

Product datasheet for **RG211027**

TAS2R48 (TAS2R19) (NM_176888) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TAS2R48 (TAS2R19) (NM_176888) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TAS2R48
Synonyms:	MSTP058; T2R19; T2R23; T2R48; TAS2R23; TAS2R48
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG211027 representing NM_176888 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGATGTGTTTTCTGCTCATCTTTATCAATTCTGGTAGTGTTGCATTTGTTCTTGAAATGTTGCCA
 ATGGCTTCATAGCCCTAGTAAATGTCATTGACTGGGTTAACACACGAAAGATCTCCTCAGCTGAGCAAAT
 TCTCACTGCTCTGGTGGTCTCCAGAATTGGTTTACTCTGGGTCATGTTATTCCTTTGGTATGCAACTGTG
 TTTAATTCTGCTTTATATGGTTTAGAAGTAAGAATTGTTGCTTCTAATGCCTGGGCTGTAAACGAACATT
 TCAGCATGTGGCTTGCTGCTAGCCTCAGCATATTTGTTTGTCTCAAGATTGCCAATTTCTCCAACCTTAT
 TTCTCTCCACCTAAAGAAGAGAATTAAGAGTGTTGTTCTGGTGATACTGTTGGGGCCTTGTTATTTCTG
 ATTTGTAATCTTGCTGTGATAACCATGGATGAGAGAGTGTGGACAAAAGAATATGAAGGAAATGTGACTT
 GGAAGATCAAATTGAGGAATGAATACACCTTTCAAGCTTGACTGTAACACTCTAGCAAACCTCATACC
 CTTTACTCTGAGCCTAATATGTTTTCTGCTGTTAATCTGTTCTCTTTGTAACATCTCAAGAAGATGCGG
 CTCCATAGCAAAGGATCTCAAGATCCCAGCACCAAGGTCCATATAAAGCTTTGCAAACCTGTGACCTCCT
 TCCTCATGTTATTTGCCATTTACTTTCTGTGTATAATCACATCAACTTGAATCTTAGGACACAGCAGAG
 CAAACTTGTAATCTGCTTTGCCAACTGTTGCAATCATGTATCCTTCATTCCACTATTCATCTGATT
 ATGGGAAGTAGGAAGCTAAACAGACCTTCTTTCAGTTTGTGGCAGATGACACGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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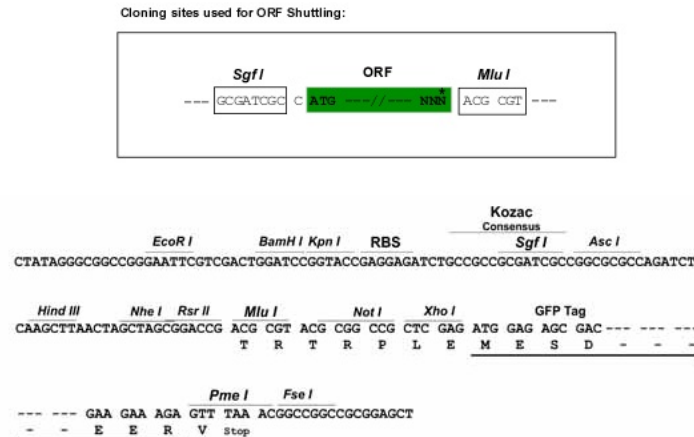
Protein Sequence: >RG211027 representing NM_176888
 Red=Cloning site Green=Tags(s)

MMCFLLISSILVVFVAFVLGNVANGFIALVNVIDWVNTKRISAEQILTALVVSRIGLLWVMLFLWYATV
 FNSALYGLEVRIVASNAWAVTNHFSMWLAASLSIFCLLKIANFSNLISLHLKKRIKSVVLVILLGPLVFL
 ICNLAVITMDERVWTKEYEGNVTKIKLRNAIHLSSLTVTTLANLIPFTLSLICFLLIICSLCKHLKKMR
 LHSKGSQDPSTKVHIKALQTVTSFLMLFAIYFLCIITSTWNLRTQQSKLVLLLCQTVAIMYPSFHSFILI
 MGSRKLKQTFLSVLWQMTR

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_176888

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_176888.2](#), [NP_795369.1](#)

RefSeq Size: 900 bp

RefSeq ORF: 900 bp

Locus ID: 259294

UniProt ID: [P59542](#)

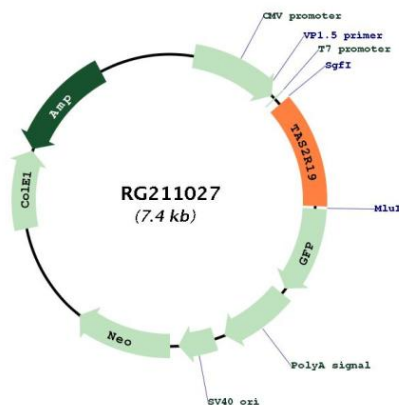
Cytogenetics: 12p13.2

Protein Families: Transmembrane

Protein Pathways: Taste transduction

Gene Summary: Receptor that may play a role in the perception of bitterness and is gustducin-linked. May play a role in sensing the chemical composition of the gastrointestinal content. The activity of this receptor may stimulate alpha gustducin, mediate PLC-beta-2 activation and lead to the gating of TRPM5 (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG211027