

Recombinant Human TPM3, MYC/DDK-tagged

Cat. No. TPM3-29H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TPM3, transcript variant 2, fused with C-terminal MYC/DDK, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	28.9 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration	>50 ug/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

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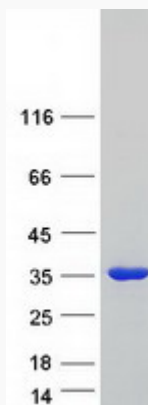
GENE INFORMATION

Gene Name	TPM3 tropomyosin 3 [Homo sapiens (human)]
Official Symbol	TPM3
Synonyms	TPM3; tropomyosin 3; NEM1; tropomyosin alpha-3 chain; TRK; tropomyosin-3; tropomyosin-5; gamma-tropomyosin; tropomyosin gamma; cytoskeletal tropomyosin TM30; heat-stable cytoskeletal protein 30 kDa; TM3; TM5; CFTD; TM-5; TM30; hTM5; TM30nm; TPMsk3; hscp30; OK/SW-cl.5; MGC3261; FLJ41118; MGC14582; MGC72094
Gene ID	7170
mRNA Refseq	NM_153649
Protein Refseq	NP_705935
MIM	191030
UniProt ID	P06753
Chromosome Location	1q21.2
Pathway	Adrenergic signaling in cardiomyocytes; Cardiac muscle contraction; Hypertrophic cardiomyopathy (HCM); Smooth Muscle Contraction
Function	actin binding; molecular_function

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