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Product datasheet for RC214430

OR5M10 (NM_001004741) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OR5M10 (NM_001004741) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	OR5M10
Synonyms:	OR11-207
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC214430 representing NM_001004741
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTTGTCCCCAAACCACACCATAGTGACAGAATTCATTCTCTTAGGACTGACAGACGACCCAGTGCTAG
AGAAGATCCTGTTTGGGGTGTTCCTGGCGATCTACCTAATCACACTGGCAGGCAACCTGTGCATGATCCT
GCTGATCAGGACCAATTCCCAACTGCAAACACCCATGTATTTCTTCCTTGGTCACCTCTCCTTTGTAGAC
ATTTGCTATTCTTCCAATGTTACTCCAAATATGCTGCACAATTTCCTCTCAGAACAGAAGACCATCTCCT
ACGCTGGATGCTTCACACAGTGTCTTCTCTTCATCGCCCTAGTGATCACTGAGTTTTACTTCCTTGCTTC
AATGGCATTGGATCGCTATGTAGCCATTTGCAGCCCTTTACATTACAGTTCCAGGATGTCCAAGAACATT
TGCATCTCTCTGGTCACTGTGCCTTACATGTATGGCTTCCTTAATGGGCTCTCTCAGACACTGCTGACCT
TTCACTTATCCTTCTGTGGCTCCCTTGAAATCAATCATTTCTACTGCGCTGATCCTCCTCTTATCATGCT
GGCCTGCTCTGACACCCGTGTCAAAAAGATGGCAATGTTTGTAGTTGCAGGCTTTACTCTCTCAAGCTCT
CTCTTCATCATTCTTCTGTCCTATCTTTTCATTTTTGCAGCGATCTTCAGGATCCGTTCTGCTGAAGGCA
GGCACAAAGCCTTTTCTACGTGTGCTTCCCACCTGACAATAGTCACTTTGTTTTATGGAACCCTCTTCTG
CATGTACGTAAGGCCTCCATCAGAGAAGTCTGTAGAGGAGTCCAAAATAATTGCAGTCTTTTATACTTTT
TTGAGCCCAATGCTGAACCCATTGATCTATAGCCTACGGAACAGAGATGTAATCCTTGCCATACAACAAA
TGATTAGGGGAAAATCCTTTTGTAAAATTGCAGTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC214430 representing NM_001004741
Red=Cloning site Green=Tags(s)

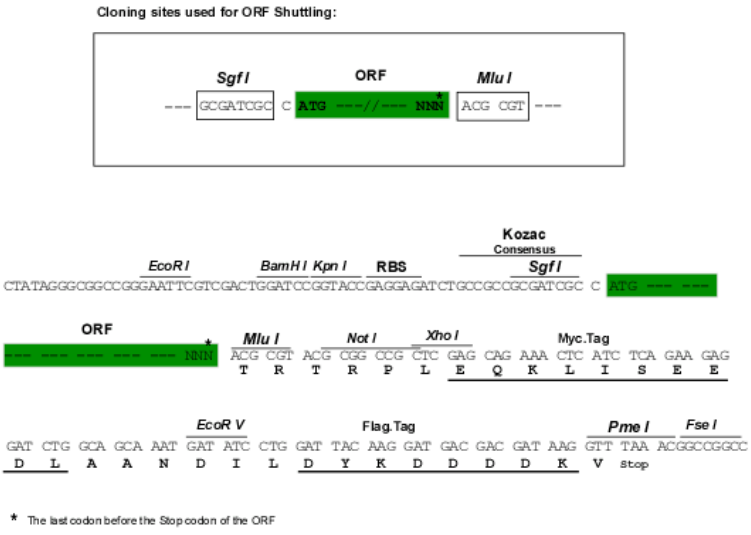
MLSPNHTIVTEFILLGLTDDPVLEKILFGVFLAIYLITLAGNLCMILLIRTNSQLQTPMYFFLGHLSFVD
ICYSSNVTPNMLHNFLSEQKTISYAGCFTQCLLFIALVITEFYFLASMALDRYVAICSPLHYSSRMSKNI
CISLVTVPYMYGFLNGLSQTLLTFHLSFCGSLEINHFYCADPPLIMLACSDTRVKKMAMFVVAGFTLSSS
LFIILLSYLFIFAAIFRIRSAEGRHKAFSTCASHLTIVTLFYGTLFCMYVRPPSEKSVEESKIIAVFYTF
LSPMLNPLIYSLRNRDVILAIQQMIRGKSFCKIAV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8031_a02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001004741

ORF Size: 945 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).

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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_001004741.1, NP_001004741.1

RefSeq Size: 948 bp

RefSeq ORF: 948 bp

Locus ID: 390167

UniProt ID: Q6IEU7

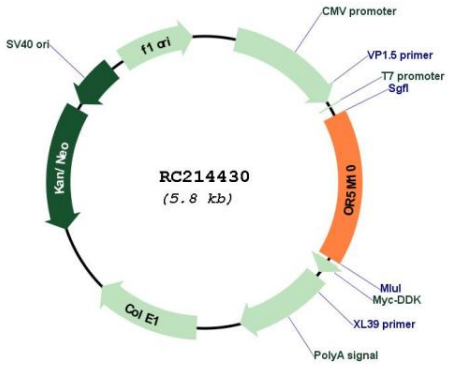
Cytogenetics: 11q12.1

Protein Pathways: Olfactory transduction

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 RC214430

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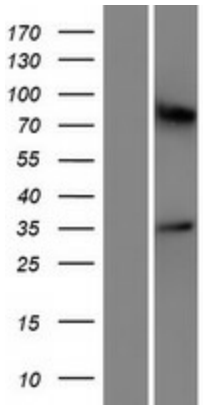

Western blot validation of overexpression lysate (Cat# [LY423924]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC214430 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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