

## Product datasheet for RC223792

### TAS2R43 (NM\_176884) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TAS2R43 (NM_176884) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TAS2R43
Synonyms:	T2R43; T2R52
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC223792 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGATAACTTTTCTACCCATCATTTTTCCAGTCTGGTAGTGGTTACATTTGTTATTGGAAATTTTGCTA  
ATGGCTTCATAGCACTGGTAAATTCATTGAGTCGTTCAAGAGACAAAAGATCTCCTTTGCTGACCAAAT  
TCTCACTGCTCTGGCGGCTCCAGAGTTGGTTGCTCTGGGTATTATTATAAACTGGTATTCAACTGTG  
TTGAATCCAGCTTTTAATAGTGTAGAAGTAAGAAGTACTGCTTATAATATCTGGGCAGTGATCAACCATT  
TCAGCAACTGGCTTGCTACTACCCTCAGCATATTTTATTTGCTCAAGATTGCCAATTTCTCCAACTTTAT  
TTTTCTTCACTTAAAGAGGAGAGTTAAGAGTGTCATTCTGGTGATGTTGTTGGGGCCTTTGCTATTTTTG  
GCTTGTCATCTTTTTGTGATAAACATGAATGAGATTGTGCGGACAAAAGAATTTGAAGGAAACATGACTT  
GGAAGATCAAATGAAGAGTGCAATGTACTTTTCAAATATGACTGTAACCATGGTAGCAAACCTAGTACC  
CTTCACTCTGACCCTACTATCTTTATGCTGTTAATCTGTTCTTTGTGTAACATCTCAAGAAGATGCAG  
CTCCGTGGTAAAGGATCTCAAGATCCCAGCACGAAGGTCCACATAAAAGCTTTGCAAACCTGTGATCTCT  
TCCTCTTGTTATGTGCCATTTACTTTCTGTCCATAATGATATCAGTTTGGAGTTTGGAAAGTCTGGAAAA  
CAAACCTGTCTTCATGTTCTGCAAAGCTATTAGATTCACTATCCTTCAATCCACCCATTATCTGATT  
TGGGGAACAAGAAGCTAAAGCAGACTTTTCTTTCAGTTTTTGGCAAATGAGGTACTGGGTGAAAGGAG  
AGAAGACTTCATCTCCA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC223792 protein sequence  
Red=Cloning site Green=Tags(s)

MITFLPIIFSSLVVVTFVIGNFANGFIALVNSIESFKRQKISFADQILTALAVSRVGLLWVLLLNWYSTV  
 LNPAFNSVEVRTTAYNIWAVINHFSNWLATTLISFYLLKIANFSNFIFLHLKRRVKSIVILVMLLGPLLFL  
 ACHL FVINMNEIVRTKEFEGNMTWKIKLKSAMYFSNMTVTMVANLVPFTLTLLSFMLLICSLCKHLKMQ  
 LRGKGSQDPSTKVHIKALQTVISFLLLC AIYFLSIMISVWSFGSLENKPVFMFCKAIRFSYPSIHPFILI  
 WGNKCLKQTFLSVFWQMR YWVKGEKTSSP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6464\\_a06.zip](https://cdn.origene.com/chromatograms/mk6464_a06.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

**ACCN:** NM\_176884

**ORF Size:** 927 bp

**OTI Disclaimer:** 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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_176884.1](#), [NP\\_795365.1](#)

**RefSeq Size:** 1027 bp

**RefSeq ORF:** 930 bp

**Locus ID:** 259289

**UniProt ID:** [P59537](#)

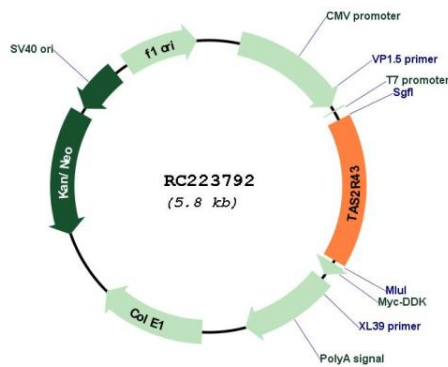
**Cytogenetics:** 12p13.2

**Protein Pathways:** Taste transduction

**MW:** 35.5 kDa

**Gene Summary:** TAS2R43 belongs to the large TAS2R receptor family. TAS2Rs are expressed on the surface of taste receptor cells and mediate the perception of bitterness through a G protein-coupled second messenger pathway (Conte et al., 2002 [PubMed 12584440]). For further information on TAS2Rs, see MIM 604791.[supplied by OMIM, Mar 2009]

**Product images:**



Circular map for RC223792