

## Product datasheet for **MC220389**

### **Tgm4 (NM\_177911) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Tgm4 (NM_177911) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tgm4
Synonyms:	9530008N10Rik; Eapa1; TGP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC220389 representing NM\_177911  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGACTCCAGGAATGTGCTTATCATTTACGCTGTGAATGTGGAGAGAAAGCTGAATGCTGCTGCCACC  
 ACACATCCGAGTACCAGACCAAGAAGCTCGTGTGCTGAGGCGTGGACAGATTCACCTCTGAAGGTGATACT  
 GAACCGACCTCTCCAACCTCAGGATGAGCTGAAGGTGACATTCACCTCCGGACAGAGAGACCCACCTAC  
 ATGGTGGAGCTTGATCCAGTGACATCCTACCGTTCTAAGGGCTGGCAGGTGAAGATTGCCAAACAGTCTG  
 GCGTAGAGGTTATTCTGAATGTCATCAGTGTGCTGACGCCGTAGTGGGAAGGTACAAGTGAGGGTGAA  
 CGAGTATAAAGCTGGAGTATTCTACCTTCTTTCAATCCGTGGTGTCTCAGACGACAGTGTCTTCATGGCT  
 AGTGAGGAAGAACGAGCAGAGTACATCCTTAATGACACCGGCTACATGTACATGGGTTTCGCCAAACAAA  
 TTAAGAGAAGCCCTGGACCTTTGGTCAGTTTGAGAAGCACATCCTGAGCTGCTGCTTCACTTGTGTGT  
 CCAGTTGGAGAACAATGAGATGCAGAACCAGTGTGTGTCCAGGGCCATCTGTACTATGATGTGTGCT  
 GCGAACCGCGGAGTGTGATGGGAACTGGACAGGAGACTATGCCGATGGCACGGCCCCATATGTGTGGA  
 CCAGCAGTGTACCCATCCTGCAGCAGCATTATGTCACCAGGATGCCTGTACGCTACGGCCAGTGTGGGT  
 TTTCTCTGGAATCCTGACCACAGCACTGAGAGCAGTGGGTATCCCAGCTCGAAGCGTGACTAACTTTGAG  
 TCAGCCCCATGATACAGAAAAGAACCTCACAGTAGACATCTACCTGGATGAATCGGGCAAGACAATCCAC  
 ATCTGACCAAAGACTCTGTCTGGAATTTCCACGTGTGGACAGATGCTGGATGAAAAGGCAGGATCTACC  
 TCATGGCTATGATGGCTGGCAGGTCCTGGATTCTACACCCAGGAAATCAGCGATGGAGGCTTCCGCACC  
 GGGCTTCACCACTGACTGCTATTCGCCAGGATTGATCCAGATGAAGTATGACACCACGTTTGTGTTCAT  
 CGGAGTCAATGGTGACAAGTTTATCTGGTTGGTGAAGCAGAACAGGAAAGGAGAAGAATATTCTCAT  
 CGCCGTGGAGACTGCCAGCATCGGCAAGAAAATCAGACCAAGATGGTGGGCGAGAACAGGCGTGAAGAT  
 ATAACTTGCAGTACAAGTTCCAGAAAGCAGCCAGAGGAGAGGAAGGTGATGGCGAAGGCTTCTGGTA  
 AACCTTCTGATGACAAGCTCAACTCTCGGACTCTGAACAACCTCTTTCAGATATCTGTCTCCAGAACTC  
 GTTGGAGTTAGGAGCTCCCATCTATTTGACCATAACTTTGAAAAGAAAAACCGCCACCCACAGAATGTC  
 AACATTTCTGCTCCCTCAACCTGCAGACATACACAGGCAACAAGAAGACAAACCTGGGAGTCATCCAGA  
 AGACTGTGCAGATCCACGGCCAAGAATCAAGGGTGTTCCTCACCATGGATGCCAGCTACTACATCTATAA  
 ACTGGCATGGTTGATGATGAGATGGTCATTGGAGGGTTCATCATTGCAGAAATGTAGATTCTGGTGAA  
 AGGGTGGCCACTGATACAACCCTGTGTTTCTGTACTCTGCCTTCTGTAGAGATGCCAGCACAGGCA  
 AGGTCAAGCAGCCTCTCGTCATCACCAGCAAATCAGCAACACCTGCCATCCCTTTGACTAACATCAA  
 GTTCTCAGTGGAAAGCCTGGGCCTCGCTAACATGAAATCCTGGGAACAAGAGACAGTGCCACCTGGAAAG  
 ACCATCACTTTCCAAATGGAATGCACCCAGTGAAGCTGGACCCAGAAATTCATTGTCAAGTTTATTT  
 CCAGACAAGTGAAGAGGTTTCATGCCGAGAAGGTCGTTTCTCATCAGCAAG**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja2016\\_c04.zip](https://cdn.origene.com/chromatograms/ja2016_c04.zip)

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_177911

**Insert Size:** 2013 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](#)

**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\\_177911.4](#), [NP\\_808579.2](#)

**RefSeq Size:** 2767 bp

**RefSeq ORF:** 2013 bp

**Locus ID:** 331046

**UniProt ID:** [Q8BZH1](#)

**Cytogenetics:** 9 F4

**Gene Summary:** Associated with the mammalian reproductive process. Plays an important role in the formation of the seminal coagulum through the cross-linking of specific proteins present in the seminal plasma. Transglutaminase is also required to stabilize the copulatory plug. [UniProtKB/Swiss-Prot Function]