

Product datasheet for RC213209

OR2M5 (NM_001004690) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OR2M5 (NM_001004690) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	OR2M5
Synonyms:	OR2M5P
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC213209 representing NM_001004690 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCATGGGAGAATCAGACCTTCAACTCTGACTTCATCCTCCTGGGAATCTTCAATCACAGCCCCACCC
ACACCTTCCTCTTTCTGGTCTGGCCATCTTTTCAGTGGCCTTCATGGAACTCTGTCATGGTTCT
CCTCATCTACCTGGACACCCAGCTCCACACCCCATGACTTCCTCCTCAGTCAACTGTTCTCATGGAC
CTCATGCTCATCTGCTCTACCGTACCAAGATGGCCTTCAACTACTTGTCTGGCAGCAAGTCCATTTCTA
TGGCTGGTTGTGCCACACAAATTTCTTCTATGTATCACTGCTTGGCTCCGAATGCTTTCTGTTGGCTGT
TATGCTTATGACCGCTATATTGCCATTTGCCACCCTCTAAGATACACCAATCTCATGAGACCCAAAT
TGTGGACTTATGACTGCCTTCTCCTGGATCCTGGGCTCTATGGATGCAATCATTGATGCTGTAGCGACAT
TTTCTTCTCCTACTGTGGGTCTCGGAAATAGCCCACTTCTTCTGTGACTTCCCTTCCCTACTAATCCT
CTCATGCAATGACACATCAATATTTGAAAAGGTTCTTTTCATCTGCTGTATAGTAATGATTGTTTTCT
GTTGCAATCATCATCGTTTCTATGCTCGAGTTATTCTGGCTGTATTACATGGGATCTGGAGAGGGTC
GTCGAAAGCTTTTACTACCTGTTCTCTCACCTCATGGTGGTGGGAATGTAATAAGGAGAGGTTGTT
CATGTACATACGGCCACATCTGATCGCTCCCTATGCAGGACAAGCTGGTGTCTGTATTCTACACCATC
CTCACTCCCATGCTGAATCCCCTCATCTACAGCCTCCGCAACAAGGAGGTGACCAGAGCACTCAGGAAAG
TGTTAGGAAAGGCAAGTGTGGAGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC213209 representing NM_001004690
Red=Cloning site Green=Tags(s)

MAWENQTFNSDFILLGIFNHSPTHTFLFFLVLAIFSVAFMGNSVMVLLIYLDLTLHTPMYFLLSQLFLMD
 LMLICSTVPKMAFNLYSGSKSISMAGCATQIFFYVSLGSECFLAVMSYDRYIAICHPLRYTNLMRPKI
 CGLMTAFSWILGSMDAIIDAVATFSFSYCGSREIAHFFCDFPSLLILSCNDTSIFEKVLVICCIMVIVFP
 VAIIIASYARVILAVIHMGSGEGRRKAF TTCSSHLMVVGMYYGAGLFMYIRPTSDRSPMQDKLVSVFYTI
 LTPMLNPLIYSLRNKEVTRALRKVLGKGCCE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8002_d06.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_001004690

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001004690.1](#), [NP_001004690.1](#)

RefSeq Size: 939 bp

RefSeq ORF: 939 bp

Locus ID: 127059

UniProt ID: [A3KFT3](#)

Cytogenetics: 1q44

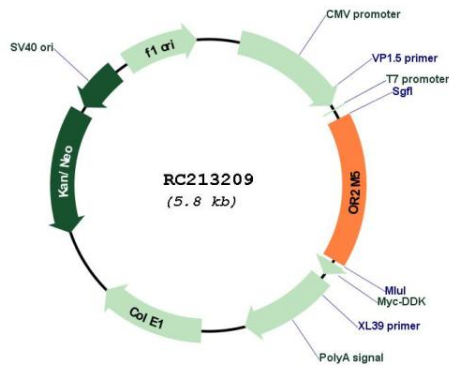
Protein Families: Transmembrane

Protein Pathways: Olfactory transduction

MW: 34.9 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, Jul 2008]

Product images:



Circular map for RC213209