OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC222347

TAS2R3 (NM_016943) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TAS2R3 (NM_016943) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TAS2R3
Synonyms:	T2R3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC222347 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGATGGGACTCACCGAGGGGGTGTTCCTGATTCTGTCTGGCACTCAGTTCACACTGGGAATTCTGGTCA
ATTGTTTCATTGAGTTGGTCAATGGTAGCAGCTGGTTCAAGACCAAGAGAATGTCTTTGTCTGACTTCAT
CATCACCACCCTGGCACTCTTGAGGATCATTCTGCTGTGTATTATCTTGACTGATAGTTTTTTAATAGAA
TTCTCTCCCAACACACATGATTCAGGGATAATAATGCAAATTATTGATGTTTCCTGGACATTTACAAACC
ATCTGAGCATTTGGCTTGCCACCTGTCTTGGTGTCCTCTACTGCCTGAAAATCGCCAGTTTCTCTCACCC
CACATTCCTCTGGCTCAAGTGGAGAGTTTCTAGGGTGATGGTATGGATGCTGTTGGGTGCACTGCTCTTA
TCCTGTGGTAGTACCGCATCTCTGATCAATGAGTTTAAGCTCTATTCTGTCTTTAGGGGAATTGAGGCCA
CCAGGAATGTGACTGAACACTTCAGAAAGAAGAGGAGTGAGTATTATCTGATCCATGTTCTTGGGACTCT
GTGGTACCTGCCTCCCTTAATTGTGTCCCTGGCCTCCTACTCTTTGCTCATCTTCTCCCTGGGGAGGCAC
ACACGGCAGATGCTGCAAAATGGGACAAGCTCCAGAGATCCAACCACTGAGGCCCACAAGAGGGCCATCA
GAATCATCCTTTCCTTCTTCTTTCTCTTCTTACTTTACTTTCTTGCTTTCTTAATTGCATCATTTGGTAA
TTTCCTACCAAAAACCAAGATGGCTAAGATGATTGGTGAAGTAATGACAATGTTTTATCCTGCTGGCCAC
TCATTTATTCTCATTCTGGGGAACAGTAAGCTGAAGCAGACATTTGTAGTGATGCTCCGGTGTGAGTCTG
GTCATCTGAAGCCTGGATCCAAGGGACCCATTTTCTCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC222347 protein sequence
Red=Cloning site Green=Tags(s)

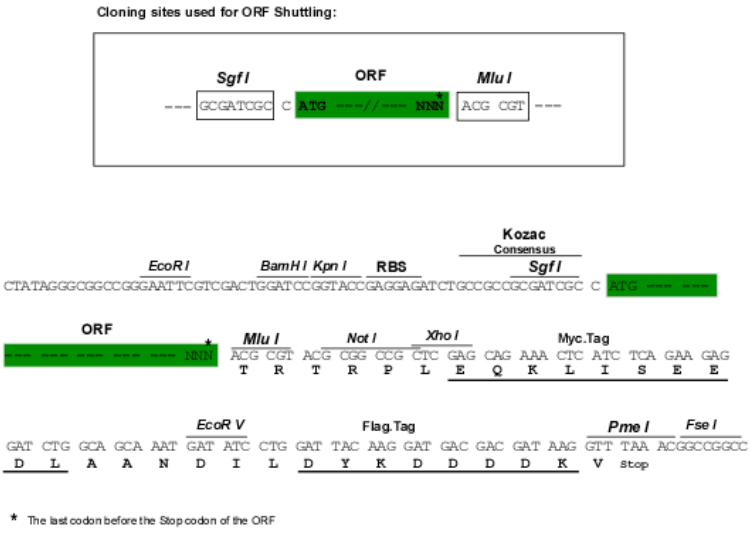
MMGLTEGVFLILSGTQFTLGILVNCFIELVNGSSWFKTKRMSLSDFIITTLALLRIILLCIILTDSFLIE
FSPNTHDSGIIMQIIDVSWTFTNHLSIWLATCLGVLYCLKIASFSHPTFLWLKWRVSRVMVWMLLGALLL
SCGSTASLINEFKLYSVFRGIEATRNVTEHFRKKRSEYYLIHVLGTLWYLPPLIVSLASYSLLIFSLGRH
TRQMLQNGTSSRDPTTEAHKRAIRIILSFFFLFLLYFLAFLIASFGNFLPKTKMAKMIGEVMTMFYPAGH
SFILILGNSKLKQTFVVMLRCESGHLKPGSKGPIFS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6456_d06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_016943

ORF Size: 948 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_016943.2, NP_058639.1

RefSeq Size: 1101 bp

RefSeq ORF: 951 bp

Locus ID: 50831

UniProt ID: Q9NYW6

Cytogenetics: 7q34

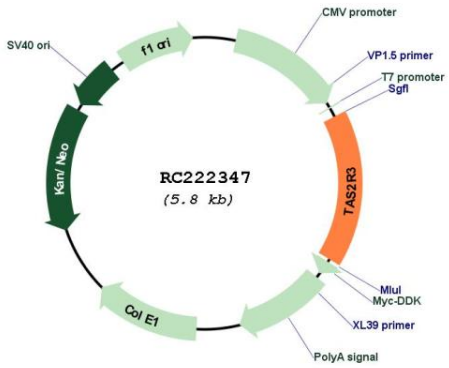
Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Taste transduction

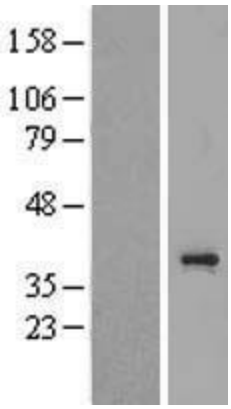
MW: 35.9 kDa

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

Product images:



Circular map for RC222347



Western blot validation of overexpression lysate (Cat# [LY413793]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC222347 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).