

Product datasheet for **MR225511**

Olfr151 (NM_207664) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Olfr151 (NM_207664) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Olfr151
Synonyms:	M71; MOR171-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR225511 representing NM_207664 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGACTGCAGAGAATCAATCTACAGTGACAGAGTTTATCCTCGGGGGGCTAACTAACAGGCCAGAGCTCC
 AGCTACCCCTCTTCCTCCTTTCTGGGGATCTACGTAGTCACCATGGTAGGAAACCTGGGCATGATCAC
 CTTGATTGGACTCAACTCACAGCTTCACACCCCATGTACTTCTCCTCAGTAACCTGTCACTCGTGGAT
 CTCTGCTACTCCTCTGTCATTACCCCTAAAATGCTCATCAACTTTGTGTCCAAAGAAACCTCATCTCCT
 ATGTGGGATGCATGTCTCAGCTATACTTCTCCTGGTTTTCGTCATTGCTGAGTGTTACATGCTCACTGT
 GATGGCCTATGACCGCTATGTGGCCATCTGTCAACCCCTTGCTTTATAACATCATCATGTCTCCTGCCCTC
 TGCTCTCTGCTGGTGGCTTTTGTCTATGCCGTAGGACTCATCGGTTCAAGCAATTGAGACTGGCCTCATGT
 TGAAATTAACCTATTGTGAGGACCTCATCAGCCACTACTTCTGTGACATCCTCCCTCATGAAGCTCTC
 TTGCTCTAGTACCTATGATGTAGAAATGGCTGTCTTCTTTTAGCTGGATTTGACATTATCGTCACAAGC
 TTAACCGTACTCATTTCTATGCATTATCCTGTCCAGCATCCTTCGCATCAGCTCCAATGAGGGCAGGT
 CCAAAGCCTTCAGCACCTGCAGCTCCCACTTTGCAGCTGTGGCTTGTCTATGGATCCACAGCATTAT
 GTACTTAAAGCCTTCTACAGCTAGTTCCTGGCCAGGAGAATGTAGCTTCTGTGTTCTACACCACAGTG
 ATCCCCATGTTCAACCCCTGATCTACAGCCTGAGAAACAAGGAGGTGAAGACCGCACTGGACAAAACAC
 TGAGGAGAAAAGTCTTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >MR225511 representing NM_207664
 Red=Cloning site Green=Tags(s)

MTAENQSTVTEFILGGLTNRPELQLPLFLLFLGIYVVTMVGNLGMITLIGLNSQLHTPMYFFLSNLSLVD
 LCYSSVITPKMLINFVSQRNLISYVGCMSQLYFFLVFVIAECYMLTVMAYDRYVAICQPLLYNIIMSPAL
 CSLLVAFVYAVGLIGSAIETGLMLKLNKYCEDLISHYFCDILPLMKLSCSSTYDVEMAVFFLAGFDIIVTS
 LTVLISYAFILSSILRISSNEGRSKAFSTCSSHFAAVGLFYGSTAFMYLKPSTASSLAQENVASVFYTTV
 IPMFNPLIYSLRNKEVKTALDKTLRRKV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9023_b06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_207664

ORF Size: 927 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_207664.2](#), [NP_997547.1](#)

RefSeq Size: 1086 bp

RefSeq ORF: 930 bp

Locus ID: 406176

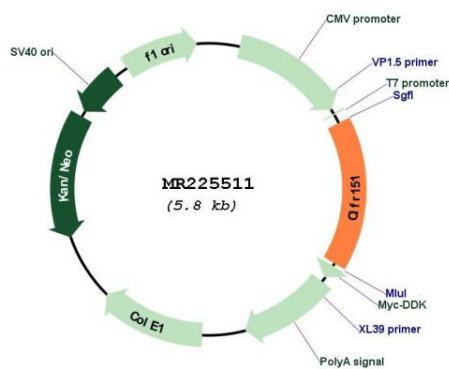
UniProt ID: [Q60893](#)

Cytogenetics: 9 A4

MW: 34.9 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. This olfactory receptor gene appears to represent a strain-specific polymorphic pseudogene in mouse, where some strains, including the C57BL/6 reference genome strain, have a non-functional allele, while other strains have a protein-coding allele. [provided by RefSeq, Jan 2019]

Product images:



Circular map for MR225511