

Product datasheet for **RR210123**

Olr242 (NM_001000213) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Olr242 (NM_001000213) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Olr242
Synonyms:	ratchr1-165460424-165461356_ORF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR210123 representing NM_001000213 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGGAGGCTCAAACACACCACTGTGACAGAGTTCATCCTTTTGGGTTAACAGAGAATTCCACACTGC
 GTGTCATCCTATTTATGACATTTCTAGGGATATATGCTGTTACTGTAGTGGCAATTTAGCATCATCAG
 TTTAATAAGAACTGCCCTCACTCCACACCCATGTATCTGTTCTTAGCCATCTGGCTTTTGTGGAC
 ATTGGCTTTTCCACATCAATCACACCTATAATGCTTACCGGATTTCTTGAACGTACAATAACACTCTCTG
 TGGCTGCTTGTGAAGCCAATTCTGCATTGCAGTGACATTTGGGACGGTTGAGTGCTTCTCCTAGCTGC
 CATGGCCTATGACCGCTATGTGGCCATCTGCTCACCCCTGCTTTATTCAACACATATGTCCCCAGGATC
 TGCTTCTCTTTAGTTGGAGCTTCTATGTGGGTGGCTGTGTGAATTCATGGACATTTACTAGTTGTCTGT
 TGAGTCTGTCTTCTGTGGACCAATCAGATAGATCATTTTTTCTGTGATTTCCCTGCCGTGTTGAACT
 TTCTTGCTCAGATGTCTCCATTATTGGAATGATTCCTTCTATCTCTGCTGGAACCATCATTTGGTCA
 GTGTTTGTGATAGCTGTCTCCTACACCTACATCCTCATCACCATTCTGAAGATGCGCTCCACTGAGGGCC
 GAAAAAGGCCTTCTCCACCTGCACCTCTCATCTACCGCAGTCATTTATACTATGGAATATTACCTT
 CATTTATGTGATGCCAAGTCAAATATTCTACTGAACAGAACAAGATACTGTCTGTATTCTACACAGTA
 GTCATTTCCATGCTTAACCCACTCATCTACAGTCTGAGGAACAGAGATGTAAAAGAGGCTTTAGGAAGG
 CCATCATCAGAATATTCCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


[View online »](#)

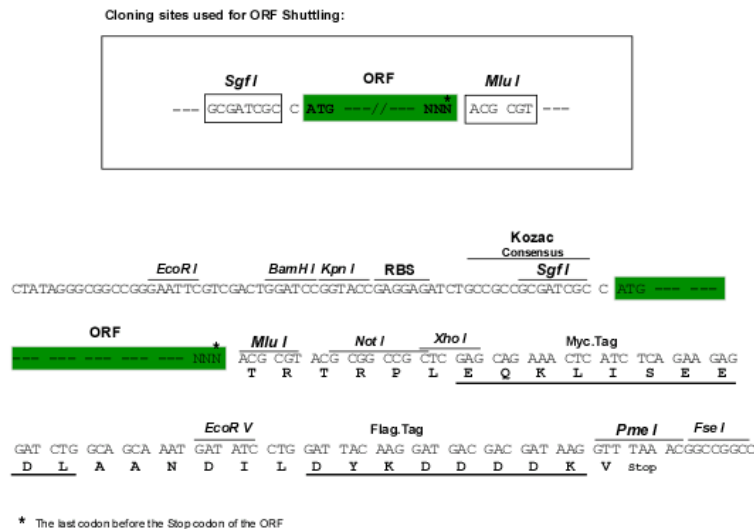
Protein Sequence: >RR210123 representing NM_001000213
 Red=Cloning site Green=Tags(s)

MEAQNHHTVTEFILLGLTENSTLRVILFMTFLGIYAVTVVGNFSIISLRNCPQLHTPMYLFSLHLAFVD
 IGFSTSITPIMLTGFLERTITLSVAACEAQFCIAVTFTGTECFLLAAMAYDRYVAICSPLLYSTHMSPRI
 CFLLVGASYVGGCVNSWFTSCLLSLFCGPNQIDHFFCDFPAVLKLSGSDVSIIGMIPSIAGTIIIVVT
 VFVIAVSITYIILITILKMRSTEGRKKAFSTCTSHLTAVTLYYGTITFIYVMPKSNYSTEQNKILSVFYTV
 VIPMLNPLIYSLRNRDVKEALRKAIIRIFP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001000213

ORF Size: 930 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_001000213.1, NP_001000213.1

RefSeq Size: 933 bp

RefSeq ORF: 933 bp

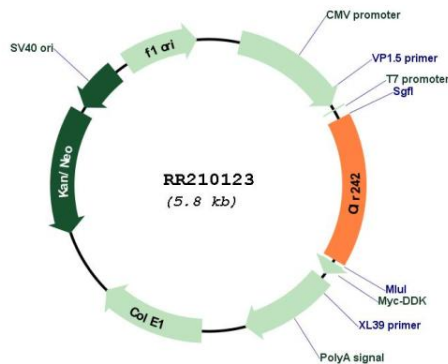
Locus ID: 293387

Cytogenetics: 1q33

MW: 34.4 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 RR210123