

Product datasheet for **RN213274**

Tgm3 (NM_001108959) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tgm3 (NM_001108959) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Tgm3
Synonyms:	RGD1561831; TG(E); TGE
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN213274 representing NM_001108959
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGTGCCTTTAGAGGTCCAAAACATCAACTGGCAGATGCCAATGAATCGAAGGGCACATCACACAGACA
 AGTTCTCCAGCCAAGATTTCAATTGTACGGAGAGGACAGCCCTGGGAGGTAATACTGCTCTGCAACCGAAG
 TCTTGAGTCTGGAGACAATCTGAACTTCATCGTTTCCACAGGTCCCCAGCCCTCTGAGTCAGCCAGGACA
 AAGGCTGTATTTCCATCTCTGGGAGAAAATAAAGTGGCTGGAGTGCAGCGCTCAAAGCCAGCAATGGCA
 ATAATCTGTTCAATTGCTATTGCCAGTCTGTACGCGCTCCATCGGATTGTACACACTGAATGTTGAGGT
 CTCCTCAAGGGCAGGGTCTCCTCTGTGAACTTGGCACATTACAGTGTCTTCAACCCATGGCAACAA
 GGGGATGATGTCTTTATGAGTAACCATGCTGAAAGACAAGAGTATGTTGAGGAAGATTCTGGCATCATCT
 ACGTGGGCAGCACAAATCGAATTGGCATGGTGGCTGGAATTTGGACAGTTTGAAGAAGATATTCTGAG
 CATCAGCCTCTCCATTTGGATAGAAGTCTGAATTTCCGTCGTGACCCGGCGACTGATGTGGCCCGCAGA
 AATGATCCAAATATGTTTGGCCGGTGTGAGTGCATGATTAATGCCAATGACGACAGCGCGTCTTTT
 CTGGGAATTGGAGCGGTAACACAGCGGTGGTGTAGACCCAAGAACCTGGAACGGTAGTGTGGAGATCCT
 CAAGAAGTGGAAAAATCTGGCTTCCAGACCAGTCCAATTTGGCCAGTGTGGGTCTTTGCTGGGACCCCTC
 AACACAGTGTGCGGTGCTTGGGGTCCCTCTCGGGTATCACCAACTCAACTCAGCTCACGACACAG
 ATCGCAACCTCAGTGTGGATGTACTATGACGCCATGGGAAATCCCTTGGAGAAAGGCAGTGTAGCGT
 GTGGAATTTTCACTGTCTGGAATGAAGGATGGTTCGTGCGGACTGACCTAGGTCCCTCATAACAAGGATG
 CAGGTGCTGGATGCCACCCCTCAGGAGAGAAGTCAAGGTGTGTTCCAGTGTGGTCTGCTCCGTTAATG
 CAATCAAAGATGGTGGGTGGACAGAATTCGACATGATCTTTCATCTTCGCGGAGGTTAACCGTATCG
 CATCACTTGGATCTACAATAATAGGGATGGCAGCCAGAAGCAGAATTCTGTGGATACTACTCCATTGGC
 AAATACATCAGCACCAAGGCAGTAGGCAGCAACTCTCGCATGGATGTCACGATCAAGTACAAGCACCCAG
 AAGGTTCCAAGGAGGAAAGACAAGTGCAGCAAAAGGCTATGAACAACTCAAACCTAATGCATCTTTTGG
 CGCAACGTCTTCGAGGGTCCCCAGGGGAAAGAAAGGAGCCAGCATTCTGGGAAGTTCAAGGTCAGT
 GGGTACTGGCAGTAGGCAAGAAGTCACTGTGGCCCTGATACTCAAAAACAGACTAGTGTAGGAAGA
 CAGTGACAACAAATATGACAGCCTGGACCATCGTCTACAATGGTACCCTGTCCACGAAGTGTGGAAGGA
 CTCTGCCACAATATCCTTGGATCCTGAAGAAGAAATACAGTATCCAGTGAAGATTGCATACTCTCAGTAT
 GATAGATACCTAAAGGCAGACAACATGATCCGGATCACAGCCGTATGCAAGGTGCCTGATGAGGCTGAGG
 TGGTCGTGGAGCGGGATGTCATCCTGGACAACCCCACTTTGACCCCTGGAGGTGCTGGACCAGGCTCAGT
 ACGAAAGCCGGTGGTCTGTCAGATGCTTTTCTCAACCCCTGGATGAACCAAGTGAAGAAGTGTGTGCTG
 ATGGTGAAGGCAGTGGCCTGCTGCGTGGCAGCCCTCAAAATCGATGTGCCGGCCCTGCGCCCAAGGAGA
 AGTCCCGGTCCGATTTGAGATTTCCCACTCGGATTGGCATCAAGCAACTGCTGGCCGACTTTTCCTG
 CAATAAATCCCTGCAATCAAGGCCATGCTGGTCAATTGAGGTGTCCGAG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001108959

Insert Size: 2082 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).

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:	<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:	<u>NM_001108959.1</u> , <u>NP_001102429.1</u>
RefSeq Size:	2607 bp
RefSeq ORF:	2082 bp
Locus ID:	366189
UniProt ID:	<u>D4A5U3</u>
Cytogenetics:	3q36
Gene Summary:	Catalyzes the calcium-dependent formation of isopeptide cross-links between glutamine and lysine residues in various proteins, as well as the conjugation of polyamines to proteins. Involved in the formation of the cornified envelope (CE), a specialized component consisting of covalent cross-links of proteins beneath the plasma membrane of terminally differentiated keratinocytes. Catalyzes small proline-rich proteins and LOR cross-linking to form small interchain oligomers, which are further cross-linked by TGM1 onto the growing CE scaffold. In hair follicles, involved in cross-linking structural proteins to hardening the inner root sheath (By similarity).[UniProtKB/Swiss-Prot Function]