

Product datasheet for **MR212616**

Olfr819 (NM_001165944) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Olfr819 (NM_001165944) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Olfr819
Synonyms:	MOR265-2_p; Olfr819-ps1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR212616 representing NM_001165944 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCTAACTCTGAGCTCATGAAGAATGGAAGCCTGTCCCTCTGCACTGAATTCACATTGGTGGCCTTTT
 CTTCTCTAGCAGAGCTGCAGCTTGCTCTTTGTTGTGTTCTTGGTTCTCTACTTGTTACAGTGGGAGG
 AAACCTCACCATCATCTGTGTGATCTGGACCACACCTTCTACACACGCCCATGTACTTCTTCTGGCC
 AACCTCTCCTTCCTAGAGATGTGCTATATCAGCAGTGTGGTGCCTCAGATGCTGGTGCACCTGCTGGTAC
 AGCTCAAGACCATAAGTGTGGCAGGCTGTGCAGCTCAGATGTATGTATTACCATCTTGGGGCTGACAGA
 GTGTTGCCTTCTGGCAACTATGGCTTATGATCGCTTTGTGGCTATTTGTTACCCACTACATTACACTCTG
 CGGATGGACCTTCTGTCTGTCTGAAGTTGGCTGGTGCATCTGGATGACTGGGATCCTGGTAGAATCAG
 CCCAGACCACCTGGATCTTCACTCTGCCCTTTTGTGGAGCAGGAACAATTCAACACTTTTCTGTGACAT
 CATGCCTGTGGTAAAATTAGCTTGTGTGGATACTTCCAGAATGAAATTGTGATATTTATTATTTCTTTT
 ATCTTCATTATGAGTCCCTGTCTCTTATTCTATGCTCTTATGTCCGATTATTCTGACATTCTTGAAAA
 TGCCCTCAGCAGCAGGCAGACACAAAGCTTTCTCCACCTGCTCCTCTCATATCCTGGTTGTTTCTCTTTT
 CTATGGCACTGCCTTATCACTTATCTCAACCAAGAGTTACACACCCAGACACAGACAAGGTTACT
 GCTCTCATGTACTGTGGTCACCCCTGCTCTGAATCCTGTTATCTATACGTTGAGGAACAAAGAAGTGA
 AGGAAGCCTTTCAAAGGTAACACAGAGGAACTTCATAGACAAAGAGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >MR212616 representing NM_001165944
 Red=Cloning site Green=Tags(s)

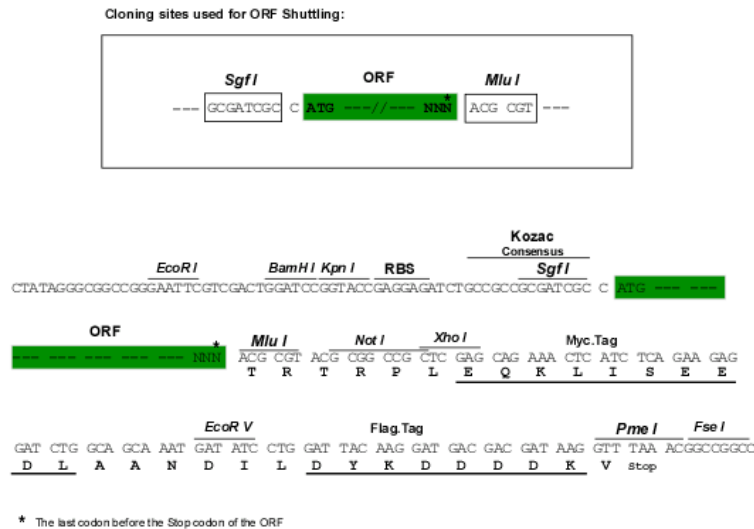
MSNSELMKNGSLSLCTEFTLVAFSSLAELQLVLFVVFLVLYLFTVGGNLTICVIWTTPSLHTPMYFFLA
 NLSFLEMCYISSVVPQMLVHLLVQLKTI SVAGCAAQMYVFTILGLTECCLLATMAYDRFVAICYPLHYTL
 RMDPSVCLKLAGASWMTGILVESAQTWIFTLPCGAGTIQHFFCDIMPVVKLACVDTSQNEIVIFIISF
 IFIMSPCLFILCSYVRIILTFLKMPSAAGRHKAFSTCSSHILVVSIFYGTALFTYLQPKSSHTPDTDKVT
 ALMYTVVTPALNPVIYTLRNKEVKEAFQKVTQRKLHRQRD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9088_e01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001165944

ORF Size: 960 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_001165944.1](#), [NP_001159416.1](#)

RefSeq Size: 963 bp

RefSeq ORF: 963 bp

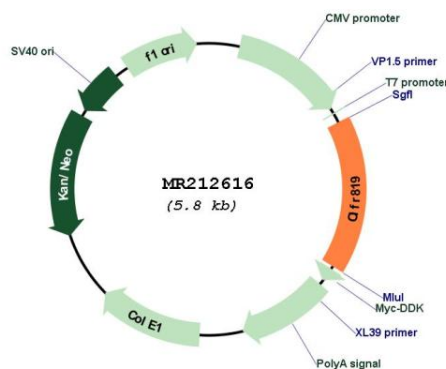
Locus ID: 100043200

Cytogenetics: 10 D3

MW: 35.9 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. [provided by RefSeq, Sep 2009]

Product images:



Circular map for MR212616