

Product datasheet for SC112967

Thymosin beta 4 (TMSB4X) (NM_021109) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Thymosin beta 4 (TMSB4X) (NM_021109) Human Untagged Clone
Tag:	Tag Free
Symbol:	Thymosin beta 4
Synonyms:	FX; PTMB4; TB4X; TMSB4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC112967 sequence for NM_021109 edited (data generated by NextGen Sequencing) ATGTCTGACAAACCCGATATGGCTGAGATCGAGAAATTCGATAAGTCGAACTGAAGAAG ACAGAGACGCAAGAGAAAAATCCACTGCCTTCCAAAGAAACGATTGAACAGGAGAAGCAA GCAGGCGAATCGTAA
5' Read Nucleotide Sequence:	Clone variation with respect to NM_021109.3 >OriGene 5' read for NM_021109 unedited ACCAGACTTCGCTCGTACTCGTGCCTCGCTTCGCTTTTCTCCGCAACCATGTCTGAC AAACCCGATATGGCTGAGATCGAGAAATTCGATAAGTCGAACTGAAGAAGACAGAGACG CAAGAGAAAAATCCACTGCCTTCCAAAGAATTGATTGTTCAAGAGAAAGCAAGCAGGCGAA TCGTAATGAGGCGTGCAGCCGCAATATGCACTGTACATCCACAAGCATTGCCTTCTTAT TTTACTTCTTTAGCTGTTTAACTTTGTAAGATGCAAAGAGGTTGGATCAAGTTTAAATG ACTGTGCTGCCCTTTACATCAAAGAACTACTGACAACGAAGGCCGCGCCTGCCTTTCC CATCTGTCTATCTATCTGGCTGGCAGGGAAGGAAAGAAGTTGCATGTTGGTGAAGGAAGA AGTGGGTGGAAGAAGTGGGTGGGACGACAGTAAAATCTAGAGTAAAATCAAGCTGGCC CAAGGTGCTCAGGCTGTAATGCAGTTTAAATCAGAGTGCCATTTTTTTTTTTTGTCAA ATGATTTTAAATTATTGGAATGCACAATTTTTTTTAAATGCAAATAAAAAGTTAAAAA TAANNNNAANNNNNNNNNNN



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3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_021109 unedited CCCAAACAACCCCNNAACCCCCCAACGATTTACTCTGNNCCGNCGGCCGCA TTTNANGANCGAGNTTT TTTTAAAGGTTTTAACTTTTTATTTGCATATTAATAAAATTGGGCTTCCAATAATTAA AATCTTTGAACAAAAAAGGCCCTTTGATTAACCTGCATTACAGCCTGCAGGACA CCTTGGCCAGCTTGATTTACTCTAAATTTCACTGGCGCCCAACCCATTTTTCCACC CCATTTTTCTTCACCAACATGCAAGTTTTTCTTCCCTGCCAGCAAATAAATAAAC AAATGGGAAAGGCAGGCCCGCCTTCGTTGTCAGAAGTTCTTTGATGGGAAAGGGCAGC ACAGTCATTTAACTTGATCCAACCTTTTTGCATTTTACAAAGTTAAACCGCTAAAAAAA GTAAAATAAAAGGCAATGCTTGGGGAATGTACAGTGCATATTGGCGGCGCACGCCTCAT TACGATTGCGCTGCTTCTCTCTGTTCAATCGTTTCTTTGGAAGGCAGGGGATTTTTTC TCTTGCCTCTTTGCTTCTTTCAGTTTCGACTTATCGAATTTCTCGATCTCACCCATATCG GGTTTGTCAAACATGGTTGCGGAGGAAAAGCGAAGCGAGGCCGCCGATTACCAAGCGAA TTCTTGTCTGCCATTGGCCCTCGTGCCGAATTCGCGGCCGCCCTTATAGTGAAGT CCGTATTACAAAATTCTGACGGTTAACTATAACGAGCTCTGCTTTATATTAACCTCC CACCGGACACCCCTTACCGCCATTTGCGTATAAGGGGCGGGGTTTTTACCAACATTTT GAAAAGCCCGTGTTTTTGGGGCAAACAATCCCCATTGACGTAAGGGGGTGGGAAAC TG</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_021109
Insert Size:	740 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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:	<ol style="list-style-type: none"> 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:	<u>NM_021109.2</u> , <u>NP_066932.1</u>

RefSeq Size: 656 bp

RefSeq ORF: 135 bp

Locus ID: 7114

UniProt ID: [P62328](#)

Cytogenetics: Xp22.2

Protein Pathways: Regulation of actin cytoskeleton

Gene Summary: This gene encodes an actin sequestering protein which plays a role in regulation of actin polymerization. The protein is also involved in cell proliferation, migration, and differentiation. This gene escapes X inactivation and has a homolog on chromosome Y. [provided by RefSeq, Jul 2008]