

Product datasheet for **SC307106**

TAS1R1 (NM_177541) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TAS1R1 (NM_177541) Human Untagged Clone
Tag:	Tag Free
Symbol:	TAS1R1
Synonyms:	candidate taste receptor T1R1; gm148; GPR70; Gpr70; G protein-coupled receptor 70; OTTMUSP00000011121; sweet taste receptor T1r; T1R1; T1r1; taste receptor, type 1, member 1; TR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC307106 representing NM_177541. Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCTGCTCTGCACGGCTCGCCTGGTCGGCCTGCAGCTTCTCATTTCCTGCTGCTGGGCCTTTGCCCTGC
CATAGCACGGAGTCTTCTCCTGACTTCACCTCCCGGAGATTACCTCCTGGCAGGCCTGTCCCTCTC
CATTCTGGCTGTCTGCAGGTGAGGCACAGACCCGAGGTGACCCTGTGTGACAGGTCTTGTAGCTTCAAT
GAGCATGGCTACCACCTCTCCAGGCTATGCGGCTTGGGGTTGAGGAGATAAACTCCACGGCCCTG
CTGCCAATACACCTGGGGTACCAGCTGTATGATGTGTGTTCTGACTCTGCCAATGTGTATGCCACG
CTGAGAGTGTCTCCCTGCCAGGCAACACCACATAGAGCTCCAAGGAGACCTTCTCCACTATTCCTCCT
ACGGTGTGGCAGTGATTGGGCCTGACAGCACCAACCGTGTGCCACCACAGCCGCCCTGCTGAGCCCT
TTCTGGTGCCCATGCTTTGGAGCAGATCCACAAGGTGCATTCCTTCTACACAAGGACTGTGGCG
TTAATGACAACAGAGATCCCTCAGTAGCTATAACATAATTGCCTGGGACTGGAATGGACCAAGTGG
ACCTTCACGGTCTCGGTTCTCCACATGGTCTCCAGTTCAGCTAAACATAAATGAGACCAAAATCCAG
TGGCAGCGAAAGGACAACAGGTGCCTAAGTCTGTGTGTTCCAGCGACTGTCTTGAAGGGCACCGCGA
GTGGTTACGGGTTTCCATCACTGCTGCTTTGAGTGTGTGCCCTGTGGGGCTGGGACCTTCTCAACAAG
AGTGCTACCTGGGTAAGGACTTGCCAGAGAACAACAACGAGGCCAAATGTGTACCTTCAGCCTGTCT
TCAACTTCGTGCTCCTGGATCGCCTTCTTACCACGGCCAGCGTCTACGACGGCAAGTACCTGCTGCGG
CCAACATGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: SgfI-MluI



[View online »](#)

ACCN:	NM_177541
Insert Size:	975 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<ol style="list-style-type: none"> 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:	<u>NM_177541.1</u>
RefSeq Size:	1302 bp
RefSeq ORF:	975 bp
Locus ID:	80835
Cytogenetics:	1p36.31
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Taste transduction
MW:	35.6 kDa
Gene Summary:	<p>The protein encoded by this gene is a G protein-coupled receptor and is a component of the heterodimeric amino acid taste receptor T1R1+3. The T1R1+3 receptor responds to L-amino acids but not to D-enantiomers or other compounds. Most amino acids that are perceived as sweet activate T1R1+3, and this activation is strictly dependent on an intact T1R1+3 heterodimer. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jun 2010]</p> <p>Transcript Variant: This variant (4) lacks an alternate segment and utilizes an alternate splice site, one of which causes a frameshift compared to variant 2. The resulting isoform (d) is shorter and has a distinct C-terminus compared to isoform b.</p>