

Product datasheet for **MR223642**

Tas1r1 (NM_031867) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tas1r1 (NM_031867) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tas1r1
Synonyms:	Gpr70; T1r1; TR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR223642 representing NM_031867
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTTTTCTGGGCAGCTCACCTGCTGCTCAGCCTGCAGCTGGCCGTTGCTTACTGCTGGGCTTTACAGT
 GCCAAAGGACAGAATCCTCTCCAGGTTTCAGCCTCCCTGGGACTTCTCCTGGCAGGCCTGTTCTCCCT
 CCATGCTGACTGTCTGCAGGTGAGACACAGACCTCTGGTGACAAGTTGTGACAGGTCTGACAGCTTCAAC
 GGCCATGGCTATCACCTCTTCCAAGCCATGCGGTTACCGTTGAGGAGATAAACTCCACAGCTCTGC
 TTCCCAACATCACCTGGGGTATGAAGTGTATGACGTGTGCTCAGAGTCTTCCAATGTCTATGCCACCT
 GAGGGTGTCTGCCAGCAAGGGACAGGCCACTAGAGATGCAGAGAGATCTTCGCAACCACTCTCCAAG
 GTGGTGGCACTATTGGGCTGATAACTGACCAGCTGTACCAGTGTGCCCTGCTGAGCCCTTTTC
 TGATGCCCTGGTCAGCTATGAGGCGAGCAGCGTATCCTCAGTGGGAAGCGCAAGTTCCCGTCTTCTT
 GCGCACCATCCCCAGCGATAAGTACCAGGTGGAAGTCATAGTGGCGCTGTGCAGAGCTTCGGCTGGGTC
 TGATCTCGCTCGTTGGCAGCTATGGTGACTACGGGCAGCTGGGCGTACAGGCGCTGGAGGAGCTGGCCA
 CTCCACGGGGCATCTGCGTCGCCTTCAAGGACGTGGTGCCTCTCTCCGCCAGGCGGGTGACCCAAGGAT
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 GCTGGAGTGTCTTACAGTCTGTGGTGTGGCCAACTGACTGGCAAAGTGTGGATCGCCTCCGAAGACT
 GGGCCATCTCCACGTACATACCAATGTGCCGGGATCCAGGGCATTGGGACGGTGTGGGGGTGGCCAT
 CCAGCAGAGACAAGTCCCTGGCCTGAAGGAGTTTGAAGAGTCTATGTCCAGGCAGTGTGGGTGCTCC
 AGAAGTGGCCAGAGGGTCTGGTGGCCTAACCAGCTGTGCAGGGAGTGTACAGCTTTCACGACAT
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 AATCAGGTGCCTGTGTAGTGTACCAGGACTGTCTCGAAGGGCACCAGGTTGGTGTGTTGCC
 ACCACTGCTGCTCGAGTGCATGCCCTGTGAAGCTGGGACATTTCTCAACACGAGTGTGCTTACACCTG
 CCAGCCTGTGGAACAGAAGAATGGGCCCTGAGGGGAGCTCAGCCTGCTTCTCACGCACCGTGGAGTTC
 TTGGGGTGGCATGAACCCATCTCTTTGGTGTATTAGCAGCTAACACGCTATTGCTGCTGCTGATTG
 GACTGCTGGCCTGTTTGCCTGGCGTCTCACACGCTTGTGAGGTGAGTGGGGTAGGCTGTGCTT
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 GCGTGCTGCTGCGTCAGCCCCTCTTTCTCTCGGGTTTGCCATTTCTCTCCTGTCTGACAATCCGCT
 CCTTCCAAGTGGTCATCATCTTCAAGTTTTCTACCAAGTACCCACATTCTACCACATTTGGGCCAAAA
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 ATGTGGACCCACGGCCACCAGGAGTACCAGCGCTTCCCCATCTGGTATTCTTGTGACACAGAGG
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 CTGCCGTCAGAACTCAACAACACAGAACAATTTAGGCCTCCATCCAGGACTACACGAGGCGCTGCGGC
 ACTACC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR223642 representing NM_031867
 Red=Cloning site Green=Tags(s)

MLFWAAHLLL SLQLAVAYCWFSCQRTESSPGFSLPGDFLLAGL FSLHADCLQVRHRPLVTSCDRSDSFN
 GHGYHLFQAMRFVVEEINNSTALLPNITLGYEL YDVCSESSNVYATLRVLAQQGTGHLEMQRDLRNHSSK
 VVALIGPDNTHAVTTAALLSPFLMPLVSYEASSVILSGKRKFPFSLRTIPSDKYQVEVIVRLQLQSFQWV
 WISLVGSYGDYQQLGVQALEELATPRGICVAFKDVVPLSAQAGDPRMQRMMLRLARARTTVVVVFSNRHL
 AGVFFRSVVLANLTGKVWIASEDWAISTYITNVPGIQGIGTVLGVAIQQRQVPLKEFEESYVQAVMGAP
 RTCEPGSWCGTNQLCRECHAFTTWNMPELGAFSMSAAYNVYEAVYAVAHGLHQLLGCTSGTCARGPVYPW
 QLLQQIYKVNFLHKKTVAFDDKGDPLGYDIIAWDWNPEWTFEVIQSASLSPVHLDINKTKIQWHGKN
 NQVPVSVCTRDCLEGHRLVMGSHHCCFECMPCEAGTFLNTSELHTCQPCGTEEWAPEGSSACFSRTVEF
 LGWHEPISLVLLAANTLLLLLIGTAGLFAWRLHTPVVRSAGGRLCFLMLGSLVAGSCSLYSFFGKPTVP
 ACLLRQPLFSLGFAIFLSCLTIRSFQLVIFKFSTKVPTFYHTWAQNHGAGIFVIVSSTVHLFLCLTWLA
 MWTPRPTREYQRFPHLVILECTEVNSVGFVAFVHNILLSISTFVCSYLKELPENYNEAKCVTFSLLLH
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 TT

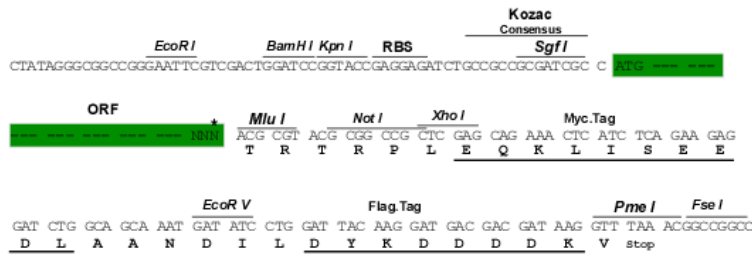
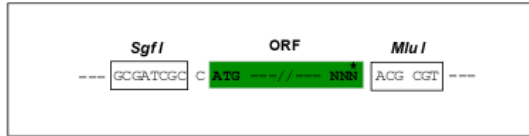
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9003_f12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

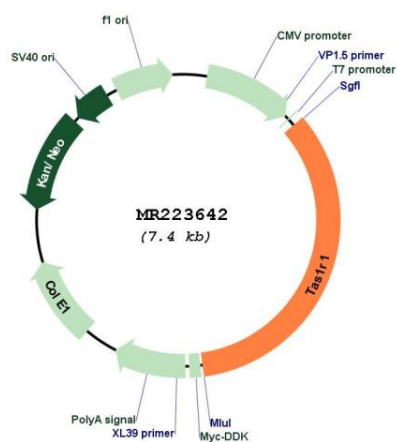
Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN:	NM_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
MW:	93.9 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]

Product images:



Circular map for MR223642