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Product datasheet for RR205641

Olr1057 (NM_001000072) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Olr1057 (NM_001000072) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Olr1057
Synonyms:	ratchr7-7913797-7912859_ORF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RR205641 representing NM_001000072
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAGAACCATACAAGACAGATAGAATTTATTCTTCTTGGACTGACAGATAATCCTCAGTTACAGATTG
TGATTTTTGTATTTCTTTTACTAAATTACTTTCTGAGTATGATAGGGAACTTAACTATTATTGCCCTCAC
TCTGCTAGATCCCCTTCTCAAGACACCAATGTATTTTTTCCTCCGTAATTTCTCTTTCTTGGAAATTTTA
TTTACAACAACCTGCATCCCCAGATTTTTAATCACCACTGTAACCCAGGAAAAGACAATTTCCTATAATG
GCTGTATTTGTCAATTATTCTTTTACATATTCTTGGGAGGCACAGAGTTTTTCCTTTTGGCTACCATGTC
CTATGACCGCTATATTGCCATTTGCAAACCCTTGCACTATGCATCTATCATGAGCAGTAAAGTTTGTCAT
CAGCTTGTCCTAGGTTCTTGGGTAACTGGATTCCTGGTTATTTTCCCCCCACTGATTATTGGCCTTGATT
TAGATTTCTGTGCTTCAGATGTCATTGACCACTTCCTTTGTGATGTTTCTCCTGTCCTACAACTGTCCTG
CTCAGACACAAATTTACTAGAAGTGACTGCTTTCATCCTAGCTCTCATGACACTCATTGTCACATTAGTA
ATAGTCATCCTTTCTTATGCTCACATTGTCAAGACAATTACAAAATTCCCTTCTGTTCAGCAAAAGAAAA
AGGCCTTTTCCACTTGTTCTTCTCACATGATTGTTGTTTCCCTCACTTATGGGAGTTGCATATTTATCTA
TATAAAACCTTCAGCAAATGAAAGAGTGACTTTGAGCAAAGGAATAGCTGTGCTCAACACTTCAGTTGCC
CCTTTGTTGAACCCATTCATTTATACACTGAGGAATAAACAAGTAAAACAAGCCTTTGGAGCCATGTGTA
GAAAAATATTTTCTGCTTCACAAAGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

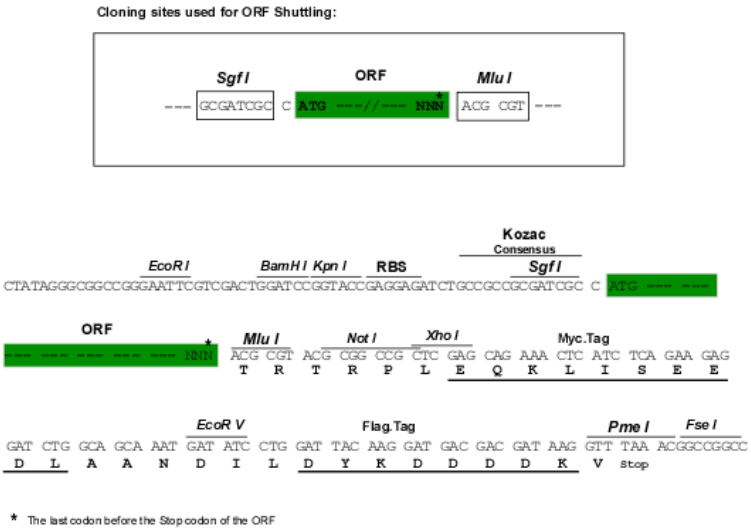
>RR205641 representing NM_001000072
Red=Cloning site Green=Tags(s)

MKNHTRQIEFILLGLTDNPQLQIVIFVFLLLNYFLSMIGNLTIIALTLLDPLLKTPMYFFLRNFSFLEIL
FTTTCIPRFLITTVTQEKTISYNGCICQLFFYIFLGGTEFFLLATMSYDRYIAICKPLHYASIMSSKVCH
QLVLGSWVTGFLVIFPPLIIGLDLDFCASDVIDHFLCDVSPVLQLSCSDTNLLEVTAFILALMTLIVTLV
IVILSYAHIVKTITKFPSVQQKKKAFSTCSSHMIVVSLTYGSCIFIYIKPSANERVTLSKGIAVLNTSVA
PLLNPFIYTLRNKQVKQAFGAMCRKIFSASQR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001000072

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_001000072.1, NP_001000072.1

RefSeq Size: 939 bp

RefSeq ORF: 939 bp

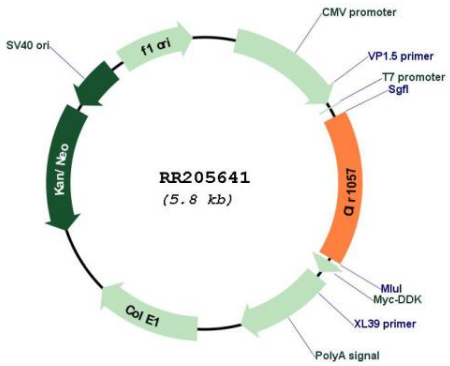
Locus ID: 288866

Cytogenetics: 7q11

MW: 35.2 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 RR205641