

## Product datasheet for **RG228291**

### Tropomodulin 1 (TMOD1) (NM\_001166116) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tropomodulin 1 (TMOD1) (NM_001166116) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TMOD1
Synonyms:	D9S57E; ETMOD; TMOD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG228291 representing NM_001166116 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCGTACAGACGAGAAGCTAGAGAAATACCGTGACCTGGATGAAGATGAAATCCTTGGAGCCCTAACAG  
AGGAAGAGCTGAGGACCCTGGAAAATGAGCTGGATGAGCTGGACCCTGATAATGCACTGCTGCCTGCAGG  
CCTGAGGCAGAAGGATCAGACCACCAAGGCGCCACGGGCCCTTTAAAAGAGAGGAGCTCTTGGATCAC  
TTGGAAAAGCAAGCAAAGGAGTTAAGGACCGAGAAGATCTGGTCCCCTACACAGGGGAAAAACGAGGAA  
AGGTCTGGTTTCTAAGCAGAAGCCACTGGATCCTGTGTGCTGGAAAGTGTGACGCTGGAACCGGAGCTGGA  
GGAAGCCTTGGCAAATGCTTCAGATGCAGAACTCTGTGACATTGCAGCGATCCTGGGCATGCACACGCTC  
ATGAGTAACCCAGCACTACTACCGGCCCTGAGCAGCAGCTCCATCATGAACAAGGAGGGGCTCAACAGCG  
TGATTAACCCACACAATACAAGCCTGTGCCGACGAAGAACCAATTCACAGACGTAGAGGAAACGCT  
GGAACGGATAAAGAACAACGACCCAAAACCTTGAAGAAGTTAACCTCAATAATATCCGGAATATCCCCATC  
CCCACCTCAAGGCATATGCAGAAGCCCTGAAAGAAAACATATGTGAAGAAGTTCAGCATCGTGGGGA  
CACGGAGTAATGACCCCGTGGCGTATGCCCTTGTCTGAGATGCTCAAGGAGAACAAGGTGTTGAAGACACT  
GAATGTGGAATCCAACCTTCATTTCTGGAGCTGGGATTCTGCGCCTGGTAGAAGCCCTCCCATAACAACACT  
TCTCTGGTGGAAATGAAAATGACAACCCAGAGCCAGCCCTGGGCAACAAGTGGAAATGGAGATTGTGA  
GCATGTTGGAAAAAACGCAACACTTCTCAAATTCGGCTACCACCTTACCAGCAAGGACCCCGGCTTCG  
GGCATCCAACGCAATGATGAACAACAATGACCTTGTGAGGAAGAGGAGGCTTGGCGACCTGACTGGGCC  
ATCATTCCAAGTGCCGGAGTGGTGTC

**ACCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG228291 representing NM\_001166116  
 Red=Cloning site Green=Tags(s)

MSYRRELEKYRDLDEDEILGALTEEELRTLENELDELDPDNALLPAGLRQKDQTTKAPTGPFKREELLDH  
 LEKQAKEFKDREDLVPYTGEKRGKVVWPKQKPLDPVLESVTLEPELEEEALANASDAELCDIAAILGMHTL  
 MSNQYYQALSSSSIMNKEGLNSVIKPTQYKVPDEEPNSTDVEETLERIKNNDPKLEEVLNINIRNIPI  
 PTLKAYAEALKENSIVKVFIVGTRSNDPVAYALAEMLKENKVLKTLNVE SNFISGAGILRLVEALPYNT  
 SLVEMKIDNQSQPLGNKVEIVEIVSMLEKNATLLKFGYHF TQQGPRLRASAMMNNNDLVRKRRLADLTGP  
 IIPKCRSGV

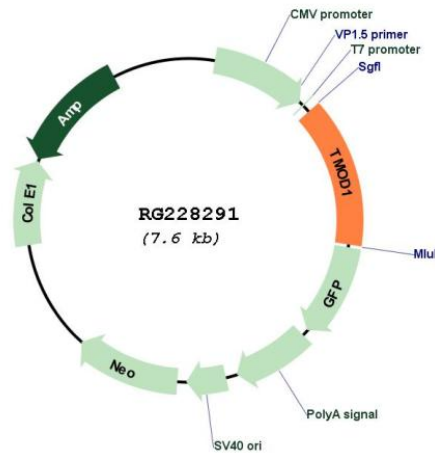
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001166116

<b>ORF Size:</b>	1077 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_001166116.1</a> , <a href="#">NP_001159588.1</a>
<b>RefSeq Size:</b>	3275 bp
<b>RefSeq ORF:</b>	1080 bp
<b>Locus ID:</b>	7111
<b>UniProt ID:</b>	<a href="#">P28289</a>
<b>Cytogenetics:</b>	9q22.33
<b>Gene Summary:</b>	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]