

## Product datasheet for **MG222936**

### **Tgm2 (NM\_009373) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Tgm2 (NM_009373) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tgm2
Synonyms:	G[a]h; TG2; TGase2; tTG; tGAs
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG222936 representing NM\_009373  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGGCAGAGGAGCTGCTCCTGGAGAGGTGTGATTTGGAGATTGAGCCAATGGCCGTGACCACCACACGG  
 CCGACCTATGCCAAGAGAACTGGTGTGCGTCGTGGTACAGCGCTTCCGGCTGACTCTGACTTCGAGGG  
 CCGTGGCTACGAGGCCAGCGTGGACAGCCTCACGTTCCGGTGTGTGACCGGCCAGATCCCAAGTGAAGAG  
 GCAGGGACCAAGGCCCGCTTCTCACTGTCTGACAAATGTGGAGGAGGGATCTTGGTCAGCCTCAGTGTGG  
 ACCAACAGGACAATGTCTCTCGCTACAGCTCTGCACCCAGCCAATGCTCCTATTGGCCTGTACCGTCT  
 CAGCCTAGAGGCTTCTACTGGCTACCAGGGCTCCAGCTTTGTGCTGGGCCACTTCATCCTGCTCTACAA  
 GCCTGGTGGCCAGCCGATGATGTGTACCTAGACTCAGAGGAGGAGCGACGGGAATATGTCCTTACGCAAC  
 AGGGCTTCATCTACCAAGGCTCTGTCAAGTTCATCAAGAGTGTGCCTTGGAACTTTGGGCAGTTCGAGGA  
 TGGAACTCTGGATACCTGCCTGATGCTCTTGGATATGAACCCCAAGTTCCTGAAGAACCCTAGTCGGGAC  
 TGCTCACGCCGACGAGTCCCATCTATGTGGGCCGCGTGGTGGAGCCATGGTCAACTGCAATGATGACC  
 AGGGTGTGCTTCTGGGCCGCTGGGACAACAATATGGGGATGGTATCAGTCCCATGGCCTGGATTGGCAG  
 TGTGGACATTCTGCGGCCTGGAAGGAACACGGCTGTGAGCAAGTGAAGTACGGGACGTGCTGGGTGTTT  
 GCAGCGGTGGCCTGCACAGTGTGCGGTGCCTCGGCATCCCTACCAGAGTGGTGACCAACTACAACCTCCG  
 CCCACGACCAGAACAGCAACCTGCTCATCGAGTACTTCCGAAATGAGTTCGGGGAGCTGGAGAGCAACAA  
 GAGCGAGATGATCTGGAACCTCCACTGCTGGGTGGAGTCTGGATGACCAGGCCAGACCTACAGCCGGGC  
 TATGAGGGGTGGCAGGCCATTGACCCACACCACAGGAGAAGAGCGAAGGGACATACTGTTGTGGCCAG  
 TCTCAGTGGCAGCCATCAAGGAGGGAGACCTGAGTACCAAGTATGATGCACCCCTTCGTGTTTGGCAGAG  
 CAACGCTGATGTGGTGGACTGGATCCGGCAGGAAGATGGGTCTGTGCTCAAATCCATCAACCGTTCCTTG  
 GTCGTGGGGCAGAAGATCAGCACTAAGAGTGTGGGCCGTGATGACCGGGAGGACATCACCCATACCTACA  
 AGTACCCAGAGGGGTACCCGAGGAGAGGGAAAGTCTTACCAAGGCCAACCACTGAACAAACTGGCAGA  
 GAAAGAGGAGACAGGGGTGGCCATGCGCATCCGAGTGGGGGACAGTATGAGCATGGGCAACGACTTCGAC  
 GTGTTTGGCCACATCGGCAACGACACCTCGGAGACTCGAGAGTGTGCTCTCCTGCTCTGTGCCCGCACTG  
 TCAGCTACAACGGGGTGTGGGGCCGAGTGTGGCACTGAGGACATCAACCTGACCCTGGATCCCTACTC  
 TGAGAACAGCATCCCACTTCGAATCCTCTACGAGAAGTACAGCGGGTGCCTGACAGAGTCAAACCTCATC  
 AAGGTGCGGGGCTTCTCATCGAACAGCTGCCAACAGCTACCTGCTGGCTGAGAGAGATCTCTACCTGG  
 AGAATCCCGAAATCAAGATCCGGGTCTGGGAGAACCAAGCAAAACCGCAAACCTGGTGGCTGAGGTGTC  
 CCTGAAGAACCCTTTCCGATCCCTGTATGACTGCATCTTCACTGTGGAGGGGCTGGCCTGACCAAG  
 GAGCAGAAGTCTGTGGAAGTCTCAGACCCGGTGCAGCGGGCGATTTGGTCAAGGCACGGGTGACCTGT  
 TCCCGACTGATATTGGCCTCCACAAGCTGGTGGTGAACCTCCAGTGTGACAAGCTGAAGTCGGTGAAGGG  
 TTACCGGAATGTTATCATCGGCCCGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG222936 representing NM\_009373  
 Red=Cloning site Green=Tags(s)

MAEELLERCdleIQANGRDHHTADLCQEKLVLRGQRFRLTYFEGRGYEA SVDSLTFGAVTGPDPSEE  
 AGTKARFSLSDNVEEGSWSASVLDQQDNVLSLQLCTPANAPIGLYRLSLEASTGYQGSFVLGHFILLYN  
 AWC PADDVYLDSEERREYVL TQQGFIYQGSVKF IKSVPWNFGQFEDGILDTCLMLLDMNPKFLKNRSRD  
 CSRSSPIYVGRVVSAMVNCNDDQGVLLGRWDNNYGDG I SPMAWIGSVDILRRWKEHGCGQVYKYGQCWVF  
 AAVACTVLRCLGIPTRVVTNYNSAHDQNSNLLIEYFRNEFGELSNKSEMIWNFHCVWESWMTRPDLQPG  
 YEGWQAI DPTPQEKSEGTYCCGPVSVRAIKEGDLSTKYDAPFVFAEVNADVVDWIRQEDGSLKSNRSL  
 VVGQKISTKSVGRDDREDITHYKYPEGSPEEREVFTKANHLNKLAEKEETGVAMRIRVGDMSMGNDFD  
 VFAHIGNDTSETRECRLLL CARTVSYNGVLGPECGTEDINL TDPYSENSIPLRILYKESGCLTESNLI  
 KVRGLLIEPAANSYLLAERDLYLENPEIKIRVLGEPKQNRKLVAEVSLKNPLSDPLYDCIFTVEGAGLTK  
 EQKSVESDPVPAGDLVKARVDLFPTDIGLHKL VVNFQCDKLSVKGYRNVIIGPA

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM\_009373

ORF Size: 2058 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](mailto: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

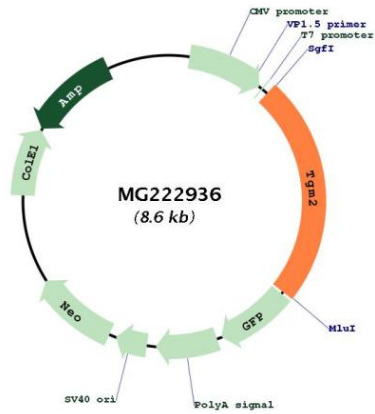
**Locus ID:** 21817

**UniProt ID:** [P21981](#)

**Cytogenetics:** 2 78.72 cM

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

Product images:



Circular map for MG222936