

Product datasheet for **SC320708**

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)



[View online »](#)

Fully Sequenced ORF: >OriGene sequence for NM_003290.1
 CCCAGCCGAGCGTCCGCCCTGCCCGTGCCTCTGCGCCTCCGCGCCATGGCCGGCCTC
 AACTCCCTGGAGGCGGTGAAACGCAAGATCCAGGCCCTGCAGCAGCAGGCCGGACGAGGCG
 GAAGACCGCGCGCAGGGCCTGCAGCGGGAGCTGGACGGCGAGCGCGAGCCGGCGGAGAAA
 GCTGAAGTGATGTGGCCGCCCTCAACCGACGCATCCAGCTCTTTGAGGAGGAGTTGGAC
 AGGGCTCAGGAACGACTGGCCACGGCCCTGCAGAAGCTGGAGGAGGCAGAAAAAGCTGCA
 GATGAGAGTGAGAGAGGAATGAAGGTGATAGAAAACCGGCCATGAAGGATGAGGAGAAAG
 ATGGAGATTGAGGAGATGCAGCTCAAAGAGGCCAAGCACATTGCGGAAGAGGCTGACCCG
 AAATACGAGGAGGTAGCTCGTAAGCTGGTCATCCTGGAGGGTGAAGCTGGAGAGGGCAGAG
 GAGCGTCCGAGGTTGCTGAACTAAAATGTGGTACCTGGAAGAAGAACTCAAGAATGTT
 ACTAACAATCTGAAATCTCTGGAGGCTGCATCTGAAAAGTATTCTGAAAAGGAGGACAAA
 TATGAAGAAGAAATTAACCTTCTGTCTGACAACTGAAAGAGGCTGAGACCCGTGCTGAA
 TTTGCAGAGAGAACGGTTGCAAACTGGAAAAGACAATTGATGACCTGGAAGAGAAACTT
 GCCCAGGCCAAAAGAGAACGTGGGCTTACATCAGACACTGGATCAGACACTAAACGAA
 CTTAACTGTATATAAGCAAAACAGAAGAGTCTTGTTCACAGAAACTCTGGAGCTCCGT
 GGGTCTTTCTCTTCTTGTAAAGATTCTTTTGTATTGCCATCTTCGCTTTGCTGGA
 AATGTCAAGCAAATTATGAATACATGACCAAATATTTTGTATCGGAGAAGCTTTGAGCAC
 CAGTAAATCTCATTCCCTTTTTTTTTTCAAATGGCACCAGCTTTTTCAGCTCTCT
 TATTTTTCTTAAGTAGCATTATTCCTAAGGTAGGCAGGGTATTTCTAGTAAGCATA
 CTTTCTTAAGACGGAGGCCATTTGGTTCCTGGGAGAATAGGCAGCCCCACACTTTGAAGA
 ATACAGACCCAGTATCTAGTCGTGGATATAATTAACCGCTGAAGACCATAACCTTTTG
 GGTCAACTGTTGGTCAAACCTATAGGAGAGACCAGGGACCATCACATGGGTAGGGATTTTC
 CATCCAGAGCCAATAAAAGGACTGGTGGGGCCGGGGTGGCTATTGTGGGAAGTCATAA
 CCCACAGATAGATCAACCTAAGAATCCTGGCCCTTCTCCACTCTCCACCATGCAGGACAA
 ACATCTTCTCAAGCAGTCAACGTAGAATGCTTGGGAAATAGTCATAATTACCCACATATA
 GTAATTAATAGATGGTAATTAATTGATCCTTGATGTGATGTTCTTTTGCATATTTCTTC
 ATTCTAAAGTTGTTCCCTGGCCGGGAGCGTTGGCTTTCGCTGTAATCCCAACACTTTGG
 GAGGCCAGGACAGATCACTTGAGGTGAGGATTCGAGACCAGCCAGCCAACATGGCGAA
 ACCATGTCTCTACTAAAAATACAAAATATGGTGACGCCTGCCTGTAGTCCCAGCTACT
 CGGGAGGCTGAGGCAGGAGGATCGCTTGAACCCAGGAAGTGGAGACTGCAGTGAGCCGAT
 ATCGCACACAGCGCTCCAGCCTGGTCGACAGAGTGAGACTCCATCTCAAAAAAAAAAAAA
 AAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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:

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.