

Product datasheet for **MC214865**

Olfr231 (NM_001005520) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Olfr231 (NM_001005520) Mouse Untagged Clone
Tag: Tag Free
Symbol: Olfr231
Synonyms: MOR105-4; Olfr231-ps1; Olfr244; Olfr244-ps1; Olfr425; Olfr425-ps1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC214865 representing NM_001005520
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGTGATTGAGTTCTCTTCTCCGTGTTCCACCTCTGTATGAAGGTGGCCTCTTGTTTTTCATTCTAT
TGATTCTTGTCTATGCATTCATTATATCAGGGAACCTAGTGATCTTTGTTGCTGTCCAGCTGGACATGCC
TCTGCACACCCCATGTATTTCTTCATCAGTGTGCTGTCTTTCCTGGAGATCTGGTATACCAGACTACC
ATCCCAAGATGCTTCCAGCCTAGTCAGTGAGAAGAAGACCATCTCCCTAGGTGGCTGCCTCATGCAAA
TGTACTTTTTTCACTCGTTGGGTATCACAGAAGGCTGTGCTCTGACAGCAATGTCCATTGACAGGTACAT
AGCTATCTGCTATCCTCTCCGTTACCCTACCATCATGACTTCCAACTTTGTATCCAACAAACAGCCGGC
TCCTGCTTCTGTGGCTTCCTTCTGGTACTCCCTGAGATTGCATGGATTGCGACTTTGCCTTCTGTGGCT
CCAACAAGATCCATCAGATCTTCTGTGATTTCCACCCTGTGCTCAGTTTGGCCTGTACGGATACATCGCT
GGTGGTCATTGTGGATGCCATCCATGCAGTAGAGATCCTGGCCTCCTTCTTGTAAATGCCCTGTCTAT
ATCCGAATCATCATGGTAATTTTGGGGATGCCCTCAGCAGAAGGGAGGCACAAGGCTTTCTCCACTGTG
CAGCCACCTTGCTGTTTTCTTGTGTTTTTGGCAGTGTGCTGTATTTGAGATTCTCAGCTAC
ATATTCAGTCTTCTGGACACAGTAATTGCTGTCACTTTTGTATCCTTGCTCCATTTCTCAACCCATT
ATTTATAGTCTAAGAAACAAGGAAATGAAAGACGCTATTGGGAGGCTTTTTCATCAGAAGAGAGATGTTCC
GGGCTCAGAAATAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001005520
Insert Size: 924 bp



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OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_001005520.2](#), [NP_001005520.2](#)

RefSeq Size: 924 bp

RefSeq ORF: 924 bp

Locus ID: 404222

Cytogenetics: 1 H3

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]