

## Product datasheet for PH316840

### Tropomyosin 3 (TPM3) (NM\_001043351) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	TPM3 MS Standard C13 and N15-labeled recombinant protein (NP_001036816)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC216840
Predicted MW:	28.7 kDa
Protein Sequence:	>RC216840 representing NM_001043351 Red=Cloning site Green=Tags(s)  MAGITTTIEAVKRKIQVLQQADDAEERAERLQREVEGERRAREQAEAEVASLNRRIQLVEEELDRAQERL ATALQKLEEAKEAADESERGMKVIENRALKDDEEKMELQEIQKAKHIAEEADRKYEEVARKLVIIEGDL ERTEERAELAESKCESELEELKNVTNNLKSLEAQAEKYSQKEDKYEEIEIKILTDKLEAETRAEFAERSV AKLEKTIDDLEDKCLKCTKEEHLCTQRMLDQTLDDLNEM  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_001036816</a>
RefSeq Size:	3212
RefSeq ORF:	744
Synonyms:	CAPM1; CFTD; HEL-189; HEL-S-82p; hscp30; NEM1; OK/SW-cl.5; TM-5; TM3; TM5; TM30; TM30nm; TPM3nu; TPMsk3; TRK
Locus ID:	7170



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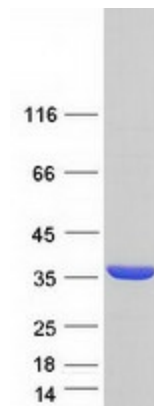
UniProt ID: [P06753](#), [A0A0S2Z4I4](#)

Cytogenetics: 1q21.3

**Summary:** This gene encodes a member of the tropomyosin family of actin-binding proteins. Tropomyosins are dimers of coiled-coil proteins that provide stability to actin filaments and regulate access of other actin-binding proteins. Mutations in this gene result in autosomal dominant nemaline myopathy and other muscle disorders. This locus is involved in translocations with other loci, including anaplastic lymphoma receptor tyrosine kinase (ALK) and neurotrophic tyrosine kinase receptor type 1 (NTRK1), which result in the formation of fusion proteins that act as oncogenes. There are numerous pseudogenes for this gene on different chromosomes. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2013]

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

### Product images:



Coomassie blue staining of purified TPM3 protein (Cat# [TP316840]). The protein was produced from HEK293T cells transfected with TPM3 cDNA clone (Cat# [RC216840]) using MegaTran 2.0 (Cat# [TT210002]).