

Product datasheet for **MG223642**

Tas1r1 (NM_031867) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tas1r1 (NM_031867) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tas1r1
Synonyms:	Gpr70; T1r1; TR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG223642 representing NM_031867
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTTTTCTGGGCAGCTCACCTGCTGCTCAGCCTGCAGCTGGCCGTTGCTTACTGCTGGGCTTTACAGT
 GCCAAAGGACAGAATCCTCTCCAGGTTTCAGCCTCCCTGGGACTTCTCCTGGCAGGCCTGTTCTCCCT
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 TTCCCAACATCACCTGGGGTATGAAGTGTATGACGTGTGCTCAGAGTCTTCCAATGTCTATGCCACCT
 GAGGGTGTCTGCCAGCAAGGGACAGGCCACTAGAGATGCAGAGAGATCTTCGCAACCCTCTCCAAG
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 CTGCCGTCAGAACTCAACAACACAGAACAATTTAGGCCTCCATCCAGGACTACACGAGGCGCTGCGGC
 ACTACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG223642 representing NM_031867
Red=Cloning site Green=Tags(s)

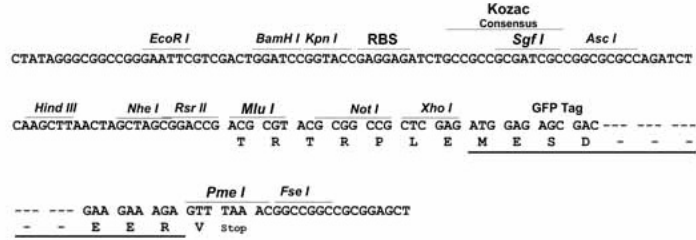
MLFWAAHLLLSLQLAVAYCWFSCQRTESSPGFSLPGDFLLAGLFSLHADCLQVRHRPLVTSCDRSDSFN
GHGYHLFQAMRFTVEEINNSTALLPNITLGYELYDVCSESSNVYATLRVLAQQGTGHLEMQRDLRNHSSK
VVALIGPDNTDHAVTTAALLSPFLMPLVSYEASSVILSGKRKFPFLRTIPSDKYQVEVIVRLLQSFQGWV
WISLVGSYGDYQQLGVQALEELATPRGICVAFKDVVPLSAQAGDPRMQRMLRLARARTTVVVVFSNRHL
AGVFFRSVVLANLTGKVIASEDWAISTYITNVPGIQGIGTVLGVAIQQRQVPGLKEFEESYVQAVMGAP
RTCPEGSWCGTNQLCRECHAFTTWNMPELGAFSMSAAYNVYEAVYAVAHGLHQLLGCTSGTCARGPVYPW
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NQVPVSVCTRDCLEGGHRLVMGSHHCCFECMPCEAGTFLNTESELHTCQPCGTEEWAPEGSSACFSRTVEF
LGWHEPISLVLLAANTLLLLLLIGTAGLFAWRLHTPVVRSAGGRLCFLMLGSLVAGSCSLYSFFGKPTVP
ACLLRQPLFSLGFAIFLSCLTIRSFQLVIFKFSTKVPTFYHTWAQNHGAGIFVIVSSTVHLFLCLTWLA
MWTPTREYQRFPHLVILECTEVNSVGFLVAFAHNILLSISTFVCSYLGKELPENYNEAKCVTFSLLLH
FVSWIAFFTMSIYQGSYLPVNVLAGLATLSGGFSGYFLPKCYVILCRPELNTEHFQASIQDYTRRCG
TT

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN:	NM_031867
ORF Size:	2526 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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_031867.2 , NP_114073.1
RefSeq Size:	2814 bp
RefSeq ORF:	2529 bp
Locus ID:	110326
UniProt ID:	Q99PG6
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]