

Product datasheet for RC210904

TAS2R7 (NM_023919) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TAS2R7 (NM_023919) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TAS2R7
Synonyms:	T2R7; TRB4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC210904 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAGATAAAGTGCAGACTACTTTATTGTTCTTAGCAGTTGGAGATTTTCAGTGGGGATCTTAGGGA
ATGCATTCATTGGATTGGTAAACTGCATGGATTGGGTCAAGAAGAGGAAAATTGCCTCCATTGATTTAAT
CCTCACAAGTCTGGCCATATCCAGAATTTGTCTATTGTGCGTAATACTATTAGATTGTTTTATATTGGTG
CTATATCCAGATGTCTATGCCACTGGTAAAGAAATGAGAATCATTGACTTCTTCTGGACACTAACCAATC
ATTTAAGTATCTGTTTGAACCTGCCTCAGCATTACTATTTCTCAAGATAGGTAATTTCTTTACCC
ACTTTTCTCTGGATGAAGTGGAGAATTGACAGGGTGATTTCTGGATTCTACTGGGGTGGTGGTTCTC
TCTGTGTTTATTAGCCTTCCAGCCACTGAGAATTTGAACGCTGATTTTCAGTTTTGTGTGAAGGCAAAGA
GGAAAACAACTTAACCTGGAGTTGCAGAGTAAATAAACTCAACATGCTTCTACCAAGTTATTTCTCAA
CCTGGCAACGCTGCTCCCTTTTGTGTGTGCCTAATGTCCTTTTCTCTTGATCCTCCTCCCTGCGGAGA
CATATCAGGCGAATGCAGCTCAGTGCCACAGGGTGCAGAGACCCAGCACAGAAGCCCATGTGAGAGCCC
TGAAAGCTGTCAATTCCTTCTCTCTTTATTGCCTACTATTTGTCCTTTCTCATTGCCACCTCCAG
CTACTTTATGCCAGAGACGGAATTAGCTGTGATTTTTGGTGAGTCCATAGCTCTAATCTACCCCTCAAGT
CATTCAATTAATCCTAATACTGGGAACAATAAATTAAGACATGCATCTCTAAAGTGATTTGGAAAGTAA
TGTCATTCTAAAAGGAAGAAAATTCACAACATAAACAAATC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC210904 protein sequence
Red=Cloning site Green=Tags(s)

MADKVQTTLLFLAVGEFSVIGILGNAFIGLVN CMDWVKRKRKIASIDLILTSLAISRICLLCVILLDCFILV
 LYPDVYATGKEMRIIDFFWTLTNHLSIW FATCLSIYFFKIGNFFHPLFLWMKWRIDRVISWILLGCVVL
 SVFISLPATENLNADFRFCVKAKRKTNL TWSCRVNKTQHASTKLFNLATLLPFCVCLMSFFLLILSLRR
 HIRRMQLSATGCRDPSTEAHVRALKAVISFLLLFIAAYLSFLIATSSYFMPETELAVIFGESIALIYPS
 HSFILILGNKLRHASLKVIVKVM SIKGRKFQ QHKQI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6383_e02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_023919

ORF Size: 954 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_023919.2](#), [NP_076408.1](#)

RefSeq Size: 1096 bp

RefSeq ORF: 957 bp

Locus ID: 50837

UniProt ID: [Q9NYW3](#)

Cytogenetics: 12p13.2

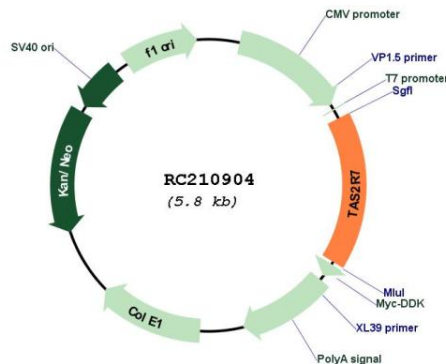
Protein Families: Transmembrane

Protein Pathways: Taste transduction

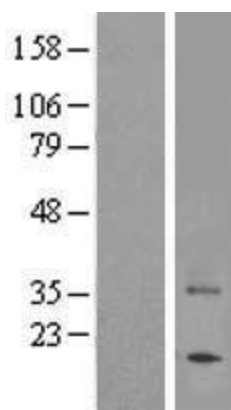
MW: 36.5 kDa

Gene Summary: This gene product belongs to the family of candidate taste receptors that are members of the G-protein-coupled receptor superfamily. These proteins are specifically expressed in the taste receptor cells of the tongue and palate epithelia. They are organized in the genome in clusters and are genetically linked to loci that influence bitter perception in mice and humans. In functional expression studies, they respond to bitter tastants. This gene maps to the taste receptor gene cluster on chromosome 12p13. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC210904



Western blot validation of overexpression lysate (Cat# [LY411446]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210904 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).