

## Product datasheet for **SC307084**

### T2R50 (TAS2R50) (NM\_176890) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	T2R50 (TAS2R50) (NM_176890) Human Untagged Clone
Tag:	Tag Free
Symbol:	TAS2R50
Synonyms:	T2R50; T2R51; TAS2R51
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC307084 representing NM_176890. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGATAACTTTTCTATACATTTTTTTTTTCAATTCTAATAATGGTTTTATTTGTTCTCGGAACTTTGCC
AATGGCTTCATAGCACTGGTAAATTTTCATTGACTGGGTGAAGAGAAAAAAGATCTCCTCAGCTGACCAA
ATTCTCACTGCTCTGGCGGTCTCCAGAATTGGTTTGTCTGGGCATTATTATAAATTGGTATTTAACT
GTGTTGAATCCAGCTTTTTATAGTGTAGAATTAAGAATTACTTCTATAATGCCTGGGTTGTAACCAAC
CATTTCCAGCATGTGGCTTGCTGCTAACCTCAGCATATTTATTTGCTCAAGATTGCCAATTTCTCCAAC
CTTCTTTTTCTTCATTTAAAGAGGAGAGTTAGGAGTGTCATTCTGGTGATACTGTTGGGGACTTTGATA
TTTTTGGTTTGTCACTTCTTGTGGCAAACATGGATGAGAGTATGTGGCAGAAGAATATGAAGGAAAC
ATGACTGGGAAGATGAAATTGAGGAATACAGTACATCTTTCATATTTGACTGTAACCTACCCTATGGAGC
TTCATACCCTTTACTCTGTCCCTGATATCTTTTCTGATGCTAATCTGTTCTCTGTGTAACATCTCAAG
AAGATGCAGCTCCATGGAGAAGGATCGCAAGATCTCAGCACCAAGGTCCACATAAAAGCTTTGCAAAC
CTGATCTCCTTCTCTTGTATGTGCCATTTCTTTCTATTCTAATCGTTTCGGTTTGGAGTCTAGG
AGGCTGCGGAATGACCCGTTGTATGGTTAGCAAGGCTGTTGGAACATATATCTTGCATTTCGACTCA
TTTCATCTAATTTGGAGAACCAAGAAGCTAAAACACACCTTTCTTTTGATTTTGTGTGAGATTAGGTGC
TGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGCCCGGC
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Restriction Sites:	Sgfl-MluI
Plasmid Map:	<input type="checkbox"/>
ACCN:	NM_176890



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<b>Insert Size:</b>	900 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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>	<a href="#">NM_176890.2</a>
<b>RefSeq Size:</b>	1000 bp
<b>RefSeq ORF:</b>	900 bp
<b>Locus ID:</b>	259296
<b>UniProt ID:</b>	<a href="#">P59544</a>
<b>Cytogenetics:</b>	12p13.2
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Taste transduction
<b>MW:</b>	34.6 kDa
<b>Gene Summary:</b>	TAS2R50 belongs to the large TAS2R receptor family. TAS2Rs are expressed on the surface of taste receptor cells and mediate the perception of bitterness through a G protein-coupled second messenger pathway (Conte et al., 2002 [PubMed 12584440]). See also TAS2R10 (MIM 604791).[supplied by OMIM, Mar 2008]