

## Product datasheet for **MC222172**

### Tas1r3 (NM\_031872) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tas1r3 (NM_031872) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tas1r3
Synonyms:	Sac; T1r3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC222172 representing NM\_031872  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCCAGCTTTGGCTATCATGGGTCTCAGCCTGGCTGCTTTCCTGGAGCTTGGGATGGGGCCTCTTTGT  
 GTCTGTACAGCAATTC AAGGCACAAGGGGACTACATACTGGGCGGGCTATTTCCCTGGGCTCAACCGA  
 GGAGGCCACTCTCAACCAGAGAACAACCCAACAGCATCCCGTGCAACAGGTTCTCACCCCTTGGTTTG  
 TTCCTGGCCATGGCTATGAAGATGGCTGTGGAGGAGATCAACAATGGATCTGCCTTGCTCCCTGGGCTGC  
 GGCTGGGCTATGACCTATTTGACACATGCTCCGAGCCAGTGGTACCATGAAATCCAGTCTCATGTTCTCT  
 GGCCAAGTGGGAGTCAAAGCATTGCTGCCTACTGCAACTACACACAGTACCAACCCCGTGTGCTGGCT  
 GTCATCGGCCCCACTCATCAGAGCTTGCCTCATTACAGGCAAGTTCCTCAGCTTCTTCTCATGCCAC  
 AGGTCAGCTATAGTGCCAGCATGGATCGGCTAAGTGACCGGGAACGTTTCCATCCTTCTCCGCACAGT  
 GCCAGTGACCGGTGCAGCTGCAGGCAGTTGTGACTCTGTTGCAGAACTTCAGCTGGAAGTGGGTGGCC  
 GCCTTAGGGAGTGATGATGACTATGGCCGGAAGTCTGAGCATCTTTTCTAGTCTGGCCAATGCACGAG  
 GTATCTGCATCGCACATGAGGGCCTGGTGCCACAACATGACACTAGTGGCCAACAGTTGGGCAAGGTGCT  
 GGATGTACTACGCCAAGTGAACCAAGTAAAGTACAAGTGGTGGTGTGTTTGCCTCTGCCCGTGTGCT  
 TACTCCCTTTTATGTTACAGCATCCATCATGGCCTCTCACCAAGGTATGGGTGGCCAGTGAAGTCTTGGC  
 TGACATCTGACCTGGTATGACACTTCCCAATATTGCCGTGTGGGCACTGTGCTGGGTTTTTGCAGCG  
 GGGTGCCTACTGCCTGAATTTCCATTATGTGGAGACTCACCTGGCTGGCCGCTGACCCAGCATTC  
 TGTGCCTCACTGAATGCGGAGTTGGATCTGGAGAACATGTGATGGGCAACGCTGTCCACGGTGTGACG  
 ACATCATGCTGCAGAACCTATCATCTGGGCTGTTGCAGAACCTATCAGCTGGGCAATGCACCAACAAAT  
 ATTTGCAACCTATGCAGCTGTGTACAGTGTGGCTCAAGCCCTTCAACACCCTACAGTGC AATGTCTCA  
 CATTGCCACGTATCAGAACATGTTCTACCTGGCAGCTCCTGGAGAACATGTACAATATGAGTTTCCATG  
 CTCGAGACTTGACACTACAGTTTGTGCTGAAGGGAATGTAGACATGGAATATGACCTGAAGATGTGGGT  
 GTGGCAGAGCCCTACACCTGTATTACATACTGTGGGCACCTTCAACGGCACCCCTTCACTGCAGCAGTCT  
 AAAATGTACTGGCCAGGCAACCAGGTGCCAGTCTCCAGTGTCCCGCCAGTGCAAAGATGGCCAGGTTT  
 GCCGAGTAAAGGGCTTTCATTCTGCTGCTATGACTGCGTGGACTGCAAGGCGGGCAGTACCGGAAGCA  
 TCCAGATGACTTACCTGTACTCCATGTAACCAGGACCAGTGGTCCCAGAGAAAAGCACAGCCTGCTTA  
 CCTCGCAGGCCAAGTTTCTGGCTTGGGGGAGCCAGTTGTGCTGCTCACTCCTCCTGCTGCTTTGCCTGG  
 TGCTGGGTCTAGCACTGGCTGCTCTGGGCTCTCTGTCCACCAGTGGGACAGCCCTTGTGCCAGGCCTC  
 AGGTGGCTCACAGTTCTGCTTGGCCTGATCTGCCTAGGCCTCTTCTGCCTCAGTGTCTTCTGTTCCCA  
 GGGCGGCCAAGCTCTGCCAGTGCCTTGCACAACAACCAATGGCTCACCTCCCTCTCACAGGCTGCCTGA  
 GCACACTTCTCTGCAAGCAGCTGAGACCTTTGTGGAGTCTGAGCTGCCACTGAGCTGGGCAAACTGGCT  
 ATGCAGTACCTTCGGGGACTCTGGGCTGGCTAGTGGTACTGTTGGCCACTTTTGTGGAGGCAGCACTA  
 TGTGCCTGGTATTTGATCGCTTCCACCAGAGGTGGTACAGACTGGTCACTGCTGCCACAGAGGTAC  
 TGGAGCACTGCCACGTGCGTTCCTGGGTACGCTGGGCTGGTGCACATACCAATGCAATGTTAGCTTT  
 CCTCTGCTTTCTGGGCACTTTCCTGGTACAGAGCCAGCCTGGCCGCTACAACCGTGCCCGTGGTCTCACC  
 TTCGCCATGCTAGCTTATTTATCACCTGGGTCTCTTTTGTGCCCTCCTGGCCAATGTGACAGGTGGCCT  
 ACCAGCCAGCTGTGCAGATGGGTGCTATCCTAGTCTGTGCCCTGGGCATCCTGGTCACTTCCACCTGCC  
 CAAGTGTATGTGCTTCTTTGGCTGCCAAAGCTCAACACCAGGAGTTCTTCTGGGAAGGAATGCCAAG  
 AAAGCAGCAGATGAGAACAGTGGCGGTGGTGGGAGCTCAGGGACACAATGAATGA**TGA**

**ACGGCT**ACGGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja2304\\_a01.zip](https://cdn.origene.com/chromatograms/ja2304_a01.zip)

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_031872

<b>Insert Size:</b>	2577 bp
<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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></p>
<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_031872.2</a> , <a href="#">NP_114078.1</a>
<b>RefSeq Size:</b>	3514 bp
<b>RefSeq ORF:</b>	2577 bp
<b>Locus ID:</b>	83771
<b>UniProt ID:</b>	<a href="#">Q925D8</a>
<b>Cytogenetics:</b>	4 87.65 cM
<b>Gene Summary:</b>	Putative taste receptor. TAS1R1/TAS1R3 responds to the umami taste stimulus (the taste of monosodium glutamate) and also to most of the 20 standard L-amino acids, but not to their D-enantiomers or other compounds. TAS1R2/TAS1R3 recognizes diverse natural and synthetic sweeteners. TAS1R3 is essential for the recognition and response to the disaccharide trehalose. Sequence differences within and between species can significantly influence the selectivity and specificity of taste responses.[UniProtKB/Swiss-Prot Function]