

## Product datasheet for **SC319098**

### Tropomodulin 1 (TMOD1) (NM\_003275) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tropomodulin 1 (TMOD1) (NM_003275) Human Untagged Clone
Tag:	Tag Free
Symbol:	Tropomodulin 1
Synonyms:	D9S57E; ETMOD; TMOD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_003275.1  
 AGCTCCC GCCCGCCCGCGGCCGCCCGGGAGCTCGTCCAGCCCCGCGCTGCGCTCGCCCGC  
 CCGCTGCCCGCCGGAGCACCGCGGCCTCCGCCCGCTCCATCTGCCCGCCCGCCGCGCCT  
 GTTCCGCAGCCCGCTCCGCGCCGGCCCCACAGCTCTGCGTCCGGGTATTACTCAGCACA  
 GAAATTCAGGAGACACAGACAAGTTCTTCCACGATGTCGTACAGACGAGAAGTAGAGAAA  
 TACCGTGACCTGGATGAAGATAAAATCCTTGGAGCCCTAACAGAGGAAGAGCTGAGGACC  
 CTGGAATAAGCTGGATGAGCTGGACCTGATAATGCACTGCTGCCTGCAGGCCTGAGG  
 CAGAAGGATCAGACCACCAAGGCCCCACGGGCCCTTTAAAAGAGAGGAGCTCTTGAT  
 CACTTGGAAAAGCAAGCAAGGAGTTTAAAGACCGAGAAGATCTGGTCCCCTACACAGGG  
 GAAAAACGAGGAAAGGTCTGGGTTCTAAGCAGAAGCCACTGGATCCTGTGCTGGAAAGT  
 GTGACGCTGGAACCGGAGCTGGAGGAAGCCTTGGCAAATGCTTCAGATGCAGAACTCTGT  
 GACATTGCAGCGATCCTGGGCATGCACACGCTCATGAGTAACCAGCAGTACTACCAGGCC  
 CTGAGCAGCAGCTCCATCATGAACAAGGAGGGGCTCAACAGCGTGATTAACCCACACAA  
 TACAAGCTGTGCCGACGAAGAACCAATTAACAGACGTAGAGGAAACGCTGGAACGG  
 ATAAAGAACAACGACCCAAAACCTTGAAGAAGTTAACCTCAATAATATCCGGAATATCCCC  
 ATCCCCACCCTCAAGGCATATGCAGAAGCCCTGAAAGAAAACCTCATATGTGAAGAAGTTC  
 AGCATCGTGGGGACCGGAGTAATGACCCCGTGGCGTATGCCCTTGCTGAGATGCTCAAG  
 GAGAACAAGGTGTTGAAGACACTGAATGTGGAATCCAACCTTCAATTTCTGGAGCTGGGATT  
 CTGCGCCTGGTAGAAGCCCTCCCATACAACACTTCTCTGGTGAAATGAAAATTGACAAC  
 CAGAGCCAGCCCTGGGCAACAAAGTGGAAATGGAGATTGTGAGCATGTTGGAAAAAAC  
 GCAACACTTCTCAAATTCGGCTACCACTTTACCCAGCAAGGACCCCGGCTTCGGGCATCC  
 AACGCAATGATGAACAACAATGACCTTGTGAGGAAGAGGAGGCTTGCAGGACCTGACTGGG  
 CCCATCTCCCAAGTCCCGGAGTGGTGTCTAGTGTGTGGCGGTGGAGTCCATGCCTTTG  
 AACTGGATGTGTTCTATTGATGACCTGTGCTCTGCAGGGAAACCAGAAGGCAAAATGCT  
 GGCAGCATGAAACCCCTTTGTGGTTCAGTCTTTATGCACTAAGTTTTAGGTTGACTAG  
 TGGTTGTAGTTGAAAATTTATAAAAATACCGTTAATGTGAAGTTTTTTCTTTAGTCACAGA  
 AGTTGAATCTGGTTATTATTTAAAAACTAGAAGCCCCAAACCAGCAGATCTTACTGAAG  
 ATGATGTTCCAGCAGCAGCGACTTAGCCCCAGGAGCCAGTTTCAATGGCCTTGCTGTGT  
 GGTGTTTCAAGTGCATTTAAAATGTGTGACACAGAAACGGCACACTCTTCCACATGCTTT  
 TGAAGTATTATAAAACACTTTATTACAAATTTGTCTTAGCTATTAGCAAATAAACTGAT  
 TATCATTCTTTAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_003275

**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).

**OTI Annotation:** 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.

**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.

**RefSeq:** [NM\\_003275.1](#), [NP\\_003266.1](#)

**RefSeq Size:** 2665 bp

**RefSeq ORF:** 1080 bp

**Locus ID:** 7111

**UniProt ID:** [P28289](#)

**Cytogenetics:** 9q22.33

**Domains:** Tropomodulin

**Gene Summary:** This gene encodes a member of the tropomodulin family. The encoded protein is an actin-capping protein that regulates tropomyosin by binding to its N-terminus, inhibiting depolymerization and elongation of the pointed end of actin filaments and thereby influencing the structure of the erythrocyte membrane skeleton. Multiple transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Oct 2009]  
Transcript Variant: This variant (1) represents the longer transcript. Variants 1 and 2 encode the same protein.