

Product datasheet for **MR220121**

Tas2r107 (NM_199154) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tas2r107 (NM_199154) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tas2r107
Synonyms:	mGR06; mt2r43; STC5-1; T2R07; T2R4; T2R107; Tas2r7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR220121 representing NM_199154 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGAATTCAGCAGAAGGCATCCTCCTTTGTGTTGTCAGTACTAGGCTGTGCTCGGAGTTTTAGGGG
ACACATATATTGCACTTTTTAACTGCATGGACTATGCTAAGAACAAGAAGCTCTCTAAGATCGGTTTCAT
TCTCATTGGCTTGGCGATTTCCAGAATTGGTGTGTATGGATAAATTTTACAAGGGTATATACAAGTA
TTTTTCCACACATGCTTACCTCTGAAACATAACTGAATATATTACTTACATATGGGTATTTCTCAATC
ACTTAAGTGTCTGGTTTGTCCAACTCAACATCCTCTACTTTCTAAAGATAGCTAATTTTCCAATC
TGATTTCTCTGGCTGAAAAGGAGAGTCAATGCAGTTTTATCTTTCTGTGAGGATGCTTACTTACCTCA
TGGTACTATGTTTTCCAAATGACAAAGATACTTCAAATAGTAAAATGCACCAGAGAAAACATCTT
GGTCCACCAGCGGAAAATTAATTTCTTATTAACCAAAGTGTGACCAATCTGGGAATCTTTTTCTTCAT
TATTGTATCCCTGATTACCTGCTTTCTGTTGATTGTTTTCTCTGGAGACATGTCAGACAAATGCATTCA
GATGTTTCAGGATTGAGAGACCAGCACAAAAGTACATGTGAAAGCTATGAAATTTCTAATATCTTTTA
TGGTCTCTTTATTCTGCATTTGTAGGCCTTCCATAGAAGTGTATGCTTTATCTGCCACAAAATAA
ACTGCTCTTTATAACTGGTTTGACAGCCACATGCCTCTATCCCTGCGGTCACTCAATCATCGTAATTTTA
GGAAATAAGCAGTTAAAGCAAGCCTCTTTGAAGGCACTGCAGCAACTAAAATGCTGTGAGACAAAAGGAA
ATTTGAGAGTCAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR220121 representing NM_199154
Red=Cloning site Green=Tags(s)

MLNSAEGILLCVVTSEAVLGVLDGTYIALFNCMDYAKNKKLSKIGFILIGLAISRIGVVWIIILQGYIQV
 FFPHMLTSGNITEYITYIWVFLNHLVWFVTNLNLYFLKIANFNSVFLWLKRRVNAVFIPLSGCLLTS
 WLLCFPQMTKILQNSKMHQRNTSWVHQKKNYFLINQSVTNLGIFFFIIVSLITCFLLIVFLWRHVRQMHS
 DVSGFRDHSTKVHVKAMKFLISFMVFFILHFVGLSIEVLCFILPQNKLLFITGLTATCLYPCGHSIIVIL
 GNKQLKQASLKALQQLKCCEKGNFRVK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9023_c10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_199154

ORF Size: 924 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_199154.1](#), [NP_954605.1](#)

RefSeq Size: 927 bp

RefSeq ORF: 927 bp

Locus ID: 387342

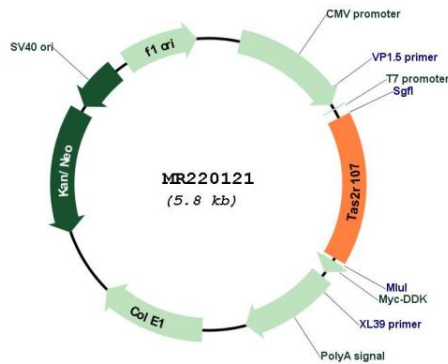
UniProt ID: [Q7M725](#)

Cytogenetics: 6 63.49 cM

MW: 35.9 kDa

Gene Summary: Putative taste receptor which may play a role in the perception of bitterness. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR220121