

Product datasheet for MR221755

Olfr603 (NM_147070) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Olfr603 (NM_147070) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Olfr603
Synonyms:	MOR32-2; MOR32-14_i; Olfr603-ps1; Olfr604
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR221755 representing NM_147070 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCCTAATAATGAACTGCTTCACACCCCTCTCTTCCATCTGCTGGGCATTCTGGGCTGGAAG
CTTCCATATCTGGATAGCCTTCTTTCTTTGTTGTTTATCCGATAGCACTTGTGGGAATTCACAAT
CCTCTGTGTGATCAAGAATGAACAGAGTCTTCACCAGCCCATGTTCTACTTTCTTGCCCTCTCTTTT
ATTGATCTTGGCCTCTCTACTTCCACCATTCCAAGATGCTGGGTATCTTCTGGTTCAACCTTAGGGAGA
TAAGCTTTGAAGGCTGCCTCATCAAATGTTCTTCATCCACACTTACACAGGCATGGAATCTGTTGACT
CCTGGCCATGGCAATTGACCGTTTTGTTGCCATCTGTTACCCACTTAGGTATACCTCTGTTCTACCAAC
AAAGTGGTGGCTGTCATGGCATCGTTGTAATAGGGAGACCTGTCTTCTTGTATCCCTTTTTGTCCCC
TCCTAAAACGCCTGCCCTTTTGTGGACACTATATTATTCCTCATACTACTGTGAACATATGGGATAGC
ACGTCTAGCCTGTGCTAACATAAGGATAAACATCATCTATGGCTTATTCACCATTGCTGCTCTGATCTTT
GATTTAATTCTCATTGCTTTCTCCTATGCTTGGATCCTACAGGCTGTTTTCCGCCTTCTTCCAGGGATG
CCAGACACAAAGCCCTTAGCACATGTGGTCCCATGTCTGTGTCATCTTAGCCTTTTACACACCAGCATT
TTTCTCTTTATGACCCATAGGTTTGGTAGAAATGTTCCCTCGTTATATTCACATCCTCTTGGCCAATCTC
TATGTGGTTGTCCCTCCTGTTTAAATCCAGTCATTTATGGAGTGAGGACAAAACAAATTAGGGAGGGAG
TCTTAAAAATATTTGTAAGAAAAGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR221755 representing NM_147070
Red=Cloning site Green=Tags(s)

MPSNNETASHPSLFHLLGIPGLEAFHIWIAFPFFVVYPIALVGNFTILCVIKNEQSLHQPMFYFLALLSF
 IDLGLSTSTIPKMLGIFWNLREISFEGCLIQMFIIHTYTGMSVLLAMAIDRFVAICYPLRYTSVLTN
 KVVAVMASVVIGRPVLLVIPFCPLLKRLPFCGHYIIPHTYCEHMGARLACANIRINIIYGLFTIAALIF
 DLILIAFSYAWILQAVFRLPSRDARHKALSTCGSHVCVILAFYTPAFFSFMTHRFGRNVPRYIHILLANL
 YVVVPPCLNPVIYGVRTKQIREGVLKIFVKKE

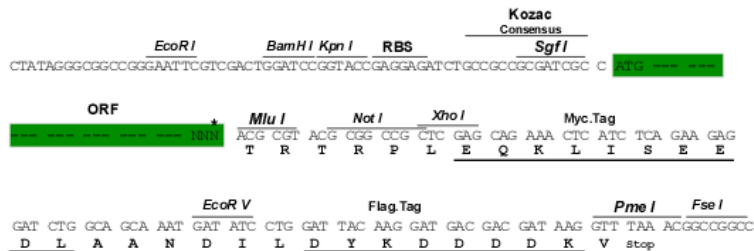
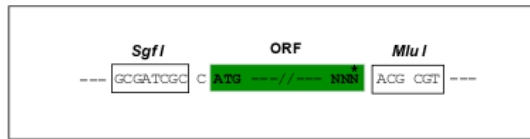
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9070_c08.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_147070

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_147070.2](#), [NP_667281.2](#)

RefSeq Size: 939 bp

RefSeq ORF: 939 bp

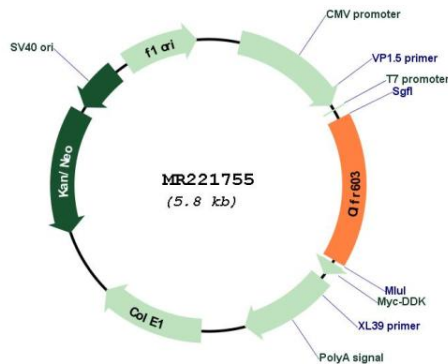
Locus ID: 259073

Cytogenetics: 7 E3

MW: 35.4 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 MR221755