

Product datasheet for **RG204492**

TGM1 (NM_000359) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	TGM1
Synonyms:	ARCI1; ICR2; KTG; LI; LI1; TGASE; TGK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence: >RG204492 representing NM_000359
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGATGGATGGGCCACGTTCCGATGTGGGCCGTTGGGGTGGCAACCCCTTGACGCCCCCTACCACGCCAT
CTCCAGAGCCAGAGCCAGAGCCAGACGGACGCTCTCGCAGAGGAGGAGGCCGTTCTTCTGGGCTCGCTG
CTGTGGCTGCTGTTTCATGCCGAAATGCGGCAGATGACGACTGGGGACCTGAACCTCTGACTCCAGGGGT
CGAGGGTCCAGCTCTGGCACTCGAAGACCTGGCTCCCGGGGCTCAGACTCCCGCCGGCTGTATCCCGGG
GCAGCGGTGTCAATGCAGCTGGAGATGGCACCATCCGAGAGGGCATGCTAGTAGTGAACGGTGTGGACTT
GCTGAGCTCGCGCTCGGACCAGAACC GCCGAGAGCACCACACAGACGAGTATGAGTACGACGAGCTGATA
GTGCGCGCGGGCAGCCTTTCCATATGCTCCTCCTGTCCCGGACCTATGAATCCTCTGATCGCATCA
CCCTTGAGTTACTCATCGAAACAACCCGAGGTGGGCAAGGGCACGCAGTATCATCCAGTGGGCAA
GGGGGGCAGTGGAGGCTGAAAGCCAGGTGGTCAAGGCCAGTGGGCAGAATCTGAACCTGCGGGTCCAC
ACTTCCCCCAACGCCATCATCGGCAAGTTTCAGTTCACAGTCCGCACACAATCAGACGCTGGGGAGTTCC
AGTTGCCCTTTGACCCCGCAATGAGATCTACATCCTCTTCAACCCCTGGTGCCAGAGGACATTGTGTA
CGTGGACCATGAGGATTGGCGGCAGGATGTTCTTAATGAGTCTGGGAGAATTTACTACGGGACCGAA
GCACAGATTGGTGAAGGACCTGGAACACGGCCAGTTTGACCAGGGGTGCTGGATGCCTGCTTATACA
TCCTGGACCGCGGGGGATGCCATATGGAGGCCGTGGAGACCCAGTCAATGTCTCCCGGGTATCTCTGC
CATGGTGAACCTCCCTGGATGACAATGGAGTCTGATTGGGAACCTGGTCTGGTATTACTCCCGAGGCACC
AACCCATCAGCGTGGGTGGGCAGCTGGAGATCCTGCTTAGCTACCTACGCACGGGATATTCCTGCCCT
ATGGCCAGTGTGGGTCTTTGCTGGCGTGACCACCACAGTGTGCGCTGCCTGGGTCTGGCCACCCGTAC
TGTCACCAACTTCAACTCCGCCACGACACAGACACATCCCTTACCATGGACATCTACTTCGACGAGAAC
ATGAAGCCCTGGAGCAGCTGAACCATGATTCTGTCTGGAACCTCCATGTGTGGAACGACTGCTGGATGA
AGAGGCCGGATCTGCCCTCGGGCTTTGATGGGTGGCAGGTGGTGGATGCCACACCCCAAGAGACTAGCAG
TGGCATCTTCTGCTGCGGCCCTGCTCTGTGGAGTCCATCAAGAATGGCCTGGTCTACATGAAGTACGAC
ACGCTTTTCATTTTGTGAGGTGAATAGTGACAAGGTGTACTGGCAGCGGCAGGATGATGGCAGCTTCA
AGATTGTTTATGTGGAGGAGAAGGCCATCGGCACACTATTGTCAAAAGGCCATCAGCTCCAACATGCG
GGAGGACATCACCTACCTCTATAAGCACCCAGAAGGCTCAGACGCAGAGCGGAAGGCAGTAGAGACAGCA
GCAGCCACGGCAGCAACCCAATGTGTATGCCAACCGGGGCTCAGCGGAGGATGTGGCCATGCAGGTGG
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GAGACCAAGAAGGAAGTGGAGCTGGCACCAGGGGCCTCGGACCGTGTGACCATGCCAGTGGCCTACAAGG
AATACCGGCCCCATCTTGTGGACCAGGGGGCCATGCTGCTCAATGTCTCAGGCCACGTCAAGGAGAGCGG
GCAGGTGCTGGCCAAGCAGCACACCTTCCGTCTGCGCACCCAGACCTCTCCCTCACGTTACTGGGAGCA
GCAGTGGTTGGCCAGGAGTGTGAAGTACAGATTGTCTTCAAGAACCCCTTCCCGTCAACCCTCACCAATG
TCGTCTTCCGGCTCGAAGGCTCTGGGTTACAGAGGCCAAGATCCTCAACGTTGGGGACATTGGAGGCAA
TGAAACAGTGACACTGCGCCAGTCGTTTGTGCTGTGCGACCAGGCCCGCCAGCTCATTGCCAGCTTG
GACAGCCACAGCTCTCCAGGTGCACGGTGTATCCAGGTGGATGTGGCCCCAGCCCTGGGGATGGGG
GCTTCTTCTCAGACGCTGGAGGTGACAGTCACTTAGGAGAGACCATCCCTATGGCATCTCGAGGTGGAGC
T

