

## Product datasheet for **MR220503**

### Tgm5 (NM\_028799) Mouse Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids                     |
| Product Name:             | Tgm5 (NM_028799) Mouse Tagged ORF Clone |
| Tag:                      | Myc-DDK                                 |
| Symbol:                   | Tgm5                                    |
| Synonyms:                 | 2310007C07Rik; TGMX; TGx                |
| Mammalian Cell Selection: | Neomycin                                |
| Vector:                   | pCMV6-Entry (PS100001)                  |
| E. coli Selection:        | Kanamycin (25 ug/mL)                    |



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ORF Nucleotide  
Sequence:

>MR220503 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCCAAAGGCTGCCCCATCACAGGACTAGAGGTGGCCCTCACAGACCTCCAGAGCTCCCAGAACAATG  
TTCGGCACACACGGAAGAGATCAGTGTGACCGCTTGTGTCCGCCGAGGCCAGGCCTTCTCCATCAC  
CCTGTACTTTAAGAATCGGGCTTCCAGCCAGGCATGGACAGTATCATGTTTGTGGCTGAGACTGGACCC  
TTGCCCGATCTGGCCAAAGGGACTCGGGCAGTATTACAGCTTACAGGCAGTGGTGGCCAAAGCCCTGGA  
TTGCGTCCCTGGAAGCCAAAGGGCCAACCTCCCTGGAAGTGAAGCTCTGTGCTCTCCCATAGCAGCCGT  
GGGCCGATACCTCTGAAAATTCGGATCGACTCCTACCAGGGTTTTGTCAGTGCCTACCAGCTGGGGGAG  
TTTATCCTGCTTCAATCCCTGGTGCCAGCGGATGCAGTGTATCTGGAGAGTGAAGCCAGAGGCAGG  
AGTATGTTGTGAACGATTATGGCTTCACTACCAAGGGAGCAAGAGTTGGATCCGCCCATGCCCTGGAA  
TTATGGGCAGTTGAAGAGAATATCATAGATATCTGCTTGGAGCTGCTAGAGAAGAGCCTGAAGTCCAG  
GTTGACCCATCCACAGACTGTGCCCTTCGGGGAAGCCCTGTCTACACCAGCAGAGTTGTGTGTGCCATGA  
TAAACAGCAATGATGACAAACGGAGTGTCAATGGCAACTGGAGTGAAGTATATGTGGACGGCATCAACCC  
CGCGGAATGGACTGGCAGCGTGGCCATCCTTAAGCAGTGGCATGCCACAGGCTGCCAACCAGTGCCTAT  
GGGCAATGCTGGGTCTTTGCTGCTGTATGTGCACAGTGTGAGGTGCCTGGGGATCCCCACCCGCGTGA  
TCACCAACTTTGACTCTGGCCATGACACCGATGGGAACCTGATCATTGATGAGTATTACGACAACACAGG  
CAGGATTCTGGAGAATATGAAGAAGGACACCGTCTGGAATTTCCATGTGTGGAATGAGTGTGGATGGCA  
CGCAAGGACCTCCCTCCTGGATACGGAGGCTGGCAGGTGCTTGTGCTACACCTCAGGAACCAGCAATG  
GTCTCTACTGCTGTGGCCCTGCTTCTGTCAAAGCCATCAAAGAGGGAGAAATTGATCTAAACTATGACAC  
ACGCTTTGCATTTTCTATGGTGAATGCTGACTGCATGTCCTGGCTTGTCTACGGAGGGAAGGAGCAGAAA  
CTTCACCAGGACACAGCTACTGTTGGGAATTTTATCAGCACGAAGAGCATCCAGAGTGTGAGCGGGATG  
ACATCACCGAGAGCTACAAGTATGAAGAAGGTTCCCTTCAAGAGAGAGAGGTGTTCTAAAGGCTCTGCA  
GAAGCTACAGGCGACAAGGTCTCAAGGGCCTCACCAAGCAAACCTCCAATCCCTTCAGCTCTGTGCCACCA  
AGGCACAACAGTGCCAGGAGTCTGATTACCTTCCCTTCAACCCAGTGTGCTCCAGGTCTCTCTGA  
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CCATTCTGGCAGGACACAGCATTATCACACTGTTCCCTGAAGAAGAAAAGAGCTACCCTTGCAAAATCC  
TCTACTCACAGTACAGCCAGTATCTGTGACGGACAAGCTAATCCGCATCAGTGCCTGGGTGAAGAGAA  
GAACAGTCTGAGAAAATCCTGGTGAACAAGATCATCACCTTGACTTTCCCGGGCATCATGATTAATGTT  
CTAGGAGCTGCCTTTGTGAATCAGCCGCTCACAGTCCAGGTGGTCTTCTCAAACCCGCTCTCAGAGCCGG  
TTGAGGACTGTGTGCTGACCTTGAAGGAAGTGGTCTCTTTAGAAAGCAGCAGAGAGTTCTCATTGGCGT  
CCTCAAACCCATCACAAGCCAGCATCACTCTGAAGACCGTCCCCTTCAAGAGTGGCCAAAGGCAGATC  
CAAGCTAATCTGAGGAGCAATAGGTTTAAAGACATCAAGGGCTACAAGAACGTGTACGTAGACATTGGCT  
TA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR220503 protein sequence  
Red=Cloning site Green=Tags(s)

