TPM4 cDNA Clone – Tropomyosin 4 (Human)

PRODUCT OVERVIEW

Product Name	TPM4, cDNA Clone
Full Product Name	TPM4 cDNA Clone
Product Gene Name	TPM4 cdna clone
Sequence	atggccggcc tcaactccct ggaggcggtg aaacgcaaga tccaggccct gcagcagcag gcggacgagg cggaagaccg cgcgcagggc ctgcagcggg agctggacgg cgagcgcgag cggcgcgaga aagctgaagg tgatgtggcc gccctcaacc gacgcatcca gctcgttgag gaggagttgg acagggctca ggaacgactg gccacggccc tgcagaagct ggaggaggca gaaaaagctg cagatgagag tgagagagga atgaaggtga tagaaaaccg ggccatgaag gatgaggaga agatggagat tcaggagatg cagctcaaag aggccaagca cattgcggaa gaggctgacc gcaaatacga ggaggtagct cgtaagctgg tcatcctgga gggtgagctg gagagggcag aggagcgtgc ggaggtgtct gaactaaaat gtggtgacct ggaagaagaa ctcaagaatg ttactaacaa tctgaaatct ctggaggctg catctgaaaa gtattctgaa aaggaggaca aatatgaaga agaaattaaa cttctgtctg acaaactgaa agaggctgag acccgtgctg aatttgcaga gagaacggtt gcaaaactgg aaaagacaat tgatgacctg gaagagaaac ttgcccaggc caaagaagag aacgtgggct tacatcagac actggatcag acactaaacg aacttaactg tatataa
Molecular Weight	32,723 Da
OMIM	600317
Vector	pENTR223.1
Clone Sequence Report	Provided with product shipment
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for TPM4 cdna clone	MBS1273479 is a cDNA clone targeting TPM4.
Other Notes	Small volumes of TPM4 cdna clone vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TPM4. It may not necessarily be applicable to this product.

NCBI GI #	22902217
NCBI GeneID	7171
NCBI Accession #	BC037576
UniProt Secondary Accession #	P07226; Q15659; Q5U0D9; Q9BU85; Q9H8Q3; Q9UCS1; Q9UCS2; Q9UCS3; Q9UCS4
UniProt Related Accession #	P67936
NCBI Official Full Name	Homo sapiens tropomyosin 4, mRNA
NCBI Official Synonym Full Names	tropomyosin 4
NCBI Official Symbol	TPM4
NCBI Official Synonym Symbols	HEL-S-108
UniProt Protein Name	Tropomyosin alpha-4 chain
UniProt Synonym Protein Names	TM30p1; Tropomyosin-4
Protein Family	Tropomyosin

UniProt Gene Name	TPM4
UniProt Entry Name	TPM4_HUMAN
NCBI Protein Information	tropomyosin alpha-4 chain
NCBI Summary for TPM4	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]
UniProt Comments for TPM4	TPM4: a cytoskeletal protein that binds to actin filaments in muscle and nonmuscle cells. Plays a central role, in association with the troponin complex, in the calcium dependent regulation of vertebrate striated muscle contraction. Smooth muscle contraction is regulated by interaction with caldesmon. In nonmuscle cells is implicated in stabilizing cytoskeleton actin filaments and endocytosis. Protein type: Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 19p13.1 Cellular Component: cytoskeleton; cytosol; focal adhesion; membrane; muscle thin filament tropomyosin; stress fiber Molecular Function: protein binding; structural constituent of muscle Biological Process: cell motility; muscle contraction; muscle filament sliding; osteoblast differentiation
Research Articles on TPM4	**1.** In addition to CLIC1 and TPM1, which were the proteins initially discovered in a xenograft mouse model, CLIC4, TPM2, TPM3, and TPM4 were present in ovarian cancer patient sera at significantly elevated levels compared with controls.
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