

Product datasheet for **RG216710**

TAS2R4 (NM_016944) Human Tagged ORF Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | TAS2R4 (NM_016944) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | TAS2R4 |
| Synonyms: | T2R4 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >RG216710 representing NM_016944 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCTTCGGTTATTCTATTCCTCTGCTATTATTCCTCAGTTATTTAAATTTTGTAGGAATCATTATGA
ATCTGTTTATTACAGTGGTCAATTGCAAACTTGGGTCAAAGCCATAGAATCTCCTCTTCTGATAGGAT
TCTGTTACGCTGGGCATCACCAGGTTTCTTATGCTGGGACTATTCTGGTGAACACCATCTACTTCGTC
TCTCAAATACGAAAAGGTCAGTCTACCTGTCTGCTTTTTTTGTGTTGTGTTTCATGTTTTGGACTCGA
GCAGTCTCTGGTTTGTGACCTTGCTCAATATCTTGTACTGTGTGAAGATTACTAATTCCAACACTCAGT
GTTTCTCCTGCTGAAGCGGAATATCTCCCAAAGATCCCCAGGCTGCTGCTGGCCTGTGTGCTGATTTCT
GCTTTCACCACCTTGCTGTACATCACGCTTAGCCAGGCATCACCTTTTCTGAACCTGTGACTACGAGAA
ATAACACATCATTTAATATCAATGAGGGCATCTTGTCTTTAGTGGTTTCTTTGGTCTTGAGCTCATCTCT
CCAGTTCATCATTAATGTGACTTCTGCTTCTTGTCTAATACACTCCTTGAGGAGACATATACAGAAGATG
CAGAAAAATGCCACTGGTTTCTGGAATCCCCAGACGGAAGCTCATGTAGGTGCTATGAAGCTGATGGTCT
ATTTCTCATCTCTACATTCCATATTCAGTTGCTACCCTGGTCCAGTATCTCCCTTTTATGCAGGGAT
GGATATGGGGACCAATCCATTTGTCTGATTTTTGCCACCCTTACTCTCCAGGACATTCTGTTCTCATT
ATTATCACACATCCTAACTGAAAACAACAGCAAAGAAGATTCTTTGTTTCAAAAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG216710 representing NM_016944
Red=Cloning site Green=Tags(s)

MLRLFYSSAIIASVILNFVGIIMNLFITVVNCKTWVKSRISSDRILFSLGITRFLMLGLFLVNTIYFV
 SSNTERSVYLSAFFVLCFMFLDSSSLWFVTLNLILYCVKITNFQHSVFLLLKRNISPKIPRLLLACVLIS
 AFTTCLYITLSQASPFPELVTRNNTSFNINEGILSLVSVLVLSSSLQFIINVTSASLLIHSLRRHIQKM
 QKNATGFWNPQTEAHVGMKLMVYFLILYIPYSVATLVQYLPFYAGMDMGTKSICLIIFATLYSPGHSVLI
 IITHPKLKTAKKILCFKK

TRTRPLE - GFP Tag - V

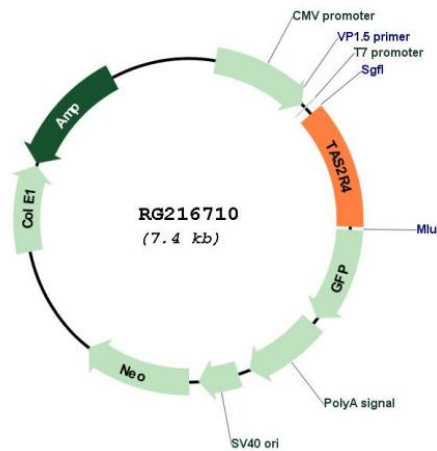
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_016944

ORF Size: 897 bp

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| 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_016944.1 , NP_058640.1 |
| RefSeq Size: | 900 bp |
| RefSeq ORF: | 900 bp |
| Locus ID: | 50832 |
| UniProt ID: | Q9NYW5 |
| 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 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] |