

Product datasheet for **RG222169**

OR2T5 (NM_001004697) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: OR2T5 (NM_001004697) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: OR2T5
Synonyms: OR1-62
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG222169 representing NM_001004697
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCAACATCACCAGGATGGCCAACCACACTGGAAAGTTGGATTTTCATCCTCATGGGACTCTTCAGAC
 GATCCAAACATCCAGCTCTACTTAGTGTGGTCATCTTTGTGGTTTTCTGAAGGCGTTGTCTGGAAATGC
 TGTCTGATCCTTCTGATACACTGTGACGCCACCTCCACAGCCCATGTACTTTTTTCATCAGTCAATTG
 TCTCTCATGGACATGGCGTACATTTCTGTCACTGTGCCAAGATGCTCCTGGACCAGGTCATGGGTGTGA
 ATAAGGTCTCAGCCCCTGAGTGTGGGATGCAGATGTTCCCTCTATCTGACACTAGCAGGTTCCGAATTTTT
 CCTTCTAGCCACCATGGCCTATGACCGCTACGTGGCCATCTGCCATCCTCTCCGTTACCCGTCTCCTCATG
 AACCATAGGGTCTGTCTTTTCTGGCATCGGGCTGCTGGTTTCTGGGCTCAGTGGATGGCTTCATGCTCA
 CTCCCATCACCATGAGCTTCCCCTTCTGCAGATCCTGGGAGATTCATCATTTCTTCTGTGAAGTCCCTGC
 TGTAACGATCCTGTCTGCTCAGACACCTCACTCTATGAGACCCTCATGTACCTATGCTGTGTCCTCATG
 CTCCTCATCCCTGTGACGATCATTTCAAGCTCCTATTTACTCATCCTCCTCACCGTCCACAGGATGAACT
 CAGCAGAGGGCCGAAAAAGGCCTTTGCCACCTGCTCCTCCACCTGACTGTGGTCATCCTCTTCTATGG
 GGCTGCCGTCTACACCTACATGCTCCCCAGCTCCTACCACACCCCTGAGAAGGACATGATGGTATCTGTC
 TTCTATACCATCCTCACTCCGGTCTGAACCCTTAATCTATAGTCTTAGGAATAAGGATGTCATGGGGG
 CTCTGAAGAAAATGTAACTGTGAGATTCTGCTCTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG222169 representing NM_001004697
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MANITRMANHTGKLDFILMGLFRRSKHPALLSVVIFVVFVKALSGNAVLILLIHCD AHLHSPMYFFISQL
 SLMDMAYISVTVPKMLLDQVMGVNKVSAPECGMQMFLYLTLAGSEFFLLATMAYDRYVAICHPLRYPVLM
 NHRVCLFLASGCWFLGSVDGFMLTPITMSFPFCRSWEIHFFCEVPAVTILSCSDTSLYETLMYLCCVLM
 LLIPVTIISSSYLLILLTVHRMNSAEGRKKAFATCSSHLTVVILFYGAAVYTYMLPSSYHTPEKDMMSV
 FYTILTPVLNPLIYSLRNKDVGMALKKMLTVRFVL

TRTRPLE - GFP Tag - V

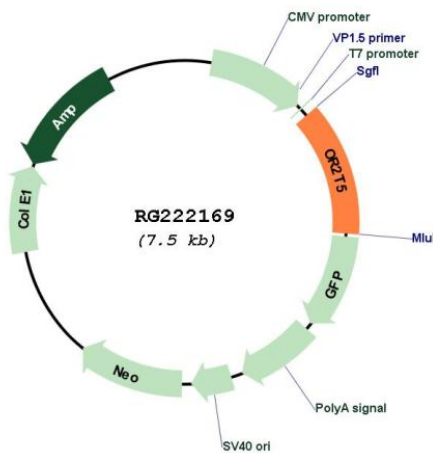
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001004697

ORF Size: 945 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_001004697.2
RefSeq Size:	948 bp
RefSeq ORF:	948 bp
Locus ID:	401993
UniProt ID:	Q6IEZ7
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]