

Product datasheet for **TP319543M**

TPM1 (NM_001018004) Human Recombinant Protein

Product data:

| | |
|---------------------------------------|---|
| Product Type: | Recombinant Proteins |
| Description: | Purified recombinant protein of Homo sapiens tropomyosin 1 (alpha) (TPM1), transcript variant 3, 100 µg |
| Species: | Human |
| Expression Host: | HEK293T |
| Expression cDNA Clone or AA Sequence: | >RC219543 representing NM_001018004 Red =Cloning site Green =Tags(s) |
| | MDAIKKKMQMLKLDKENALDRAEQAEADKKAEDRSKQLEDELVSLQKLLKGTEDLDKYSEALKDAQEK LELAEKKATDAEADVASLNRRRIQLVEEELDRAQERLATALQKLEEAKAADESERGMKVIESRAQKDEEK MEIQEIQLKEAKHIAEDADRKYEEVARKLVIIESDLERAERAELSEGKCAELEELKTVTNNLKSLEAQ AEKYSQKEDRYEEEIKVLSDKLKEAETRAEFAERSVTKLEKSIDDLLEEKVAHAKEENLSMHQMLDQTLLE LNNM |
| | TRTRPLEQKLISEEDLAANDILDYKDDDDKV |
| Tag: | C-Myc/DDK |
| Predicted MW: | 32.6 kDa |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method |
| Purity: | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| Buffer: | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol |
| Preparation: | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps. |
| Note: | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. |
| Storage: | Store at -80°C. |
| Stability: | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| RefSeq: | <u>NP_001018004</u> |
| Locus ID: | 7168 |



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UniProt ID: [P09493](#), [O15513](#)

RefSeq Size: 1797

Cytogenetics: 15q22.2

RefSeq ORF: 852

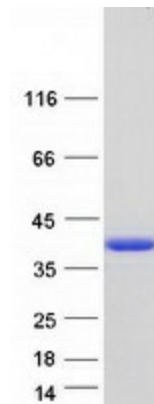
Synonyms: C15orf13; CMD1Y; CMH3; HEL-S-265; HTM-alpha; LVNC9; TMSA

Summary: 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 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. [provided by RefSeq, Jul 2008]

Protein Families: Druggable Genome

Protein Pathways: Cardiac muscle contraction, Dilated cardiomyopathy, Hypertrophic cardiomyopathy (HCM)

Product images:



Coomassie blue staining of purified TPM1 protein (Cat# [TP319543]). The protein was produced from HEK293T cells transfected with TPM1 cDNA clone (Cat# [RC219543]) using MegaTran 2.0 (Cat# [TT210002]).