

Product datasheet for **SC303287**

Transglutaminase 4 (TGM4) (NM_003241) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Transglutaminase 4 (TGM4) (NM_003241) Human Untagged Clone
Tag:	Tag Free
Symbol:	Transglutaminase 4
Synonyms:	hTGP; TGP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF: >NCBI ORF sequence for NM_003241, the custom clone sequence may differ by one or more nucleotides

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ATGATGGATGCATCAAAGAGCTGCAAGTTCTCCACATTGACTTCTTGAATCAGGACAACGCCGTTTCTC
ACCACACATGGGAGTTCCAAACGAGCAGTCCTGTGTTCCGGCGAGGACAGGTGTTTCACCTGCGGTGGT
GCTGAACCAGCCCTACAATCTACCACCAACTGAACTGGAATTCAGCACAGGGCCGAATCCTAGCATC
GCCAAACACACCCTGGTGGTGTCTGACCCGAGGACGCCCTCAGACCACTACAACCTGGCAGGCAACCCCTT
AAAATGAGTCTGGCAAAGAGGTACAGTGGCTGTACCAGTTCGCCCAATGCCATCCTGGGCAAGTACCA
ACTAAACGTGAAAACCTGGAAACCACATCCTTAAGTCTGAAGAAAACATCCTATACCTTCTCTTCAACCCA
TGGTGTAAAGAGGACATGGTTTTTCATGCCTGATGAGGACGAGCGCAAAGAGTACATCCTCAATGACACGG
GCTGCCATTACGTGGGGCTGCCAGAAGTATCAAATGCAAACCCCTGGAACCTTGGTCAGTTTGAGAAAAA
TGTCTGGACTGCTGCATTTCCCTGCTGACTGAGAGCTCCCTCAAGCCCACAGATAGGAGGGACCCCGTG
CTGGTGTGCAGGGCCATGTGTGCTATGATGAGCTTTGAGAAAGGCCAGGGCGTGCTATTGGGAATTGGA
CTGGGGACTACGAAGGTGGCACAGCCCCATAACAAGTGGACAGGCAGTGCCCGATCCTGCAGCAGTACTA
CAACACGAAGCAGGCTGTGTGCTTTGGCCAGTGTGGGTGTTGCTGGGATCCTGACTACAGTGTGAGA
GCGTTGGGCATCCAGCACGCGAGTGTGACAGGCTTCGATTGAGCTCACGACACAGAAAGGAACCTCACGG
TGGACACCTATGTGAATGAGAATGGCGAGAAAAACACCAGTATGACCCACGACTCTGTCTGGAATTTCCA
TGTGTGGACGGATGCCTGGATGAAGCGACCCGATGCCCCAAGGGCTACGACGGCTGGCAGGCTGTGGAC
GCAACGCCGACAGGAGCGAAGCCAGGGTGTCTTCTGCTGTGGGCCATCACCAGTACCCGATCCGCAAG
GTGACATCTTTATTGTCTATGACACCAGATTCGTCTTCTCAGAAGTGAATGGTGACAGGCTCATCTGGTT
GGTGAAGATGGTGAATGGCAGGAGGAGTTACACGTAATTTCAATGGAGACCACAAGCATCGGAAAAAC
ATCAGCACCAAGGCAGTGGGCCAAGACAGGCGGAGAGATACACCTATGAGTACAAGTATCCAGAAGGCT
CCTCTGAGGAGAGGCAGGTCATGGATCATGCCTTCTCCTTCTCAGTTCGAGAGGGAGCACAGACGACC
TGTAAGAGAGAACTTTCTTACATGTGCGTACAATCAGATGATGTGCTGCTGGGAAACTCTGTTAATTTT
ACCGTGATTCTTAAAAGGAAGACCCGCTGCCCTACAGAATGTCAACATCTTGGGCTCCTTTGAACTACAGT
TGTACACTGGCAAGAAGATGGCAAACTGTGTGACCTCAATAAGACCTCGCAGATCCAAGGTCAAGTATC
AGAAGTGACTCTGACCTTGGACTCCAAGACCTACATCAACAGCCTGGCTATATTAGATGATGAGCCAGTT
ATCAGAGGTTTCATCATTGCGGAAATTGTGGAGTCTAAGGAAATCATGGCCTCTGAAGTATTCACGTCTT
TCCAGTACCCTGAGTTCTCTATAGAGTTGCCTAACACAGGCAGAAATGGCCAGCTACTTGTCTGCAATTG
TATCTTCAAGAATACCCTGGCCATCCCTTTGACTGACGTCAAGTTCTCTTTGAAAGCCTGGGCATCTCC
TCACTACAGACCTCTGACCATGGGACGGTGCAGCCTGGTGGAGACCATCCAATCCCAAATAAAATGACCC
CAATAAAAACCTGGACCAAGAAATTTATCGTCAAGTTAAGTTCCAAACAAGTAAAAGAGATTAATGCTCA
GAAGATTGTTCTCATACCAAGTAG
    
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Restriction Sites: Please inquire

ACCN: NM_003241

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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_003241.1](#), [NP_003232.1](#)

RefSeq Size: 2983 bp

RefSeq ORF: 2055 bp

Locus ID: 7047

UniProt ID: [P49221](#)

Cytogenetics: 3p21.31

Protein Families: Druggable Genome

Gene Summary: Associated with the mammalian reproductive process. Catalyzes the cross-linking of proteins and the conjugation of polyamines to specific proteins in the seminal tract.[UniProtKB/Swiss-Prot Function]