

## Product datasheet for **RG213067**

### TAS2R41 (NM\_176883) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TAS2R41 (NM_176883) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TAS2R41
Synonyms:	T2R41; T2R59
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG213067 representing NM_176883 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCAAGCAGCACTGACGGCCTTCTTCGTGTTGCTCTTTAGCCTGCTGAGTCTTCTGGGGATTGCAGCGA  
ATGGCTTCATTGTGCTGGTGTGGGCAGGGAGTGGCTGCGATATGGCAGGTTGCTGCCCTGGATATGAT  
CCTCATTAGCTTGGGTGCCTCCCGCTTCTGCCTGCAGTTGGTGGGACAGTGCACAATTCTACTACTCT  
GCCCAGAAGGTCGAGTACTCTGGGGTCTCGGCCGACAGTTCTCCATCTACACTGGCACTTCTGAACT  
CAGCCACCTTCTGTTTTGCAGCTGGCTCAGTGTCTGTTCTGTGTGAAGATTGCTAACATCACACTC  
CACCTTCTGTGGCTGAAGTGGAGTTCCTAGGGTGGTGGCCCTGGCTCCTGTTGGGCTCTGTCTGATC  
TCCTTCATCATAACCCTGCTGTTTTTTGGGTGAACTACCCTGTATATCAAGAATTTTTAATTAGAAAAT  
TTTCTGGGAACATGACCTACAAGTGAATACAAGGATAGAAACATACTATTTCCCATCCCTGAAACTGGT  
CATCTGGTCAATTCCTTTTTCTGTTTTCTGGTCTCAATTATGCTGTTAATTAATTCTCTGAGGAGGCAT  
ACTCAGAGAAATGCAGCACAACGGGCACAGCCTGCAGGACCCAGCACCCAGGCTCACACCAGAGCTCTGA  
AGTCCCTCATCTCCTTCTCATTCTTTATGCTCTGTCTTTCTGTCCCTGATCATTGATGCCGAAAATT  
TATCTCCATGCAGAACGACTTTTACTGGCCATGGCAAATTGCAGTCTACCTGTGCATATCTGTCCATCCC  
TTCATCCTCATCTTCAGCAACCTCAAGCTTCAAGCGTGTCTCACAGCTCCTGTTGTTGGCAAGGGCT  
TCTGGGTGGCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG213067 representing NM\_176883  
Red=Cloning site Green=Tags(s)

MQAALTAFFVLLFSLLSLLGIAANGFIVLVLGREWLRVGRLLPLDMILISLGASRFCLQLVGTVHNFYYS  
 AQKVEYSGGLGRQFFHLHWHFLNSATFWFCSWLSVLFCKVIANITHSTFLWLKWRFLGWVPWLLLGSVLI  
 SFITLLFFWVNPVYQEFLLIRKFSGNMTYKWNTRIETIYFPSLKLVIWIPFSVFLVSIIMLLINSLRRH  
 TORMQHNGHSLQDPSTQAHTRALKSLISFLILYALSFLSLIIDAAKFISMQNDFYWPWQIAVYLCISVHP  
 FILIFSNLKLRSVFSQLLLLARGFWVA

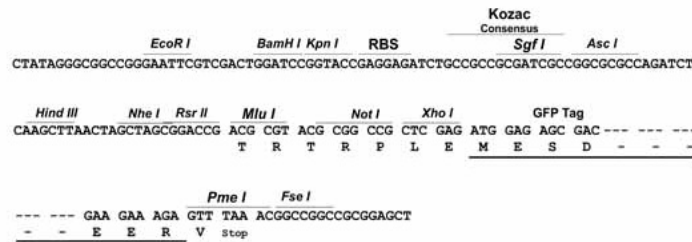
TRTRPLE - GFP Tag - V

**Restriction Sites:**

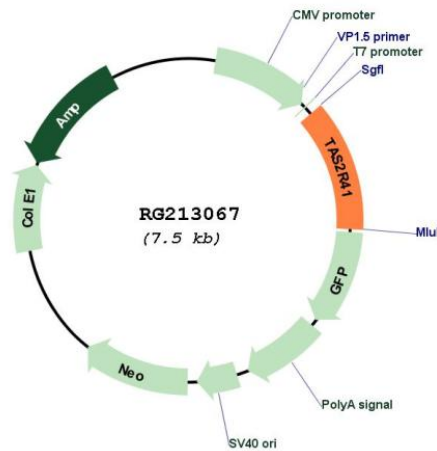
Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_176883

**ORF Size:** 921 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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_176883.1</a> , <a href="#">NP_795364.1</a>
<b>RefSeq Size:</b>	924 bp
<b>RefSeq ORF:</b>	924 bp
<b>Locus ID:</b>	259287
<b>UniProt ID:</b>	<a href="#">P59536</a>
<b>Cytogenetics:</b>	7q35
<b>Protein Pathways:</b>	Taste transduction
<b>Gene Summary:</b>	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. Chloramphenicol is an agonist for the encoded protein. [provided by RefSeq, Jul 2017]