

Product datasheet for **RR209602**

Olr705 (NM_001000570) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Olr705 (NM_001000570) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Olr705
Synonyms:	ratchr3-73835565-73834645_ORF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR209602 representing NM_001000570 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGGGACAGGGCTACAATGTCACAGAATTCATTTTGTGGGCCTTACTCAAGATCCTGCTGGACAAAAAG
 CATTATTTGCCTTGTTTTCACTCACCTACATTGTGACAATGCTGGGCACTTGCTCATTGCAGGGACAGT
 GATTGCCAGCCCTTCCTAAAAATCCCAATGTACTTCTTCTTGCTGTCTGTCAGTCTGGATGCTCTT
 TATTGCAATTCATCTCACCAAATTTGATTATAGACTTATTATATAATAAAAAGACTATTTCTTTCAAAT
 CATGCATGCTCCAGCTCTTCGTAGAGCACTTATTTGGCGGTGTTGAGGTCTTCTTCTGGTTTTTCATGGC
 CTATGATCGCTATGTGGCATCTGCAAGCCACTGCACTATTTGACCATTATGAACCAGCGGTGTGCATT
 CTCCTTTTGTGGTGGTGGTGTGGAGGCACAGTACACTCAACGATTCAAGTTCTGACTGTGTATAAAC
 TCCCTTTTGTGGTCCCAATGTCATTGATCACTTCATGTGTGACATGAATCCACTACTGGGACTTGCGTG
 CACTGACACCTACTTCCTTGGCATCACCGTCATGGCCAATGGTGGAGTAATCTGTGTGGGAATTTTACC
 TTTCTCTAGTCTCCTATGGAATCATTCTAACTCTCTTAAGACCCACAGTCAGGAAGGAAGCGCAAAAG
 CTCTGTTACCTGCAGCTCCCATATCACGGTGGTGTGTGTTTTTGTCTCCCTGCAGTTTTATATATGC
 TAGGCCTGTCTCCAACGTTCTATTGATAAATATATCGCTGTGTTTTATACAGTTGTTAGCCCCATGTTG
 AATCCATTGATATACCTTGAGAAATTCAGAGATGAAAAATTGTATAAAAAAGCTCTGGTCTAAAACTT
 TAACAAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RR209602 representing NM_001000570
 Red=Cloning site Green=Tags(s)

MGQGYNVTEFIFVGLTQDPAGQKALFALFSLTYIVTMLGNLLIAGTVIASPSLKSPMYFFLACLSVLDAL
 YCNSISPNIIDLLYNKKTISFKSCMLQLFVEHLFGGVEVFLVFMAYDRYVAICKPLHYLTIMNQRVCI
 LLLL VAGVGGTVHSTIQVLT VYKLPFCGPNVIDHFMCDMNPLGLACTDYFLGITVMANGGVICVGIFT
 FLLVSYGIILNSLKTHSQEGRRKALFTCSSHITVVVCFAPCSFIYARPVSNVPIDKYIAVFYTVVSPML
 NPLIYTLRNSMKNCIKKLWSKTLTK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001000570

ORF Size: 918 bp

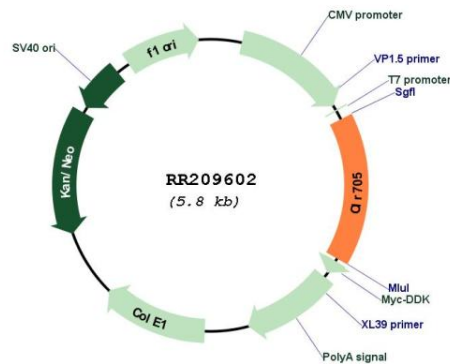
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<u>NM_001000570.1, NP_001000570.1</u>
RefSeq Size:	921 bp
RefSeq ORF:	921 bp
Locus ID:	366112
Cytogenetics:	3q24
MW:	34 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 RR209602