

Product datasheet for **MR229213**

Olfr1564 (NM_001199062) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Olfr1564 (NM_001199062) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Olfr1564
Synonyms: 100043474; ENSMUSG00000079307; Ga_x5j8b7w2m1k-1-552; Gm4461
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR229213 representing NM_001199062
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGATCGCC

ATGGCTGTCATGTTGGGGCTAAATTACACCTTTGTGTCAGAGTTCATCCTCATTGGCTTCTCTACCTTCC
CTCATCTTCAGCTGATGTTCTTCTGCTGTTCTGCTCATGTACCTTTCACACTGCTAGGCAACCTGCT
CATCATGACCACCATCTGGAGTGAACACAGTCTCCACACCCATGTACCTTCTCCTGTGTGCCCTCTCC
ATCTCTGAGATTTTCTACACCTTTGCCATCATCCACGCATGTTGGCTGACCTGCTCTCCACACTTCACT
CCATCGCCTTTCTGGCCTGTGCCAGCCAGATGTTCTTCTCCTTACATTTGGCTTCACCCATTCTTTCT
ACTCACCGTCATGGGCTATGACCGCTACGTGGCCATCTGTCACCCACTGAGATACAATGTGCTCATGAGC
CCCCGTGGCTGTGCCTGCCTGGTAGCCTGGTCTGGGTTGGTGGATCATTATGGGGACAGTGGTGACAA
CAGCCATTTTCAACCTCACATTCTGTGGACCAATGAGATCCACCATTTCTTCTGCCATGTTCCACCTCT
ATTGAAGTTGGCATGTGGAGAGAATGTATTGGAGGTGGCAAAGGGTGTAGGAATAGTGTGCATCACAGCC
CTCCTGGGCTGCTTCTCCTCATCCTCCTCTCATATACCTTATTGTAGTTACCATCTTGAAGATACCAT
CAGCTGAGGGTCGGCACAAGGCTTTCTCCACATGTGCATCCACCTCACAGTGGTGGTTGTACATTATGG
CTTTGCTTCTGTCAATTTACCTCAAGCCTAAGGGCCCCAAGTCTCTGGGAGGAGATACTCTGATGGGCATC
ACCTATACAGTCTCACCCCTTCTTAGTCCCATCATCTCAGTCTCAGGAACAAGGAGCTGAAAATAA
CTATGAAGAAAGCTTTCTCAACAAATTATTTCCACAGAACTCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR229213 representing NM_001199062
Red=Cloning site Green=Tags(s)

MAVMLGLNYTFVSEFILIGFSTFPHLQLMFFLLFLLMYLFLLGNLLIMTTIWSEHSLHTPMYLFICALS
 ISEIFYTFAIIPRLADLLSTLHSIAFLACASQMFSSFTFGFTHSFLLTVMGYDRYVAICHPLRYNVLM
 PRGCACLVAVSWVGGSFMTVVTTAIFNLTFCCPNEIHHFFCHVPPLKLACGENVLEKGVGIVCITA
 LLGCFLILLSYTFIVVTILKIPSAEGRHKAFSTCASHLTVVVVHYGFASVIYLPKPKGKSLGGDTLMGI
 TYTVLTPFLSPIIFSLRNKELKITMKAFLNKLFPQNS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001199062

ORF Size: 954 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_001199062.1](#), [NP_001185991.1](#)

RefSeq Size: 1091 bp

RefSeq ORF: 957 bp

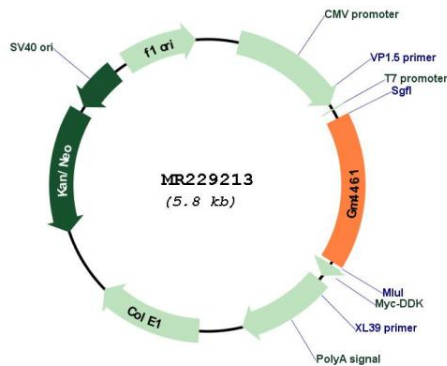
Locus ID: 100043474

Cytogenetics: 17

MW: 36 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, Nov 2010]

Product images:



Circular map for MR229213