

Product datasheet for **RR214886**

Olr550 (NM_001000322) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Olr550 (NM_001000322) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Olr550
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR214886 representing NM_001000322
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGACTCTGGAATCATACAGGTGTGGAGGAATTCATACTAGTCGGATTAACAGAAAACCTTAATTGGC
AAGTCGGGCTCTTTTCCTTTTCAGCATAGTTTATTTTATCATTCTGTGGGTAACCTGGGGATGATTCT
TTTGATCTGGTTGAATGCCCATCTTCACTCCAATGTACTTCTTCTTAGTAACCTCTCTTTTGTGAC
ATCTGCTATTCTACTGTCATTGCTCCTAAAATGCTCATAATTTCTGTGAGAATACAAGCTAGCACAT
TCTTTGGTTGTGTATTTCAGAGTTTCTTTTTCAGTGTATATACTACAGAAATTATACTCTTGTCTAT
GATGGCTTATGATCGTTATGTGGCAATTGCAAACCCCTTAATGTATACAGTTATTATGACACACAGCATC
TGCAGTCAGATGGTTCTTGCATGTACTTGGGTGGCCTTATTAATCCCTGACTCACACAATAGGTTTAC
TCAGACTGGACTTCTGTGGTCCCAACATTGTAGACCATTCTTCTGTGACATCCCTCCTCTTTGAAGCT
TTCATGTTCTGATGCACACATCAATGAGATGCTGCTTTTGTATTCTCTGGAGTGATTGCTATTTTACT
TTCATCATTGTCATGGTGCCTATATTCAAATTATCATTGCCATCCTGAGAATCCGCTCAGCTGAGGGAA
GGCGTAAAGCCTTCTCAACTTGTGCTCAGCATCTAACAGCTGTGACATTACTTTATGGTTCTGTGACATT
TAGCTATATCCAACCAAGTTCTCAATATCCATGGAACAGGAAAAAGTCTCTGCGGTGTTTTACACCTTG
GTTATCCCATGTTGAACCTCTAATTTACAGCCTGAGGAACAAAGATGTGAAAGAGGCAGCCAAGAGGT
CAATTTGTAGGGAGAGTGGTGGCCCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR214886 representing NM_001000322
 Red=Cloning site Green=Tags(s)

MRLWNHTGVVEEFILVGLTENLNWQVGLFFLFSIVYFIILVGNWGMILLIWLNAHLHTPMYFFLSNLSFCD
 ICYSTVIAPKMLINFLSEYKSSSTFFGCVIQSFFFAVYITTEVILLSMAYDRYVAIANPLMYTVMTHSI
 CSQMLVACYLGGILNSLTHITIGLLRLDFCGPNIVDHFCDIPLLKLSKSDAHINEMLLLLFSGVIAIFT
 FIIVMVSYIQIIIAILRIRSAEGRRKAFSTCASHLTAVTLLYGSVTF SYIQPSSQYSMEQEKVSAVFYTL
 VIPMLNPLIYSLRNKDVKEAAKRSICRESGGP

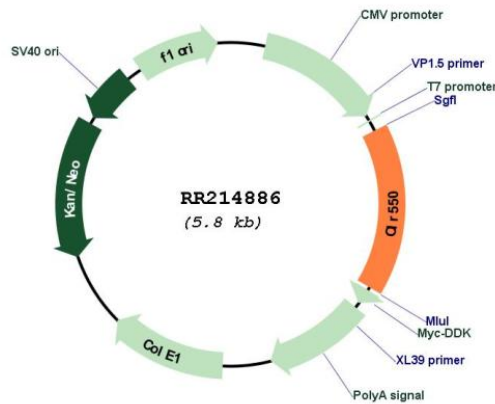
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001000322

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:	<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_001000322.1 , NP_001000322.1
RefSeq Size:	939 bp
RefSeq ORF:	939 bp
Locus ID:	295795
Cytogenetics:	3q24
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]