

Product datasheet for **RR210700**

Olr530 (NM_001001376) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Olr530 (NM_001001376) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Olr530
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR210700 representing NM_001001376
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGAGCACCTGGAATTACACAAAAGAGTCTGACTTCATCCTCATGGGGCTGACAGATCCAAGAGTTAC
AGCTAGTCCTCCCTGTTCTGTTTCTGCTGATGTACCTGGTCACTGTGCTGGGAAACACAGGCATGATGCT
GATCATCCGCTAGATGCTCGGTTACACTCCAATGTATTTCTCCTCACCCATCTGTCATTCCCTTGAC
CTCTGTTACTCAACTGTCATCACACCTAAGACTTTACAGAATCTGCTGACTTCCAACAAAATCATTTCCT
TTATTGGCTGTTTCACTCAGATGTATGGTTTTGCCTCTTGCTGCTGCTGAATGTTTCCTTCTTGCTTC
AATGTCCTATGACAGATATGTGGCTATCTGCAACCCTTTACACTACCCAGTTATCATGTCCACAAGGTTT
TGCAGTGCCCTTCTCACTGGTTCCTATATGATTGGAACCTTGGATGCCACTGTTAATACTTTGTATGA
ATACCTTATACTTCTGCAGACCCAAGGTTATCCATCATTTTTTCTGTGACACGTCCCAATTTTAGTACT
GTCTTGAATGATACGCATAACATTGAAATCATTATTCATCTTTGCTGGTCTACTCTAATGGTGTCT
CTTATCACAATATCTTCTCCTATATGTCCATTCTGTCTACGATTTTGAAGATCAATCCACTTCAGGAA
AGCACAAAGCCTTCTCCACTTGTGCTCTCATCTCCTAGGAGTCACTGTGCTTTATAGTAATATTATTTT
TACTTATTTGAAACCAAGTAATTCCTACTCCTTGGGAAAGGATCAAGTGGCTTCTGTTTTCTATACTATT
GTGATCCCATGCTGAACCCACTCATTTATAGTCTCAGAAACAAAGAAAGTAAAAATGCTGTTTCATAGAG
TTATCAAAAAGCAGGAAGGCTCAAGGCTTCAGATCAGAGTGACACTTAGTAAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR210700 representing NM_001001376
 Red=Cloning site Green=Tags(s)

MSTWNYTKESDFILMGLTDSKELQLVLPVLFLLMYLVTVLGNTGMMLIIRLDARLHTPMYFFLTHLSFLD
 LCYSTVITPKTLQNL LTSNKIISFIGCFTQMYGFVLLAAAEFCLLASMSYDRYVAICNPLHYPVIMSTRF
 CSALLTGSYMITLDATVNILCMNTLYFCRPKVIHHFFCDTSPILVLSNCDTHNIEIIIFIFAGSTLMVS
 LITISSYMSILSTILKINSTSGKHKAFSTCASHLLGVTVLYSNIIFTYLKPSNSYSLGKDQVASVFYTI
 VIPMLNPLIYSLRNKEVKNNAVHRVIKKQEGSRLQIRVTLN

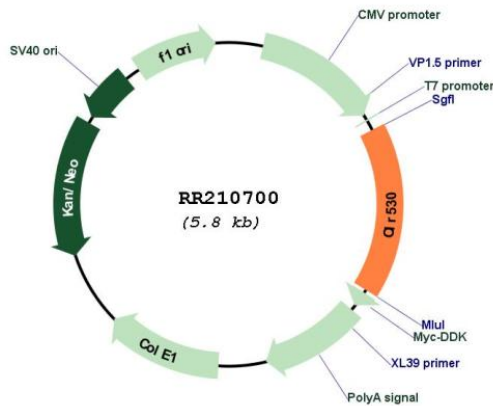
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001001376

ORF Size:	963 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_001001376.1 , NP_001001376.1
RefSeq Size:	966 bp
RefSeq ORF:	966 bp
Locus ID:	295786
Cytogenetics:	3q24
MW:	36.1 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]