

Product datasheet for **RG216791**

OR1C1 (NM_012353) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: OR1C1 (NM_012353) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: OR1C1
Synonyms: HSTPCR27; OR1-42; OR1.5.10; ORL211; TPCR27
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG216791 representing NM_012353
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGACAGAATATCATGAACACAAGATGTCATTGGAAAGCATTCAAGCAAGCAAGTTGGATGCTACT
TACCTGCGCACGCATGCACACACACACACACACACACACTGTCTCTCTCATGAATAAGAG
ACTTAACACTGCTGGCTTTACAATTTAATAACTTATTTTTCTAGATTTGTTGGGAATATGGAAAAAGA
AATCTAACAGTTGTCAGGAATTCGTCTTCTGGGACTTCTAGCTCAGCAGAGCAGCAGCACCTCTGT
CTGTGCTTTTCTGTATGTATTTAGCCACCACCTTGGGAACATGCTCATATTGCGACGATTGGCTT
TGACTCTCACCTCCATCCCTATGTACTTCTTCTTAGTAACTTGGCCTTTGTTGACATCTGCTTACG
TCGACTACAGTCCCCAATGGTAGTGAATATCTTGACTGGCACCAAGACTATCTTTTTGCAGGCTGCC
TCACCCAGCTCTTCTTCTCGTTTCTTTGTGAATATGGACAGCCTCTTCTGTGTGTGATGGCGTATGA
TAGATATGTGGGATTTGCCACCCTTACATTACACCGCCAGAATGAACCTGTGCCTTTGTGTCCAGCTA
GTGGCTGGACTGTGGCTTGTACTTACCTCCACGCCCTCTGCATACTGCCTAATAGCAGAGCTGTCT
TCTGTGCCTCCAATATCATCCATCATTTCTTCTGTGATCTCAATCCTCTCCTGCAGCTCTTTGTCTGA
CGTCTCCTTCAATGTAATGATCATTTTTGCAGTAGGAGGTCTATTGGCTCTCACGCCCTTGTCTGTATC
CTCGTATCTTATGGACTTATCTTCTCCACTGTTCTGAAGATCACCTCTACTCAGGGAAGCAGAGAGCTG
TTTCCACCTGCAGCTGCCACCTGTCAGTGGTGGTGTGTTTTACGGCACAGCCATCGCCGTCTATTTACG
CCCTTCATCCCCCATATGCCTGAGAGCGACACTCTGTCAACCATCATGTATTCAATGGTGGCTCCGATG
CTGAATCCTTTTCTATACCCTAAGGAACAGGGATATGAAGAGGGGACTTCAGAAAATGCTTCTCAAGT
GCACAGTCTTTCAGCAGCAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG216791 representing NM_012353
Red=Cloning site Green=Tags(s)

MKTEYHEHKMSLESIQASKFGCYLPAHACTHTHTHTHCLSLMNKRLNTAGFYNLITYFSRFVGNMEKR
 NLTVVREFVLLGLPSSAEQHLLSVLFCLMYLATTGMLIIATIGFDSLHSPMYFLLSNLAFVDICFT
 STTVPQMVVNILTGTKTI SFAGCLTQLFFVSVFNMDLCLLCVMAYDRYVAICHPLHYTARMNLCLCVQL
 VAGLWLVTYLHALLHTVLI AQLSFCASNI IHHFFCDLNP LLQLSCSDVSVNMIIFAVGGLLAL TPLVCI
 LVSYGLIFSTVLKITSTQ GKQRAVSTCSCHLSVVVLFYGT AIAVYFSPSSPHMPESDTLSTIMYSMVAPM
 LNPF IYTLRNRDMKRGLQKMLLKCTVFQQQ

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja3421_e04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_012353

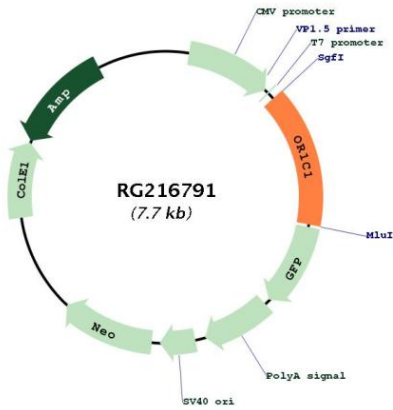
ORF Size: 1140 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:	<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_012353.1 , NP_036485.1
RefSeq Size:	945 bp
RefSeq ORF:	945 bp
Locus ID:	26188
UniProt ID:	Q15619
Cytogenetics:	1q44
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]

Product images:



Circular map for RG216791