

Product datasheet for **RC237175**

Tropomyosin 2 (TPM2) (NM_001301226) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tropomyosin 2 (TPM2) (NM_001301226) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TPM2
Synonyms:	AMCD1; DA1; DA2B; DA2B4; HEL-S-273; NEM4; TMSB
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC237175 representing NM_001301226 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGACGCCATCAAGAAGAAGATGCAGATGCTGAAGCTGGACAAGGAGAACGCCATCGACCGCGCCGAGC
AGGCCGAAGCCGACAAGAAGCAAGCTGAGGACCGCTGCAAGCAGCTGGAGGAGGAGCAGCAGGCCCTCCA
GAAGAAGCTGAAGGGGACAGAGGATGAGGTGAAAAGTATTCTGAATCCGTGAAGGAGGCCAGGAGAAA
CTGGAGCAGGCCGAGAAGAAGGCCACTGATGCTGAGGCAGATGTGGCCTCCCTGAACCGCCGATTCAGC
TGGTTGAGGAGGAGCTGGACCGGCCAGGAGCGCCTGGCTACAGCCCTGCAGAAGCTGGAGGAGCCGA
GAAGGCGGCTGATGAGAGCGAGAGAGGAATGAAGTTCATCGAAAACCGGCCATGAAGGATGAGGAGAAG
ATGGAAGTGCAGGAGATGCAGCTGAAGGAGGCCAAGCACATCGCTGAGGATTCAGACCGCAAATATGAAG
AGGTGGCCAGGAAGCTGGTATCCTGGAAGGAGAGCTGGAGCGCTCGGAGGAGAGGGCTGAGGTGGCCGA
GAGTAAATGTGGGACCTAGAGGAGGAGCTGAAAATTGTTACCAACAACCTGAAATCCCTGGAGGCCAG
GCGGACAAGTATCCACCAAGAAGATAAATATGAAGAGGAGATCAAACCTGTTGGAGGAGAAGCTGAAGG
AGGCTGAGACCCGAGCAGAGTTTGCCGAGAGTCTGTGGCAAAGTTGGAGAAAACCATCGATGACCTAGA
AGAGACCTTGGCCAGTGCCAAGGAGGAGAACGTGAGATTCACCGACCTTGACCAGACCTGCTGGAA
CTCAACAACCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC237175 representing NM_001301226
 Red=Cloning site Green=Tags(s)

MDAIIKKMQMLKLDKENAIDRAEQAEADKKQAEDRCKQLEEEQQALQKCLKGTEDEVEKYSESVKEAQEK
 LEQAEKKATDAEADVASLNRIQLVEEELDRAQERLATALQKLEEAKEADESERGMKVIENRAMKDEEK
 MELQEMQLKEAKHIAEDSDRKYEEVARKLVILEGELERSEERAEVAESKCGDLEELKIVTNNLKSLEAQ
 ADKYSTKEDKYEEEIKLLEEKLEAEETRAEFAERSVAKLEKTIDDLLEETLASAKEENVEIHQTLDQTLLE
 LNNL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

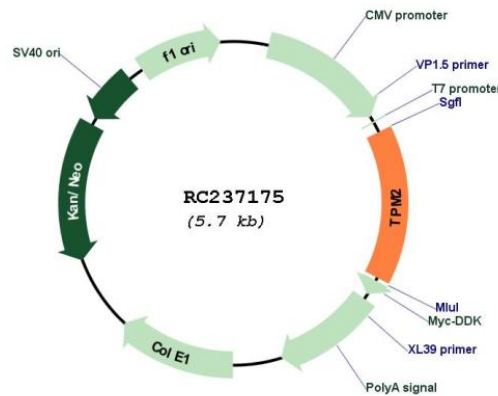
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001301226

ORF Size: 852 bp

OTI Disclaimer:	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
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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_001301226.2
RefSeq Size:	1182 bp
RefSeq ORF:	855 bp
Locus ID:	7169
Cytogenetics:	9p13.3
Protein Pathways:	Cardiac muscle contraction, Dilated cardiomyopathy, Hypertrophic cardiomyopathy (HCM)
MW:	33.3 kDa
Gene Summary:	This gene encodes beta-tropomyosin, a member of the actin filament binding protein family, and mainly expressed in slow, type 1 muscle fibers. Mutations in this gene can alter the expression of other sarcomeric tropomyosin proteins, and cause cap disease, nemaline myopathy and distal arthrogryposis syndromes. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Mar 2009]