

Product datasheet for **SC315972**

TAS1R1 (NM_138697) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TAS1R1 (NM_138697) Human Untagged Clone
Tag:	Tag Free
Symbol:	TAS1R1
Synonyms:	GM148; GPR70; T1R1; TR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF: >SC315972 representing NM_138697.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

```

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGCTGCTCTGCACGGCTCGCCTGGTCGGCCTGCAGCTTCTCATTTCCTGCTGCTGGGCCTTTGCCTGC
CATAGCACGGAGTCTTCTCCTGACTTACCCTCCCGGAGATTACCTCCTGGCAGGCCTGTTCCCTCTC
CATTCTGGCTGTCTGCAGGTGAGGCACAGACCCGAGGTGACCCTGTGTGACAGGTCTTGTAGCTTCAAT
GAGCATGGCTACCACCTCTTCCAGGCTATGCGGCTTGGGGTTGAGGAGATAAAACACTCCACGGCCCTG
CTGCCAACATCACCTGGGGTACCAGCTGTATGATGTGTGTTCTGACTCTGCCAATGTGTATGCCACG
CTGAGAGTGCTCTCCCTGCCAGGCAACACCACATAGAGCTCCAAGGAGACCTTCTCCACTATTCCTCT
ACGGTGTGGCAGTGATTGGCCTGACAGCACCAACCGTGTGCCACCACAGCCGCCCTGCTGAGCCCT
TTCCTGGTGCCATGATTAGCTATGCGGCCAGCAGCGAGACGCTCAGCGTGAAGCGGCAGTATCCCTCT
TTCCTGCGCACCATCCCCAATGACAAGTACCAGGTGGAGACCATGGTGTCTGCTGCAGAAGTTCGGG
TGGACCTGGATCTCTCTGTTGGCAGCAGTGACGACTATGGGCAGCTAGGGGTGCAGGCACTGGAGAAC
CAGGCCACTGGTCAGGGGATCTGCATTGCTTCAAGGACATCATGCCCTTCTCTGCCAGGTGGGGGAT
GAGAGGATGCAGTGCCTCATGCGCCACCTGGCCAGGCCGGGGCCACCGTCGTGGTTGTTTTTCCAGC
CGGCAGTTGGCCAGGGTGTTCGAGTCCGTGGTGTGACCAACCTGACTGGCAAGGTGTGGGTGCC
TCAGAAGCCTGGGCCCTCTCCAGGCACATCACTGGGGTGGCCGGGATCCAGCGCATTGGGATGGTGTG
GGCGTGGCCATCCAGAAGAGGGCTGTCCCTGGCCTGAAGGCGTTTGAAGAAGCCTATGCCCGGCAGAC
AAGAAGGCCCTAGGCCTTGCCACAAGGGCTCCTGGTGCAGCAGCAATCAGCTCTGCAGAGAATGCCAA
GCTTTTCATGGCACACACGATGCCAAGCTCAAAGCCTTCTCCATGAGTTCTGCCTACAACGCATACCGG
CGTGTGTATGCGGTGGCCATGGCTCCACCAGCTCCTGGGCTGTGCCTCTGGAGCTTGTCCAGGGGC
CGAGTCTACCCCTGGCAGCTTTTGGAGCAGATCCACAAGGTGCATTTCTTACACAAGGACACTGTG
GGTTTTAATGACAACAGAGATCCCTCAGTAGCTATAACATAAATGCCTGGGACTGGAATGGACCCAAG
TGGACCTTACGGTCTCGGTTCTCCACATGGTCTCCAGTTCAGCTAAACATAAATGAGACAAAATC
CAGTGGCACGGAAAGGACAACCAGGTGCCTAAGTCTGTGTGTTCCAGCGACTGTCTTGAAGGGCACCAG
CGAGTGGTTACGGGTTCCATCACTGCTGCTTTGAGTGTGTGCCCTGTGGGGTGGGACCTTCTCAAC
AAGAGTGACCTCTACAGATGCCAGCCTTGTGGAAAGAAGAGTGGGCACCTGAGGGAAGCCAGACCTGC
TTCCCGCGCACTGTGGTGTTCCTGGCTTTGCGTGAGCACACCTCTGGGTGCTGCTGGCAGTAACAG
CTGCTGCTGCTGCTGCTTGGGACTGCTGGCCTGTTTGCCTGGCACCTAGACACCCCTGTGGTGAGG
TCAGCAGGGGGCCGCTGTGCTTTCTTATGCTGGGCTCCCTGGCAGCAGGTAGTGGCAGCCTCTATGGC
TTCTTTGGGGAACCCACAAGGCCTGCGTGTGCTACGCCAGGCCCTTTTGGCCTTGGTTTACCATC
TTCTGTCTGCTGACAGTTCGCTCATTCCAATAATCATCATCTTCAAGTTTTCCACCAAGGTACCT
ACATTCTACCACGCTGGGTCCAAAACACGGTGTGGCCTGTTTGTGATGATCAGCTCAGCGGCCAG
CTGCTTATCTGTCTAACTTGGCTGGTGGTGTGGACCCACTGCCTGCTAGGGAATACCAGCGCTTCCCC
CATCTGGTGATGCTTGAAGTGCACAGAGACCAACTCCCTGGGCTTCATACTGGCCTTCTCTACAATGGC
CTCCTCTCCATCAGTGCCTTTGCCTGCAGCTACCTGGGTAAAGACTTGGCAGAGAACTACAACGAGGCC
AAATGTGTACCTTACGCTGCTCTTCAACTTGTGCTGCTGGATGCCTTCTTACCACGGCCAGCGTC
TACGACGGCAAGTACCTGCCTGCGGCCAACATGATGGCTGGGCTGAGCAGCCTGAGCAGCGGCTTGGT
GGGATTTTTCTGCCTAAGTGTACGTGATCCTCTGCCGCCAGACCTCAACAGCACAGAGCACTTCCAG
GCCTCCATTACAGGACTACACGAGGCGCTGCGGCTCCACCTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
```

Restriction Sites: SgfI-MluI
ACCN: NM_138697
Insert Size: 2526 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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 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:

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_138697.3](#)

RefSeq Size: 2803 bp

RefSeq ORF: 2526 bp

Locus ID: 80835

UniProt ID: [Q7RTX1](#)

Cytogenetics: 1p36.31

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Taste transduction

MW: 93.1 kDa

Gene Summary:

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]

Transcript Variant: This variant (2) represents the longer transcript and encodes the longer isoform (b).