

Product datasheet for **SC122560**

TGM1 (NM_000359) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TGM1 (NM_000359) Human Untagged Clone
Tag:	Tag Free
Symbol:	TGM1
Synonyms:	ARCI1; ICR2; KTG; LI; LI1; TGASE; TGK
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

>OriGene sequence for NM_000359 edited
 CTGTCCCATCCATCCTGACCTGTTCCATCTCAGCCCCAGGACTCAGTACTGCGGTTGCCA
 ACACTGCTGCCAGGCATGATGGATGGGCCACGTTCCGATGTGGGCCGTTGGGGTGGCAAC
 CCCTTGCAGCCCCCTACCACGCCATCTCCAGAGCCAGAGCCAGAGCCAGACGGACGCTCT
 CGCAGAGGAGGAGGCCGTTCTTCTGGGCTCGTGCTGTGGTGTCTGTTTCATGCCGAAAT
 GCGGCAGATGACGACTGGGGACCTGAACCCTCTGACTCCAGGGGTGAGGGTCCAGCTCT
 GGCCTCGAAGACCTGGCTCCCGGGCTCAGACTCCCGCCGGCCTGTATCCCGGGGCAGC
 GGTGTCAATGCAGCTGGAGATGGCACCATCCGAGAGGGCATGCTAGTAGTGAACGGTGTG
 GACTTGCTGAGCTCGCGCTCGGACCAGAACC CGCAGAGCACCACACAGACGAGTATGAG
 TACGACGAGCTGATAGTGCGCCGCGGCAGCCTTTCCATATGCTCCTCCTGTCCCGG
 ACCTATGAATCCTCTGATCGCATCACCTTGAGTTACTCATCGGAAACAACCCCGAGGTG
 GGCAAGGGCACGCACGTGATCATCCAGTGGGCAAGGGGGCAGTGGAGGCTGAAAGCC
 CAGGTGGTCAAGGCCAGTGGCAGAATCTGAACCTGCGGGTCCACACTTCCCCAACGCC
 ATCATCGCAAGTTTCAGTTCACAGTCCGCACACAATCAGACGCTGGGGAGTTCAGTTG
 CCCTTTGACCCCGCAATGAGATCTACATCCTCTTCAACCCTGGTGCCAGAGGACATT
 GTGTACGTGGACCATGAGGATTGGCGGCAGGAGTATGTTCTTAATGAGTCTGGGAGAATT
 TACTACGGGACCGAAGCACAGATTGGTGAGCGGACCTGGAACACGGCCAGTTTGACCAC
 GGGGTGCTGGATGCTGCTTATACATCCTGGACCGCGGGGGATGCCATATGGAGGCCGT
 GGAGACCCAGTCAATGTCTCCCGGGTCACTCTGCCATGGTGAACCTCCCTGGATGACAA
 GGAGTCTGATTGGAACTGGTCTGGTGATTACTCCCGAGGCACCAACCCATCAGCGTGG
 GTGGGCAGCGTGGAGATCCTGCTTAGCTACCTACGCACGGGATATTCCGTCCCCTATGGC
 CAGTGTGGGTCTTTGCTGGCGTGACCACCACAGTGTGCGCTGCCTGGGTCTGGCCACC
 CGTACTGCACCAACTTCAACTCCGCCACGACACAGACACATCCCTTACCATGGACATC
 TACTTCGACGAGAACATGAAGCCCTGGAGCACCTGAACCATGATTCTGTCTGGAACCTC
 CATGTGTGGAACGACTGCTGGATGAAGAGGCCGGATCTGCCCTCGGGCTTTGATGGGTGG
 CAGGTGGTGGATGCCACACCCCAAGAGACTAGCAGTGGCATCTTCTGCTGCGGCCCTGC
 TCTGTGGAGTCCATCAAGAATGGCTGTCTACATGAAGTACGACACGCCTTTCATTTTT
 GCTGAGGTGAATAGTGACAAGGTGTACTGGCAGCGGCAGGATGATGGCAGCTTCAAGATT
 GTTTATGTGGAGGAGAAGCCATCGGCACACTCATTGTCAAAAGGCCATCAGCTCCAAC
 ATGCGGGAGGACATCACCTACCTCTATAAGCACCCAGAAGGCTCAGACGCAGAGCGGAAG
 GCAGTAGAGACAGCAGCAGCCACGGCAGCAAACCAATGTGTATGCCAACCGGGGCTCA
 GCGGAGGATGTGGCCATGCAGGTGGAGGCACAGGACGCGGTGATGGGGCAGGATCTGATG
 GTCTCTGTGATGCTGATCAATCACAGCAGCAGCCGCCACAGTAAAACCTGCACCTCTAC
 CTCTCAGTCACTTTCTATACTGGTGTGCTGAGTGGTACCATCTTCAAGGAGACCAAGAAGAA
 GTGGAGCTGGCACCAGGGGCTCGGACCGTGTGACCATGCCAGTGGCCTACAAGGAATAC
 CGGCCCATCTTGTGGACCAGGGGGCCATGCTGCTCAATGTCTCAGGCCACGTCAAGGAG
 AGCGGGCAGGTGCTGGCCAAGCAGCACACCTTCCGTCTGCGCACCCACAGCTCTCCCTC
 ACGTTACTGGGAGCAGCAGTGGTTGGCCAGGAGTGTGAAGTACAGATTGTCTTCAAGAAC
 CCCCTTCCCGTCACCCTCACCAATGTCTGCTTCCGGCTCGAAGGCTCTGGGTTACAGAGG
 CCCAAGATCCTCAACGTTGGGGACATTGGAGGCAATGAAACAGTGACACTGCGCCAGTCG
 TTTGTGCCTGTGCGACCAGGCCCCCGCCAGCTCATTGCCAGCTTGACAGCCACAGCTC
 TCCCAGGTGCACGGTGTATCCAGGTGGATGTGGCCCCAGCCCCTGGGATGGGGCTTC
 TTCTCAGACGCTGGAGGTGACAGTCACTTAGGAGAGACCATCCCTATGGCATCTCGAGGT
 GGAGCTTAGCCCTGTGCCAGGAGCAATGGGACTGGAGTCAAGTGAAGCAAGGACATTGCC
 CAAGATAGGGGCACACTACAGAGCAGCTCCCCAGGAGCTCAGGTGGGGAGTCCAGGGCTC
 CCGGAGAGGGAGTCACTTTCACCTTGCCTGGGGAAACAGATGCTAATAAACTGTTTTTT
 AATGAA

