

## Product datasheet for **SC300853**

### OR2J3 (NM\_001005216) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** OR2J3 (NM\_001005216) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** OR2J3  
**Synonyms:** 6M1-3; C3HEXS; HS6M1-3; OR6-6; OR6-16; OR6.3.6; ORL671  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Fully Sequenced ORF:** >SC300853 representing NM\_001005216.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGAATGATGATGGAAAAGTCAATGCTAGCTCTGAGGGTACTTTATTTTAGTTGGATTTTCTAATTGG
CCTCATCTGGAAGTAGTTATCTTTGTGGTTGTCTTGATCTTCTACTTGATGACACTGATAGGAAACCTG
TTCATCATCATCTGTCATACCTGGACTCCCATCTGCACACACCAATGTACTTCTCCTTTCAAACCTC
TCATTTCTGGATCTCTGTACACCACCAGCTCTATCCCTCAGTTGCTGGTCAATCTCTGGGGCCCGAA
AAGACCATCTCTATGCTGGTTGCATGATTCAACTTTACTTTGTCTCGCACTGGGAACCACAGAGTGT
GTCCACTGGTGGTGTATGCTATGACCGTTATGCAGCTGTGTAGACCTTTGCATTACACTGTCCCTC
ATGCACCCCTCGTTTCTGCCACCTGCTGGCTGTGGCTTCTTGGGTAAGTGGTTTTACCAACTCAGCACTT
CATTCCTCCTTACCTTCTGGGTACCTCTGTGTGGACACCGCAAGTAGATCACTTTTTCTGTGAAGTT
CCAGCACTTCTGCGATTATCGTGTGTTGATACCCATGTCAATGAGCTGACCCCTCATGATCACAAGCTCC
ATATTTGTTCTCATACCTCTCATCTCATTCTCACTTCTTATGGTGCCATCGTCCGAGCTATACTGAGG
ATGCAGTCAACCACTGGGCTT CAGAAAGTGTGGAAACATGTGGAGCTCATCTTATGGCTGTATCTCTC
TTTTTCATTCCGGCCATGTGCATGTATCTCCAGCCACCATCAGGAAATTC AAGATCAAGGCAAGTTC
ATTGCCCTCTTTATACTGTTGTACACCTAGTCTTAACCCCTAATCTACACCCCTCAGAAACAAAGTT
GTAAGAGGGGCAGTGAAGAGACTAATGGGGTGGGAATGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001005216  
**Insert Size:** 936 bp



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<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>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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>	<u><a href="#">NM_001005216.3</a></u>
<b>RefSeq Size:</b>	1075 bp
<b>RefSeq ORF:</b>	936 bp
<b>Locus ID:</b>	442186
<b>UniProt ID:</b>	<u><a href="#">O76001</a></u>
<b>Cytogenetics:</b>	6p22.1
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Olfactory transduction
<b>MW:</b>	35 kDa
<b>Gene Summary:</b>	This gene encodes a G-protein-coupled receptor (GPCR) that functions as an olfactory receptor. Olfactory receptors interact with odorant molecules in the nose to initiate a neuronal response that triggers the perception of a smell. The protein encoded by this gene responds to cis-3-hexen-1-ol, which is released by wounded plants, including cut grass. This gene is situated in a cluster of similar olfactory-receptor coding genes on chromosome 6. [provided by RefSeq, May 2013]