

## Product datasheet for **SC108126**

### prothymosin, alpha (PTMA) (NM\_002823) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	prothymosin, alpha (PTMA) (NM_002823) Human Untagged Clone
Tag:	Tag Free
Symbol:	prothymosin, alpha
Synonyms:	TMSA
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC108126 sequence for NM_002823 edited (data generated by NextGen Sequencing) ATGTCAGACGCAGCCGTAGACACCAGCTCCGAAATCACCAACCAAGGACTTAAAGGAGAAG AAGGAAGTTGTGGAAGAGGCAGAAAATGGAAGAGACGCCCTGCTAACGGGAATGCTAAT GAGGAAAATGGGAGCAGGAGGCTGACAATGAGGTAGACGAAGAAGGAAGAAGGTGGG GAGGAAGAGGAGGAGGAAGAAGAAGGTGATGGTGAGGAAGAGGATGGAGATGAAGATGAG GAAGCTGAGTCAGCTACGGCAAGCGGCAGCTGAAGATGATGAGGATGACGATGTCGAT ACCAAGAAGCAGAAGACCGACGAGGATGACTAG  Clone variation with respect to NM_002823.4



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_002823 unedited            AGCGTACANAATTTGTAATACGACTCATATAGGGCGGCCGCAATTCGCACGAGGCCATC            TTTGCATTGTTCCCTATCCGCCTCTTGCTCGCCGAGCCGCCTCCGCCGCGGCCTCT            CCGCCGCCGCGGACTCCGGCAGCTTTATCGCCAGAGTCCCTGAACTCTCGCTTTCTTTTT            AATCCCCTGCATCGGATCACCGGCGTGCCCAACCATGTCAGACGCAGCCGTAGACACCAG            CTCCGAAATCACCACCAAGGACTTAAAGGAGAAGAAGGAAAGTTGTGGAAGAGGCAGANAA            TGAAGAGACGCCCTGCTAACGGGAATGCTAATGAGGAAAATGGGGAGCAGGAGGCTGA            CAATGAGGTAGACGAAGAAGAGGAAGAAGGTGGGGAGGAAGAGGAGGAGGAAGAAGAAGG            TGATGGTGAGGAAAAAGGATGGAATTGAAATTGAGGAAGCTGAGTTAGGCTACGGACAA            GCGGGCAGCTGAAGATGATGAGGATGACGATGTTACATACCAAGAAGCAGAAGACCGCCGA            GGATGACTAGACAGCAAAAAAGGAAAGTTAACTAAAAAAAAAAGCCCGCGTGACCTA            TTTACCCCTCCACTTCCCGTCTCAAAAATCTAAACGTTGTTCCCTTTCAATTAAGAG            GGCCCCGCCGCCACCGTGGCAGTGGCCCCCGCAGATGACACGCGCTTTTCCACCA            CCCAACCCAAACCATGGAATAATGGCAACCGGGGAGGAAAAAAGAAACCAAACTTTCC            AGGGCCCTGCTTTTTTTCTTAAAGTACTTTAAAAAGGAAAATTTGTTGGGATTTTTTA            TTTACATTTTATTTTTTGGCCCTATTGTTGGGGTCAACCATTTTTTAATGATTTTCGGA            GTAACAAACCAGCCTCTCGAACGGTCTCTGGCCACTTTTGGATTG</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_002823 unedited            GGGCTTCACTCTGAACCCGCGGCCCAANCTAGGATCGAGTTTTTTTTTTTTTTTTTTTT            TTTTTTTTTTTTTTAAAACAACTCAGCAAAATAAAATTCCTGTTTATTGGTGGACAACATT            GTTTCACACATACATCAACAGGCCAAAAAAAAAACAGCAACTTCATAGACAAAAAAGG            AAAAAAAGAAACCTTTTATCTTTGGCCTTTTTAACCATCTCATACAAACCAACTACTTA            TAGTACAGCTAAGTACATACAAAAAAGTTACTGGAATGCTCGGAATAAAATTGGTTTT            CTGGTGGCATTTTTGCTTTTTTTACAAGTTTTTTTTTCTCTTTGAGATTATAATGAACA            TGGTCACACCACAAGTAAAGTCAGAAGTAGGACAGAGAACGCTCCGAAGGCTGGTTTGGT            CATCCGAGATCATTAAAAATGGCTGACCCTAACAAATGTACAAAAATATAAAATGTAA            TAAAAATACAACAAAATTTCTTTTTTAAAGTACTTTTAAAAAAAAAAGCAGGGCCTTG            AAGTTTTGGTTCTTTTTTCTCCCTGTGCAAATTCATGGTTTGGTTGGGTGGTGGTGGT            AAAGCGGTGTCTGCGGGTGGCACTGCCACGGTGGGCGGGGGCCCTCTCTCTCG            AAGGTGACACGTTTAGATTCTGAGACGGGAAGTGGAGGGTGAATAGGTACGGCGGCCT            TTTTTTTTTAGTTAACTTTTCTTTTTTGTGTCTAGNCATCCTCGNCGGTCTTCTGC            TTCTTGGTATCGACATCGNCATCCTCATCATCTTCAACTGCCCGTTGCCCGAAGCTGAC            TCAACTTCTCATCTNAATCTCCATACTTNTCTACCACAACCTTCTTCTCTCTCTCT            TTCCTC</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_002823
<b>Insert Size:</b>	4860 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>	<u><a href="#">NM_002823.2</a></u> , <u><a href="#">NP_002814.2</a></u>
<b>RefSeq Size:</b>	1233 bp
<b>RefSeq ORF:</b>	333 bp
<b>Locus ID:</b>	5757
<b>UniProt ID:</b>	<u><a href="#">P06454</a></u>
<b>Cytogenetics:</b>	2q37.1
<b>Domains:</b>	Prothymosin
<b>Protein Families:</b>	Druggable Genome, Stem cell - Pluripotency, Transcription Factors
<b>Gene Summary:</b>	<p>Prothymosin alpha may mediate immune function by conferring resistance to certain opportunistic infections.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) uses an alternate in-frame splice site in the mid-coding region, compared to variant 1, resulting in a shorter protein (isoform 2).</p>