

Product datasheet for RC215580

OR2J3 (NM_001005216) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OR2J3 (NM_001005216) Human Tagged ORF Clone
Tag:	Myc-DDK
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)
ORF Nucleotide Sequence:	>RC215580 representing NM_001005216 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC

ATGAATGATGATGGAAAAGTCAATGCTAGCTCTGAGGGTACTTTATTTAGTTGGATTTTCTAATTGGCCTCATCTGGAAGTAGTTATCTTTGTGGTTGTCTTGATCTTCTACTTGATGACACTGATAGGAAACCTGTT CATCATCATCCTGTCATACCTGGACTCCCATCTGCACACACCAATGACTTCTTCTTTCAAACCTCTCA TTTCTGGATCTCTGCTACACCACCAGCTCTATCCCTCAGTTGCTGGTCAATCTCTGGGGCCCGAAAAGA CCATCTCTTATGCTGGTTGCATGATTCAACTTTACTTTGTCTCGCACTGGGAACCGCAGAGTGTGTCTCT ACTGGTGGTATGTCCTATGACCGTTATGCAGCTGTGTGTAGACCTTTGCATTACACTGTCTCATGCAC CCTCGTTTCTGCCACCTGCTGGCTGTGGCTTCTTGGGTAAGTGGTTTTACCAACTCAGCACTTCATTCTCTTTCACCTTCTGGGTACCTCTGTGTGGACACCGCAAGTAGATCACTTTTTCTGTGAAGTTCAGCACT TCTGCGATTATCGTGTGTGATACCCATGTCAATGAGCTGACCCTCATGATCACAAGCTCCATATTTGTT CTCATACCTCTCATCCTCATTCTCACTTCTTATGGTGCCATCGTCCAAGCTGACTGAGGATGCAGTCAA CCACTGGGCTTCAGAAAAGTGTGGAAACATGTGGAGCTCATCTTATGGCTGTATCTCTTTTTTCATTCC GGCCATGTGCATATATCTCCAGCCACCATCAGGAAATTTCTCAAGTCAAGGCAAGTTCATTGCCCTCTTT TATACTGTTGTACACCTAGTCTTAACCCTCTAATCTACACCCTCAGAAACAAAGTTGTAAGAGGGGCAG TGAAGAGACTAATGGGGTGGGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC215580 representing NM_001005216
Red=Cloning site Green=Tags(s)

MNDDGKVNASSEGYFILVGFSNWPHLEVVIFVVVLI FYLMTLIGNLFIIILSYLDSHLHTPMYFFLSNLS
 FLDLCYTTSSIPQLLVNLWGPEKTI SYAGCMIQLYFVLALGTAECVLLVMSYDRYA AVC RPLHYTVLMH
 PRFCHLLAVASWVSGFTNSALHSSFTFWVPLCGHRQVDHFFCEVPALLRLSCVDTHVNL TLMITSSIFV
 LIPLILILT SYGAI VQAVLRMQSTTGLQKVFGT CGAHLMAVSLFFIPAMCIYLQPPSGNSQDQGFIALF
 YTVVTPSLNPLIYTLRNKVVRGAVKRLMGWE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8003_d10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001005216

ORF Size: 933 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001005216.1](#), [NP_001005216.1](#)

RefSeq Size: 936 bp

RefSeq ORF: 936 bp

Locus ID: 442186

UniProt ID: [O76001](#)

Cytogenetics: 6p22.1

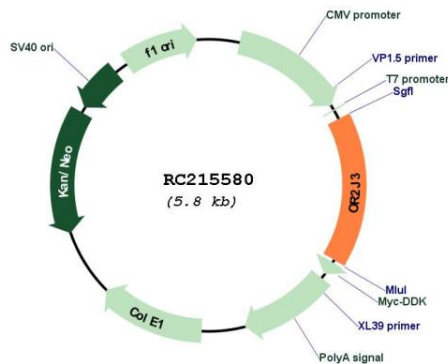
Protein Families: Transmembrane

Protein Pathways: Olfactory transduction

MW: 34.8 kDa

Gene Summary: 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]

Product images:



Circular map for RC215580