

## Product datasheet for **SC111419**

### Olfactory Receptor OR2A4 (OR2A4) (NM\_030908) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Olfactory Receptor OR2A4 (OR2A4) (NM_030908) Human Untagged Clone
Tag:	Tag Free
Symbol:	Olfactory Receptor OR2A4
Synonyms:	OR2A10
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_030908, the custom clone sequence may differ by one or more nucleotides

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ATGGGAGACAATAAACATCCATCAGAGAGTTCCTCTACTGGGATTTCCCGTTGGCCCAAGGATTCAGA
TGCTCCTCTTTGGGCTCTTCTCCCTGTTCTACGTCTTCACCTGCTGGGAACGGGACCATACTGGGGCT
CATCTCACTGGACTCCAGACTGCACGCCCCATGTA CTCTTCTCTCACACCTGGCGTTCGACATC
GCCTACGCCTGCAACACGGTGCCCGGATGCTGGTGAACCTCTGCATCCAGCCAAGCCCATCTCCTTTG
CGGGCCGATGATGCAGACCTTTCTGTTTTCCACTTTTGCTGTCACAGAATGTCTCCTCTGGTGGTGT
GTCCTATGATCTGTACGTGGCCATCTGCCACCCCTCCGATATTTGGCCATCATGACCTGGAGAGTCTGC
ATCACCTCGCGGTGACTTCCTGGACCACTGGAGTCTTTTATCCTTGATTTCATCTGTGTACTTCTAC
CTTTACCTTCTGTAGGCCCCAGAAAATTTATCACTTTTTTTGTGAAATCTTGGCTGTTCTCAAACCTGC
CTGTGCAGATACCCACATCAATGAGAACATGGTCTTGGCCGGAGCAATTTCTGGGCTGGTGGGACCTTG
TCCACAATTGTAGTTTCATATATGTGCATCCTCTGTGCTATCCTTCAGATCCAATCAAGGGAAGTTCAGA
GGAAAGCCTTCCGCACCTGCTTCTCCCACCTCTGTGTGATTGGACTCGTTTATGGCACAGCCATTATCAT
GTATGTTGGACCCAGATATGGGAACCCCAAGGAGCAGAAGAAATATCTCCTGCTGTTTCACAGCCTTTT
AATCCCATGCTCAATCCCCTTATCTGTAGTCTTAGGAACCTCAGAAGTGAAGAATACTTTGAAGAGAGTGC
TGGGAGTAGAAAGGGCTTTATGA
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_030908 unedited CTTTCAAATTTGTATACGACTCACTATAGGCGGCCGGAATTCGCACGAGGCCGAGTTCC TCTTCCGCACGNAGACTCAGGATATGGGGGACAATATAACATCCATCACAGAGTTCCTCC TACTGGGATTTCCCGTTGGCCCAAGGATTCAGATGCTCCTCTTTGGGCTCTTCTCCCTGT TCTACGTCTTCACCCTGCTGGGAACGGGACCATACTGGGGTTCATCTCACTGGACTCCA GACTGCACGCCCCATGTACTTCTCTCACACCTGGCGGTCGTCGACATCGCCTACG CCTGCAACACGGTGCCCCGGATGCTGGTGAACCTCCTGCATCCAGCCAAGCCCATCTCCT TTGCGGGCCGCATGATGCAGACCTTCTGTTTTCCAATTTTGCTGTACAGAATGTCTCC TCCTGGTGGTGATGTCCTATGATCTGTACGTGGCCATCTGCCACCCCTCCGATATTTGG CCATCATGACCTGGAGAGTCTGCATCACCTCGCGGTGACTTCTGGACCACTGGAGTCC TTTTATCCTTGATTCATCTTGTGTTACTTCTACCTTTACCTTCTGTAGGCCCCAGAAAA TTTATCACTTTTTTTGTGAAATCTTGGCTGTTCTCAAACCTGCCTGTGCAGATACCCACA TCAATGAGAACATGGTCTTGGCCGGAGCAATTTCTGGGCTGGTGGGACCCTTGTCCACAT TGTAGTTTCATATATGTGCATCCTCTGTGCTATCCTTCAGATCCAATCAAGGGAAGTCAG AGGAAAGCCTTCTGCACCTGCTTCTCCACCTCTGTGTGATTGGACTCTTTATGGCACAG CCATATCATGTATGTTGGNACCCAGATATGGNAACCCAGNAGGCAGAGAATATCTNCTG CTGTTNACAGACTCTTAATCCATGCTCA
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_030908
<b>Insert Size:</b>	4000 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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_030908.1</a> , <a href="#">NP_112170.1</a>
<b>RefSeq Size:</b>	933 bp
<b>RefSeq ORF:</b>	933 bp
<b>Locus ID:</b>	79541
<b>UniProt ID:</b>	<a href="#">O95047</a>
<b>Cytogenetics:</b>	6q23.2
<b>Domains:</b>	7tm_1
<b>Protein Families:</b>	Druggable Genome, Transmembrane

**Protein Pathways:** Olfactory transduction

**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]