

Product datasheet for SC115401

OR2C1 (NM_012368) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OR2C1 (NM_012368) Human Untagged Clone
Tag:	Tag Free
Symbol:	OR2C1
Synonyms:	OLFmf3; OR2C2P
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC115401 sequence for NM_012368 edited (data generated by NextGen Sequencing)

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ATGGACGGGGTGAATGATAGCTCCTTGCAGGGCTTTGTTCTGATGGGCATATCGGACCAT
CCCCAGCTGGAGATGATCTTTTTATAGCCATCCTCTTCTCCTATTTGCTGACCCACTT
GGGAACCTCAACCATCATCTTGCTTTCCCGCCTGGAGGCCGGCTCCATACACCCATGTAC
TTCTTCTCAGCAACCTCTCCTCCTTGGACCTTGCTTTGCTACTAGTTCAGTCCCCAA
ATGCTGATCAATTTATGGGGACCAGGCAAGACCATCAGCTATGGTGGCTGCATAACCCAG
CTCTATGTCTTCTTGGCTGGGGCCACCGAGTGCATCCTGCTGGTGGTGGTGGTGGTGGT
GACCGCTACGTGGCAGTGTGCCGGCCCTCCGCTACACCGCCATCATGAACCCAGCTC
TGCTGGCTGCTGGCTGTGATTGCCTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT
ACATTCCTCTGCAGCTCCATTGTGTGGCACCAGGGTGGAGGGATTCTCTGCGAG
GTGCTGCGATGATCAAAGTGGCTGTGGCGACAAAGTCTCAACCAGGCTGTGCTCAAT
GGTGTCTGCACCTTCTCACTGCAGTCCCACTAAGCATCATCGTGATCTCCTACTGCCTC
ATTGCTCAGGCAGTGTGAAAATCCGCTCTGCAGAGGGGAGGCGAAAGGCGTTCAATACG
TGCTCTCCCATCTGCTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT
CTTCCGGCAAGAACAGCAAACAGGACCAGGGCAAGTTCATTTCCCTGTTCTACTCGTTG
GTCACACCCATGGTGAATCCCCTCATCTACACGCTGCGGAACATGGAAGTGAAGGGCGCA
CTGAGGAGGTTGCTGGGAAAGGAAGAGAAGTTGGCTGA

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Clone variation with respect to NM_012368.2
54 a=>g;447 c=>g



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_012368 unedited CCCATTCCGATTGTATCCATTCATATGGGCGGCCGCTGAATCGGCACGAGTTTGGAGAA TACAAAGTCAGCAGAAAAGTTTCACTTTCATCGTCACCAACTCCTGTTGGAGTTGATATT TCATAAACATCAGCGACAGAAAAGAAAATACGACTTGATATTTTTGCTTTTAGGAAGAAGA TCCTTTTATTGCTTTTGTACAAGACCAGACAGGATCTCATTGTAAACGTGGTACCAAT TGGGTGTCTTAACACAGGAGCAGAATTCTAGAGCAGAATGATGATGGTAGATCTGAAA GTGGCTCGCTACTTGGACCCTCAGATCAGGGCTTTGTGGGAGACCAAGGGGCCTGCAAGA GAGAGCTCCGGTCAGAGTAAAAAATCTCCTCAAATGGACTGTCTCGATCCTAAGAGCTCT TGCTGGCACTTCCGGAATTTACCTATGATGAAGCAGGTGGACCCCGTGGGCTGTCAGC AAACCTCAAGAATTATGTCATCTATGGCTGAAGCCAGAGATCCACTCAAAAGAGCAGATA CTGGAAGTGTGGTGGTGGAGCAGTTTCTGACTATTCTGCCAGGGAGACACAGACCCAG ATGCAGAAGCACCATCCACAGAGCATTGAGGAGGCTGTGGCTCTGGTAGAACACTGCGAG AGGGAATCTGGTCAAACATGGAATGGGCTTGCCTAAATGAATTCATCAAGTGACTGAAG ACAACCAGTGATGGACGGGTGAATGATAGCTCCTTGCAGGGCTTTGTTCTGATGGGCAT ATCGGACCATCCCAGCTGGAGATGATCTTTTTATAGCCATCCTTCTCTATATGCT GACCCTACTTGGGAACCTACCATCATCTTGCTATCCGCCTGGAGGCCCTGCTC
Restriction Sites:	NotI-NotI
ACCN:	NM_012368
Insert Size:	4200 bp
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:	NM_012368.1 , NP_036500.1
RefSeq Size:	939 bp
RefSeq ORF:	939 bp
Locus ID:	4993
UniProt ID:	O95371
Cytogenetics:	16p13.3
Protein Families:	Druggable Genome, GPCR, 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]