

Product datasheet for **SC305704**

Transglutaminase 7 (TGM7) (NM_052955) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Transglutaminase 7 (TGM7) (NM_052955) Human Untagged Clone
Tag:	Tag Free
Symbol:	Transglutaminase 7
Synonyms:	TGMZ
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_052955, the custom clone sequence may differ by one or more nucleotides

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ATGGATCAGGTGGCAACCTTGC GGCTTGTAGTCTGTGACCTGCAGAGCTCCAGGAACAACAAGGAGCACC
ACACGCAGGAGATGGGCGTCAAGCGGCTCACTGTGCGCCGCGCCAGCCCTTCTACCTCCGGCTGAGCTT
CAGCCGACCCTTCCAGTCCCAGAACGACCACATCACCTTTGTGGCTGAGACCGGACCCAAGCCGTCAGAG
CTGCTGGGGACCCGAGCCACATTCTTCTCACCCGGGTCCAGCCCGGGAATGTCTGGAGCGCTTCTGATT
TCACCATTGACTCCAACCTCTCTCCAAGTTTCCCTTTTACACCAGCCAATGCAGTTATTGGCCATTACAC
TCTGAAAATAGAGATCTCTCAGGGCCAAGGTCACAGTGTGACTTACCCGCTGGGAACTTTTCATCCTACTT
TTAAACCCTTGGAGTCCAGAGGACGACGTCTACCTGCCAAGTAAAATACTGCTGCAGGAGTATATCATGC
GAGATTATGGCTTTGTTTACAAGGGTCATGAAAGATTTCATCACCTCTGGCCCTGGAACTACGGGCAGTT
TGAAGAGGACATCATAGACATCTGCTTTGAGATCTGAACAAGAGCCTGTATCACTTAAAGAACCCGGCC
AAAGACTGTTCCAGCGGAACGACGTGGTGTATGTGTGCAGGGTGGTGTGATCAACAGCAACG
ATGACAATGGCGTGTGCAGGGGAACTGGGGCAGGACTACTCAAAGGGGTGAGTCTCTGGAGTGAA
GGGCAGTGTGGCCATCTACAGCAGTGGTCAGCCAGGGGCGGGCAGCCTGTGAAGTACGGACAGTGTGG
GTCTTCGCTCTGTTATGTGCACCGTAATGAGATGCTTAGGTGTTCCAACCCGTGTTGTTTCCAATTTCC
GTTCCGCGCACAACGTGGATAGGAACTTGACCATCGATACGTAATGACCGAAATGCCGAGATGCTGTC
AACTCAGAAACGAGACAAAATAAGAACTTCCACGTCTGGAAAGTGTGCTGGATGATCCGGAAAGATCTC
CCACCAGGATACAACGGGTGGCAGGTTCTGGACCCCACTCCCAAGCAGACCAGCAGTGGGCTGTTCTGCT
GTGGCCCTGCCTCTGTGAAGGCCATCAGGAAGGGGATGTCCACCTGGCCTATGACACCCCTTTTGTGTA
TGCCGAGGTGAACGCCGATGAAGTCATTTGGCTCCTTGGGGATGGCCAGGCCAGGAAATCTGGCCAC
AACACCAGTTCATCGGGAAGGAGATCAGCACTAAGATGGTGGGTGAGCCAGGCCAGAGCATCACCA
GCTCCTACAAGTACCCAGAAGGATCCCCTGAGGAGAGAGCTGTCTTCATGAAGGCTTCTCGGAAAATGCT
GGGCCCCCAAAGAGCTTCTTTGCCCTTCTGGATCTCCTGGAGTCTGGGGTCTTAGGGATCAGCCAGCG
CAGCTGCAGCTTACCTGGCCAGGATACCCGAGTGGGGCCAGGACCTGCAGCTGCTGCTGCGTATCCAGA
GGGTGCCAGACAGCACCACCCTCGGGGGCCATCGGACTGGTGGTGCCTTCTGTGCACAGGCCCTGCT
GCATGGGGTGGTACCCAGAAGCCCTTCTGGAGGCACACAGTGCAGTGAACCTGGACTTTGGGAAGGAG
ACACAGTGGCCGCTCCTCTGCCCTACAGCAATTACAGAAACAAGCTAACGGACGAAAAGCTCATCCGG
TGTCTGGCATCGCGGAGGTTGAAGAGACAGGGAGGTCCATGCTGGTCTAAAAGATATCTGTCTGGAGCC
TCCCCACTTGTCTATTGAGGTGTCTGAGAGGGCTGAGGTGGCAAGGCGCTGAGAGTCCATGTCACCTC
ACCAACACCTTAATGGTGGCTCTGAGCAGCTGCAGATGGTGTGGAAGGAAGCGCCTCATCAATGGGC
AGATAGCAAAGGACCTTGGGACTCTGGTGGCCGGACACACCCTCAAATTAAGTGGACCTTACCCGAC
CAAAGCTGGACCCCGCAGCTCCAGTTCTCATCAGCAGCAACGAGGTCAAGGAGATCAAAGGCTACAAG
GACATCTTCGCTACTGTGGCTGGGGTCCCTGA
    
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Restriction Sites: Please inquire

ACCN: NM_052955

OTI Disclaimer:	<p>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.</p> <p>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</p>
OTI Annotation:	<p>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.</p>
Components:	<p>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).</p>
Reconstitution Method:	<ol style="list-style-type: none"> 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_052955.1 , NP_443187.1
RefSeq Size:	2312 bp
RefSeq ORF:	2133 bp
Locus ID:	116179
UniProt ID:	Q96PF1
Cytogenetics:	15q15.2-q15.3
Protein Families:	Druggable Genome
Gene Summary:	<p>Transglutaminases (TGM; EC 2.3.2.13) are a family of structurally and functionally related enzymes that stabilize protein assemblies through the formation of gamma-glutamyl-epsilon lysine crosslinks. For additional background information on transglutaminases, see TGM1 (MIM 190195).[supplied by OMIM, Jul 2002]</p>