

## Product datasheet for **RC221879**

### TAS1R3 (NM\_152228) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TAS1R3 (NM_152228) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TAS1R3
Synonyms:	T1R3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC221879 representing NM\_152228  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTGGGCCCTGCTGTCTGGCCTCAGCCTCTGGGCTCTCCTGCACCCTGGGACGGGGCCCCATTGT  
 GCCTGTACAGCAACTTAGGATGAAGGGGACTACGTGCTGGGGGGCTGTTCCCCCTGGGCGAGGCCGA  
 GGAGGCTGGCCTCCGACCCGGACACGGCCAGAGCCCTGTGTGACACAGGTTCTCCTCAAACGGCCTG  
 CTCTGGGCACTGGCCATGAAAATGGCCGTGGAGGAGATCAACAACAAGTCGGATCTGCTGCCCGGGTGC  
 GCCTGGGCTACGACCTCTTTGATACGTGCTCGGAGCCTGTGGTGGCCATGAAGCCAGCCTCATGTTCT  
 GGCCAAGGCAGCCAGCCGACATCGCCGCTACTGCAACTACACGCAGTACCAGCCCGTGTGCTGGCT  
 GTCATCGGGCCCACTCGTCAGAGCTCGCCATGGTCACCGCAAGTTCTTCAGCTTCTTCTCATGCCCC  
 AGGTCAGTACGGTGTAGCATGGAGCTGCTGAGCGCCCGGAGACCTTCCCTCCTTCTCCGCACCGT  
 GCCCAGCAGCCGTGTGCAGCTGACGGCCCGCGGAGCTGCTGCAGGAGTTCGGTGGAACTGGGTGGCC  
 GCCTGGGCGAGCAGCAGAGTACGGCCCGCAGGGCTGAGCATCTTCTCGGCCCTGGCCCGGCAGCCG  
 GCATCTGCATCGCGCACGAGGGCTGGTGGCCTGCCCGTGGCCATGACTCGCGGCTGGGGAAGGTGCA  
 GGACGTCTGCACCAGGTGAACCAGAGCAGCGTGCAGGTGGTGTGCTGTTCCCTCCGTGCACGCCGC  
 CACGCCCTCTTAACTACAGCATCAGCAGCAGGCTCTCGCCAAGGTGTGGTGGCCAGCGAGGCCCTGGC  
 TGACCTTGACCTGGTATGGGGCTGCCCGCATGGCCAGATGGGCACGGTGTGGCTTCTCCAGAG  
 GGGTGGCCAGTGCACGAGTCCCCAGTACGTGAAGACGCACCTGGCCCTGGCCACCGACCCGGCTTC  
 TGCTCTGCCCTGGGCGAGAGGGAGCAGGGTCTGGAGGAGACGTGGTGGCCAGCGCTGCCCGCAGTGTG  
 ACTGCATCAGCTGCAGAACGTGAGCGCAGGGCTAAATCACCAGACGTTCTGTCTACGCAGCTGT  
 GTATAGCGTGGCCAGGCCCTGCACAACACTTTCAGTGAACGCCTCAGGCTGCCCGCGCAGGACCCC  
 GTGAAGCCCTGGCAGCTCCTGGAGAACATGTACAACCTGACCTTCCACGTGGGCGGGCTGCCGCTGCGGT  
 TCGACAGCAGCGAAACGTGGACATGGAGTACGACCTGAAGCTGTGGGTGTGGCAGGGCTCAGTGCCAG  
 GCTCCACGACGTGGCAGGTTCAACGGCAGCCTCAGGACAGAGCGCTGAAGATCCGCTGGCACACGCTCT  
 GACAACCAGAAGCCGTGTCCCGGTGCTCGCGCAGTGCAGGAGGGCCAGGTGCGCCGGGTCAAGGGT  
 TCCACTCTGCTGCTACGACTGTGTGGACTGCGAGGCGGGCAGCTACCGCAAACCCAGACGACATCGC  
 CTGCACCTTTTGTGGCCAGGATGAGTGGTCCCCGGAGCGAAGCACACGCTGCTTCCGCCGAGGTCTCGG  
 TTCTGGCATGGGGCGAGCCGGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT  
 TGGCTGCTTTGGGCTGTTTCGTTACCATCGGGACAGCCACTGGTTCAGGCCTCGGGGGGCCCTGGC  
 CTGCTTTGGCCTGGTGTGCCTGGCCTGGTCTGCCTCAGCGTCTCTGTTCCCTGGCCAGCCAGCCCT  
 GCCCGATGCCTGGCCAGCAGCCCTTGTCCCACCTCCCGCTCACGGGCTGCCTGAGCACACTTCTCTGC  
 AGGCGGCCGAGATCTTCGTGGAGTCAGAAGTGCCTCTGAGCTGGGCGAGCCGGCTGAGTGGCTGCCTGCG  
 GGGCCCTGGGCTGGTGGTGGTGTGCTGGCCATGCTGGTGGAGTGCACCTGTGCACCTGGTACCTG  
 GTGGCTTCCCGCCGAGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT  
 CACGCTCTGGTCACTTCCGCTAGCGACGCCACCAATGCCACGCTGGCCTTCTCTGCTTCTGGG  
 CACTTCTGGT  
 TACTTATCACCTGGGTCTCCTTTGTGCCCTCCTGGCCAATGTGACAGTGGTCTCAGGCCCGCGTGC  
 AGATGGGCGCCCTCTGCTGTGCTGCTGGCATCCTGGTGCCTTCCACCTGCCAGGTGTTACCTGCT  
 CATGCGGAGCCAGGGCTCAACACCCCGAGTCTTCTGGGAGGGGCCCTGGGATGCCAAGGCCAG  
 AATGACGGGAACACAGGAAATCAGGGGAAACATGAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC221879 representing NM\_152228  
 Red=Cloning site Green=Tags(s)

