

Product datasheet for SC127945

OR1J2 (NM_054107) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OR1J2 (NM_054107) Human Untagged Clone
Tag:	Tag Free
Symbol:	OR1J2
Synonyms:	HG152; HSA5; OR1J3; OR1J5; OR9-19; OST044
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC127945 sequence for NM_054107 edited (data generated by NextGen Sequencing)

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ATGAGCCCTGAGAACCAGAGCAGCGTGTCCGAGTTCCTCCTTCTGGGCCCTCCCCATCCGG
CCAGAGCAGCAGGCTGTGTTCTTCAACCCTGTTCCCTGGGCATGTACCTGACCACGGTGCTG
GGGAACCTGCTCATCATGCTGCTCATCCAGCTGGACTCTCACCTTACACCCCCATGTAC
TTCTTCTCAGCCACTTGGCTCTCACTGACATCTCCTTTTCATCTGCTACTGTCCCTAAG
ATGCTGATGGACATGCGGACTAAGTACAAATCGATCCTCTATGAGGAATGCATTCTCAG
ATGTATTTTTTATATTTTTTACTGACCTGGACAGCTTCCTTATTACATCAATGGCATAT
GACCGATATGTTGCCATATGTCACCCTCTCCACTACACTGTCATCATGAGGGAAGAGCTC
TGTGCTTCTTAGTGGCTGTATCTTGGATTCTGTCTTGTGCCAGCTCCCTCTCTCACACC
CTTCTCCTGACCCGGCTGTCTTTCTGTGCTGCGAACACCATCCCCATGTCTTCTGTGAC
CTTGCTGCCCTGCTCAAGCTGTCCTGCTCAGATATCTTCCCTCAATGAGCTGGTCATGTTT
ACAGTAGGGGTGGTGGTCATTACCCTGCCATTTCATGTGTATCCTGGTATCATATGGCTAC
ATTGGGGCCACCATCCTGAGGGTCCCTTCAACCAAGGGATCCACAAAGCATTGTCCACA
TGTGGCTCCCATCTCTGTGGTGTCTCTATTATGGGTCAATATTTGGCCAGTACCTT
TTCCCGACTGTAAGCAGTTCTATTGACAAGGATGTCATTGTGGCTCTCATGTACACGGTG
GTCACACCCATGTTGAACCCCTTATCTACAGCCTTAGGAACAGGGACATGAAAGAGGCC
CTTGGGAAACTCTCAGTAGAGCAACATTTTTCTTGGTGA

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Clone variation with respect to NM_054107.1



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_054107 unedited
 GTGCAGTACAAATTTGTATACGACTCATATAGGGCGGCCGCGATTGCGCCCTTAAGGGAGT
 ATGAGCCCTGNANAACCANAGCAGCGTGTCCGAGTTCTCTCTTCTGGGCCTCCCCATCCG
 GCCAGAGCAGCAGGCTGTGTTCTTACCCTGTTCTCTGGGCATGTACCTGACCACGGTGCT
 GGGGAACCTGCTCATCATGCTGCTCATCCAGCTGGACTCTCACCTTCACACCCCCATGTA
 CTTCTTCTCAGCCACTTGGCTCTCACTGACATCTCCTTTTCATCTGCTACTGTCCTTCA
 GATGCTGATGGACATGCGGACTAAGTACAAATCGATCCTCTATGAGGAATGCATTTCTCA
 GATGATTTTTTTATATTTTTTACTGACCTGGACAGCTTCTTATTACATCAATGGCATA
 TGACCGATATGTTGCCATATGTACCCTCTCCACTACACTGTCATCATGAGGGAAGAGCT
 CTGTGCTTCTTAGTGGCTGTATCTTGGATTCTGTCTTGTGCCAGCTCCCTCTCTCACAC
 CCTTCTCCTGACCCGGCTGTCTTCTGTGCTGCGAACACCATCCCCATGTCTTCTGTGA
 CCTTGCTGCCCTGCTCAAGCTGCTCCTGCTCAGATATCTTCTCAATGAGCTGGTCATGTT
 CACAGTAGGGTGGTGGTCATTACCCTGCCATTATGTGTATCCTGGTATCATATGGCTA
 CATTGGGGCCACCATCCTGAGGGTCCCTTCAACCAAAGGGATCCACAAAGCATTGTCCAC
 ATGTGGCTCCCATCTCTGTGGTGTCTCTTATTATGGGTCAATATTTGGCCAGTACCT
 TTTCCCGACTGTAAGCAGTTCTATTGACNAGNATGTCATTGTGGCTCTCATGTACACGGG

3' Read Nucleotide Sequence:

>OriGene 3' genomic read for NM_054107 unedited
 AGNAAAGCACTGGGGNAGGGTACAGGGATGCCACCCGGGNATCTGTTTCAGAAACTAT
 GACCGCGCCGCAATCTAGAGTCGACAAGCTTGATATCGGTACCAGATCTGAATTCTGGC
 CAACAAATATTTACCAATTACATTCAACATGTTAACATTTGTCTTAGGGCTTCAGGACAT
 AACATGTTTTGAGACATATCAAATGGAAAATCAAATACATGAGATAAACCAAAATGAGA
 TTCTAATTTTTAAAAAGTCAGATGTCACCAAGAGAAAAATGTTGCTCTACTGAAGAGTT
 TCCCAAGGGCCTTTTCATGTCCCTGTTCTAAGGCTGTAGATAAAGGGTTCAACATGG
 GTGTGACCACCGTGTACATGAGAGCCACAATGACATCCTTGTCAATAGAAGTCTTACAG
 TCGGGAAAAGGTACTGGCCAAATATTGACCCATAATAGAGAGACACCACAGAGAGATGGG
 AGCCACATGTGGACAATGCTTTGTGGATCCCTTTGGTTGAAGGGACCCTCAGGATGGTGG
 CCCCAATGTAGCCATATGATACCAGGATACACATGAATGGCAGGGTAATGACCACCACC
 CTACTGTGAACATGACCAGCTCATTGAGGAAGATATCTGAGCAGGACAGCTTGAGCAGGG
 CAGCAAGGTCACAGAAGACATGGGGGATGGTGTTCGCAGCACAGAAAGACAGCCGGGTCA
 AGAGAAAAGGTGTGAGAGAGGGAGCTGGCACAAGACAGAATCCAAGATACAGCCACTAAGA
 AGACACAGAGCTTCCCTCATGATGACAGTGTANTGGGAGAGGTGACATATGGCAACAA

Restriction Sites:

Please inquire

ACCN:

NM_054107

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:

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_054107.1](#), [NP_473448.1](#)

RefSeq Size: 942 bp

RefSeq ORF: 942 bp

Locus ID: 26740

UniProt ID: [Q8NGS2](#)

Cytogenetics: 9q33.2

Protein Families: 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]