

Product datasheet for **RR208162**

Olr594 (NM_001000657) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Olr594 (NM_001000657) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Olr594
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR208162 representing NM_001000657
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGCAATTTGTGCTCATAGGATTTCTGACTTTCCCAACCTCCAAGGGTTTCTACATGCAGTGTTTTCTG
TAGTTTATAATTATCCTGGTTGGAAATTTCCCTATAATACTAACACCAGTATGGACCCTGCATTACA
GAAACCCATGTATTTTTCTGGCAAACCTTTCCCTCTCTGGAAATCTGTTATGTATCAGTTACTGTCCCA
AGGATTCTGTCAACCTTGAGAAACAGGACAGAAGCATTTCAGTATGTCCTGTGCCACACAGCTGTGCT
TCTTCCTATTTTTGGAAGTACTGAATGTTGCTGCTGACTGTGATGTCGTATGACCGCTATGTGGCCAT
CTGCAACCCTCTGCAATATCCACTGGTCAATGAACCCAAAAAGGTGCACACAGATGGTGGCAGTCTCCTGG
CTGGGAGGTATCCAGTCCAGATAGGACAACTTATCAGATATTCTCTATACCTTTTTGTTATTTCGAATC
AAATAGACCATTCTTTTGTGACATACCACCAATTCTCAAGCTGGCAGGTGGAGACACTTCTGTACACGA
ACTGTCTGTTTATTTGGTTGTTCCATGGTAGTTGCTTTCCCTCTTCATATTGGTGCTTACATCCTACAGC
AAAATCATTGCCACCATCCTGGGCTTGCCAACAACCAAGGGCGGGCAAAAGCCTTCTCCACATGTTCTT
CGCACCTGCTGGTGGTGGTGTGTTTATGGATCTGCTACAGTTACCTATTTGAGACCAAGTCCAGGCA
TTCTCCTGGAAGTACAAAGTGTCTCTGTTCTATGCAATTGTGATTTCTATGTTAAATCCGCTAATA
TACAGCCTTAGAAACAAGGAAGTACTGCTGCTATGAGAAAGTTAATATTCCAAATTAGGGACTTGTGTA
GGCATAGAAGTTTATTATTTTTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR208162 representing NM_001000657
 Red=Cloning site Green=Tags(s)

MQFVLIGFSDFPNLQGFHLHAVFSVVYIIILVGNFLIILTTSDMPALQKPMYFFLANFSSLEICYVSVTVP
 RILFNLEKQDRSISLMSCATQLCFLLIFGTTECLLLTVMSYDRYVAICNPLQYPLVMNPKRCTQMVAVSW
 LGGIPVQIGQTYQIFSIPFCYSNQIDHFFCDIPPILKLAGGDSVHEL SVYL VVSMVVAFLFILVLT SYS
 KIIATILGLPTTKGRAKAFSTCSSHLLVVVLFYGSATVTYLRPKSRHSPGTDKVFSLFYAIVISMLNPLI
 YSLRNKEVTAAMRKLIFQIRDLCRHRSLFF

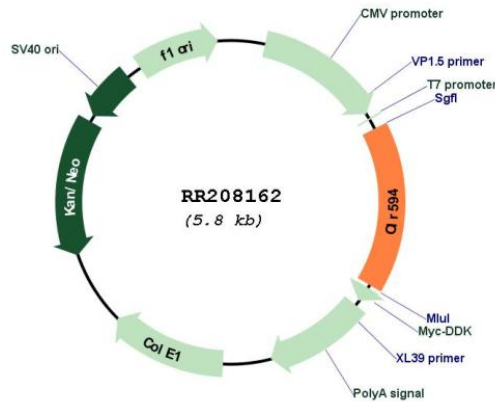
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001000657

ORF Size:	933 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_001000657.1 , NP_001000657.1
RefSeq Size:	936 bp
RefSeq ORF:	936 bp
Locus ID:	404856
Cytogenetics:	3q24
MW:	35.1 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]