

Product datasheet for **MG208887**

Tas1r1 (BC070448) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tas1r1 (BC070448) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tas1r1
Synonyms:	TR1, T1r1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG208887 representing BC070448
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTTTTCTGGGCAGCTCACCTGCTGCTCAGCCTGCAGCTGGCCGTTGCTTACTGCTGGGCTTTACGCT
 GCCAAAGGACAGAATCCTCTCCAGGTTTACGCCTCCCTGGGACTTCTCCTGGCAGGCCTGTTCTCCCT
 CCATGCTGACTGTCTGCAGGTGAGACACAGACCTCTGGTGACAAGTTGTGACAGGTCTGACAGCTTCAAC
 GGCCATGGCTATCACCTCTTCCAAGCCATGCGGTTACCGTTGAGGAGATAAACTCCACAGCTCTGC
 TTCCCAACATCACCTGGGGTATGAAGTGTATGACGTGTGCTCAGAGTCTTCCAATGTCTATGCCACCT
 GAGGGTGTCTGCCAGCAAGGGACAGGCCACTAGAGATGCAGAGAGATCTTCGCAACCACTCTCCAAG
 GTGGTGGCACTATTGGGCTGATAACTGACCAGCTGTACCAGTGTGCCCTGCTGAGCCCTTTTC
 TGATGCCCTGGTCAGCTATGAGGCGAGCAGCGTATCCTCAGTGGGAAGCGCAAGTTCCCGTCTTCTT
 GCGCACCATCCCCAGCGATAAGTACCAGGTGGAAGTCATAGTGGCGCTGCTGCAGAGCTTCGGCTGGGTC
 TGATCTCGCTCGTTGGCAGCTATGGTGACTACGGCAGCTGGGCGTACAGGCGCTGGAGGAGCTGGCCA
 CTCCACGGGGCATCTGCGTCGCCTTCAAGGACGTGGTGCCTCTCTCCGCCAGGCGGGTGACCCAAGGAT
 GCAGCGCATGATGCTGCGTCTGGCTCGAGCCAGGACCACCGTGGTGGTCTTCTCTAACCGGCACCTG
 GCTGGAGTGTCTTACAGTCTGTGGTGTGGCCAACTGACTGGCAAAGTGTGGATCGCTCCGAAGACT
 GGGCCATCTCCACGTACATACCAATGTGCCGGGATCCAGGGCATTGGGACGGTGTGGGGTGGCCAT
 CCAGCAGAGACAAGTCCCTGGCCTGAAGGAGTTTGAAGAGTCTATGTCCAGGCAGTGTGGGTGCTCC
 AGAATTGCCAGAGGGGTCTGGTGGCCTAACCAGCTGTGCAGGGAGTGTACAGCTTTCACGACAT
 GGAACATGCCCGAGCTTGAGCCTTCTCATGAGCGCTGCCTACAATGTGTATGAGGCTGTGTATGCTGT
 GGCCACGGCCTCCACCAGCTCCTGGGATGTACCTCTGGGACCTGTGCCAGAGGCCAGTCTACCCCTGG
 CAGCTTCTCAGCAGATCTACAAGTGAATTTCTTCTACATAAGAAGACTGTAGCATTGATGACAAGG
 GGGACCTCTAGGTTATTATGACATCATCGCTGGGACTGGAATGGACCTGAATGGACCTTTGAGGTCAT
 TGGTCTCGCTCACTGTCTCCAGTTCATCTAGACATAAATAAGACAAAAATCCAGTGGCAGCGGAAGAAC
 AATCAGGTAATGGGACAAGGTCGCTCACCAGGTGACTGCTTTGTTACCAGAATCTGGGGAGTGTGCGAA
 CCCAGAGCAGGATGGGGCCCCACACATCAGGCTACCTCAGGTCTGCAGTCTGCCAGGGATGCCAGCTGC
 AGTGTGTCAAACAGATGTCGGAGAGGGGACCTGGAGGGCAGTGGCACAGATCCCTTCTCAGTCTCC
 CTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG208887 representing BC070448
 Red=Cloning site Green=Tags(s)

MLFWAAHLLLSLQLAVAYCWAFCQRTESPFGSLPGDFLLAGLFSLHADCLQVRHRPLVTSRDRSDFN
 GHGYHLFQAMRFTVEEINNSTALLPNITLGYELYDVCSESSNVYATLRVLAQQGTGHLEMQRDLRNHSSK
 VVALIGPDNTDHAVTTAALLSPFLMPLVSYEASSVILSGKRKFPFLRTIPSDKYQVEVIVRLLQSFQWV
 WISLVGSYGDYGLGVQALEELATPRGICVAFKDVVPLSAQAGDPRMQRMMLRLARARTVVVVVFSNRHL
 AGVFFRSVVLANLTGKVIASEDWAIISTYITNVPGIQIGITVLGVAIQQRQVPGLKEFEESYVQAVMGAP
 RTCPEGSWCGTNQLCRECHAFTTWNMPELGAFSMSAAYNVYEAVYAVAHGLHQLLGCTSGTCARGPVYPW
 QLLQIYKVNFLHKKTVAFDDKGDPLGYDIIAWDWNGPEWTFEIVGSASLSPVHLDINKTKIQWHGKN
 NQVMGQGRSPGDCFVTRIWGMRTQSRMGPHTSGLRSVAVLPGMPAAVLSNRCRRGDLEGSCTDPSSQSP
 L

TRTRPLE - GFP Tag - V

Restriction Sites:

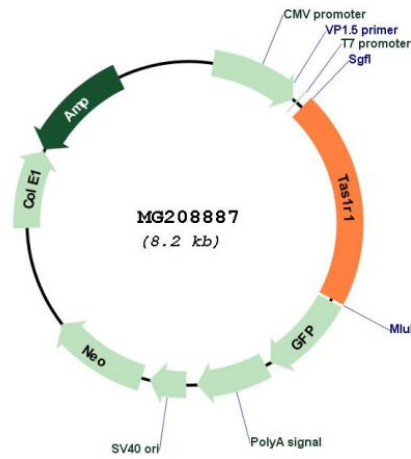
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: BC070448
 ORF Size: 1685 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
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]