

Recombinant Human TPM3, His-tagged

Cat. No. TPM3-55H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Full-length recombinant human TPM3 protein was expressed in E.coli cells using an N-terminal His tag.
Species	Human
Source	E.coli
Description	TPM3 or tropomyosin 3 is a member of the tropomyosin family of actin-binding proteins that are dimers of coiled-coil proteins that provide stability to actin filaments and regulate access of other actin-binding proteins. TPM3 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. TPM3 protein is substituted for the external domain of a putative tyrosine-kinase cell surface receptor to create the TRK oncogene. TPM3 are a common cause of congenital fiber type disproportion.
Form	50mM sodium phosphate, pH 7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.25mM DTT, 25% glycerol.
Molecular Mass	~39 kDa
Applications	Western Blot
Storage	Store product at -70oC. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable

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performance, avoid repeated handling and multiple freeze/thaw cycles.

GENE INFORMATION

Gene Name [TPM3 tropomyosin 3 \[Homo sapiens \]](#)

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_001043351](#)

Protein Refseq [NP_001036816](#)

MIM [191030](#)

UniProt ID [P06753](#)

Chromosome Location [1q21.2](#)

Pathway [Cardiac muscle contraction, organism-specific biosystem](#); [Cardiac muscle contraction, conserved biosystem](#); [Dilated cardiomyopathy, organism-specific biosystem](#); [Dilated cardiomyopathy, conserved biosystem](#); [Hypertrophic cardiomyopathy \(HCM\), organism-specific biosystem](#); [Hypertrophic cardiomyopathy](#)

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(HCM), conserved biosystem; Muscle contraction, organism-specific biosystem;

Function

actin binding; molecular_function;

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