OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC220781

OR6Y1 (NM_001005189) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OR6Y1 (NM_001005189) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	OR6Y1
Synonyms:	OR1-11; OR6Y2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC220781 representing NM_001005189
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACCACCATAATTCTGGAAGTAGATAATCATACAGTGACAACACGTTTCATTCTTCTGGGGTTTCCAA
CACGACCAGCCTTCCAGCTTCTCTTTTTCTCCATTTTCCTGGCAACCTATCTGCTGACACTGCTGGAGAA
TCTTCTTATCATCTTAGCTATCCACAGTGATGGGCAGCTGCATAAGCCCATGTACTTCTTCTTGAGCCAC
CTCTCCTTCCTGGAGATGTGGTATGTCACAGTCATCAGCCCCAAGATGCTTGTTGACTTCCTCAGTCATG
ACAAGAGTATTTCCTTCAATGGCTGCATGACTCAACTTTACTTTTTTGTGACCTTTGTCTGCACTGAGTA
CATCCTTCTTGCTATCATGGCCTTTGACCGCTATGTAGCCATTTGTAATCCACTACGCTACCCAGTCATC
ATGACCAACCAGCTCTGTGGCACACTGGCTGGAGGATGCTGGTTCTGTGGACTCATGACTGCCATGATTA
AGATGGTTTTTATAGCACAACTTCACTACTGTGGCATGCCTCAGATCAATCACTACTTTTGTGATATCTC
TCCACTCCTTAACGTCTCCTGTGAGGATGCCTCACAGGCTGAGATGGTGGACTTCTTCTTGGCCCTCATG
GTCATTGCTATTCCTCTTTGTGTTGTGGTGGCATCCTACGCTGCTATCCTTGCCACCATCCTCAGGATCC
CTTCTGCTCAGGGCCGCCAAAAGGCATTCTCCACCTGTGCCTCCCACCTGACCGTCGTAATTCTCTTCTA
TTCCATGACACTTTTCACCTATGCCCGTCCCAAACTCATGTATGCCTACAATTCCAACAAAGTGGTATCT
GTTCTCTACACTGTCATTGTTCCACTCCTCAACCCCATCATTTACTGTCTGAGGAACCATGAAGTAAAGG
CAGCCCTCAGAAAGACCATACATTGCAGAGGAAGTGGGCCCCAGGGAAATGGGGCTTTCAGTAGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC220781 representing NM_001005189
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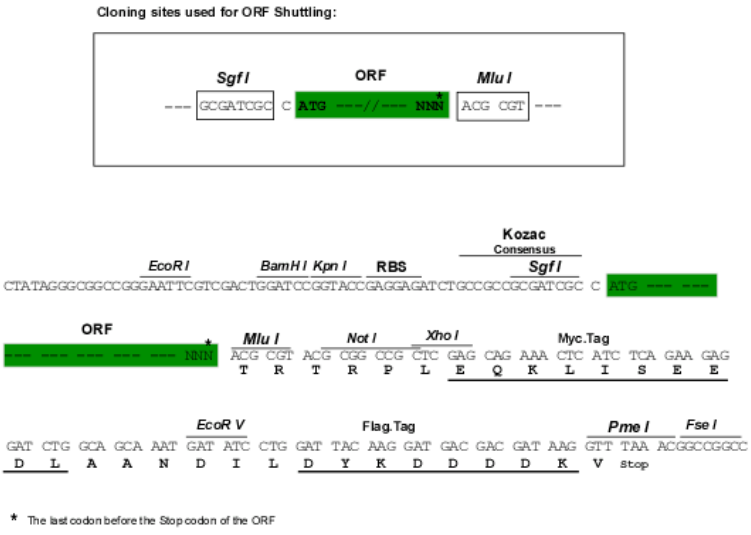
MTTIILEVDNHTVTTRFILLGFPTRPAFQLLFFSIFLATYLLTLLENLLIILAIHSDGQLHKPMYFFLSH
LSFLEMWYVTVISPKMLVDFLSHDKSISFNGCMTQLYFFVTFVCTEYILLAIMAFDRYVAICNPLRYPVI
MTNQLCGTLAGGCWFCGLMTAMIKMVFIAQLHYCGMPQINHYFCDISPLLNVSCEDASQAEMVDFFLALM
VIAIPLCVVVASYAAILATILRIPSAQGRQKAFSTCASHLTVVILFYSMTLFTYARPKLMYAYNSNKVVS
VLYTVIVPLLNPIIYCLRNHEVKAALRKTIHCRGSGPQGNGAFSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8003_c04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001005189

ORF Size: 975 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).

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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_001005189.1, NP_001005189.1
RefSeq Size:	978 bp
RefSeq ORF:	978 bp
Locus ID:	391112
UniProt ID:	Q8NGX8
Cytogenetics:	1q23.1
Protein Families:	Transmembrane
Protein Pathways:	Olfactory transduction
MW:	36.5 kDa
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]

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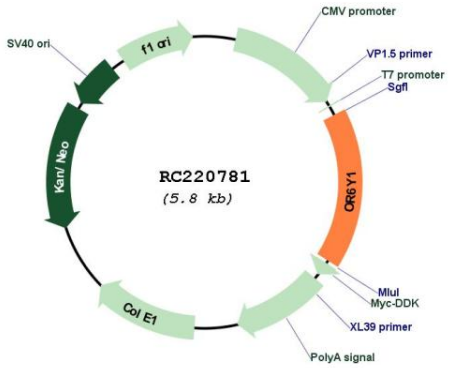
Product images:



Circular map for RC220781

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