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Product datasheet for RG215580

OR2J3 (NM_001005216) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	OR2J3
Synonyms:	6M1-3; C3HEXS; HS6M1-3; OR6-6; OR6-16; OR6.3.6; ORL671
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG215580 representing NM_001005216
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAATGATGATGGAAAAGTCAATGCTAGCTCTGAGGGGTACTTTATTTTAGTTGGATTTTCTAATTGGC
CTCATCTGGAAGTAGTTATCTTTGTGGTTGTCTTGATCTTCTACTTGATGACACTGATAGGAAACCTGTT
CATCATCATCCTGTCATACCTGGACTCCCATCTGCACACACCAATGTACTTCTTCCTTTCAAACCTCTCA
TTTCTGGATCTCTGCTACACCACCAGCTCTATCCCTCAGTTGCTGGTCAATCTCTGGGGCCCGGAAAAGA
CCATCTCTTATGCTGGTTGCATGATTCAACTTTACTTTGTTCTCGCACTGGGAACCGCAGAGTGTGTCCT
ACTGGTGGTGATGTCCTATGACCGTTATGCAGCTGTGTGTAGACCTTTGCATTACACTGTCCTCATGCAC
CCTCGTTTCTGCCACCTGCTGGCTGTGGCTTCTTGGGTAAGTGGTTTTACCAACTCAGCACTTCATTCCT
CCTTCACCTTCTGGGTACCTCTGTGTGGACACCGCCAAGTAGATCACTTTTTCTGTGAAGTTCCAGCACT
TCTGCGATTATCGTGTGTTGATACCCATGTCAATGAGCTGACCCTCATGATCACAAGCTCCATATTTGTT
CTCATACCTCTCATCCTCATTCTCACTTCTTATGGTGCCATCGTCCAAGCTGTACTGAGGATGCAGTCAA
CCACTGGGCTTCAGAAAGTGTTTGGAACATGTGGAGCTCATCTTATGGCTGTATCTCTCTTTTTCATTCC
GGCCATGTGCATATATCTCCAGCCACCATCAGGAAATTCTCAAGATCAAGGCAAGTTCATTGCCCTCTTT
TATACTGTTGTCACACCTAGTCTTAACCCTCTAATCTACACCCTCAGAAACAAAGTTGTAAGAGGGGCAG
TGAAGAGACTAATGGGGTGGGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

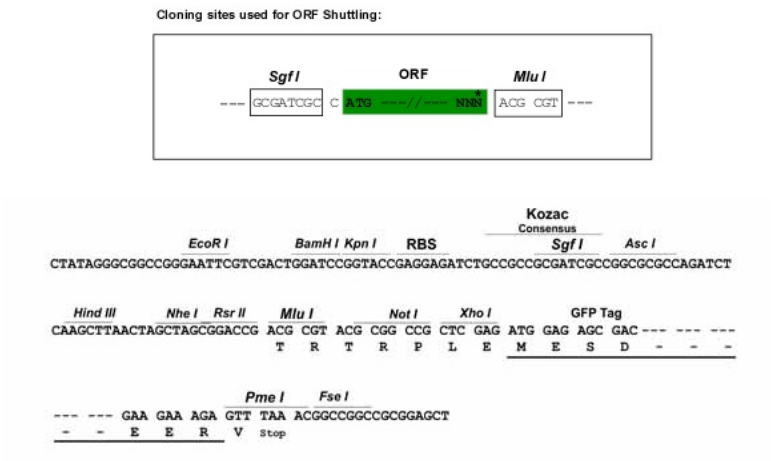
>RG215580 representing NM_001005216
Red=Cloning site Green=Tags(s)

MNDDGKVNASSEGYFILVGFSNWPHLEVVIFVVVLIFYLMTLIGNLFIIILSYLDSHLHTPMYFFLSNLS
FLDLCYTTSSIPQLLVNLWGPEKTISYAGCMIQLYFVLALGTAECVLLVVMSYDRYAAVCRPLHYTVLMH
PRFCHLLAVASWVSGFTNSALHSSFTFWVPLCGHRQVDHFFCEVPALLRLSCVDTHVNELTLMITSSIFV
LIPLILILTSYGAIVQAVLRMQSTTGLQKVFGTCGAHLMAVSLFFIPAMCIYLQPPSGNSQDQGKFIALF
YTVVTPSLNPLIYTLRNKVVRGAVKRLMGWE

TRTRPLE - GFP Tag - V

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_001005216.1, NP_001005216.1

RefSeq Size: 936 bp

RefSeq ORF: 936 bp

Locus ID: 442186

UniProt ID: O76001

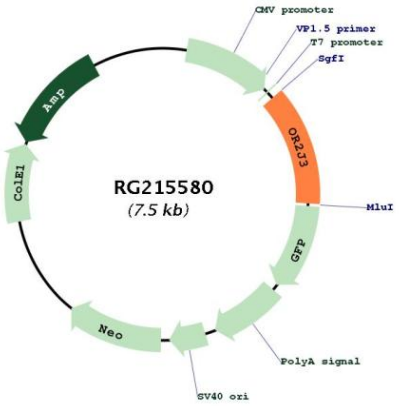
Cytogenetics: 6p22.1

Protein Families: Transmembrane

Protein Pathways: Olfactory transduction

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 RG215580