

Product datasheet for **RG221352**

TAS2R42 (NM_181429) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TAS2R42 (NM_181429) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TAS2R42
Synonyms:	T2R24; T2R42; T2R55; TAS2R55
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG221352 representing NM_181429 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCACCGAATTGGACAAAATCTTTCTGATTCTGGCAATAGCAGAATTCATCATCAGCATGCTGGGA
ATGTGTTTCATTGGACTGGTAAACTGCTCTGAAGGGATCAAGAACCAAAGGTCTTCTCAGCTGACTTCAT
CCTCACCTGCTTGGCTATCTCCACAATTGGACAACTGTTGGTGACTGTTTGATTCAATTTCTAGTGGGA
CTTGCTTCACATTTATATACCACATATAGACTAGGAAAACTGTTATTATGCTTTGGCACATGACTAATC
ACTTGACAACCTGGCTTGCACCTGCCTAAGCATTCTTTCTATTTCTTTAAGATAGCCCACTCCCCACTC
CCTTTTCTCTGGCTGAGGTGGAGGATGAACGGAATGATTGTTATGCTTCTTATATTGTCTTTGTTCTTA
CTGATTTTGGACAGTTTAGTGCTAGAAATATTTATTGATATCTCACTCAATATAATAGATAAAAAGTAATC
TGACTTTATATTTAGATGAAAGTAAAACCTCTATGATAAACTCTCTATTTTAAAACTCTTCTCAGCTT
AACCAGTTTTATCCCCTTTCTCTGTTCTGACCTCCTTGCTTTTTTTATTTCTGTCCTTGGTGAGACAT
ACTAGAAATTTGAAGCTCAGTTCCTTGGGCTCTAGAGACTCCAGCACAGAGGCCCATAGGAGGGCCATGA
AAATGGTGATGCTTTCTTTCTCTTCATAGTTCATTTTTTTCTTACAAGTGGCCAATGGGATATT
TTTTATGTTGTGGAACAACAAGTACATAAAGTTTGTGATGTTAGCCTTAAATGCCTTTCCCTCGTGCCAC
TCATTTATTCTCATTCTGGGAAACAGCAAGCTGCGACAGACAGCTGTGAGGCTACTGTGGCATCTTAGGA
ACTATACAAAAACACCAAATGCTTTACCTTTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG221352 representing NM_181429
Red=Cloning site Green=Tags(s)

MATELDKIFLILAI AEFII SMLGNVFIGLVNCS EGIKNQKVF SADFILTCLAISTIGQLLVILFDSFLVG
 LASHLYTTYRLGKTVIMLWHMTNHLTTWLATCLSI FYFFKIAHFP HSLFLWLRWRMNGMI VMLLILSLFL
 LIFDSL VLEIFIDISLNIIDKSNL TLYLDESKTLYDKLSILKTLLSLTSFIPFSLFLT SLLFLFLSLVRH
 TRNLKLSLGS RDSSTE AHRRAMKMVMSFLFLFIVHFFSLQVANGIFFMLWNNKYIKFVMLALNAFP SCH
 SFILILGNSKLRQTAVRLLWHLRNYTKTPNALPL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_181429

ORF Size: 942 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_181429.1](#), [NP_852094.1](#)

RefSeq Size: 945 bp

RefSeq ORF: 945 bp

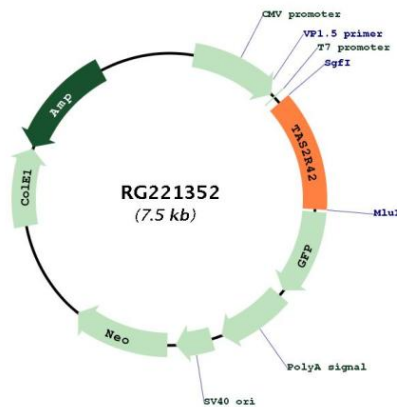
Locus ID: 353164

Cytogenetics: 12p13.2

Protein Families: Transmembrane

Protein Pathways: Taste transduction

Product images:



Circular map for RG221352