

Product datasheet for MR213607

Olfr1431 (NM_146414) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Olfr1431 (NM_146414) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Olfr1431 |
| Synonyms: | MOR214-5 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >MR213607 representing NM_146414 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATTGGGGAAAGAAATATTACCACAATAACCCAGTTCATCCTCCTGGGATTTTCAGATTTCCCTAGAA
TCACAGTTCTGCTTTTGTGCATATTTTGTGATGATCTACATTATGACTATGACCTGGAACCTGTCCCTTAT
TGCTTTAATAAGAATGGATTCCACCTTCACACCCCATGATTTCTCCTCAGTAATCTCTCCTTTATA
GACCTCTGCTTTGTTACTTCCACAGCCCCAAGATGCTTCCAACCTTCTCCAGGAAAACCAAATCA
GCTTTGTGGGCTGCATAGTTCAATACTTTATCCTTTCCACTATGGGGCTGACTGAATGTTGCCTCATGAC
AGCCATGGCCTATGACAGGTATGCTGCCATTTGTAAACCCTCTTCTGTACTCATCAGTCATGTCACCCACA
CTATGTGCTCAGATGGTATGGGAAGCTACACAGCTGGACTCACAGGCTCTGTATCTCAGATATGTGCC
TGCTGCAGCTCTATTTCTGTGGCCCTAATGTCATTAGGCATTTCTTCTGTGACATATCTCAGCTATTA
TCTATCCTGTAGTGATGCTTTTGTACAGGTCCTTCTGTATATTAACCATGTGTTTGAATAGCA
AATGCCTTAGCCACCATGCTGTCCTATGGTTTCATCGCTGTCCATCTAAAGTCACTTCAGCTAAAG
GCAGGTCCAAGGCCTTCAACACCTGTGCTTCTCACCTGACAGCTGTTTCTCTCTATAGTACTGGCAT
CTTTGTCTATTTGCGATCCAGCTCTGGTAGCTCCTCCAGTTTGGACAGATTACATCTGTCTTCTACACT
GTGGTGATTCCCATGTTGAACCCTTTGATATATAGTCTGAGAAACAAGGAAATCAAAGATGCCATGAAG
GGTTGCAGAAAAAGAAAATCTGCAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR213607 representing NM_146414
 Red=Cloning site Green=Tags(s)

MIGERNITTTITQFILLGFSDFPKITVLLFVIIFLMIYIMTMTWNLSLIALIRMDSHLHTPMYFFLSNLSFI
 DLCFVTSTAPKMLSNFFQENQTI SFVGCIVQYFILSTMGLTECCLMTAMAYDRYAAICNPLLYSSVMSPT
 LCAQMVMGSYTAGLTGSVSQICALLQLYFCGPNVIRHFFCDISQLLNLSCSDAFFVQVLLAILTMCFGIA
 NALATMLSYGFIVLSILKITS AKGRSKAFNTCASHLTAVSLFYSTGIFVYLRSSSGSSSSDFRFTSVFYT
 VVIPMLNPLIYSLRNKEIKDAMKRLQKKKICN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9067_b11.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_146414

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_146414.1](#), [NP_666526.1](#)

RefSeq Size: 939 bp

RefSeq ORF: 939 bp

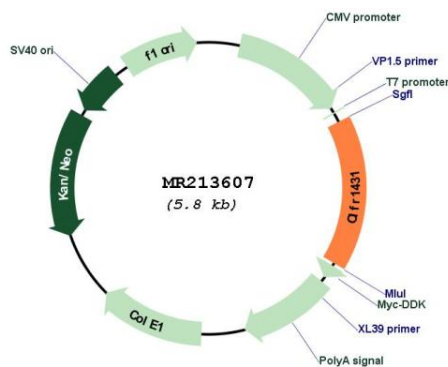
Locus ID: 258409

Cytogenetics: 19 A

MW: 35 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 MR213607