

Product datasheet for **RG223842**

TAS2R44 (TAS2R31) (NM_176885) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TAS2R44 (TAS2R31) (NM_176885) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TAS2R44
Synonyms:	T2R31; T2R44; T2R53; TAS2R44
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG223842 representing NM_176885 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACAACTTTTATACCCATCATTTTTCCAGTGTGGTAGTGGTCTATTTGTTATTGGAAATTTTGCTA
ATGGCTTCATAGCATTGGTAAATTCATTGAGCGGGTCAAGAGACAAAAGATCTCTTTGCTGACCAGAT
TCTCACTGCTCTGGCGGTCTCCAGAGTTGGTTGCTCTGGGTATTATTATAAATTGGTATTCAACTGTG
TTAATCCAGCTTTTTATAGTGTAGAAGTAAGAAGTACTGCTTATAATGTCTGGGCAGTAACCGGCCATT
TCAGCAACTGGCTTGCTACTAGCCTCAGCATATTTTATTTGCTCAAGATTGCCAATTTCTCCAACCTTAT
TTTTCTCACTTAAAGAGGAGAGTTAAGAGTGTCACTTCTGGTGATGCTGTTGGGGCTTTACTATTTTTG
GCTTGCAACTTTTTGTGATAAACATGAAAGAGATTGTACGGACAAAAGAATATGAAGGAAACTTGACTT
GGAAGATCAAATGAGGAGTGCAGTGTACCTTTTCAGATGCGACTGTAAACCACGCTAGGAACTTAGTGCC
CTTCACTCTGACCCTGCTATGTTTTTGTCTGTTAATCTGTTCTCTGTGTAACATCTCAAGAAGATGCAG
CTCCATGGTAAAGGATCTCAAGATCCCAGCACCAAGGTCCACATAAAAAGCTTTGCAAAGTGTGATCTTTT
TCCTCTTGTTATGTGCCGTTTACTTTCTGTCCATAATGATATCAGTTTGGAGTTTGGGAGTCTGGAAAA
CAAACCTGTCTTCATGTTCTGCAAAGCTATTAGATTGAGTATCCTTCAATCCACCCATTCATCCTGATT
TGGGAAACAAGAAGCTAAAGCAGACTTTTCTTTCAGTTTTCGGCAAGTGGGACTGGGTGAAAGGAG
AGAAGCCTTCATCTCCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG223842 representing NM_176885
 Red=Cloning site Green=Tags(s)

MTTFIPIIFSSVVVLFVIGNFANGFIALVNSIERVKRQKISFADQILTALAVSRVGLLWVLLLNWYSTV
 FNPAFYSEVVRTTAYNVWAVTGHFSNWLATSLSIFYLLKIANFNLIFLHLKRRVKSVILVMLLGPLLFL
 ACQLFVINMKEIVRTKEYEENLTKWIKILRSAYVLSDATVTTLGNLVPFTLTLLCFLLLICSLCKHLKMQ
 LHGKGSQDPSTKVHIKALQTVIFFLLCAVYFLSIMISVWSFGSLENKPVFMFCKAIRFSYPSIHPFILI
 WGNKLLKQTFLSVLRQVRYWVKGEKPSSP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_176885

ORF Size: 927 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_176885.2](#)

RefSeq Size: 930 bp

RefSeq ORF: 930 bp

Locus ID: 259290

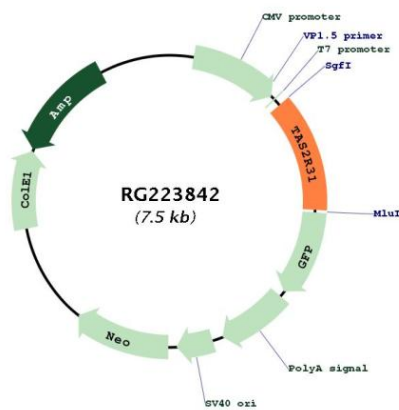
UniProt ID: [P59538](#)

Cytogenetics: 12p13.2

Protein Pathways: Taste transduction

Gene Summary: TAS2R44 belongs to the large TAS2R receptor family. TAS2Rs are expressed on the surface of taste receptor cells and mediate the perception of bitterness through a G protein-coupled second messenger pathway (Conte et al., 2002 [PubMed 12584440]). For further information on TAS2Rs, see MIM 604791.[supplied by OMIM, Mar 2009]

Product images:



Circular map for RG223842