OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

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)

View online »

Fully Sequenced ORF:

>OriGene sequence for NM_003290.1
CCCAGCCGAGCGTCCGCCGCTGCCCGTGCGCCTCTGCGCCTCCGCGCCATGGCCGGCCTC
AACTCCCTGGAGGCGGTGAAACGCAAGATCCAGGCCCTGCAGCAGCAGGCGGACGAGGCG
GAAGACCGCGCGCAGGGCCTGCAGCGGGAGCTGGACGGCGAGCGCGAGCGGCGCGAGAAA
GCTGAAGGTGATGTGGCCGCCCTCAACCGACGCATCCAGCTCTTTGAGGAGGAGTTGGAC
AGGGCTCAGGAACGACTGGCCACGGCCCTGCAGAAGCTGGAGGAGGCAGAAAAAGCTGCA
GATGAGAGTGAGAGAGGAATGAAGGTGATAGAAAACCGGGCCATGAAGGATGAGGAGAAG
ATGGAGATTCAGGAGATGCAGCTCAAAGAGGCCAAGCACATTGCGGAAGAGGCTGACCGC
AAATACGAGGAGGTAGCTCGTAAGCTGGTCATCCTGGAGGGTGAGCTGGAGAGGGCAGAG
GAGCGTGCGGAGGTGTCTGAACTAAAATGTGGTGACCTGGAAGAAGAACTCAAGAATGTT
ACTAACAATCTGAAATCTCTGGAGGCTGCATCTGAAAAGTATTCTGAAAAGGAGGACAAA
TATGAAGAAGAAATTAAACTTCTGTCTGACAAACTGAAAGAGGCTGAGACCCGTGCTGAA
TTTGCAGAGAGAACGGTTGCAAAACTGGAAAAGACAATTGATGACCTGGAAGAGAAACTT
GCCCAGGCCAAAGAAGAGAACGTGGGCTTACATCAGACACTGGATCAGACACTAAACGAA
CTTAACTGTATATAAGCAAAACAGAAGAGTCTTGTTCCAACAGAAACTCTGGAGCTCCGT
GGGTCTTTCTCTTCTCTTGTAAGAAGTTCCTTTTGTTATTGCCATCTTCGCTTTGCTGGA
AATGTCAAGCAAATTATGAATACATGACCAAATATTTTGTATCGGAGAAGCTTTGAGCAC
CAGTTAAATCTCATTCCTTCCCTTTTTTTTTTCAAATGGCACCAGCTTTTTCAGCTCTCT
TATTTTTTCCTTAAGTAGCATTTATTCCTAAGGTAGGCAGGGTATTTCCTAGTAAGCATA
CTTTCTTAAGACGGAGGCCATTTGGTTCCTGGGAGAATAGGCAGCCCCACACTTTGAAGA
ATACAGACCCCAGTATCTAGTCGTGGATATAATTAAAACGCTGAAGACCATAACCTTTTG
GGTCAACTGTTGGTCAAACTATAGGAGAGACCAGGGACCATCACATGGGTAGGGATTTTC
CATCCAGAGCCAATAAAAGGACTGGTGGGGGCCGGGGGTGGCTATTGTGGGAAGTCATAA
CCCACAGATAGATCAACCTAAGAATCCTGGCCCTTCTCCACTCTCCACCATGCAGGACAA
ACATCTTCTCAAGCAGTCAACGTAGAATGCTTGGGAAATAGTCATAATTACCCACATATA
GTAATTAATAGATGGTAATTAATTGATCCTTGATGTGATGTTCTTTTGCATATTTCCTTC
ATTCTAAAGTTGTTCCCTGGCCGGGAGCGTTGGCTTTCGCCTGTAATCCCAACACTTTGG
GAGGCCAGGACAGATCACTTGAGGTCAGGAGTTCGAGACCAGCCCAGCCAACATGGCGAA
ACCATGTCTCTACTAAAAATACAAAAATTATGGTGACGCCTGCCTGTAGTCCCAGCTACT
CGGGAGGCTGAGGCAGGAGGATCGCTTGAACCCAGGAAGTGGAGACTGCAGTGAGCCGAT
ATCGCACCACAGCGCTCCAGCCTGGTCGACAGAGTGAGACTCCATCTCAAAAAAAAAAAA
AAAAAAAAAAAAAAA

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:	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.