

Product datasheet for **RG224672**

OR4M2 (NM_001004719) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OR4M2 (NM_001004719) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	OR4M2
Synonyms:	OR15-3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG224672 representing NM_001004719 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAACTGCAAATTACACCAAGGTGACAGAATTTGTTCTCACTGGCCTATCCCAGACTCCAGAGGTCC
AACTAGTCCTATTTGTTATATTTCTATCCTTCTATTTGTTTCATCCTACCAGGAAATATCCTTATCATTG
CACCATCAGTCTAGACCCTCATCTGACCTCTCCTATGTATTTCTGTTGGCTAATCTGGCCTTCCTTGAT
ATTTGGTACTCTCCATTACAGCCCTGAAATGCTCATAGACTTCTTTGGGAGAGGAAGATAATTTCTT
TTGATGGATGCATTGCACAGCTTCTTCTTACACTTTGCTGGGGCTTCGGAGATGTTCTTGCTCACAGT
GATGGCCTTTGACCTCTACACTGCTATCTGCCGACCCCTCCACTATGCTACCATCATGAATCAACGTCTC
TGCTGTATCCTGGTGGCTCTCTCCTGGAGGGGGGCTTCATTCTATCATAACAGGTGGCTCTCATTG
TTCGACTTCTTTCTGTGGGCCAATGAGTTAGACAGTTACTTCTGTGACATCACACAGGTTGTCCGGAT
TGCCTGTGCCAACACCTTCCCAGAGGAGTTAGTGATGATCTGTAGTAGTGGTCTGATCTCTGTGGTGTGT
TTGATTGCTCTGTTAATGCCTATGCCTTCCTTCTGGCCTTGCTCAAGAACTTTCAAGGCTCAGGTGAGA
ATACCAACAGGGCCATGTCCACCTGCTATCCCACATTACCATTGGTGTCTAATGTTGGGCCATCCAT
CTACATTTATGCTCGCCATTTGACTCGTTTTCCCTAGATAAAGTGGTGTCTGTGTTCAATACTTTAATA
TTCCCTTACGTAATCCCATTATTTACACATTGAGAAACAAGGAAGTAAAGGCAGCCATGAGGAAGTTGG
TCACCAATATATTTTGTGTAAGAGAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG224672 representing NM_001004719
 Red=Cloning site Green=Tags(s)

METANYTKVTEFVLTGLSQTPEVQLVLFVIFLSFYLFILPGNILICTISLDPHLTSPMYFLLANLAFLD
 IWYSSITAPEMLIDFFVERKIIISFDGCIQFLFLHFAGASEMFLLTVMAFDLYTAICRPLHYATIMNQR
 CCILVALSWRGGFIHSIIQVALIVRLPFCGPNELDSYFCDITQVVRIACANTFPEELVMICSSGLISVVC
 LIALLMSYAFLLALLKKLSGSGENTNRAMSTCYSHITIVVLMFGPSIYIYARPFDSFSLDKVVSFNTLI
 FPLRNPIIYTLRNKEVKAAMRKLVTKYILCKEK

TRTRPLE - GFP Tag - V

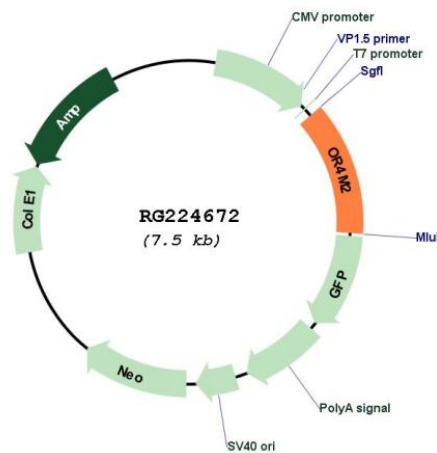
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001004719

ORF Size: 939 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_001004719.1 , NP_001004719.1
RefSeq Size:	942 bp
RefSeq ORF:	942 bp
Locus ID:	390538
UniProt ID:	Q8NGB6
Cytogenetics:	15q11.2
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]