

Product datasheet for **MR208887**

Tas1r1 (BC070448) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tas1r1 (BC070448) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tas1r1
Synonyms:	TR1, T1r1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR208887 representing BC070448
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTTTTCTGGGCAGCTCACCTGCTGCTCAGCCTGCAGCTGGCCGTTGCTTACTGCTGGGCTTTACAGT
 GCCAAAGGACAGAATCCTCTCCAGGTTTACGCCTCCCTGGGACTTCTCCTGGCAGGCCTGTTCTCCCT
 CCATGCTGACTGTCTGCAGGTGAGACACAGACCTCTGGTGACAAGTTGTGACAGGTCTGACAGCTTCAAC
 GGCCATGGCTATCACCTTTCCAAGCCATGCGGTTACCGTTGAGGAGATAAACTCCACAGCTCTGC
 TTCCAACATCACCTGGGGTATGAAGTGTATGACGTGTGCTCAGAGTCTTCCAATGTCTATGCCACCT
 GAGGGTGTCTGCCAGCAAGGGACAGGCCACCTAGAGATGCAGAGAGATCTTCCGAACCACTCTCCAAG
 GTGGTGGCACTATTGGGCTGATAACTGACCAGCTGTACCAGTGTGCCCTGCTGAGCCCTTTTC
 TGATGCCCTGGTCAGCTATGAGGCGAGCAGCGTATCCTCAGTGGGAAGCGCAAGTTCCCGTCTTCTT
 GCGCACCATCCCAGCGATAAGTACCAGGTGGAAGTCATAGTGGCGCTGCTGCAGAGCTTCGGCTGGGTC
 TGATCTCGCTCGTTGGCAGCTATGGTGACTACGGGCAGCTGGGCGTACAGGCGCTGGAGGAGCTGGCCA
 CTCCACGGGGCATCTGCGTCGCCTTCAAGGACGTGGTGCCTCTCTCCGCCAGGCGGGTGACCCAAGGAT
 GCAGCGCATGATGCTGCGTCTGGCTCGAGCCAGGACCACCGTGGTGGTCTTCTCTAACCGGCACCTG
 GCTGGAGTGTCTTACAGTCTGTGGTCTGGCCAACTGACTGGCAAAGTGTGGATCGCTCCGAAGACT
 GGGCCATCTCCACGTACATACCAATGTGCCGGGATCCAGGGCATTGGGACGGTGTGGGGTGGCCAT
 CCAGCAGAGACAAGTCCCTGGCTGAAGGAGTTTGAAGAGTCTATGTCCAGGCAGTGTGGGTGCTCCC
 AGAACTTGCCAGAGGGGCTCTGGTGGCCTAACAGCTGTGCAGGGAGTGTACAGCTTTCACGACAT
 GGAACATGCCCGAGCTTGGAGCCTTCCATGAGCGCTGCCTACAATGTGTATGAGGCTGTGTATGCTGT
 GGCCACGGCCTCCACCAGCTCCTGGGATGTAACCTCTGGGACCTGTGCCAGAGGCCAGTCTACCCCTGG
 CAGCTTCTCAGCAGATCTACAAGTGAATTTCTTCTACATAAGAAGACTGTAGCATTGATGACAAGG
 GGGACCTCTAGGTTATTATGACATCATCGCTGGGACTGGAATGGACCTGAATGGACCTTTGAGGTCAT
 TGGTTCTGCCTACTGTCTCCAGTTCATCTAGACATAAATAAGACAAAAATCCAGTGGCAGCGGAAGAAC
 AATCAGGTAATGGGACAAGGTCGCTCACCAGGTGACTGCTTTGTTACCAGAATCTGGGGAGTGTGCGAA
 CCCAGAGCAGGATGGGGCCCCACACATCAGGCTACCTCAGGTCTGCAGTCTGCCAGGGATGCCAGCTGC
 AGTGTGTCAAACAGATGTCGGAGAGGGGACCTGGAGGGCAGTGGCACAGATCCCTTCTCAGTCTCC
 CTG

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208887 representing BC070448
 Red=Cloning site Green=Tags(s)

MLFWAAHLLLSLQLAVAYCWFASFQRTESSPGFSLPGDFLLAGLFSLHADCLQVRHRPLVTSRDRSDFN
 GHGYHLFQAMRFTVEEINNSTALLPNITLGYELYDVCSESSNVYATLRVLAQQGTGHLEMQRDLRNHSSK
 VVALIGPDNDHAVTTAALLSPFLMPLVSYEASSVILSGKRKFPFLRTIPSDKYQVEVIVRLLQSFQWV
 WISLVGSYGDYQQLGVQALEELATPRGICVAFKDVVPLSAQAGDPRMQRMMLRLARARTVVVVFSNRHL
 AGVFFRSVVLANLTGKVIASEDWAISTYITNVPGIQGIQIGTVLGVAIQQRQVPLKEFEESYVQAVMGAP
 RTCPEGSWCGTNQLCRECHAFTTWNMPELGAFSMAAYNVYEAVYAVAHGLHQLLCTSGTCARGPVYPW
 QLLQQIYKVNFLHKKTVAFDDKGDPLGYDIIAWDWNGPEWTFEIVGSASLSPVHLDINKTKIQWHGKN
 NQVMGQGRSPGDCFVTRIWGMRTQSRMGPHTSGLRSVAVLPGMPAAVLSNRCCRGLDLESGTDPSSQSP
 L

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

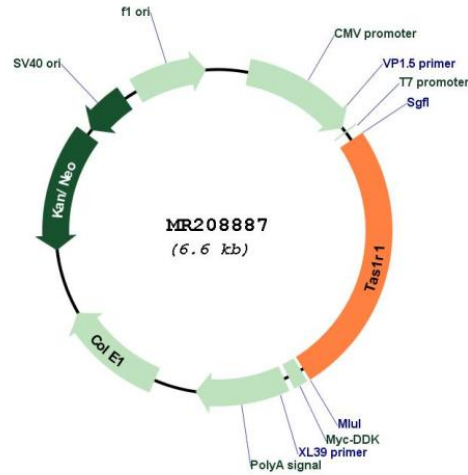
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: BC070448
 ORF Size: 1683 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:	BC070448
RefSeq Size:	4723 bp
RefSeq ORF:	1685 bp
Locus ID:	110326
Cytogenetics:	4 82.83 cM
MW:	173.1 kDa
Gene Summary:	Putative taste receptor. TAS1R1/TAS1R3 responds to the umami taste stimulus (the taste of monosodium glutamate) and also to most of the 20 standard L-amino acids, but not to their D-enantiomers or other compounds. Sequence differences within and between species can significantly influence the selectivity and specificity of taste responses.[UniProtKB/Swiss-Prot Function]