

## Product datasheet for **RG211325**

### **T2R50 (TAS2R50) (NM\_176890) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** T2R50 (TAS2R50) (NM\_176890) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** T2R50  
**Synonyms:** T2R50; T2R51; TAS2R51  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG211325 representing NM\_176890  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGATAACTTTTCTATACATTTTTTTTTCAATTCTAATAATGGTTTTATTTGTTCTCGGAACTTTGCCA  
 ATGGCTTCATAGCACTGGTAAATTTTCATTGACTGGGTGAAGAGAAAAAGATCTCCTCAGCTGACCAAA  
 TCTCACTGCTCTGGCGGTCTCCAGAATTGGTTGCTCTGGGCATTATTATTAATTTGGTATTTAACTGTG  
 TTGAATCCAGCTTTTTATAGTGTAGAATTAAGAATTACTTCTTATAATGCCTGGGTGTAACCAACCATT  
 TCAGCATGTGGCTTGCTGCTAACCTCAGCATATTTATTTGCTCAAGATTGCCAATTTCTCCAACCTTCT  
 TTTTCTTCATTTAAAGAGGAGAGTTAGGAGTGTCATTCTGGTGACTGTTGGGGACTTTGATATTTTTG  
 GTTTGTCACTTCTTGTGGCAAACATGGATGAGAGTATGTGGGCAGAAGAATATGAAGGAAACATGACTG  
 GGAAGATGAAATTGAGGAATACAGTACATCTTTTCATATTTGACTGTAACCTACCCTATGGAGCTTCATACC  
 CTTTACTCTGTCCCTGATATCTTTTCTGATGCTAATCTGTTCTCTGTGTAACATCTCAAGAAGATGCAG  
 CTCCATGGAGAAGGATCGCAAGATCTCAGCACCAAGGTCCACATAAAAGCTTTGCAAACCTGATCTCCT  
 TCCTCTTGTTATGTGCCATTTTCTTTCTATTCTAATCGTTTCGGTTTGGAGTCCTAGGAGGCTGCGGAA  
 TGACCCGGTTGTCATGGTTAGCAAGGCTGTTGAAACATATATCTTGCATTGACTCATTATCTAAT  
 TGGAGAACCAAGAAGCTAAAACACACCTTCTTTTGATTTTGTGTCAGATTAGGTGC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Reconstitution Method:**

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\\_176890.2](#), [NP\\_795371.2](#)

**RefSeq Size:** 900 bp

**RefSeq ORF:** 900 bp

**Locus ID:** 259296

**UniProt ID:** [P59544](#)

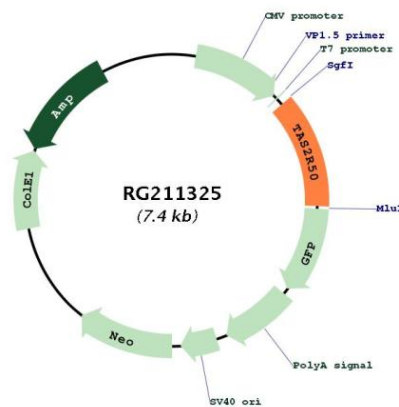
**Cytogenetics:** 12p13.2

**Protein Families:** Transmembrane

**Protein Pathways:** Taste transduction

**Gene Summary:** 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]

## Product images:



Circular map for RG211325