

## Product datasheet for **RG218991**

### TAS2R10 (NM\_023921) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TAS2R10 (NM_023921) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TAS2R10
Synonyms:	T2R10; TRB2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG218991 representing NM_023921 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTACGTGTAGTGAAGGCATCTTCATTTTTGTTGTAGTTAGTGAGTCAGTGTGGGGTTTTGGGA  
ATGGATTTATTGGACTTGTAACTGCATTGACTGTGCCAAGAATAAGTTATCTACGATTGGCTTTATTCT  
CACCGCTTAGCTATTTCAAGAATTTTCTGATATGGATAATAATTACAGATGGATTTATACAGATATTC  
TCTCCAAATATATATGCCTCCGGTAACCTAATTGAATATATTAGTACTTTGGTAATTGGTAATCAAT  
CAAGTATGTGGTTGCCACCAGCCTCAGCATCTTCTATTTCTGAAGATAGCAAATTTTCCAACACTACAT  
ATTTCTCTGGTTGAAGAGCAGAACAATATGGTTCTCCCTTCATGATAGTATTCTTACTTATTTTCATCG  
TTACTTAATTTTGCATACATTGCGAAGATTCTTAATGATTATAAAAACGAAGAATGACACAGTCTGGGATC  
TCAACATGTATAAAAAGTGAATACTTTATTAACAGATTTTGTAAATCTGGGAGTCATTTTCTTCTTTAC  
ACTATCCCTAATTACATGTATTTTTTAATCATTTCCCTTTGGAGACACAACAGGCAGATGCAATCGAAT  
GTGACAGGATTGAGAGACTCCAACACAGAAGCTCATGTGAAGGCAATGAAAGTTTGTATCTTTTCATCA  
TCCTCTTATCTGTATTTATAGGCATGGCCATAGAAATATCATGTTTTACTGTGCGAGAAAACAACT  
GCTGCTTATGTTTGAATGACAACCACAGCCATCTATCCCTGGGGTCACTCATTTATCTTAATTCTAGGA  
AACAGCAAGCTAAAGCAAGCCTTTGAGGGTACTGCAGCAATTGAAGTGTGTGAGAAAAGGAAAAATC  
TCAGAGTCACA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG218991 representing NM\_023921  
 Red=Cloning site Green=Tags(s)

MLRVVEGIFIFVVVSESVFGVLGNGFIGLVNCIDCAKNKLSTIGFILTGLAISRIFLIWIIITDGFIQIF  
 SPNIYASGNLIEYISYFWVIGNQSSMWFATSLSIFYFLKIANFNSNYIFLWLKSRNTMVLPMIVFLLISS  
 LLNFAYIAKILNDYKTKNDTVWDLNMYKSEYFIKQILLNLGVIFFFTLSLITCIFIILIIISLWRHNRQMOSN  
 VTGLRDSNTEAHVKAMKVLISFIIILFIFYFIGMAIEISCFVRENKLLLMFGMTTIAIYPWGHFSFILILG  
 NSKLLKQASLRVLQQLKCCCKRKNLRVT

TRTRPLE - GFP Tag - V

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja2803\\_h03.zip](https://cdn.origene.com/chromatograms/ja2803_h03.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**ACCN:** NM\_023921

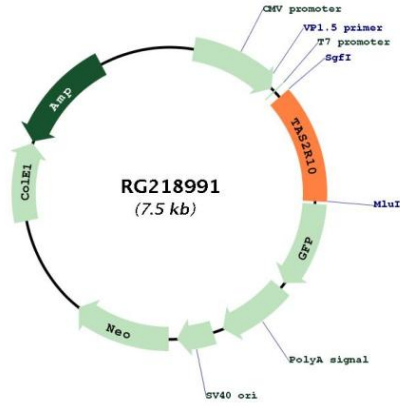
**ORF Size:** 921 bp

**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](mailto: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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_023921.1</a></u> , <u><a href="#">NP_076410.1</a></u>
<b>RefSeq Size:</b>	924 bp
<b>RefSeq ORF:</b>	924 bp
<b>Locus ID:</b>	50839
<b>UniProt ID:</b>	<u><a href="#">Q9NYW0</a></u>
<b>Cytogenetics:</b>	12p13.2
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Taste transduction
<b>Gene Summary:</b>	This gene product belongs to the family of candidate taste receptors that are members of the G-protein-coupled receptor superfamily. These proteins are specifically expressed in the taste receptor cells of the tongue and palate epithelia. They are organized in the genome in clusters and are genetically linked to loci that influence bitter perception in mice and humans. In functional expression studies, they respond to bitter tastants. This gene maps to the taste receptor gene cluster on chromosome 12p13. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG218991