# Recombinant Human TPM2, His-tagged

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

## SPECIFICATION

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| **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: NoneConstituents: 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** | MGSSHHHHHHSSGLVPRGSHMDAIKKKMQMLKLDKENAIDRAEQAEADKKQAEDR CKQLEEEQQALQKKLKGTEDEVEKYSESVKEAQEKLEQAEKKATDAEADVASLNRR IQLVEEELDRAQERLATALQKLEEAEKAADESERGMKVIENRAMKDEEKMELQEMQ LKEAKHIAEDSDRKYEEVARKLVILEGELERSEERAEVAESRARQLEEELRTMDQAL KSLMASEEEYSTKEDKYEEEIKLLEEKLKEAETRAEFAERSVAKLEKTIDDLEETLASA KEENVEIHQTLDQTLLELNNL |

## GENE INFORMATION

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| **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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