

Product datasheet for **SC127286**

OR2C3 (AK090641) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OR2C3 (AK090641) Human Untagged Clone
Tag:	Tag Free
Symbol:	OR2C3
Synonyms:	LINC00657
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >NCBI ORF sequence for AK090641, the custom clone sequence may differ by one or more nucleotides

```
AGTTCGGTCCGGCAGAGATCGCGGAGAGACGAGAACGCAGCCCGCTCCTCCAGGGCCCTCCAGGCCCT
CCGGCCCCGGCCGGCGGGTGAACGGGGGGCCCCGGGACAGGCCGAGCCCTCTGCCCTGCAGATAACGG
AGGCCTCTGCTGTGGCTGCCACTGGCTGTGCCGCCACTGGCTGTGCCAGACCTTGAAGCCGACGG
AACCTCTCTTTCCACCCACCTCGGTGACTAATGGCGGCCGTGGCGTCTCCAGCCGGACCCCGCGG
CACCCGGGTCTCCGACCCAAGCCTCGACGAAACCCCGCAGAGCCGCCGGGACGACGCGCTTTGGGCG
GCGCTGGGCGTGGTGGGCGGGAAGTATGGCGGCAGCTCGAACGCCGCGCGGGGAGGCCATTAAGGCGT
GGACGGCCCGGAAGGCGGCTAGGGACGCAAGCAGGCTCGGCCGCTCTTAGGCCACGGAGCCGCGCA
GATCCGGTCCCGGTGACCACTCTGTCGCCATTGGGCGAGACCTACCTAGTCTGACGACAACGGACAA
AGGCCTTAAGGGGCTGGAAGGTGAGCGAAGTCCCGAACGACGACGGGTGGAACGTTAGCGCCATCGG
GCGGTTGGTCTTCACTTACCAGACTTTGCTGTGGAAGAGAAAATGGTAGAATGACAGGCCACGTTTG
GCCGTTGAAAATGCCACCACCTCTGGGAAGATTTACTGGCCGTTTATGGAAGCCTGTGTATATAAT
ATGAAAAAGCTGCTCTCAACTCCACCCAACTTTAATAGAAAACATTTGTACATCTAGCCCTCTAG
ATGAAAAGAGGTTGCCGACGTATGATAAAATAGAGTTAGAAAAGTTACACATCTTGTAAATTTCTATTGT
TAAAAGAAAATCATAGAAAATACATGTCTTCTGGAGATGACTTTTGGAAATGGAGTTGTTAAGACGGCT
CTGGAAGCGATACGTCCACGTTTGTAAAGTGGTTAGATGACATGGAGCTGGAAGACCTGAGAAGGAAGA
GAAGAAGGTTCTATGCTAGACTGGTCATATTTAGAAGACATTTTCATATTTCTATCCATTGTTTTGTGTGC
ATTTTATCCTCACTACTGTGTATATAGTTGACAATGCTAAGCTTTTTGAAATGTCTCTCTTTTTAGA
TGTTCTGAAGTGCCTGATATGTTAAAATAGAGGTAGCAAATCACATTTTGTAAATACCTTTTTGTAC
AATTCATAGAAAATTTTTGGGGGGAATGGCCAAATCACCTGTTGAGTAATACTCATTGTGTTGTGC
AGTGGTTCAGGGGAGGAGAGAGGGGGGGAGGTGCAGAGAGCTCTATGCCATCCTGTTTACAGCGAGGCA
AGATGAATCATTATGCTGTGCATTTTGTCTTACTTATCTGTGTATATAGTGTACATAAAGGACAGACGA
GTCCTAATTGACAACATCTAGTCTTTCTGGATGTTAAAGAGGTTGCCAGTGTATGACAAAAGTAGAGTTA
GTAAACTAATATATTTGTACATTTTGTCTTACAAGTCTAGGAAAGATTGCTTCTGAAAATTTGATGT
CTTCTGGGTTGATGGAGATGGGAAGGTTCTAGGCCAGAATGTTACATTTGGAAGACTCTTCAAATTA
TAACTGTTGTACATGTTTGCAGTTTATTCAAGACTGCTGTATACATAGTACAAAATTAACCTTACT
TAAAACATCTAGTCTATCTAGATGTTTAGAAGTCCCGATGTATGTTAAATGTATAGGTAGTAAAATACC
ACTTTGTAATATCTTTTGTCTAAAATTCATAGGAAATGCTTTTGGAAATGAATTGTGAAGCCACCTTT
GTGAACAGTATAGTAATGTCTATACTTGTCAATAGTTTAGAGGAGGTAGGAGGGAAGAAATGCAAAAAG
GTAATATTACTAGTGTGTTCACTTGGACATTTTCAGACACCATTTTCTATATGTTTTGTGATTTTG
TTTTGCTCTGTATATAGTATATAATGGACAAATAGTCCTAATTTTCAACATCTAGTCTCTAGATGTT
AAAGAGGTTGCCAGTGTATGACAAAGGAGTAAAATTAGCATATTTTGTACACTTTGTGTTGAAATTCGTA
GGAAAACCTGTCTTCTGTAAGACTTTTGCATAGG
```

5' Read Nucleotide Sequence:	>OriGene 5' read for AK090641 unedited TGTATACGACTCCTCAGGGCGGCCGACCTCGGCACGAGGGGCCCGGGACAGGCCGAG CCCTCTGCCCTGCAGATAACGGAGGCCTCTGCTGTGGCTGCCACTGGCTGTGCCCGCC ACTGGCTGTGCCAGACCTTGAAGCCGACGCAACCTCTTTCCACCCACCTCGGTG ACTAATGGCGGCCGTGGCGTCTCCAGCCGGACCCCGCCGGCACCCGGGTCTCCGACC CAAGCTCGACGAAACCCCGCAGAGCCCGGGACGACGCGCTTTGGCGGCGCTGGG CGTGGTGGCCGGGAAGTATGGCGGCAGCTCGAACGCCGCGGGGAGGCCATTAAGGC GTGGACGGCCCGGAAGGCGGCCTAGGGACGCAAGCAGGCTCGGCCGCTCTTAGGCCA CGGAGCCGCGCAGATCCGGTTCCCGGTGACCACTCTGTGCGCATTGGGCGAGACTACC TAGTCCTGACGACAACGGACAAGGCCTTAAGGGGCTGGAAGGTGAGCGAAGTCCCGAA CGACGACGGTGAACGGTTAGCGGCCATCGGGCGGTTGGTCTTCATTCTACCAGACTTT GCTGTGCGAAGAGAGAAATGGTAGAATGACAGGCCACGTTTGGCCGTTGGAAATGCCCA CCACCCTCTGGGAAGATTTACTGGCCGTTTATGGAAGGCCTGTGTATATAATATGAAAA GCTGCTCTCAACCACCCACCTTTTAAATAGAAACATTTGTCACATCTAGCCCTTCTAGA TGGAAAAGAGGGTGCCGACGTATGATAAATANAGTTAGAAAGTTCACATCTTGTAATTCT CATTTGTTTAAAGAAACATAGAAATACATGTCTCTGGAGAGACTTTTGAATGGAGTGGT AAGACGGCTCTGA
Restriction Sites:	NotI-NotI
ACCN:	AK090641
OTI Disclaimer:	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).
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:	AK090641.1
RefSeq Size:	2205 bp
RefSeq ORF:	2205 bp
Locus ID:	81472
Cytogenetics:	1q44
Protein Families:	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]