

## Product datasheet for RC210149

### OR3A1 (NM\_002550) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	OR3A1 (NM_002550) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	OR3A1
Synonyms:	OLFRA03; OR17-40; OR17-82; OR40
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC210149 representing NM_002550 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCAGCCAGAATCTGGGGCCAATGGAACAGTCATTGCTGAGTTCATCCTGCTGGGCTTGTGGAGGCGC  
CAGGGCTGCAGCCAGTTGTCTTTGTGCTCTTCTCTTTGCCTACCTGGTCACGGTCAGGGGCAACCTCAG  
CATCCTGGCAGCTGTCTTGGTGGAGCCAACTCCACCCCCATGACTTCTTCTGGGAACTATCA  
GTGCTGGATGTTGGTGCATCAGCGTCACTGTTCCATCAATGTTGAGTCGTCTCCTGTCCGCAAGCGTG  
CAGTTCCTGTGGGCGCTGCCTTACCCAGCTCTTCTTCTCCATCTGTTGTTGGAGTGGACTGCTTCTCT  
GCTGACCGCCATGGCCTATGACCGATTCTGGCCATCTGCCGGCCCTCACCTACAGCACCCGCATGAGT  
CAGACAGTCCAGAGGATGTTGGTGGCTGCGTCTGGGCTTGTGCTTTCACCAACGCACTGACCCACACTG  
TGGCCATGTCCACGCTCAACTTCTGTGGCCCAATGTGATCAATCACTTCTACTGTGACCTCCCACAGCT  
CTTCCAGCTCTCCTGCTCCAGCACCCAATCAATGAGCTGCTGCTTTTGTGTTGGGTTTTATAATGGCA  
GGTACCCCATGGCTCTCATTGTCATCTCCTATATCCAGTGGCAGCTGCAGTCTGCGAATTCGCTCTG  
TAGAGGGCAGGAAGAAAGCCTTCTCCACATGTGGCTCCACCTCACTGTGGTTGCCATATTCTATGGTTC  
AGGTATCTTTAACTATATGCGACTGGGTTCAACCAAGCTTTCAGACAAGGATAAAGCTGTTGGAATTTTC  
AACACTGTCATCAATCCCATGCTGAACCAATCATCTACAGCTTCAGAAACCCTGATGTGCAGAGTGCCA  
TCTGGAGGATGCTCACAGGGAGGCGGTCACTGGCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC210149 representing NM\_002550  
Red=Cloning site Green=Tags(s)

MQPESGANGTVIAEFILLGLLEAPGLQPVVVFLFLFAYLVTVRGNLSILA AVLVEPKLHTPMYFFLGNLS  
 VLDVGCISVTVPSMLSRLLSRKRAVPCGACLQLFFFHLFVGVDCFLLTAMAYDRFLAICRPLTYSTRMS  
 QTVQRMLVAASWACAFTNALTHTVAMSTLNFCGPNVINHFYCDLPQLFQLSCSSTQLNELLLFAVGFIMA  
 GTPMALIVISYIHVAAAVLRIRSVVEGRKKAFFSTCGSHLTVVAIFYGSGIFNYMRLGSTKLSDKDKAVGIF  
 NTVINPMLNPIIYSFRNPDVQSAIWRMLTGRRSLA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8102\\_h11.zip](https://cdn.origene.com/chromatograms/mk8102_h11.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_002550

**ORF Size:** 945 bp

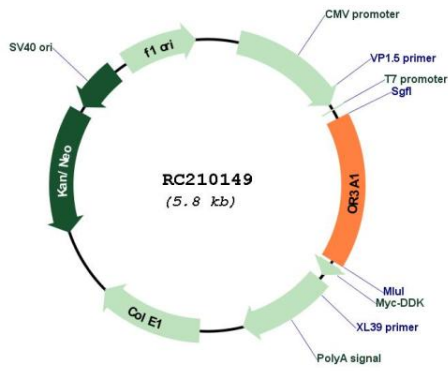
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_002550.2</a> , <a href="#">NP_002541.2</a>
<b>RefSeq Size:</b>	948 bp
<b>RefSeq ORF:</b>	948 bp
<b>Locus ID:</b>	4994
<b>UniProt ID:</b>	<a href="#">P47881</a>
<b>Cytogenetics:</b>	17p13.3
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Olfactory transduction
<b>MW:</b>	34.6 kDa
<b>Gene Summary:</b>	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 RC210149