

## Product datasheet for PH304007

### Tropomyosin 2 (TPM2) (NM\_213674) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	TPM2 MS Standard C13 and N15-labeled recombinant protein (NP_998839)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC204007
Predicted MW:	33 kDa
Protein Sequence:	>RC204007 protein sequence Red=Cloning site Green=Tags(s)  MDAIIKKKMQMLKLDKENAIDRAEQAEADKKQAEDRCKQLEEEQQALQKCLKGTEDEVEKYSVKEAQEK LEQAEKKATDAEADVASLNRRIQLVVEELDRAQERLATALQKLEEAEEKAADESERGMKVIENRAMKDEEK MELQEMQLKEAKHIAEDSDRKYEEVARKLVILEGELERSEERA EVAESRARQLEEEELRTMDQALKSLMAS EEEYSTKEDKYEEEIKLLEEKLKEAETRAEFAERSVAKLEKTIDDL EETLASAKEENVEIHQTLDTLLE LNNL  TRTRPLEQKLI SEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<a href="#">NP_998839</a>
RefSeq Size:	1182
RefSeq ORF:	852
Synonyms:	AMCD1; DA1; DA2B; DA2B4; HEL-S-273; NEM4; TMSB
Locus ID:	7169



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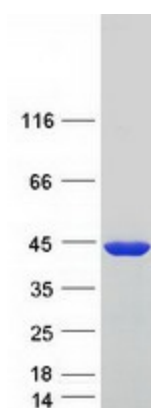
UniProt ID: [P07951](#), [V9HW25](#)

Cytogenetics: 9p13.3

**Summary:** 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.[provided by RefSeq, Mar 2009]

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

### Product images:



Coomassie blue staining of purified TPM2 protein (Cat# [TP304007]). The protein was produced from HEK293T cells transfected with TPM2 cDNA clone (Cat# [RC204007]) using MegaTran 2.0 (Cat# [TT210002]).