

Product datasheet for **MR222936**

Tgm2 (NM_009373) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tgm2 (NM_009373) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tgm2
Synonyms:	G[a]h; TG2; TGase2; tTG; tGGas
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>MR222936 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCAGAGGAGCTGCTCCTGGAGAGGTGTGATTTGGAGATT**CAGGCCAATGGCCGTGACCACCACACGG**
CCGACCTATGCCAAGAGAACTGGTGCTGCGTCGTGGTCAGCGCTTCCGGCTGACTCTG**ACTTCGAGGG**
CCGTGGCTACGAGGCCAGCGTGGACAGCCTCACGTTCGGTGCTGTGACCGGCCAGATCC**AGTGAAGAG**
GCAGGGACCAAGGCCGCTTCTCACTGTCTGACAATGTGGAGGAGGGATCTTGGT**CAGCCTCAGTCTGG**
ACCAACAGGACAATGTCTCTCGCTACAGCTCTGCACCCAGCCAATGCTCCTATTGGCCTGTACCGTCT
CAGCCTAGAGGCTTCTACTGGCTACCAGGGCTCCAGCTTTGTGCTGGGCCACTTCATCCTGCTTACAAT
GCCTGGTCCCAGCCGATGATGTGTACCTAGACTCAGAGGAGGAGCGACGGGAATATGTCCTTACGCAAC
AGGGCTTCATCTACCAAGGCTCTGTCAAGTTCAAGAGTGTGCCTTGGAACTTTGGGCAGTTCGAGGA
TGGAATCTGGATACCTGCCTGATGCTCTTGGATATGAACCCAAAGTTCCTGAAGAACC**GTAGTCGGGAC**
TGCTCACGCCGACGAGTCCCATCTATGTGGGCCGCGTGGT**GAGCGCCATGGTCAACTGCAATGATGACC**
AGGGTGTGCTTCTGGGCCGCTGGGACAACAACTATGGGGATGGTATCAGTCCCATGGCCTGGATTGGCAG
TGTGGACATTCTGCGGCCTGGAAGGAACACGGCTGTCAGCAAGTGAAGTACGGGCA**GTGCTGGGTGTT**
GCAGCGGTGGCCTGCACAGTGTGCGGTGCCTCGGCATCCCTACCAGAGTGGTGACCAACTACA**ACTCCG**
CCCACGACCAGAACAGCAACCTGCTCATCGAGTACTTCCGAAATGAGTTCGGGGAGCTGGAGAGCAACA
GAGCGAGATGATCTGGAACCTCCACTGCTGGGTGGAGTCTGGATGAC**AGGCCAGACCTACAGCCGGGC**
TATGAGGGGTGGCAGGCCATTGACCCACACCACAGGAGAAGAGCGAAGGGACATACTGTTGTGGCCAG
TCTCAGTGCAGCCATCAAGGAGGGAGACCTGAGTACCAAGTATGATGCACCC**TTCGTGTTCGCGAGT**
CAACGCTGATGTGGTGGACTGGATCCGGCAGGAAGATGGGTCTGTGCTCAAATCCATCAACCGTTCCTTG
GTCGTGGGGCAGAAGATCAGCACTAAGAGTGTGGGCCGTGATGACCGGGAGGACATCACCCATACCTACA
AGTACCCAGAGGGGTACCCGAGGAGAGGGAAGTCTTACCAAGGCCAACCACTGAACAAACTGGCAGA
GAAAGAGGAGACAGGGGTGGCCATGCGCATCCGAGTGGGGGACAGTATGAGCATGGGCAACGACTTCGAC
GTGTTTGGCCACATCGGCAACGACACCTCGGAGACTCGAGAGTGTGCTCTCTGCTCTGTGCCCGCACTG
TCAGCTACAACGGGGTGTGGGGCCGAGTGTGGCACTGAGGACATCAACCTGACCCTGGATCCCTACTC
TGAGAACAGCATCCCACTTCGAATCCTCTACGAGAAGTACAGCGGGTGCCTGACAGAGTCAAACCTCATC
AAGGTGCGGGGCCTTCTCATCGAACCAAGCTGCCAACAGCTACCTGCTGGCTGAGAGAGATCTCTACCTGG
AGAATCCCGAAATCAAGATCCGGTCTGGGGAGAACCAAGCAAACCGCAAACCTGGTGGCTGAGGTGTC
CCTGAAGAACCCACTTCCGATCCCTGTATGACTGCATCTTCACTGTGGAGGGGCTGGCCTGACCAAG
GAGCAGAAGTCTGTGGAAGTCTCAGACCCGGTGCCAGCGGGCGATTTGGTCAAGGCACGGGT**CGACCTGT**
TCCCGACTGATATTGGCCTCCACAAGCTGGTGGTGA**ACTTCCAGTGTGACAAGCTGAAGTCGGTGAAGGG**
TTACCGGAATGTTATCATCGGCCCGGCC

