

Product datasheet for **RG222288**

TAS2R16 (NM_016945) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TAS2R16 (NM_016945) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TAS2R16
Synonyms:	BGLPT; T2R16
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG222288 representing NM_016945 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATACCCATCCAACACTCACTGTCTTCTTCATGATCATCTATGTGCTTGAGTCCTTGACAATTATTGTGC
AGAGCAGCCTAATTGTTGCAGTGCTGGGCAGAGAATGGCTGCAAGTCAGAAGGCTGATGCCTGTGGACAT
GATTCTCATCAGCCTGGGCATCTCTCGCTTCTGTCTACAGTGGGCATCAATGCTGAACAATTTTTGTCC
TATTTAATTTGAATTATGTACTTTGCAACTTAACAATCACCTGGGAATTTTTAATATCCTTACATTCT
GGTTAAACAGCTTGCTTACCGTGTCTACTGCATCAAGGTCTCTCTTTACCCATCACATCTTTCTCTG
GCTGAGGTGGAGAATTTGAGGTTGTTCCCTGGATATTACTGGGTTCTCTGATGATTACTGTGTAAACA
ATCATCCCTTCAGCTATTGGGAATTACATTCAAATTCAGTTACTCACCATGGAGCATCTACCAAGAAACA
GCACTGTAAGTGAACAATTGAAAATTTTCATCAGTATCAGTTCAGGCTCATACAGTTGCATTGGTTAT
TCCTTTCATCCTGTTCTGGCCTCCACCATCTTCTCATGGCATCACTGACCAAGCAGATACAACATCAT
AGCACTGGTCACTGCAATCCAAGCATGAAAGCGCACTTCACTGCCCTGAGGTCCCTTGCCGTCTTATTTA
TTGTGTTTACCTTACTTTCTAACCATACTCATCACCATTATAGTACTCTATTTGATAAGAGATGTTG
GTTATGGTCTGGGAAGCTTTTGTCTATGCTTTTCATCTTAATGCATTCCACTTCACTGATGCTGAGCAGC
CCTACGTTGAAAAGGATTCTAAAGGAAAGTGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >RG222288 representing NM_016945
 Red=Cloning site Green=Tags(s)

MIPIQLTVFFMIYVLESLLTIIQSSLIIVAVLGREWLQVRRLLMPVDMILISLGISRFCLQWASMLNNFCS
 YFNLNYVLCNLTITWEFFNILTFWLNLLTVFYCIKVVSSFTHHIFLWLRWRILRFLFPWILLGSLMITCVT
 IIPSAIGNYIQIQLLTMHEHLPRNSTVTDKLENFHQYQFQAHTVALVIPFILFLASTIFLMASLTKQIQHH
 STGHCNPSMKAHFTALRSLAVLFIVFTSYFLTILITIIIGTLFDKRCWLWWEAFVYAFILMHSTSLMLSS
 PTLKRILKGGC

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_016945

ORF Size: 873 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_016945.2](#), [NP_058641.1](#)

RefSeq Size: 996 bp

RefSeq ORF: 876 bp

Locus ID: 50833

UniProt ID: [Q9NYV7](#)

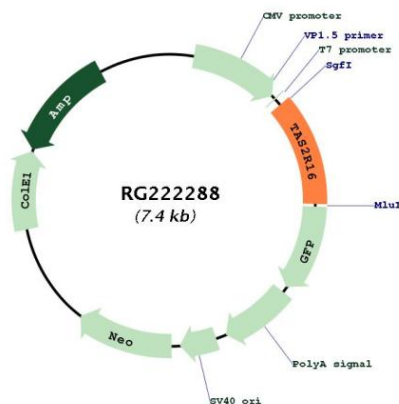
Cytogenetics: 7q31

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. These family members are specifically expressed by taste receptor cells of the tongue and palate epithelia. Each of these apparently intronless genes encodes 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 RG222288