

Product datasheet for **RR206282**

Olr1007 (NM_001000076) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Olr1007 (NM_001000076) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Olr1007
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR206282 representing NM_001000076 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAAAATCAGTCAATGGAACCTTGACTTCATTCTTTGGGATTGACAGATGACCCACAATTGCAAATTG
 TGGTTTTCTGTTCTCTTTCTTAATTACATGATGAGTCTGGTGGGGAACCTTAATCATTGTGCTCCTCAC
 CCTGCTGGACCTCGCCTCAAACTCCAATGATTTCTTTCTCGTAATTTCTCCTGTTGGAAATCATG
 TTCACAACAGTGTGTATTCCAAGATTCTTGACAACCATTTGTGACTGGAGACAAAATTTTCTCTATAATA
 ATTGTGCATCTCAGTTGTTTTCTTTCTTTGCTGGGAGTCACAGAATTTTATCTCCTGACTGCCATGTC
 CTATGACCGATATGTTGCCATCTGCAGACCATTACACTACCTATCATCATGAACAGCAGAGTGTGTCAT
 CAACTTGTCTTTAGCTCATGGGTGACTGGGTCTTGATCATCTTTCCCCATTGGCAATGGGTCTGAAGC
 TGGATTCTGTGATTCTAGAATAATTGATCATTTTATGTGTGAACTTCTCCTATTTTGAGATCTCTTG
 CACAGACACTCGTGCTAGAAATGATGTCCTTTGTCTTAGCAGTGGTGACACTTGTAGTTACACTGGTA
 CTAGTGAGTCTATCTTACTCTTTGATCATTAAAGACTATTATAAATTTCCCTTCTGCACAGCAAAGAACA
 AAGCATTCTCTACCTGCACTTCCACATGATTGTTGTCTCCATAACGATGGTAGTTGCATTTTCATGTA
 TATTAACCATCTGCAAGAGAGAGAGTACTGTGTCTAAAGGTGTAGCTTTGCTGTATACTTCAATTGTC
 CCTCTCCTGAACCCCTTCATTTATACACTAAGAAACCAGCAGGTGAAAGAAGTCTTCTGGGATATATTAC
 AGAAGACTTTGAGCTTTTCAAAACACAAAGTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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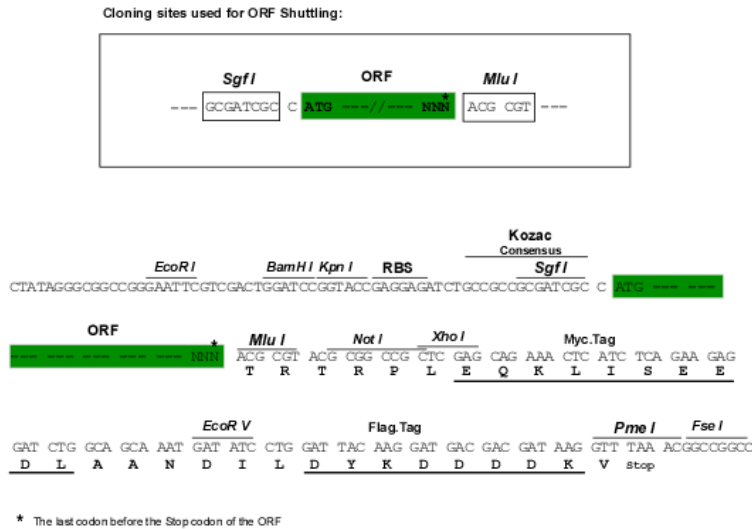
Protein Sequence: >RR206282 representing NM_001000076
 Red=Cloning site Green=Tags(s)

MKNQSMELDFILLGLTDDPQLQIVVFLFLFLNYMMSLVGNLIIVLLTLLDPRLKTPMYFFLRNFSLEIM
 FTTVCIPRFLTTIVTGDKTISYNNCASQLFFILLGVTEFYLLTAMSYDRYVAICRPLHYPIIMNSRVCH
 QLVFSSWVTGFLIIFPLAMGLKLDKDFCDSDRIIDHFMCTSPILQISCTDTRVLEMMMSFVLAVVTLVVTLV
 LVSLSYSLIIKTIINFPSAQQRTKAFSTCTSHMIVVSITYGSCIFMYIKPSARERVTVSKGVALLYTSIV
 PLLNPFITYTLRNQQVKEVFWIDILQKTLFSKHKV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001000076

ORF Size: 942 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_001000076.1, NP_001000076.1

RefSeq Size: 945 bp

RefSeq ORF: 945 bp

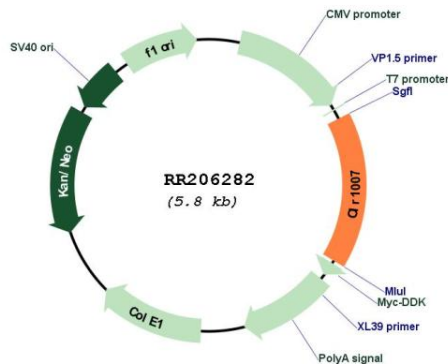
Locus ID: 288887

Cytogenetics: 7q11

MW: 36 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 RR206282