

Product datasheet for **RG222294**

TAS2R45 (NM_176886) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TAS2R45 (NM_176886) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TAS2R45
Synonyms:	GPR59; T2R45; ZG24P
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG222294 representing NM_176886 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATAACTTTTCTGCCCATCATATTTCCATTCTAGTAGTGGTTACATTTGTTATTGGAAATTTTGCTA
ATGGCTTCATAGCGTTGGTAAATTCACCGAGTGGGTGAAGAGACAAAAGATCTCCTTTGCTGACCAAA
TGTCAGTCTCTGGCGGCTCCAGAGTTGGTTGCTCTGGGTGTTATTATTAATTTGGTATTCAACTGTG
TTGAATCCAGCTTTTATAGTGTAGAATTAAGAACTACTGCTTATAATATCTGGGCAGTAACCGGCCATT
TCAGCAACTGGCCTGCTACTAGCCTCAGCATATTTATTTGCTCAAGATTGCCAATTTCTCCAACCTTAT
TTTTCTTCGCTTAAAGAGGAGAGTTAAGAGTGTCAATTCGGTGGTCTGTTGGGGCTTTGCTATTTTTG
GCTTGTCATCTTTTTGTGGTAAACATGAATCAGATTGTATGGACAAAAGAATATGAAGGAAACATGACTT
GGAAGATCAAATTTAGGCGTGCAATGTACCTTTTCAGATACGACTGTAACCATGCTAGCAAACCTTAGTACC
CTTTACTGTAACCTGATATCTTTCTGCTGTTAGTCTGTTCTCTGTGTAACATCTCAAGAAGATGCAG
CTCCATGGCAAAGGATCTCAAGATCCCAGTACCAAGGTCCACATAAAAAGTTTGGCAAACCTGTGATCTCT
TCTTCTTGTTACGTGCCATTTACTTTGTGTCTGTAATAATATCAGTTTGGAGTTTAAAGAATCTGGAAAA
CAAACCTGTCTTCATGTTCTGCCAAGCTATTGGATTACGCTGTTCTTCAGCCACCCGTTTCATCTGATT
TGGGAAACAAGAAGCTAAAGCAGACTTATCTTTCAGTTTTGTGGCAAATGAGGTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG222294 representing NM_176886
Red=Cloning site Green=Tags(s)

MITFLPIIFSILVVVTFVIGNFANGFIALVNSTEWVKRQKISFADQIVTALAVSRVGLLVVLLLNWYSTV
 LNPAFYSELRTTAYNIWAVTGHFSNWPATSLSIFYLLKIANFNSLIFLRLKRRVKSVILVVLLGPLLFL
 ACHLFVVMNQIVWTKEYEGNMTWKIKLRRAMYLSDTTVTMLANLVPFTVTLISFLLLVCSLCKHLKMKQ
 LHGKGSQDPSTKVHIKVLQTVISFFLLRAIYFVSVIISVWSFKNLNKPVMFCQAIGFSCSSAHPFILI
 WGNKCLKQTYLSVLWQMRV

TRTRPLE - GFP Tag - V

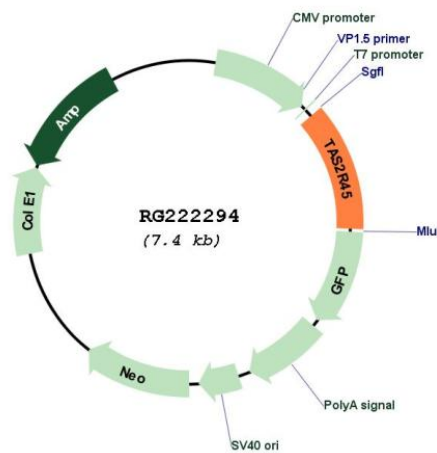
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_176886

ORF Size: 897 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_176886.2 , NP_795367.2
RefSeq Size:	900 bp
RefSeq ORF:	900 bp
Locus ID:	259291
Protein Pathways:	Taste transduction