

## Product datasheet for **RG220188**

### TAS2R5 (NM\_018980) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TAS2R5 (NM_018980) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TAS2R5
Synonyms:	T2R5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG220188 representing NM_018980 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTGAGCGCTGGCCTAGGACTGCTGATGCTGGTGGCAGTGGTTGAATTTCTCATCGGTTTAATTGGAA  
ATGGAAGCCTGGTGGTCTGGAGTTTTAGAGAATGGATCAGAAAATCAACTGGTCTCATATAACCTCAT  
TATCCTGGGCTGGCTGGCTGCCGATTTCTCTGCAGTGGCTGATCATTGGACTTAAGCTTGTTCCA  
CTTTCCAGAGCAGCCGTTGGCTTCGCTATCTTAGTATCTCTGGGCTCGGTAAGCCAGGCCAGCTTAT  
GGTTTGCCACCTTCCTCAGTGTCTTCTATTGCAAGAAGATCACGACCTTCGATCGCCCGCCTACTTGTG  
GCTGAAGCAGAGGGCCTATAACCTGAGTCTCTGGTGCCTCTGGGCTACTTTATAATCAATTTGTTACTT  
ACAGTCCAAATTGGCTTAACATTCTATCATCTCCCAAGGAAACAGCAGCATTCCGTATCCCTTTGAAA  
GCTGGCAGTACCTGTATGCATTTCACTCAATTCAGGAAGTATTTGCCTTTAGTGGTGTCTTCTGTTTC  
CTCTGGGATGCTGATTGTCTCTTTGTATACACACCACAAGAAGATGAAGGTCCATTCAGCTGGTAGGAGG  
GATGTCCGGGCAAGGCTCACATCACTGCGCTGAAGTCTTGGGCTGCTTCTCTACTTCACCTGGTTT  
ATATCATGGCCAGCCCTTCTCCATCACCTCCAAGACTTATCCTCCTGATCTCACCAGTGTCTTCATCTG  
GGAGACTCATGGCAGCCTATCCTTCTCTTATTCTCTCATATTGATCATGGGATTCCTAGGGTGAAG  
CAGACTTGTGAGAAGATCCTGTGGAAGGCAGTGTGTCTCGGAGATGCTGGGGCCA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



**Protein Sequence:** >RG220188 representing NM\_018980  
Red=Cloning site Green=Tags(s)

MLSAGLGLMLVAVVEFLIGLIGNGSLVVSFWFREWIRKFNWSSYNLIILGLAGCRFLQWLIILDLSLFP  
 LFQSSRWLRYLSIFWVLVSQASLWFATFLSVFYCKKITTDFDRPAYLWLKQRAYNLSLWCLLGYFIIINLLL  
 TVQIGLTFYHPPQGNSSIRYPFESWQYL YAFQLNSGSYLPLVVFLVSSGMLIVSLYTHHKMKVHSAGRR  
 DVRAKAHITALKSLGCFLLHLVYIMASPFISITSKTYPPDLTSVFIWETLMAAYPSLHSLILIMGIPRVK  
 QTCQKILWKAVCARRCWGP

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_018980

**ORF Size:** 897 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:**

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\\_018980.2](#), [NP\\_061853.1](#)

**RefSeq Size:** 1150 bp

**RefSeq ORF:** 900 bp

**Locus ID:** 54429

**UniProt ID:** [Q9NYW4](#)

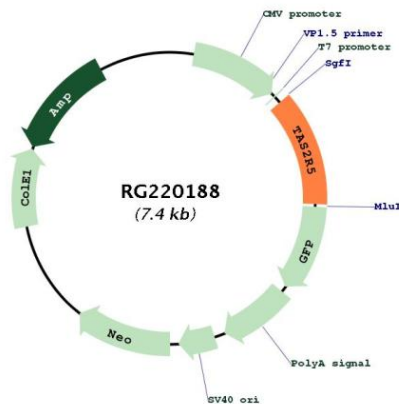
**Cytogenetics:** 7q34

**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** Taste transduction

**Gene Summary:** This gene encodes a bitter taste receptor; bitter taste receptors are members of the G protein-coupled receptor superfamily and are specifically expressed by taste receptor cells of the tongue and palate epithelia. Each of these apparently intronless taste receptor genes encodes a 7-transmembrane receptor protein, functioning as a bitter taste receptor. This gene is clustered with another 3 candidate taste receptor genes on chromosome 7 and is genetically linked to loci that influence bitter perception. [provided by RefSeq, Jul 2008]

### Product images:



Circular map for RG220188