

## Product datasheet for **SC125268**

### TAS1R1 (NM\_177540) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TAS1R1 (NM_177540) Human Untagged Clone
Tag:	Tag Free
Symbol:	TAS1R1
Synonyms:	GM148; GPR70; T1R1; TR1
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC125268 sequence for NM\_177540 edited (data generated by NextGen Sequencing)

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ATGCTGCTCTGCACGGCTCGCCTGGTCGGCCTGCAGCTTCTCATTTCCTGCTGCTGGGCC
TTTGCCTGCCATAGCACGGAGTCTTCTCCTGACTTCACCTCCCCGGAGATTACCTCCTG
GCAGGCCGTGTTCCCTCTCCATTCTGGCTGTCTGCAGGTGAGGCACAGACCCGAGGTGACC
CTGTGTGACAGGTCTTGTAGCTTCAATGAGCATGGCTACCACCTTTCCAGGCTATGCGG
CTTGGGTTGAGGAGATAAACAACTCCACGGCCCTGCTGCCAACATCACCTGGGGTAC
CAGCTGTATGATGTGTCTGACTCTGCCAATGTGTATGCCACGCTGAGAGTGCTCTCC
CTGCCAGGGCAACACCACATAGAGCTCCAAGGAGACCTTCTCCACTATTCCCCTACGGTG
CTGGCAGTGATTGGGCTGACAGCACCAACCGTCTGCCACCACAGCCGCCCTGTGAGC
CCTTCTCCTGGTGCCATGCTTTTGGAGCAGATCCACAAGGTGCATTTCTTCTACACAAG
GACTGTGGCGTTAATGACAACAGAGATCCCCTCAGTAGCTATAACATAAATTGCCTGG
GACTGGAATGGACCAAGTGGACCTTACGGTCTCGGTCTCCACATGGTCTCCAGTT
CAGCTAAACATAAATGAGACAAAATCCAGTGGCACGGAAGGACAACCAGGTGCCTAAG
TCTGTGTGTTCCAGCGACTGTCTTGAAGGGCACCAGCGAGTGGTTACGGGTTTCCATCAC
TGCTGCTTTGAGTGTGTGCCCTGTGGGGCTGGGACCTTCCCTCAACAAGAGTGACCTCTAC
AGATGCCAGCCTTGTGGGAAAGAAGAGTGGGCACCTGAGGGAAGCCAGACCTGCTCCCCG
CGCACTGTGGTGTGTTTGGCTTTGCGTGAGCACACCTCTTGGGTGCTGCTGGCAGCTAAC
ACGCTGCTGCTGCTGCTGCTGGGACTGCTGGCCTGTTTGCCTGGCACCTAGACACC
CCTGTGGTGAGGTGAGCAGGGGGCCGCTGTGCTTTCTTATGCTGGGCTCCCTGGCAGCA
GGTAGTGGCAGCCTCTATGGCTTCTTGGGGAACCCACAAGGCCCTGCGTGCTTGCCTACGC
CAGGCCCTCTTTGCCCTTGGTTTACCATCTTCTGCTGCTGCCTGACAGTTCGCTCATTG
CAACTAATCATCATCTTCAAGTTTCCACCAAGGTACCTACATTCTACCACGCCTGGGTC
CAAAACCACGGTGTGGCCTGTTTGTGATGATCAGCTCAGCGGCCAGCTGCTTATCTGT
CTAACTTGGCTGGTGGTGTGGACCCACTGCCTGCTAGGGAATACCAGCGCTTCCCCAT
CTGGTGATGCTTGTGAGTGACAGAGACCAACTCCCTGGGCTTCACTGGCCTTCTCTAC
AATGGCCTCCTCTCCATCAGTGCCTTTGCCTGCAGCTACCTGGGTAAGGACTTGCCAGAG
AACTACAACGAGGCCAAATGTGTCACCTTACGCCTGCTCTTCACTTCGTGCTCTGGATC
GCCTTCTTACCACGGCCAGCGTCTACGACGGCAAGTACCTGCCTGCGGCCAACATGATG
GCTGGGCTGAGCAGCCTGAGCAGCGCTTCGGTGGGTATTTCTGCCTAAGTGCTACGTG
ATCCTCTGCCGCCAGACCTCAACAGCACAGAGCACTTCCAGGCCCTCCATTACAGGACTAC
ACGAGGCCGCTGCGGCTCCACCTGA

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Clone variation with respect to NM\_177540.2

- Restriction Sites:** Please inquire
- ACCN:** NM\_177540
- Insert Size:** 3000 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).
- 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).

<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_177540.1</a> , <a href="#">NP_803884.1</a>
<b>RefSeq Size:</b>	1945 bp
<b>RefSeq ORF:</b>	1764 bp
<b>Locus ID:</b>	80835
<b>UniProt ID:</b>	<a href="#">Q7RTX1</a>
<b>Cytogenetics:</b>	1p36.31
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Taste transduction
<b>Gene Summary:</b>	<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 (3) lacks an alternate in-frame exon compared to variant 2, resulting in an isoform (c) which is shorter but has the same N- and C-termini compared to isoform b.</p>