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

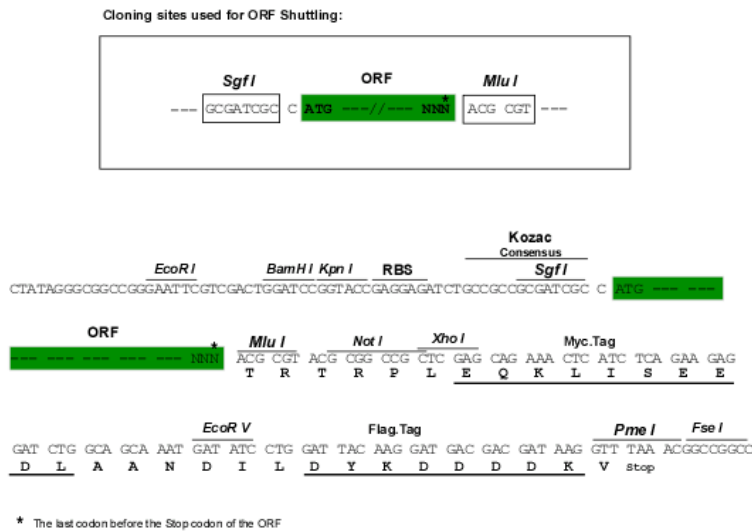
Protein Sequence: >MR222936 protein sequence
 Red=Cloning site Green=Tags(s)

MAEELLERCdleIQANGRDHHTADLCQEKLVLRGQRFRLTLYFEGRGYEASVDSLTFGAVTGPDPSEE
 AGTKARFSLSDNVEEGSWSASVLDQQDNVLSLQLCTPANAPIGLYRLSLEASTGYQGSFVLGHFILLYN
 AWCpADDVYLDSEERREYVLTQQGFIYQGSVKFIKSVPWNFGQFEDGILDTCMLLDMNPkFLKNRSRD
 CSRSSPIYVGRVVSAMVNCNDDQGVLLGRWDNNYGDGISPMAWIGSVDILRRWKEHGcQQVkyGQCWVF
 AAVACTVLRCLGIPTRVVTNYSaHDQNSNLLIEYFRNEFGELSNKSEMIWNFHcWVESWMTRPDLQPG
 YEGWQAIPTPQEKSEGTYCCGPVSVRAIkeGDLSTKYDAPFVFAEVNADVVDWIRQEDGSVLKSINRSL
 VVGQKISTKSVGRDDREDITHYKYPEGSPEEREVFTKANHLNKLAEKEETGVAMRIRVGDSSMGMGDFD
 VFAHIGNDTSETRECRLLLcARTVSyNGVLGPECGTEDINLTDPYSENSIPLRILYekYSGCLTESNLI
 KVRGLLIEPAANSYLLAERDLYLENPEIKIRVLGEPKQNRKLVAEVS LKNPLSDPLYDCIFTVEGAGLTK
 EQKsVEVSDPVPAGDLVKARVDLFPTDIGLHKL VVNFQCDKLKSVKGYRNVIIGPA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_009373

ORF Size: 2061 bp

OTI Disclaimer: 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.

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_009373.3](#), [NP_033399.1](#)

RefSeq Size: 3549 bp

RefSeq ORF: 2061 bp

Locus ID: 21817

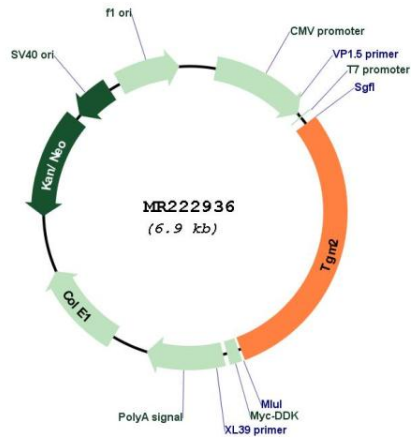
UniProt ID: [P21981](#)

Cytogenetics: 2 78.72 cM

MW: 77.1 kDa

Gene Summary: Catalyzes the cross-linking of proteins and the conjugation of polyamines to proteins. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR222936