

TPM2 cDNA

Catalog Number: ATGD0230

PRODUCT INFORMATION

Catalog number

ATGD0230

Product type

cDNA

Species

Human

NCBI Accession No.

NP_998839.1

Alternative Names

AMCD1, DA1, DA2B, HEL-S-273, NEM4, TMSB

mRNA Refseq

NM_213674.1

OMIM

190990

Chromosome location

9p13

PRODUCT SPECIFICATION

Formulation

Lyophilized

Storage

Store the plasmid at -20C.

cDNA Size

855bp

Preparation before usage

1. Centrifuge at 7000rpm for 1 minute.
 2. Carefully open the vial and add 100ul of sterile water to dissolve the DNA.
- Each tube contains approximately 10ug of lyophilized plasmid.

Vector description

This shuttle vector contains the complete ORF. It is inseted BamH I to Xho I. The gene insert contains multiple cloning sites which can be used to easily cut and transfer the gene and recombination site into your expression vector.

Cloning Vector

pATGen (puc19-derived cloning vector)

General Description

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TPM2 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.

DATA

Sequence nucleotides

ATGGACGCCATCAAGAAGAAGATGCAGATGCTGAAGCTGGACAAGGAGAACGCCATCGACCGCGCCGAGCAGGCCGAAG
 CCGACAAGAAGCAAGCTGAGGACCGCTGCAAGCAGCTGGAGGAGGAGCAGCAGGCCCTCCAGAAGAAGCTGAAGGGGAC
 AGAGGATGAGGTGGAAAAGTATTCTGAATCCGTGAAGGAGGCCAGGAGAACTGGAGCAGGCCGAGAAGAAGGCCACT
 GATGCTGAGGCAGATGTGGCCTCCCTGAACCGCCGCATTGAGCTGGTTGAGGAGGAGCTGGACCGGGCCCAGGAGCGCCT
 GGCTACAGCCCTGCAGAAGCTGGAGGAGGCCGAGAAGGCGGCTGATGAGAGCGAGAGAGGAATGAAGGTCATCGAAAAC
 CGGGCCATGAAGGATGAGGAGAAGATGGAAGTGCAGGAGATGCAGCTGAAGGAGGCCAAGCACATCGCTGAGGATTCAG
 ACCGCAAATATGAAGAGGTGGCCAGGAAGCTGGTGATCCTGGAAGGAGAGCTGGAGCGCTCGGAGGAGAGGGCTGAGGT
 GGCCGAGAGCCGAGCCAGACAGCTGGAGGAGGAACCTCGAACCATGGACCAGGCCCTCAAGTCCCTGATGGCCTCAGAG
 GAGGAGTATTCCACCAAAGAAGATAAATATGAAGAGGAGATCAAAGTGTGGAGGAGAAGCTGAAGGAGGCTGAGACCCG
 AGCAGAGTTTGCCGAGAGGTCTGTGGCAAAGTTGGAGAAAACCATCGATGACCTAGAAGAGACCTTGGCCAGTGCCAAGG
 AGGAGAACGTGAGATTACCAGACCTTGGACCAGACCCTGCTGGAAGTCAACAACCTGTGA

Transaction Sequence

MDAIKKKMQM LKLDKENAID RAEQAEADKK QAEDRCKQLE EEQALQKKL KGTEDEVEKY SESVKEAQEK LEQAEKKATD
 AEADVASLNR RIQLVEEELD RAQERLATAL QKLEEAKEAA DESERGMKVI ENRAMKDEEK MELQEMQLKE AKHIAEDSDR
 KYEEVARKLV ILEGELERSE ERAEVAESRA RQLEEEELRTM DQALKSLMAS EEEYSTKEDK YEEEIKLLEE KLKEAETRAE
 FAERSVAKLE KTIDDLLETL ASAKEENVEI HQTLDDQTLLE LNNL