

Product datasheet for **RC220188**

TAS2R5 (NM_018980) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TAS2R5 (NM_018980) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TAS2R5
Synonyms:	T2R5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC220188 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGAGCGCTGGCCTAGGACTGCTGATGCTGGTGGCAGTGGTTGAATTTCTCATCGGTTTAATTGGAA
ATGGAAGCCTGGTGGTCTGGAGTTTTAGAGAATGGATCAGAAAATCAACTGGTCTCATATAACCTCAT
TATCCTGGGCCTGGCTGGCTGCCGATTTCTCTGCAGTGGCTGATCATTGGACTTAAGCTTGTTCCA
CTTTCCAGAGCAGCCGTTGGCTTCGCTATCTTAGTATCTCTGGGTCTGGTAAGCCAGGCCAGCTTAT
GGTTTGCCACCTTCCTCAGTGTCTTCTATTGCAAGAAGATCACGACCTTCGATCGCCCGCCTACTTGTG
GCTGAAGCAGAGGGCCTATAACCTGAGTCTCTGGTGCCTCTGGGCTACTTTATAATCAATTTGTTACTT
ACAGTCCAAATTGGCTTAACATTCTATCATCTCCCAAGGAAACAGCAGCATTCCGTATCCCTTTGAAA
GCTGGCAGTACCTGTATGCATTTCACTCAATTCAGGAAGTTATTTGCCTTTAGTGGTGTCTTCTGTTTC
CTCTGGGATGCTGATTGTCTCTTTGTATACACACCACAAGAAGATGAAGGTCCATTCAGCTGGTAGGAGG
GATGTCCGGGCCAAGGCTCACATCACTGCGCTGAAGTCTTGGGCTGCTTCTCTACTTCACCTGGTTT
ATATCATGGCCAGCCCTTCTCCATCACCTCCAAGACTTATCCTCCTGATCTCACCAGTGTCTTCATCTG
GGAGACTCATGGCAGCCTATCCTTCTCTTATTCTCTCATATTGATCATGGGATTCTTAGGGTGAAG
CAGACTTGTGAGAAGATCCTGTGGAAGGCAGTGTGTCTCGGAGATGCTGGGGCCCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RC220188 protein sequence
Red=Cloning site Green=Tags(s)

MLSAGLGLMLVAVVEFLIGLIGNGSLVVSFWFREWIRKFNWSSYNLIILGLAGCRFLQWLIIDLSDLFPLFQSSRWLRYLSIFWVLVSQASLWFATFLSVFYCKITTFDRPAYLWLKQRAYNLSLWCLLGYFIIINLLLTVQIGLTFYHPPQGNSSIRYPFESWQYL YAFQLNSGSYLPLVVFLVSSGMLIVSLYTHHKMKVHSAGRRDVRAKAHITALKSLGCFLLHLVYIMASPFISITSKTYPPDLTSVFIWETLMAAAYPSLHSLILIMGIPRVKQTCQKILWKAVCARRCWGP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6456_g01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_018980

ORF Size: 897 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_018980.3](#)

RefSeq Size: 1150 bp

RefSeq ORF: 900 bp

Locus ID: 54429

UniProt ID: [Q9NYW4](#)

Cytogenetics: 7q34

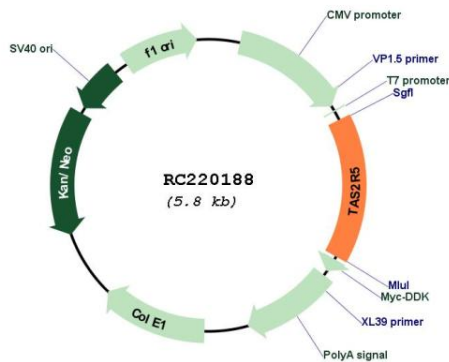
Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Taste transduction

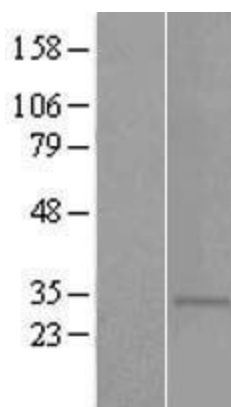
MW: 34.5 kDa

Gene Summary: This gene encodes a bitter taste receptor; bitter taste receptors are members of the G protein-coupled receptor superfamily and are specifically expressed by taste receptor cells of the tongue and palate epithelia. Each of these apparently intronless taste receptor genes encodes a 7-transmembrane receptor protein, functioning as a bitter taste receptor. This gene is clustered with another 3 candidate taste receptor genes on chromosome 7 and is genetically linked to loci that influence bitter perception. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC220188



Western blot validation of overexpression lysate (Cat# [LY412822]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC220188 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).