGTGCCTCCACCTCACTGTGGTTACCATTTTCTACACAGCTTTGCTCTT
 CATGTATGTGAGGCCCCAGGCCATCGATAACCCGGAGCTCCAACAACTCATCTCTGTTCTGTATAACAGTT
 CTTACACCCATCTGAACCCCTTGATCTACTGCCTGAGGAACAAAGAATTTAAAGATGCCTTAAGAAAGG
 CTTGGGCTTGGGTCAAGCTCCCTTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR219483 representing NM_147039
Red=Cloning site Green=Tags(s)

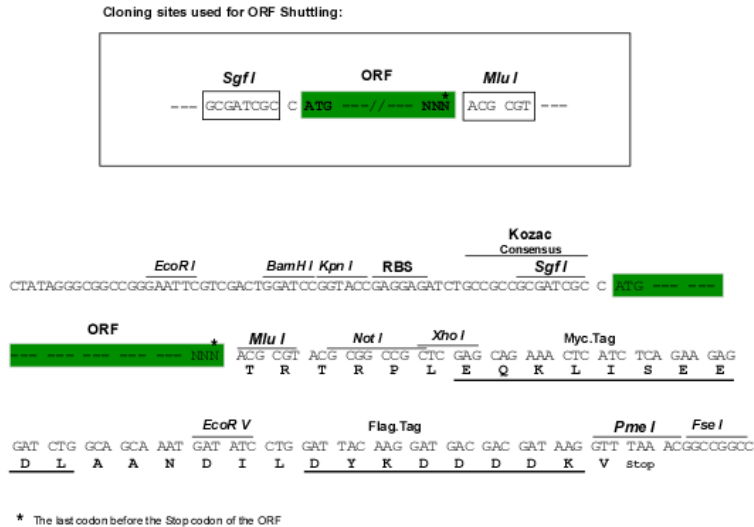
MRGENITKVSTFILLGFPTAPELQYLLFLLFLLAYLFVLVENLAIILTVSSASLHRPMYYFLGIMSTLE
 IWYVCDIIPKMLDGFLLQRKRISFIGCMTQLYFFSSLVCTECVLLASMAYDRYVAICHPLRYQVIMTTGL
 CVQLVAFSFGSFSISVIKVFYISSATFCGSNVLNHHFFCDISPILKLACTDFSTAELVDFILAFIILVFP
 LLATVLSYGHITLAVLRIPSATGRWRAFSTCASHLTVVTFYFYTALLFMYVRPQAIDTRSSNKLISVLYTV
 LTPILNPLIYCLRNKEFKDALRKALGLGQAPL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9022_d08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_147039

ORF Size: 936 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_147039.2](#), [NP_667250.1](#)

RefSeq Size: 1189 bp

RefSeq ORF: 939 bp

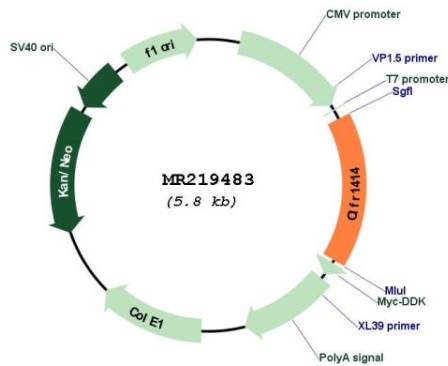
Locus ID: 259041

Cytogenetics: 1 D

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 MR219483