

Product datasheet for **RG222791**

OR2T2 (NM_001004136) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OR2T2 (NM_001004136) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	OR2T2
Synonyms:	OR1-43; OR2T2P
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG222791 representing NM_001004136 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCATGGAGGGTCTTCTCCAGAACTCCACTAACTTCGTCCTCACAGGCCTCATCACCCATCCTGCCT
TCCCCGGGCTTCTTTGCAATAGTCTTCTCCATCTTTGTGGTGGCTATAACAGCCAACCTGGTCATGAT
TCTGCTCATCCACATGGACTCCCGCTCCACACCCATGTAATCTTGTCTCAGCCAGCTCTCCATCATG
GATACCATCTACATCTGTATCACTGTCCCAAGATGCTCCAGGACCTCCTGTCCAAGGACAAGACCATT
CCTTCCTGGGCTGTGCAGTTCAGATCTTCTCTACCTGACCCTGATTGGAGGGGAATTCTTCTCTGCTGGG
TCTCATGGCCTATGACCGCTATGTGGCTGTGTGCAACCCCTACGGTACCCTCTCCTCATGAACCGCAGG
GTTTGCTTATTATGGTGGTCCGGCTCCTGGGTTGGTGGTTCCTTGGATGGGTTTCATGCTGACTCCTGTCA
CTATGAGTTTCCCCTTCTGTAGATCCCAGAGATCAATCACTTTTCTGTGAGATCCCAGCCGTGCTGAA
GTTGTCTTGCACAGACACGTCACCTATGAGACCCTGATGTATGCCTGCTGCGTGTGCTGCTGCTTATC
CCTCTATCTGTCTCTGTCTCCTACACGCACATCCTCCTGACTGTCCACAGGATGAACTCTGCTGAGG
GCCGGCGCAAAGCCTTTGCTACGTGTTCTCCACATTATGGTGGTGAGCGTTTTCTACGGGCGAGCCTT
CTACACCAACGTGCTGCCCCACTCCTACCACACTCCAGAGAAAGATAAAGTGGTGTCTGCCTTCTACACC
ATCCTCACCCCATGCTCAACCCACTCATCTACAGCTTGAGGAATAAAGATGTGGCTGCAGCTCTGAGGA
AAGTACTAGGGAGATGTGGTTCTCCAGAGCATCAGGGTGCCGACTGTGATCAGGAAGGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG222791 representing NM_001004136
 Red=Cloning site Green=Tags(s)

MGMEGLLQNSTNFVLTGLITHPAFPGLLFAIVFSIFVVAITANLVMILLIHMSRLHTPMYFLLSQLSIM
 DTIYICITVPKMLQDLLSKDKTISFLGCAVQIFLYLTLIGGEFLLGLMAYDRYVAVCNPLRYPLLMNRR
 VCLFMVVGSWVGGSLDGFMLTPVTMSFPFCRSREINHFFCEIPAVLKLSDTDSL YETLMYACCVLMLLI
 PLSVISVSYTHILLTVHRMNSAEGRRKAFATCSSHIMVVSVFYGAAFYTNVLPHSYHTPEKDKVVSIFYT
 ILTPMLNPLIYSLRNKDVAALRKVLGRGSSQSIRVATVIRKG

TRTRPLE - GFP Tag - V

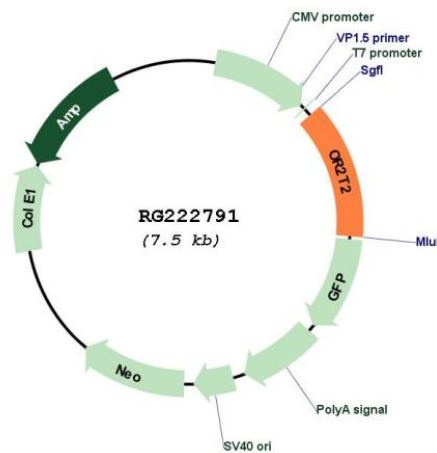
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001004136

ORF Size: 972 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:	<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_001004136.1 , NP_001004136.1
RefSeq Size:	975 bp
RefSeq ORF:	975 bp
Locus ID:	401992
UniProt ID:	Q6IF00
Cytogenetics:	1q44
Protein Families:	Transmembrane
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]