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_000359 unedited NNNGGTTTGAATTTGTATACGACTCATATAGGGCGGCCGCGATTCCCGGGATCTGTCCCA TCCATCCTGACCTGTTCCATCTCAGCCCCAGGACTCAGTACTGCGGTTGCCAACTGCT GCCAGGCATGATGGATGGGCCACGTTCCGATGTGGGCCGTTGGGGTGGCAACCCCTTGCA GCCCCCTACCACGCCATCTCCAGAGCCAGAGCCAGAGCCAGACGACGCTCTCGCAGAGG AGGAGGCCGTTTCTTCTGGGCTCGCTGCTGTGGCTGCTGTTTCATGCCGAAATGCGGCAGA TGACGACTGGGGACCTGAACCCCTGACTCCAGGGGTCGAGGGTCCAGCTCTGGCACTCG AAGACCTGGTCCCAGGGCTCAGACTCCCAGCGCCTGTATCCCAGGGCAGCGGTGTC TGCAGCTGGAGATGGCACCATCCGAGAGGGCATGCTAGTAGTGAACGGTGTGGACTTGCT GAGCTCGCGCTCGGACCAGAACCAGCCGAGAGCACCACACAGACGAGTATGAGTACGACGA GCTGATAGTGCAGCGGGCAGCCTTTCCATATGCTCCTCCTCTGTCCCAGGACATGA ATCCTCTGATCGCATCACCTTGAGTTACTCATCGAAACAACCCCGAGGTGGGCAAGGG CACGCACGTGATCATCCAGTGGCAAGGGGGCAGTGGAGGCTGAAAGCCAGGTGGT CAAGGCCAGTGGCAGAATCTGAACCTGCGGGTCCACACTCCCCAACGCCATCATCGG GCAGTTTCAGTTCACAGTCCGCACACAATCAGACGCTGGGGAGTTCAGTTGCCCTTTG ACCCCGCAATGAGATCTACATCCTCTTCAACCCTGGTGCCAGAGACATTGTGTACN
Restriction Sites:	Please inquire
ACCN:	NM_000359
Insert Size:	2759 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:	NM_000359.1 , NP_000350.1
RefSeq Size:	2709 bp
RefSeq ORF:	2454 bp
Locus ID:	7051
UniProt ID:	P22735
Cytogenetics:	14q12
Protein Families:	Druggable Genome

Gene Summary:

The protein encoded by this gene is a membrane protein that catalyzes the addition of an alkyl group from an alkylamine to a glutamine residue of a protein, forming an alkylglutamine in the protein. This protein alkylation leads to crosslinking of proteins and catenation of polyamines to proteins. This gene contains either one or two copies of a 22 nt repeat unit in its 3' UTR. Mutations in this gene have been associated with autosomal recessive lamellar ichthyosis (LI) and nonbullous congenital ichthyosiform erythroderma (NCIE). [provided by RefSeq, Jul 2008]