

Product datasheet for RC215955

TAS2R9 (NM_023917) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TAS2R9 (NM_023917) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TAS2R9
Synonyms:	T2R9; TRB6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC215955 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCAAGTGCAATAGAGGCAATATATATTATTTAATTGCTGGTGAATTGACCATAGGGATTTGGGGAA
ATGGATTCATTGTACTAGTTAACTGCATTGACTGGCTCAAAGAAGAGATATTCCTTGATTGACATCAT
CCTGATCAGCTTGGCCATCTCCAGAATCTGTCTGCTGTGTGAATATCATTAGATGGCTTCTTTATGCTG
CTCTTTCCAGGTACATATGGCAATAGCGTCTAGTAAGCATTGTGAATGTTGTCTGGACATTTGCCAATA
ATCAAGTCTCTGTTTACTTCTTGCCCTCAGTATCTTCTATTTACTCAAGATAGCCAATATATCGCACCC
ATTTTTCTTCTGGCTGAAGCTAAAGATCAACAAGGTCATGCTTGGGATTCTTCTGGGGTCCTTTCTTATC
TCTTTAATTATTAGTGTCCAAAGAATGATGATATGTGGTATCACCTTTCAAAGTCAGTCATGAAGAAA
ACATTACTTGGAAATCAAAGTGAGTAAAATCCAGGACTTTCAAACAGTTAACCTGAACCTGGGGGC
GATGGTTCCCTTATCCTTTGCCTGATCTCATTCTTTCTGTTACTTTTCTCCCTAGTTAGACACACCAAG
CAGATTCGACTGCATGCTACAGGTTTACAGAGCCCAAGTACAGAGGCCACATGAGGGCCATAAAGGCAG
TGATCATCTTTCTGCTCCTCATCGTGTACTACCCAGTCTTTCTTGTATGACCTCTAGCGCTCTGAT
TCCTCAGGGAAAATTAGTGTGATGATTGGTGACATAGTAACTGTCAATTTCCATCAAGCCATTCATTC
ATTCTAATTATGGGAAATAGCAAGTTGAGGGAAGCTTTTCTGAAGATGTTAAGATTTGTGAAGTGTTC
TTAGAAGAAGAAAGCCTTTTGTCCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC215955 protein sequence
 Red=Cloning site Green=Tags(s)

MPSAIEAIYIIL IAGELTIGIWNGFIVLVNCIDWLKRRDISLIDIIILISLAISRICLLCVISLDGFFML
 LFPGTYGNSVLVSI VNVVWTFANNSSLWFTSCLSI FYLLKIANISHPFFFWLK LKINKVMLAILLGSFLI
 SLIISVPKNDMMWYHLFKV SHEENITWKFVSKIPGTFKQLTLNLGAMVPFILCLISFLLLLFSLVRHTK
 QIRLHATGFRDPSTEAHMRAIKAVIIFLLLLIVVYPVFLVMTSSALIPQKGLVLMIGDIVTVIFPSSHSF
 ILIMGNSKLRFAFLKMLRFVKCFLRRRPFV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6601_d04.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_023917

ORF Size: 936 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_023917.2](#), [NP_076406.1](#)

RefSeq Size: 1075 bp

RefSeq ORF: 939 bp

Locus ID: 50835

UniProt ID: [Q9NYW1](#)

Cytogenetics: 12p13.2

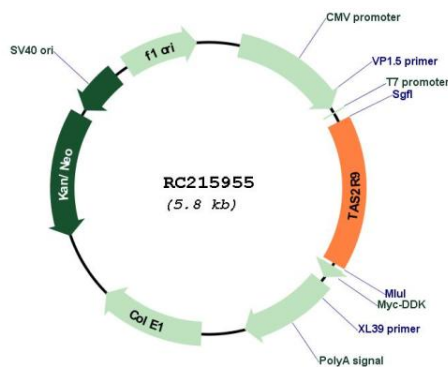
Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Taste transduction

MW: 35.6 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 RC215955