

Product datasheet for **RR214389**

Olr650 (NM_001000639) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Olr650 (NM_001000639) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Olr650
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR214389 representing NM_001000639 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAGCTGAATATCAATATAACCGAATTCATTCTTCTGGATTGACACAGGACCCAGTAGGAAAAACA
TAGTGTGGCCATTTTGTGTTCTTTACATGGGACATTACTAGGTAATTTGCTTATCATTGTTACCAT
CAAGACAAGCCAGGCCCTTGGGAGTCCCATGTACTTCTTCTGTCTACTTATCCTTGTCTGATACCTGC
TTCTCTACAAGTGTAGCCCCGAGAACAATTGTGGATTCTCTGCTGAAGGAGGCTTCAATCTTTCAACG
AATGTATAAATCAAGTCTTCTCAATTCATTATTTGGTCCCTGGAAATCTTTACCTCGTCTCATGGC
TGCGGATCGCTATGTGGCCATCTGTAAGCCTCTGCACTATACGACCATCATGAATCGCCAAGTCTGTGGA
ATGCTGATGGCCATAGCCTGGATGGATCCTGTGTGCATTCTTTAGTTCAGATATCCCGGCCTTGAGTT
TGCCTTTCTGTGGTCTAATGAGATTGATCACTATTTCTGCGACTTGCAACCACTGTTGAAACTGCCTG
TTCAGATACATATGTGAGCAACCTTCTCATGGTGTCCAATAGTGGATCGCTTTGTACAGTGAGTTTCCTC
ATGCTTATGGTCTCATATATCATCATTCTTATTTCTTTAAGGAACCACAGTGTGAGGGGAGGAGAAAGG
CTCTGTCACTTGTGTCTCATATCATAGTAGTCATTTGTTTTTGTGCCCTGCATTTTATATATAC
ACGTCCTGCTACCACCTCCCTATGGACAAGATGATATCAGTGTTTTATACAATTTGTACACCTTTTCTA
AACCTTTGATTTACACTGAGGAATGCAGAGGTGAAAAATGCCATGAGGAAACTGTGGACCAAAAAA
TCTCAGATGATATA

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ACAAGGATGACGACGATAAGGTTTAA



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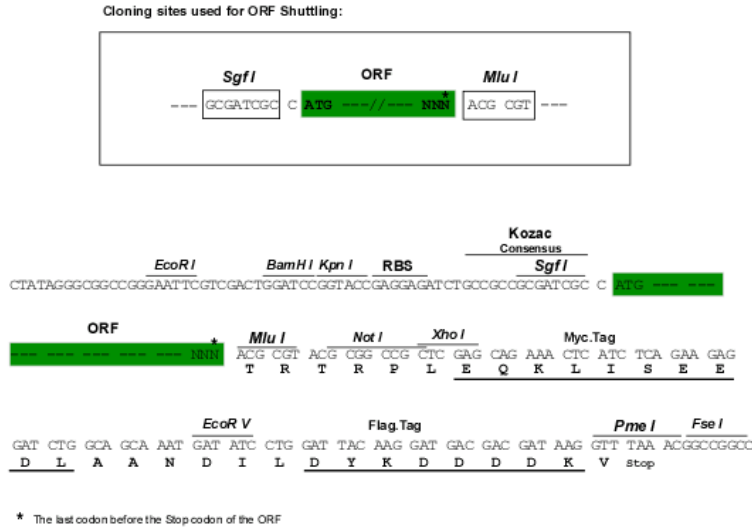
Protein Sequence: >RR214389 representing NM_001000639
 Red=Cloning site Green=Tags(s)

MQLNINITEFILLGLTQDPSRKNIIVFAIFVFFYMGTLGNLLIIVTIKTSQALGSPMYFFLFYLSLSDTC
 FSTTVAPRTIVDSLLEASISFNECIIQVFSIHLFGSLEIFTLVMAADRYVAICKPLHYTTIMNRQVCG
 MLMIAIWMGSCVHSLVQIFPALSLPFCGPNEIDHYFCDLQPLLLKACSDTYVSNLLMVSNSGLCTVVSFL
 MLMVSYIIILYSLRNHSAEGRRKALFTCVSHIIVVILFFVPCIFIYTRPATTFFPMDKMISVFYITICTPFL
 NPLIYTLRNAEVKNAMRKLWTKKISDDI

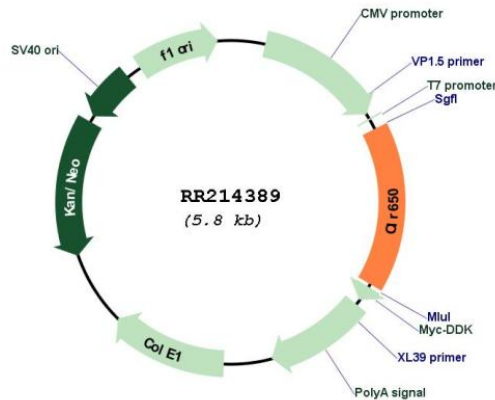
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001000639

ORF Size:	924 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:	<ol style="list-style-type: none">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_001000639.1 , NP_001000639.1
RefSeq Size:	927 bp
RefSeq ORF:	927 bp
Locus ID:	404832
Cytogenetics:	3q24
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]