

Product datasheet for PH320212

Tropomyosin 3 (TPM3) (NM_001043353) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	TPM3 MS Standard C13 and N15-labeled recombinant protein (NP_001036818)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC220212
Predicted MW:	28.6 kDa
Protein Sequence:	>RC220212 representing NM_001043353 Red =Cloning site Green =Tags(s) MAGITTIEAVKRKIQVLQQADDAEERAERLQREVEGERRAREQAEAEVASLNRRIQLVEEELDRAQERL ATALQKLEEAKEAADESERGMKVIENRALKDDEEKMELQEIQKAKHIAEEADRKYEEVARKLVIIEGDL ERTEERAELAESKCESELEEELKNVTNNLKSLEAQAEKYSQKEDKYEEEEIKILTDKLEAETRAEFAERSV AKLEKTIDDLEERLYSQLERNRLLSNELKLTLDLDCD TR TRPLEQKLI 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- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-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:	NP_001036818
RefSeq Size:	4539
RefSeq ORF:	741
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



[View online »](#)

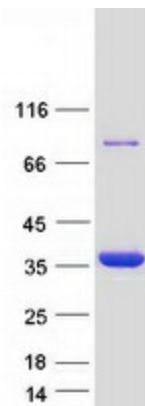
UniProt ID: [P06753](#)

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# [TP320212]). The protein was produced from HEK293T cells transfected with TPM3 cDNA clone (Cat# [RC220212]) using MegaTran 2.0 (Cat# [TT210002]).