

# Recombinant Human TPM2

**Cat. No.** TPM2-31627TH    **Lot. No.** (See product label)

## SPECIFICATION

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>         | Recombinant full length Human Tropomyosin 2 Isoform 2 expressed in <i>Saccharomyces cerevisiae</i> ; 284 amino acids, MWt 33 kDa. Protein is tagged with 26 kDa proprietary tag.                                                                                                                                                                                                                                            |
| <b>Species</b>                  | Human                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Description</b>              | 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. |
| <b>Form</b>                     | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Purity</b>                   | >90% by SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Storage buffer</b>           | Preservative: None<br>Constituents: 30% Glycerol, 0.5% Triton-X-100, 50mM HEPES, 30mM Glutathione, 100mM Sodium chloride, 1mM DTT, pH 7.5                                                                                                                                                                                                                                                                                   |
| <b>Storage</b>                  | Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.                                                                                                                                                                                                                                                                                                                                       |
| <b>Sequences of amino acids</b> | MDAIKKKMQLKLDKENAIDRAEQAEDKKQAEDRCKQLE EEQQALQKKLKGTEDEVEKYSES VKAEQEKLEQA EKKA TDAEADVASLNRRRIQLVEEELDRAQERLATALQKLEEA EKADESERGMKV IENRAMKDEEK MELQEMQLKEAKHIAE DSDRKYEEVARKLVILEGELERSEERA EVAESRARQLE EELRTMDQALKSLMASEEEYSTKEDKYE                                                                                                                                                                                      |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

EEIKLLEEKL KEAETRAEFAERSVAKLEKTIDDLEETLASAKEENVEIHQ TLDQTLLEL  
NNL

**Full Length** Full L.

## 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

**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;

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**Function**

actin binding; structural constituent of muscle;

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