

Product datasheet for **RG224914**

TAS2R1 (NM_019599) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: TAS2R1 (NM_019599) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: TAS2R1
Synonyms: T2R1; TRB7
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG224914 representing NM_019599
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTAGAGTCTCACCTCATTATCTATTTTCTTCTTGCAAGTACAATTTCTTCTGGGATTTTCACAA
 ATGGCATCATTGTGGTGGTGAATGGCATTGACTTGATCAAGCACAGAAAATGGCTCCGCTGGATCTCCT
 TCTTTCTGTCTGGCAGTTTCTAGAATTTTCTGCAGTTGTTTCATCTTCTACGTTAATGTGATTGTTATC
 TTCTTCATAGAATTCATCATGTGTTCTGCGAATTGTGCAATTCCTTATTTATAAATGAATTGGAACTTT
 GGCTTGCCACATGGCTCGGCGTTTTCTATTGTGCCAAGGTTGCCAGCGTCCGTCACCCACTCTTCATCTG
 GTGAAGATGAGGATATCCAAGCTGGTCCCATGGATGATCCTGGGGTCTCTGCTATATGTATCTATGATT
 TGTGTTTTCCATAGCAAATATGCAGGGTTATGGTCCCATACTTCTTAAGGAAATTTTTCTCCAAAATG
 CCACAATCAAAAAGAAGATACACTGGCTATACAGATTTTCTCTTTTGTGCTGAGTTCTCAGTGCCATT
 GCTTATCTTCTTTTGTGTTTGTCTTGTATTTCTCTCTGGGGAGGCACACCCGGCAAATGAGAAAC
 ACAGTGGCCGGCAGCAGGGTTCTGGCAGGGGTGCACCCATCAGCGCGTTGCTGTCTATCCTGTCTTCC
 TGATCCTCTACTTCTCCCACTGCATGATAAAAGTTTTTCTCTCTCTAAAGTTTACATCAGAAGGTT
 CATCTTTCTGTTCTTCTCCTTGTGATTGGTATATACCCTTCTGGACACTCTCTCATCTTAATTTTAGGA
 AATCCTAAATTGAAACAAAATGCAAAAAGTTCTCTCCACAGTAAGTGCTGTCCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >RG224914 representing NM_019599
 Red=Cloning site Green=Tags(s)

MLESHLIYFLLAVIQFLLGIFTNGIIVVNGIDLKHKRMAPL DLLSCLAVSRIFLQLFIFYVNVIVI
 FFIEFIMCSANCAILLFINELELWLATWLGVFYCAKVASVRHPLFIWLKMRISKLPWMILGSLLYVSMI
 CVFHSKYAGFMVPYFLRKFSSQNATI QKEDTLAIQIFSFVAEFSVPLLI FLFAVLLLI FSLGRHTRQMRN
 TVAGSRVPRGAPISALLSILSFLILYFSHCMIKVFLSSLK FHIRRFIFLFFILVIGIYPSGHSLILILG
 NPKLKQNAKKFLLHSKCCQ

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_019599

ORF Size: 897 bp

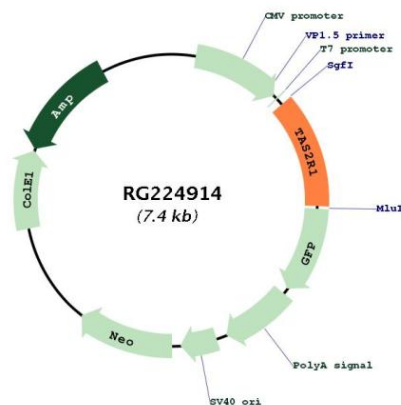
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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_019599.3
RefSeq Size:	1355 bp
RefSeq ORF:	900 bp
Locus ID:	50834
UniProt ID:	Q9NYW7
Cytogenetics:	5p15.31
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Taste transduction
Gene Summary:	This gene encodes a member of a family of candidate taste receptors that are members of the G protein-coupled receptor superfamily and that are specifically expressed by taste receptor cells of the tongue and palate epithelia. This intronless taste receptor gene encodes a 7-transmembrane receptor protein, functioning as a bitter taste receptor. This gene is mapped to chromosome 5p15, the location of a genetic locus (PROP) that controls the detection of the bitter compound 6-n-propyl-2-thiouracil. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG224914