

## Product datasheet for **SC108286**

### Thymosin beta 10 (TMSB10) (NM\_021103) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Thymosin beta 10 (TMSB10) (NM_021103) Human Untagged Clone
Tag:	Tag Free
Symbol:	Thymosin beta 10
Synonyms:	MIG12; TB10
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_021103, the custom clone sequence may differ by one or more nucleotides

[ATGGCAGACAAACCAGACATGGGGGAAATCGCCAGCTTCGATAAAGGCCAAGCTGAAGAAAACGGAGACGC  
AGGAGAAGAACACCTGCCGACCAAGAGACCATTGAGCAGGAGAAGCGGAGTGAATTTCTAA](#)

#### 5' Read Nucleotide Sequence:

>OriGene 5' read for NM\_021103 unedited  
GGGTGTCAAATTTGTATACGACTCACTATAGGGCGGCCGGAATTCGCACGAGGGCAAC  
GCGAGTGGGAGCACCAGGATCTCGGGCTCGGAACGAGACTGCACGGATTGTTTTAAGAAA  
ATGGCAGACAAACCAGACTGGGGGAAATCGCCAGCTTCGATAAAGGCCAAGCTGAAGAAAA  
CGGAGACGCAGGAGAAGAACACCTGCCGACCAAGAGACCATTGAGCAGGAGAAGCGGA  
GTGAAATTTCTAAGATCCTGGAGGATTTCTACCCCGTCTCTCGAGACCCAGTCG  
TGATGTGGAGGAAGAGCCACCTGCAAGATGGACACGAGCCACAAGCTGCACTGTGAACCT  
GGGCACTCCGCGCCGATGCCACCGGCTGTGGGTCTCTGAAGGGACCCCCCAATCGG  
ACTGCCAATTTCCGGTTTGGCCGGGATATTATAGAAAATTTGTATGAATAATGA  
AAATAAACACACCTCGTGGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  
AAACTCGACTTTAAATTGCGGCCGCGTC  
ATAGCTGTTTCCTGAACAAATCCCGGGTGGCATCCCTGTGACCCCTCCCAGTGCCTTTC  
CTGGCCCTGGAAGTTGCCACTCCAGTGCCACCAGCCTTGTCTAATAAAATTAAGTTGC  
ATAATTTTGTCTGACTAGGTGTCCTTCTAATATATGGGGTGAGGGGGGGTTTTTAA  
CAAAGGGCAAATTTGGAAAAAAAAACTTGTAGCCTGGGGGTCTTTTGGAAACCACTTGAA  
GTCAGGGGGCAATTTGGCTACTGAATTTCCGCTCCTGGTTAAGCGATTTTCTGCCTCAC  
TCCAATTTGGGGATCCAGCATGCT



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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_021103 unedited GGGGTGTTTTGTTCATTATTNCATACAAATAATTTTCTATAATATCCCGGGGCAAAC CGGAGAATTTGGCAGTCCGATTGGGGGGGGTCCCTTCAGAGACCCACAGCCGGTGGCAT CGGCGCGGAGTGCCAGGTTACAGTGCAGCTTGTGGCTCGTGTCCATCTTGACAGGTGGC TCTTCTCCACATCAGACTGGGTCTCGAAGAGGACGGGGTAGGAAATCCTCCAGGAT CTTAGGAAATTTCACTCCGCTTCTCTGCTCAATGGTCTCTTTGGTCGGCAGGGTGTCT TCTCCTGCGTCTCCGTTTTCTTACGCTTGGCCTTATCGAAGCTGGCGATTCCCCCATGT CTGGTTTGTCTGCCATTTCTTAAAACAATCCGTGCAGTCTCGTTCCGAGCCGAGATCC TGGTGCTCCCACTCGCGTTGCCCTCGTGCCGAATTCGCGGCCGCCCTATAGTGAGTCGTA TTACAAAATTCTGACGGTTCCTAAACGAGCTCTGCTTATATAGACCTCCACCGTACAC GCCTACCGCCATTTGCGTCAACGGGGGGGGTATTACGACATTTTGGAAAGTCCCGC TGATTTTGGTGCCAAAACAACTCCATTGACGTCAATGGGGTGGAGACTTGAAATCCC CGTGAGTCATACCCTATCCACGCCATTGGTGTACTGCCAAAACCCGCATCACCATGGT AATACCGATGACTAATACGTAGATGTACTGCCAAGTAGCGAAGTCCCGTAAGGTCATGTA CTGGGCATAATGCCAGGCGGCCATTTACCGTCATTGACGTCACTAAGGGGCGGACTTGG ATATGAACACCTGATGTACTGGCAGTGGGCCATTACCGGAAAACCTCCACCATGACGTAA TGGGAAGGCCCTATGGCGTTCCTTTGGGACATACCTATTCTGCACCCATGGGGNGCGGC CCTGGCCGGTCACACTGCGGCCTTACCCTT
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_021103
<b>Insert Size:</b>	520 bp
<b>OTI Disclaimer:</b>	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).
<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_021103.3</a> , <a href="#">NP_066926.1</a>
<b>RefSeq Size:</b>	482 bp
<b>RefSeq ORF:</b>	135 bp
<b>Locus ID:</b>	9168
<b>UniProt ID:</b>	<a href="#">P63313</a>
<b>Cytogenetics:</b>	2p11.2

**Gene Summary:**

Plays an important role in the organization of the cytoskeleton. Binds to and sequesters actin monomers (G actin) and therefore inhibits actin polymerization (By similarity).  
[UniProtKB/Swiss-Prot Function]