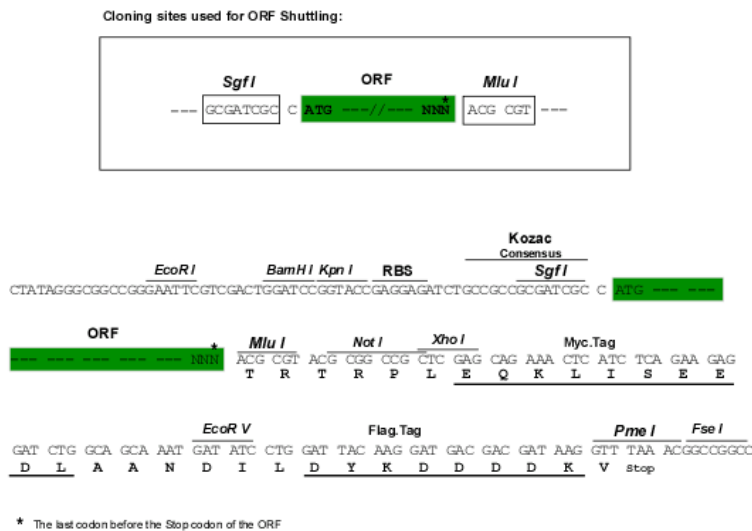
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MAQGCPITGLEVALTDLQSSQNNVRHHTEEISVDRLVVRGQAFSITLYFKNRGFQPGMDSIMFVAETGP
LPDLAKGTRAVFSFTGSGGPPSPWIASLEANRANSLEVSLCAPPAAVGRYLLKIRIDSYQGFVTAYQLGE
FILLFNPWCPADAVYLESEPQRQEYVVNDYGFYIQGSKSWIRPCPWNYGQFEENIIDICLELLEKSLNFQ
VDPSTDCALRGSVPVYTSRVVVCAMINSNDDNGVLDNGNWSSENYVDGINPAEWGTGSVAILKQWHATGCQPVRY
GQCWVFAAVMCTVMRCLGIPTRVITNFDSGHDTDGNLIIDEYDNTGRILENMKKDVTWNFHVWNECWMA
RKDLPPGYGGWQVLDATPQETSNGLYCCGPASVKAIKEGEIDLNYDTRFAFSMVNADCMSWL VYGGKEQK
LHQDTATVGNFISTKSIQSDERDDITESYKYEESLQEREVFLKALQKLQATRSQGP HQANSNPFSSVPP
RHNSARSPDSPSLQPSDVLQVSLKFELLNSPKMGQDINFVLLAVNMSPQFKDLKLNLSAQSLLDHGSPLV
PFWQDTAFITLFPEEEKSYPCILYSQYSQYLSTDKLIRISALGEEKNSPEKILVNKIITLTFPGIMINV
LGAAFVNQPLTVQVFSNPLSEPVEDCVLTLESGLFRKQQRVLI GVLKPHHKASITLKTVPFKSGQRQI
QANLRSNRFKDIKGYKNVYVDIGL
    
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_028799

**ORF Size:** 2175 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:**

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\\_028799.1](#), [NM\\_028799.2](#), [NP\\_083075.1](#)

**RefSeq Size:** 2531 bp

**RefSeq ORF:** 2175 bp

**Locus ID:** 74176

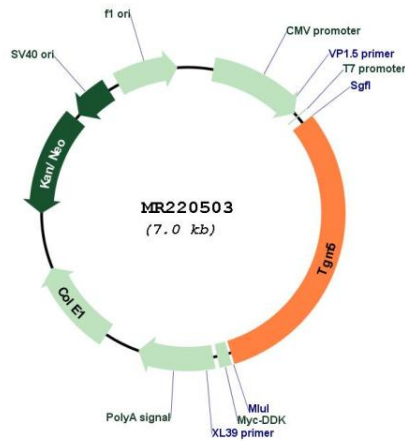
**UniProt ID:** [Q9D7I9](#)

**Cytogenetics:** 2 E5

**MW:** 81 kDa

**Gene Summary:** Catalyzes the cross-linking of proteins and the conjugation of polyamines to proteins. Contributes to the formation of the cornified cell envelope of keratinocytes (By similarity). [UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for MR220503