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG204492 representing NM_000359

Red=Cloning site Green=Tags(s)

MMDGPRSDVGRWGNPLQPPTTPSPEPEPEPDGRSRRGGGRSFWARCCGCCSCRNAADDWGPEPSDSRG
RGSSSGTRRPGSRGSDSRPVSRGSGVNAAGDGTIREGMLVYNGVDLLSSRSDQNRREHHTDEYEYDELI
VRRGQPFHMLLLSRTYESSDRITLELLIGNNPEVGKGTHTIIPVGKGGSGWKAQVVKASGQNLNLRVH
TSPNAIIGKFQFTVRTQSDAGEFQLPFDPRNEIYILFNPWCPEDIVYVDHEDWRQEYVLNESGRIYYGTE
AQIGERTWNYGQFDHGVLDAclyILDRRGMPYGGRGDPVNVSRVISAMVNSLDDNGVLIGNWSGDYSRGT
NPSAWVGSVEILLSYLRTGYSVPYGGCWVFAAGVTTTLRCLGLATRTVTNFNSAHDOTSLTMDIYFDEN
MKPLEHLNHDVSNFHVWDCWMKRPDLPSGFDGWQVVDATPQETSSGIFCCGPCSVEIKNGLVYMKYD
TPFIFAENVSDKVYWRQDDGSFKIYVVEEKAIGTLIVTKAISSNMREDITYLKHPEGSDAERKAVETA
AAHGSKPNVYANRGSADYAMQVEAQDAVMGQDLMVSVMLINHSSSRRTVKLHLYLSVTFTYTGVSGTIFK
ETKKEVELAPGASDRVTMPVAYKEYRPHLDVQGAMLLNVSGHVKESQVLAKQHTFRLRTPDLSTLLGA
AVVGQCECEVQIVFKNPLPVTLTNNVFRLEGSLQRPKILNVGDIGGNETVTLRQSFVPVRPGRQLIASL
DSPQLSQVHGVIVQDVAPAPGDGGFFSDAGGDSHLGETIPMASRGA

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



CTATAGGCGCGCGGAATTCGTGACTGGATCCGGTACCGAGAGATCTGCCGCCGATCGCCGCCGCGCAGATCT

EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI

CAAGCTTAAGTCTAGTACGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC - - - -

HindIII NheI RsrII MluI NotI XhoI GFP Tag

- - - GAA GAA AGA GTT TAA ACGGCGCGCGCGGAGCT

- - - E E R V Stop

ACCN:

NM_000359

ORF Size:

2451 bp

OTI Disclaimer:

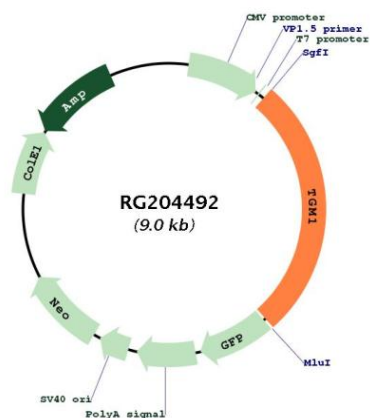
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation:

This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_000359.3
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]

Product images:



Circular map for RG204492