

Product datasheet for **SC118107**

TPM4 (NM_003290) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TPM4 (NM_003290) Human Untagged Clone
Tag:	Tag Free
Symbol:	TPM4
Synonyms:	HEL-S-108
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_003290, the custom clone sequence may differ by one or more nucleotides

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ATGGCCGGCCTCAACTCCCTGGAGGCGGTGAAACGCAAGATCCAGGCCCTGCAGCAGCAGGCGGACGAGG
CGGAAGACCGCGCGCAGGGCCTGCAGCGGGAGCTGGACGGCGAGCGGAGCGGCGGAGAAAGCTGAAGG
TGATGTGGCCGCCCTCAACCGACGCATCCAGCTCGTTGAGGAGGAGTTGGACAGGGCTCAGGAACGACTG
GCCACGGCCCTGCAGAAGCTGGAGGAGGCAGAAAAAGCTGCAGATGAGAGTGAGAGGAATGAAGGTGA
TAGAAAACCGGGCCATGAAGGATGAGGAGAAGATGGAGATTCAGGAGATGCAGCTCAAAGAGGCCAAGCA
CATTGCGGAAGAGGCTGACCGCAAATACGAGGAGGTAGCTCGTAAGCTGGTCATCCTGGAGGTTGAGCTG
GAGAGGGCAGAGGAGCGTGCGGAGGTGTCTGAACTAAAAATGTGGTGACCTGGAAGAAGAACTCAAGAATG
TTACTAACAACTGAAATCTCTGGAGGCTGCATCTGAAAAGTATTCTGAAAAGGAGGACAAATATGAAGA
AGAAAATTAACCTTCTGTCTGACAACTGAAAGAGGCTGAGACCCGTGCTGAATTTGCAGAGAGAACGGTT
GCAAACTGGAAGACAATTGATGACCTGGAAGAGAACTTGCCAGGCCAAAGAAGAGAACGTGGGCT
TACATCAGACACTGGATCAGACACTAACGAACTTAACTGTATATAA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_003290 unedited TGCCATTTGTATACGACTCCTATAGGCGGCACGCGAATTCGCACGAGCCGAGCCCATCCG AGCGTCCGCCGCTGCCCGTGCGCCTCTGCGCCTCCGCGCCATGGCCGGCCTCAACTCCCT GGAGGCGGTGAAACGCAAGATCCAGGCCCTGCAGCAGCAGGCGGACGATGCGGAAGACCG CGCGCAGGGCCTGCAGCGGGAGCTGGACGGCGAGCGCGAGCGGCGGAGAAAAGCTGAAAG TGATGTGGCCGCCCTCAACCGACGCATCCAGCTCGTTGAGGAGGAGTTGGACAGGGCTCA AGAACGACTGGCCACGGCCCTGCAGAAGCTGGAGGAGGCAGAAAAAGCTGCAGATGAGAG TGAGAGAGGAATGAAGGTGATAGAAAACCGGGCCATGAAGGATGAGGAGAAGATGGAGAT TCAGGAGATGCAGCTCAAAGAGGCCAAGCACATTGCGGAAGATGCTGACCGCAAATACGA GGAGGTAGCTCGTAAGCTGGTCATCCTGGAGGGTGAGCTGGAGAGGGCAGATGAGCGTGC GGAGGTGTCTGAACTAAAATGTGGTGACCTGGAAGAAGAACTCAAGAATGTTACTAACAA TCTGAAATCTCTGGAGGCTGCATCTGAAAAGTATTCTGAAAAGGAGGACAAATATGAAGA AGAAATTAACCTCTGTCTGACANACTGAAAGATGCTGAGACCCGTGCTGAATTTGCAGA GAGAACGGTTGCAAACTGGAAGACAATTGATGACCTGGAAGATGAACCTGCCAGGC CAAAGAATAGACGTGGGCTTACATCAGACACTGGATCAGACACTAACGAACTTAACTGT ATATAAGCANAACAGAAGAGTCTTGTTCACAGAACTCTGGAGCTCCGAAAGGTCTTC TCTTCTTGGTAGAGTTCCTTNTGTTATTGCCATCTTCGCTTTGCTGGAATTGTCAGC AATTATTGATACCTGACCAATATTNTGT
Restriction Sites:	NotI-NotI
ACCN:	NM_003290
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).
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:	NM_003290.1 , NP_003281.1
RefSeq Size:	2049 bp
RefSeq ORF:	747 bp
Locus ID:	7171
UniProt ID:	P67936
Cytogenetics:	19p13.12-p13.11
Domains:	Tropomyosin
Protein Pathways:	Cardiac muscle contraction, Dilated cardiomyopathy, Hypertrophic cardiomyopathy (HCM)

Gene Summary:

This gene encodes a member of the tropomyosin family of actin-binding proteins involved in the contractile system of striated and smooth muscles and the cytoskeleton of non-muscle cells. Tropomyosins are dimers of coiled-coil proteins that polymerize end-to-end along the major groove in most actin filaments. They provide stability to the filaments and regulate access of other actin-binding proteins. In muscle cells, they regulate muscle contraction by controlling the binding of myosin heads to the actin filament. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2009]

Transcript Variant: This variant (Tpm4.2, also known as variant 2) differs in the 5' UTR and coding sequence compared to variant Tpm4.1. The resulting isoform (Tpm4.2cy, also known as isoform 2) has a shorter and distinct N-terminus compared to isoform Tpm4.1cy. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.