

Product datasheet for **RG222347**

TAS2R3 (NM_016943) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: TAS2R3 (NM_016943) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: TAS2R3
Synonyms: T2R3
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG222347 representing NM_016943
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGATGGGACTCACCGAGGGGGTTCCTGATTCTGTCTGGCACTCAGTTCACACTGGGAATCTGGTCA
 ATTGTTTCATTGAGTTGGTCAATGGTAGCAGCTGGTTCAGACCAAGAGAATGCTTTGTCTGACTTCAT
 CATCACCCCTGGCACTCTTGAGGATCATTCTGCTGTGATTATCTTGACTGATAGTTTTTTAATAGAA
 TTCTCTCCCAACACACATGATTCAGGGATAATAATGCAAATTATTGATGTTTCCTGGACATTTACAACC
 ATCTGAGCATTTGGCTTGCCACCTGTCTTGGTGTCTCTACTGCCTGAAAATCGCCAGTTTCTCTCACCC
 CACATTCCTCTGGCTCAAGTGGAGATTTCTAGGGTATGGTATGGATGCTGTTGGGTGCACTGCTCTTA
 TCCTGTGGTAGTACCGCATCTCTGATCAATGAGTTAAGCTCTATTCTGTCTTTAGGGGAATTGAGGCCA
 CCAGGAATGTGACTGAACACTTCAGAAAGAAGAGGAGTGAGTATTATCTGATCCATGTTCTTTGGGACTCT
 GTGGTACCTGCCTCCCTAATTGTGTCCTGGCCTCCTACTCTTTGCTCATCTTCTCCCTGGGGAGGCAC
 ACACGGCAGATGCTGCAAAATGGGACAAGCTCCAGAGATCCAACCACTGAGGCCCAAGAGGGCCATCA
 GAATCATCCTTTCCTTCTTTCTCTTACTTTACTTTCTTCTTCTTAAATGTCATCATTTGGTAA
 TTTCTACCAAAAACCAAGATGGCTAAGATGATTGGTGAAGTAAATGACAATGTTTTATCCTGCTGGCCAC
 TCATTTATTCTATTCTGGGGAACAGTAAGCTGAAGCAGACATTTGTAGTGATGCTCCGGTGTGAGTCTG
 GTCATCTGAAGCCTGGATCCAAGGGACCCATTTCTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG222347 representing NM_016943
Red=Cloning site Green=Tags(s)

MMGLTEGVFLILSGTQFTLGILVNCFIELVNGSSWFKTKRMSLSDFIITTLALLRIILLCIILTDSFLIE
 FSPNTHDSGIIMQIIDVSWTFTNHLISIWLATCLGLVLYCLKIASFSHTFLWLKWRVSRVMVWMLLGALL
 SCGSTASLINEFKLYSVFRGIEATRNVT EHFRRKRSEYYLIHVLGTLWYLPPLIVSLASYSLLIFSLGRH
 TRQMLQNGTSSRDPTTEAHKRAIRIILSFFFLFLLYLAFLIASFGNFLPKTKMAKMIGEVMTFYPAGH
 SFILILGNSKLGKQTFVMLRCESGHLKPGSKGPIFS

TRTRPLE - GFP Tag - V

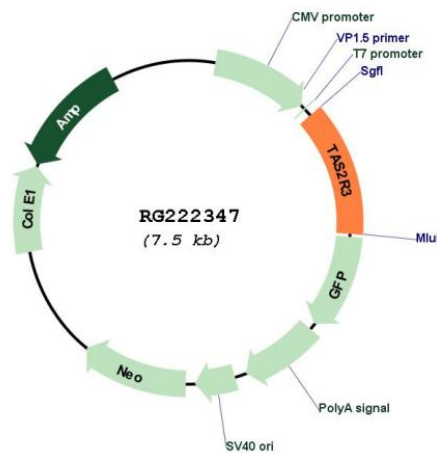
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



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:	<ol style="list-style-type: none">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
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]