

## Product datasheet for **SC303288**

### Transglutaminase 3 (TGM3) (NM\_003245) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Transglutaminase 3 (TGM3) (NM_003245) Human Untagged Clone
Tag:	Tag Free
Symbol:	Transglutaminase 3
Synonyms:	TGE; UHS2
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_003245 edited  
 GAAGAGGCAGAGGAAGGCGAAACATGGCTGCTCTAGGAGTCCAGAGTATCAACTGGCAGA  
 CCGCCTTCAACCGACAAGCGCATCACACAGACAAGTTCTCCAGCCAGGAGCTCATCTTGC  
 GGAGAGGCCAAAACCTCCAGGTCTTAATGATCATGAACAAAGGCCTTGGCTTAACGAAA  
 GACTGGAGTTCATTGTCTCCACAGGGCCTTACCCTCAGAGTCGGCCATGACGAAGGCTG  
 GTTTTCCACTCTCCAATGGCAGTAGTGGTGGCTGGAGTGGCTTTCAGCCAGCAATG  
 GCAATACTGACTATCAGCATCTCCAGTCTGCCAGCGCACCCATAGGACGGTACACAA  
 TGGCCCTCCAGATCTTCTCCAGGGCGGCATCTCCTCTGTGAAACTTGGGACGTTTCATAC  
 TGCTTTTTAACCCCTGGCTGAATGTGGATAGCGCTTTTATGGGTAAACCAGCTGAGAGAG  
 AAGAGTATGTTTCAGGAAGATGCCGCATCATCTTGTGGGAAGCACAACCGAATTGGCA  
 TGATTGGCTGGAACCTTGGACAGTTTGAAGAAGACATTCTCAGCATCTGCCTCTCAATCT  
 TGGATAGGAGTCTGAATTTCCGCCGTGACGCTGCTACTGATGTGGCCAGCAGAAATGACC  
 CCAATAACGTTGGCCGGGTGCTGAGTGCCATGATCAATAGCAATGATGACAATGGTGTGC  
 TTGCTGGGAATTGGAGCGGCACTTACACCGGTGGCCGGGACCCAAAGGAGCTGGAACGGCA  
 GCGTGGAGATCCTCAAAAATTGGAAAAATCTGGCTTCCAGCCAGTCCGATATGGCCAGT  
 GCTGGGTCTTGTCTGGGACCCCTAACACAGCGCTGCGGTCTTGGGGATTCTTCCCGGG  
 TGATCACCAACTTCAACTCAGCTCATGACACAGACCGAAATCTCAGTGTGGATGTGTA  
 ACGACCCCATGGGAAACCCCTGGACAAGGGTAGTGATAGCGTATGGAATTTCCATGTCT  
 GGAATGAAGGCTGGTTTGTGAGGTCTGACCTGGGCCCTCGTACGGTGGATGGCAGGTGT  
 TGGATGTACCCCGCAGGAAAGAAGCAAGGGGTGTTCCAGTGGCCCGCCGCTTCGGTCA  
 TTGGTGTTCGAGAGGGTATGTGCAGCTGAACTTCGACATGCCCTTTATCTTCGCGGAGG  
 TTAATCCGACCCGATCACCTGGCTGTACGACAACACCACTGGCAAACAGTGAAGAAT  
 CCGTGAACAGTACACCATTTGGCAGGTACATCAGCACCAGGCGGTGGCAGCAATGCTC  
 GCATGGAGCTCACGGACAAGTACAAGTACCCAGAAGGCTCTGACCAGGAAAGACAAGTGT  
 TCCAAAAGGCTTTGGGAAACTTAAACCCAACACGCCATTTGCCGCGACGCTTCAATGG  
 GTTTGAAACAGAGGAACAGGAGCCAGCATCATCGGGAAGTGAAGGTGCTGGCATGC  
 TGGCAGTAGGCAAGAAGTCAACCTGGTCTACTGCTCAAAAACCTGAGCAGGGATACGA  
 AGACAGTGACAGTGAACATGACAGCCTGGACCATCATCTACAACGGCAGCTTGTACATG  
 AAGTGTGAAGGACTCTGCCACAATGTCCTGGACCCTGAGGAAGAGGCAGAACATCCCA  
 TAAAGATCTCGTACGCTCAGTATGAGAAGTACCTGAAGTACAGACAACATGATCCGGATCA  
 CAGCGGTGTGCAAGGTCCAGATGAGTCTGAGGTGGTGGTGGAGCGGGACATCATCTGG  
 ACAACCCACCTTGACCTGGAGGTGCTGAACGAGGCTCGTGTGCGGAAGCCTGTGAACG  
 TGCAGATGCTCTTCTCCAATCCACTGGATGAGCCGGTGAAGGACTGCGTGTGATGGTGG  
 AGGGAAGCGGCCTGCTGTTGGGTAACCTGAAGATCGACGTGCCGACCCTAGGGCCCAAGG  
 AGCGGTCCCGGTCCGTTTTGATATCCTGCCCTCCCGAGTGGCACCACCAAGCAACTGCTCG  
 CCGACTTCTCTGCAACAAGTCCCTGCAATCAAGGCCATGTTGTCCATCGATGTAGCCG  
 AATGAAGGGCGCTGGTGGCTCCCGTACAACTTGACAACACGGAGCAGGGAGAGCTCA  
 CCATGGAATGAACCCCCGCCATGCTGTCCGGCTGGGAAACCTCTCCATCTCCCAAG  
 GCTGCCAGACATGGACCTCCGGGCTCCAGCACATCCCCCTCTCTCTCCCCAGGTTGGG  
 GCTGGGTCCACCCTGTCTATGACTTGATCACTTTTGCACATTCCTGGCCGCTTCTCCC  
 CAGAGCTGCCTGCTGTGAGCCCCACAGCCCTGCTATTCTCAGCCCT

**Restriction Sites:** Please inquire

**ACCN:** NM\_003245

**Insert Size:** 2400 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

<b>OTI Annotation:</b>	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_003245.2.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_003245.2</a></u> , <u><a href="#">NP_003236.2</a></u>
<b>RefSeq Size:</b>	2616 bp
<b>RefSeq ORF:</b>	2082 bp
<b>Locus ID:</b>	7053
<b>UniProt ID:</b>	<u><a href="#">Q08188</a></u>
<b>Cytogenetics:</b>	20p13
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	Transglutaminases are enzymes that catalyze the crosslinking of proteins by epsilon-gamma glutamyl lysine isopeptide bonds. While the primary structure of transglutaminases is not conserved, they all have the same amino acid sequence at their active sites and their activity is calcium-dependent. The protein encoded by this gene consists of two polypeptide chains activated from a single precursor protein by proteolysis. The encoded protein is involved the later stages of cell envelope formation in the epidermis and hair follicle. [provided by RefSeq, Jul 2008]