

Recombinant Human TPM2, His-tagged

Cat. No. TPM2-31626TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Tropomyosin 2 Isoform 2 with N terminal His tag; 304 amino acids with tag, MWt 35.1 kDa inclusive of tag.
Species	Human
Source	E.coli
ProteinLength	284 amino acids
Description	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.
Conjugation	HIS
Molecular Weight	35.100kDa inclusive of tags
Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 30% Glycerol, 20mM Tris HCl, 100mM Sodium chloride, 1mM DTT, pH 8.0

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Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHHSSGLVPRGSHMDAIKKKMQLKLDKENAIDRAEQAEADKKQAEDR CKQLEEEQQUALQKKLKGTEDEVEKYSSESVKEAQEKLEQAEEKATDAEADVASLNRR IQLVEEELDRAQERLATALQKLEEAKEADESERGMKVNIENRAMKDEEKMELQEMQ LKEAKHIAEDSDRKYEYEVARKLVILEGELERSEERA EVAESRARQLEEEELRTMDQAL KSLMASEEEYSTKEDKYEEEEIKLLEEKLEAEETRAEFAERSVAKLEKTIDDLLEETLASA KEENVEIHQTLDTLLELNNL

GENE INFORMATION

Gene Name	TPM2 tropomyosin 2 (beta) [Homo sapiens]
Official Symbol	TPM2
Synonyms	TPM2; tropomyosin 2 (beta); AMCD1, arthrogryposis multiplex congenital, distal, type 1; tropomyosin beta chain; DA1;
Gene ID	7169
mRNA Refseq	NM_003289
Protein Refseq	NP_003280
MIM	190990
Uniprot ID	P07951
Chromosome Location	9p13

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Pathway	Cardiac muscle contraction, organism-specific biosystem; Cardiac muscle contraction, conserved biosystem; Dilated cardiomyopathy, organism-specific biosystem; Dilated cardiomyopathy, conserved biosystem; Hypertrophic cardiomyopathy (HCM), organism-specific biosystem;
Function	actin binding; structural constituent of muscle;

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