

TPM3 cDNA

Catalog Number: ATGD0231

PRODUCT INFORMATION

Catalog number

ATGD0231

Product type

cDNA

Species

Human

NCBI Accession No.

NP_705935.1

Alternative Names

CAPM1, CFTD, HEL-189, HEL-S-82p, hscp30, NEM1, OK/SW-cl.5, TM-5, TM3, TM30, TM30nm, TM5, TPMsk3, TRK

mRNA Refseq

NM_153649.3

OMIM

191030

Chromosome location

1q21.2

PRODUCT SPECIFICATION

Formulation

Lyophilized

Storage

Store the plasmid at -20C.

cDNA Size

747bp

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 Nde 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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TPM3 encodes a member of the tropomyosin family of actin-binding proteins. Tropomyosins are dimers of coiled-coil proteins that provide stability to actin filaments and regulate access of other actin-binding proteins. Mutations in this gene result in autosomal dominant nemaline myopathy and other muscle disorders. This locus is involved in translocations with other loci, including anaplastic lymphoma receptor tyrosine kinase (ALK) and neurotrophic tyrosine kinase receptor type 1 (NTRK1), which result in the formation of fusion proteins that act as oncogenes. There are numerous pseudogenes for this gene on different chromosomes. Alternative splicing results in multiple transcript variants.

DATA

Sequence nucleotides

ATGGCTGGGATCACCACCATCGAGGCGGTGAAGCGCAAGATCCAGGTTCTGCAGCAGCAGGCAGATGATGCAGAGGAGCG
AGCTGAGCGCCTCCAGCGAGAAGTTGAGGGAGAAAGGCGGGCCCGGGAACAGGCTGAGGCTGAGGTGGCCTCCTTGAAC
CGTAGGATCCAGCTGGTTGAAGAAGAGCTGGACCGTGCTCAGGAGCGCCTGGCCACTGCCCTGCAAAAGCTGGAAGAAGC
TGAAAAAGCTGCTGATGAGAGTGAGAGAGGTATGAAGGTTATTGAAAACCGGGCCTTAAAAGATGAAGAAAAGATGGAAC
CCAGGAAATCCAACCTCAAAGAAGCTAAGCACATTGCAGAAGAGGCAGATAGGAAGTATGAAGAGGTGGCTCGTAAGTTGGT
GATCATTGAAGGAGACTTGGAACGCACAGAGGAACGAGCTGAGCTGGCAGAGTCCCCTTGGCGAGAGATGGATGAGCAGA
TTAGACTGATGGACCAGAACCTGAAGTGTCTGAGTGCTGCTGAAGAAAAGTACTCTCAAAAAGAAGATAAATATGAGGAAG
AAATCAAGATTCTTACTGATAAACTCAAGGAGGCAGAGACCCGTGCTGAGTTTGCTGAGAGATCGGTAGCCAAGCTGGAAA
AGACAATTGATGACCTGGAAGATAAACTGAAATGCACCAAAGAGGAGCACCTCTGTACACAAAGGATGCTGGACCAGACCC
TGCTTGACCTGAATGAGATGTAG

Transaction Sequence

MAGITTIEAV KRKIQVLQQQ ADDAEERAER LQREVEGERR AREQAEAEVA SLNRRIQLVE EELDRAQERL ATALQKLEEA
EKAADESERG MKVIENRALK DEEKMELQEI QLKEAKHIAE EADRKYEEVA RKLVIIEGDL ERTEERAELA ESRCREMDEQ
IRLMDQNLKC LSAAEEKYSQ KEDKYEEEIK ILTDKLKEAE TRAEFAERSV AKLEKTIDDL EDKCLKCTKEE HLCTQRMLDQ
TLDDLNEM