

Product datasheet for MR213106

Olfr803 (NM_146554) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Olfr803 (NM_146554) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Olfr803 |
| Synonyms: | MOR111-3 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >MR213106 representing NM_146554 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAAAACTACACTATAATTACAGAGTTTGTGCTCTTGGGAATATCAGGCAACAGAGAGCTTCAGGTAG
TAATTTTCGTCTTTTATTAATAACTTACATAGTAAGCATCACTGGAAACCTAACCATATCCTCCTCAC
ATTGTTGGACTCTCACTTAAAGACTCCTATGTATTATTTCTTCGTAATTTCTCCTTCTTAGAAATTATG
TTCAGTAGTGTTCCATTCCCAGATTCTGGCATCAATAATTACCAAGTCAAGACCATTTCCTATAATA
ATTGTTTTGCTCAGTTATTTTTCTCATCTTCATGGGGGTGACAGAGTTTTTTCTTAACCGCTATGTC
TTACGATCGTTATGTTGCCATCTGCAAGCCACTGCACTACACCCTCATCATGAATCAGAAAGTCTGCACC
CTTCTGTCTCACCTCATGGCTGGCAGGATTCCTGACCATCTTCCCACCACTTATGCTGGTCTCAAAGT
TAGATTTCTGTGCTTCCAATGTCATTGATCACTTCTGCTGTGACTATTTCCCCTCTTACAACCTGCTTG
CTCAGATACTTGGCTCCTAGAAGTATTGGTTTCTATGTTGCTCTGGTTACTCTACTGTTACATTGGCA
TTGGTGATTTTATCTTACATGTACATTTTCAGGACTATTTAAGAATCCATCAGCCAATCAGAGGAAAA
AGGCTTCTCCACCTGTTCTCGACATGATTGTCATCTCCATGTCTTATGGAAGCTGTATTTTATCTA
TGTGAAGCCTTCAGCAAATGAAAGAGCATATTGACCAAAACAGTAGCTATTCTCAGCACTTCAGTTGCT
CCCATGTTGAACCTTTTATTTACTTTGAGGAACCGCAAGTAAAACAAGCTTCAAAGACTTGATTC
ATAAGGTAGTTTTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR213106 representing NM_146554
Red=Cloning site Green=Tags(s)

MKNYTIITEFVLLGISGNRELQVVIVFVLLITYIVSITGNLTIILLTLLDShLkTPMYyFLRNFSFLEIM
 FTSVSIpRFLASIIITQVKtISyNNcFaqLFFFIFMGVTEFFLLTAMsYDRyVAICKPLHYTLIMNqKVCT
 LLVLTswLAGFLtIFpPLMLVLKLDfCASNvIDHFCCDYFLLQLSCSDTWLLEVIgFYVALVTLFLTLA
 LVILSYMYIFRtILRIPsANQRKkAFSTCsshMIVISMSyGSCIFiYVKPSANERASLTKTVAILSTsvA
 PMLNPFiYTLRNqQVKQAFKDLIHKVVF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9067_h03.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_146554

ORF Size: 924 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_146554.1](#), [NP_666765.1](#)

RefSeq Size: 927 bp

RefSeq ORF: 927 bp

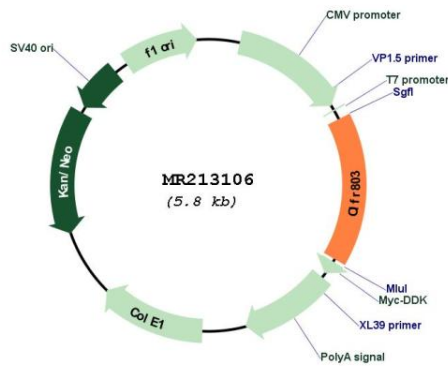
Locus ID: 258547

Cytogenetics: 10 D3

MW: 35.3 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 MR213106