

Product datasheet for **RR209551**

Tas2r118 (NM_023994) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tas2r118 (NM_023994) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tas2r118
Synonyms:	T2R3; Tas2r16
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR209551 representing NM_023994 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTGCCAACCAAGTCACCATCTTCTATCATCATGTATGTGCTTGAGTCCTTAGTCATAATTGTGC
 AAAGTTGCACAACGGTTGCAGTGCTGTTTCAGAGAGTGGATGCACTTTCAAAGACTGTCGCCGGTGGAAAT
 AATTCTCATCAGCCTGGGCATTTACATTTCTGTCTACAGTGACATCGATGCTGTACAACCTTTGGTACC
 TACTCTAGGCCTGTCCTTTATTTTGAAGGTATCGGTCGTCTGGGAGTTCATGAACGTTTTGACATTCT
 GGCTAACCAAGTTGCTTGCTGTCCTCTACTGTGTCAAGGTCTCTCCTTCTCTACCCCGCTTCCTCTG
 GCTGAGGTTGAAAATTTTGAAGTGGTTCTCTGGTTGCTATTGGGCGCTCTGATAGCTTCTGTGTTGTCA
 ATCATCCCTTCTGTTGTTAAATATCATATCCAGATGGAATTACTACCCCTAGATCATTTACCCAAAAACA
 GTTCTTTGATTCTAAGACTGCAATGTTTCGAGTGGTATTTTCTAATCCTTTCAAATGATTGGGTTTGG
 CGTTCCTTTCTCGTGTTCTGATTTCTATCATCTTACTCACAGTCTCGCTGGTCCAGCATTGGGGGCAG
 ATGAAACACTACAGCAGCAGCAGCTCCAGCCTGAGAGCTCAGTGCACTGTTCTGAAGTCTCTGCCACCT
 TCTTCATCTTCTTACATCCTATTTCTGACTATAGTCGTCTCCTTTATTGGCACCGTGTGTTGATAAGAA
 GTCATGGTTCTGGGCTGCGAAGCTGTCATCTATGGTTTAGTCTGTATTCACTTCCCTGATGATG
 AGCAACCTACACTGAAAAAGCACTCAGGTTGCAGTTCTGGAGCCCAGAGTCTTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RR209551 representing NM_023994
 Red=Cloning site Green=Tags(s)

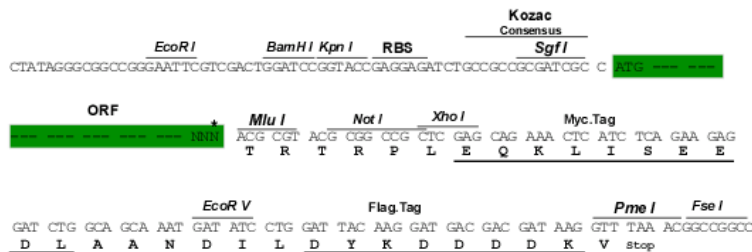
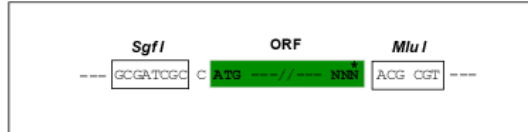
MVPTQVTIFSIIIMYVLESIVIIQSCCTTVAVLFREWMHFQRLSPVEIILISLGISHFCLQWTSMLYNFGT
 YSRPVLLFWKVSVVWEFMNVLTFWLTSLLAVALYCVKVSSFHPVFLWRLKILKLVWLLLGALIASCLS
 IIPSVVKYHIQMELLTDHLPKNSSLILRLQMFWEYFSNPFKMIGFGVPFLVFLISIIILLTVSLVQHWGQ
 MKHYSSSSSLRAQCTVLKSLATFFIFFTSYFLTIVVSFIGTVFDKKSFWVCEAVIYGLVCIHFTSLMM
 SNPTLKKALRLQFWSPSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_023994

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:

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_023994.1](#), [NP_076484.1](#)

RefSeq Size: 900 bp

RefSeq ORF: 900 bp

Locus ID: 78980

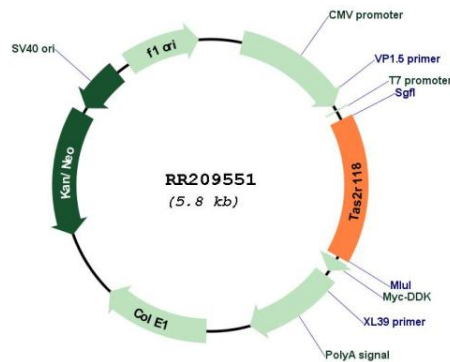
UniProt ID: [Q9JKU0](#)

Cytogenetics: 4q22

MW: 34.6 kDa

Gene Summary: member of a family of mammalian taste receptors that couple with the G protein alpha subunit gustducin; may play a role in bitter taste perception [RGD, Feb 2006]

Product images:



Circular map for RR209551