

## Product datasheet for **RG211024**

### TAS2R40 (NM\_176882) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TAS2R40 (NM_176882) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TAS2R40
Synonyms:	GPR60; T2R40; T2R58
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG211024 representing NM_176882 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCAACGGTGAACACAGATGCCACAGATAAAGACATATCCAAGTTCAAGGTCACCTTCACTTTGGTGG  
TCTCCGGAATAGAGTGCATCACTGGCATCCTTGGGAGTGGCTTCATCACGGCCATCTATGGGGCTGAGTG  
GGCCAGGGGCAAAACACTCCCCTGGTGACCGCATTATGTTGATGCTGAGCTTTCCAGGCTCTTGCTA  
CAGATTTGGATGATGCTGGAGAACATTTTCAGTCTGCTATTCCGAATTGTTTATAACCAAACTCAGTGT  
ATATCCTCTTCAAAGTCATCACTGTCTTTCTGAACCATCCAATCTCTGGTTTGCTGCCTGGCTCAAAGT  
CTTCTATTGTCTTAGAATTGCAAATCAATCATCCTTTGTTCTTCTGATGAAGAGGAAAATCATAGTG  
CTGATGCCTTGGCTTCTCAGGCTGTCAGTGTGGTTTCCCTTAAGCTTCAGCTTCTCTCTCGAGAGATG  
TCTTCAATGTGTATGTGAATAGCTCCATTCCCTATCCCCTCCTCCAACCCACGGAGAAGAAGTACTTCTC  
TGAGACCAATATGGTCAACCTGGTATTTTTCTATAACATGGGGATCTTCGTTCTCTGATCATGTTTCATC  
CTGGCAGCCACCCTGCTGATCCTCTCTCAAGAGACACCCCTACACATGGGAAGCAATGCCACAGGGT  
CCAGGGACCCAGCATGAAGGCTCACATAGGGGCCATCAAAGCCACCAGCTACTTTCTATCCTCTACAT  
TTTCAATGCAATTGCTCTATTTCTTTCCACGTCCAACATCTTTGACACTTACAGTTCTGGAAATATTTTG  
TGCAAGATCATCATGGCTGCCTACCCTGCCGGCCACTCAGTACAACTGATCTTGGCAACCCTGGGCTGA  
GAAGAGCTGGAAGCGGTTTCAGCACCAAGTTCTCTTTACCTAAAAGGGCAGACTCTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG211024 representing NM\_176882  
Red=Cloning site Green=Tags(s)

MATVNTDATDKDISKFKVTFLLVVSIGIECITGILGSGFITAIYGAEWARGKTLPTGDRIMLMLSFSRLLL  
 QIWMMLENIFSLFRIVYNQNSVYILFKVITVFLNHSNLWFAAWLKVFYCLRIANFNHPLFFLMKRKIIV  
 LMPWLLRLSVLSFSFPLSRDVFNVYVNSSIPISSNSTEKKYFSETNMVNLVFFYNMGIFVPLIMFI  
 LAATLLILSLKRHTLHMGSNATGSRDPSMKAHIGAIAKATSYFLILYIFNAIALFLSTSNIFDTYSSWNIL  
 CKIIMAAYPAGHSVQLILGNPGLRRAWKRFQHQPVLKLGQTL

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_176882

**ORF Size:** 969 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\\_176882.2](#)

**RefSeq Size:** 972 bp

**RefSeq ORF:** 972 bp

**Locus ID:** 259286

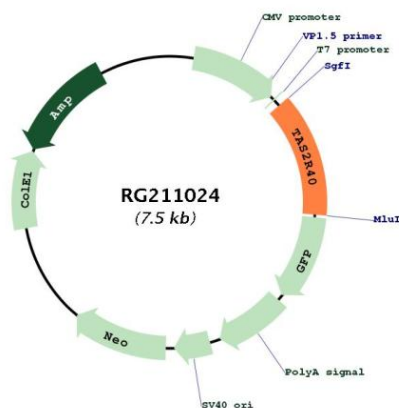
**UniProt ID:** [P59535](#)

**Cytogenetics:** 7q34

**Protein Pathways:** Taste transduction

**Gene Summary:** This gene encodes a member of the bitter taste receptor family which belong to the G protein-coupled receptor superfamily and are predominantly expressed in taste receptor cells of the tongue and palate epithelia. This intronless taste receptor gene encodes a seven-transmembrane receptor protein, functioning as a bitter taste receptor. This gene is clustered together with eight other taste receptor genes on chromosome 7. A decrease in the expression of this gene is associated with hypogeusia. [provided by RefSeq, Jul 2017]

### Product images:



Circular map for RG211024