MLGPAVLGLSLWALLHPGTGAPLCLSQQLRMKGDYVVLGGLFPLGEAEEAGLSRSTRPSSPVCTRFSSNGL  
 LWALAMKMAVEEINNKSDLLPGLRLGYDLFDTCEPVMKPSLMFLAKAGSRDIAAYCNYTQYQPRVLA  
 VIGHSSSELAMVTGKFFSFLMPQVSYGASMELLSARETFPSFRTVPVSDRVQLTAAEELLQEFGWNWVA  
 ALGSDDEYGRQGLSIFSAALAAARGICIAHEGLVPLPRADDSRLGKVDVLHQVNSVQVVLFFASVHAA  
 HALFNYSISSRLSPKVWVASEAWLTSDLVMGLPGMAQMGTVLGFLQORGAQLHEFPQYVKTHLALATDPAF  
 CSALGEREQGLEEDVVGQRCPQCDCITLQNVSAAGLNHHQTFSVYAAVYSVAQALHNTLQCNASGCPAQDP  
 VKPQWLLLENMYNLTFFHVGGPLPRFDSSGNVDMEYDLKLVWVQGSVPRLHDVGRFNGSLRTERLKIHWHTS  
 DNQKPVSRCSRQCQEQVRRVKGFFHSCCYDCVDCVCEAGSYRQNPDDIACTFCGQDEWSPERSTRCFRRRSR  
 FLAWGEPVLLLLLLLLSLALGLVLAALGLFVHHRDPLVQASGGPLACFGLVCLGLVCLSVLLFPGQPSP  
 ARCLAQQPLSHLPLTGCLSTLFLQAAEIFVESELPLSWADRLSGCLRGPWAWLVLLAMLVEVALCTWYL  
 VAFPPEVVDWHMLPTEALVHCRTRSWVSFGLAHATNATLAFCLFGLTFLVRSQPGRYNRARGLTFAMLA  
 YFITWVSFVPLLANVQVLRPAVQMGALLL CVLGILAAFHLPRCYLLMRQPGLNTPPEFFLGGGPGAQGGQ  
 NDGNTGNQKHE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mg2722\\_c01.zip](https://cdn.origene.com/chromatograms/mg2722_c01.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

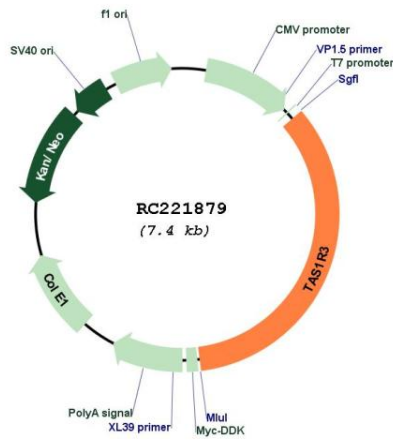
Cloning sites used for ORF Shuttling:



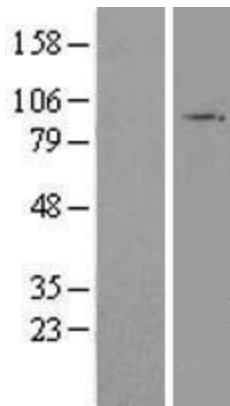
\* The last codon before the Stop codon of the ORF

<b>ACCN:</b>	NM_152228
<b>ORF Size:</b>	2556 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_152228.2</a>
<b>RefSeq Size:</b>	2559 bp
<b>RefSeq ORF:</b>	2559 bp
<b>Locus ID:</b>	83756
<b>UniProt ID:</b>	<a href="#">Q7RTX0</a>
<b>Cytogenetics:</b>	1p36.33
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Taste transduction
<b>MW:</b>	93.3 kDa
<b>Gene Summary:</b>	The protein encoded by this gene is a G-protein coupled receptor involved in taste responses. The encoded protein can form a heterodimeric receptor with TAS1R1 to elicit the umami taste response, or it can bind with TAS1R2 to form a receptor for the sweet taste response. [provided by RefSeq, Nov 2015]

Product images:



Circular map for RC221879



Western blot validation of overexpression lysate (Cat# [LY407706]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC221879 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).