



Datasheet for ABIN2734386

## Tropomyosin Protein (Transcript Variant 4) (Myc-DYKDDDDK Tag)



[Go to Product page](#)

### 1 Image

#### Overview

|                               |   |
|-------------------------------|---|
| Quantity:                     | 20 µg   |
| Target:                       | Tropomyosin (TPM1)  |
| Protein Characteristics:      | Transcript Variant 4  |
| Origin:                       | Human   |
| Source:                       | HEK-293 Cells   |
| Protein Type:                 | Recombinant   |
| Purification tag / Conjugate: | This Tropomyosin protein is labelled with Myc-DYKDDDDK Tag. |
| Application:                  | Antibody Production (AbP), Standard (STD)                   |

#### Product Details

|                  |  |
|------------------|--|
| Characteristics: | <ul style="list-style-type: none"><li>• Recombinant human Tropomyosin-1 (TPM1) (transcript variant 4) protein expressed in HEK293 cells.</li><li>• Produced with end-sequenced ORF clone</li></ul> |
| Purity:          | > 80 % as determined by SDS-PAGE and Coomassie blue staining   |

#### Target Details

|                   |  |
|-------------------|--|
| Target:           | Tropomyosin (TPM1)   |
| Alternative Name: | Tropomyosin-1 (Tpm1) ( <a href="#">TPM1 Products</a> )   |
| Background:       | This gene is a member of the tropomyosin family of highly conserved, widely distributed actin-binding proteins involved in the contractile system of striated and smooth muscles and the cytoskeleton of non-muscle cells. Tropomyosin is composed of two alpha-helical chains |

## Target Details

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arranged as a coiled-coil. It is polymerized end to end along the two grooves of actin filaments and provides stability to the filaments. The encoded protein is one type of alpha helical chain that forms the predominant tropomyosin of striated muscle, where it also functions in association with the troponin complex to regulate the calcium-dependent interaction of actin and myosin during muscle contraction. In smooth muscle and non-muscle cells, alternatively spliced transcript variants encoding a range of isoforms have been described. Mutations in this gene are associated with type 3 familial hypertrophic cardiomyopathy.

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Molecular Weight: 32.7 kDa

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NCBI Accession: [NP\\_001018006](#)

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Pathways: [Regulation of Actin Filament Polymerization](#)

## Application Details

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Application Notes: Recombinant human proteins can be used for:  
Native antigens for optimized antibody production  
Positive controls in ELISA and other antibody assays

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Comment: The tag is located at the C-terminal.

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Restrictions: For Research Use only

## Handling

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Concentration: 50 µg/mL

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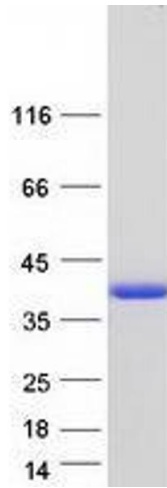
Buffer: 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10 % glycerol.

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Storage: -80 °C

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Storage Comment: Store at -80°C. Thaw on ice, aliquot to individual single-use tubes, and then re-freeze immediately. Only 2-3 freeze thaw cycles are recommended.



### Western Blotting

**Image 1.** Validation with Western Blot