



# Recombinant Rat Tropomyosin alpha-3 chain (Tpm3)

<b>Product Code</b>	CSB-YP737211RA
<b>Abbreviation</b>	Tpm3
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	Q63610
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Rattus norvegicus (Rat)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	AGSTTIEAV KRKIQVLQQQ ADDAEERAER LQREVEGERR AREQAEAEVA SLNRRIQLVE EELDRAQERL ATALQKLEEA EKAADESERG MKVIENRALK DEEKMELQEI QLKEAKHIAE EADRYEEVA RKLVIIEGDL ERTEERAELA ESRCREMDEQ IRLMDQNLKC LSAAEEKYSQ KEDKYEEEIK ILTDKLKEAE TRAEFAERSV AKLEKTIDDL EDKCLKCTKEE HLCTQRMLDQ TLLDLNEM
<b>Source</b>	Yeast
<b>Target Names</b>	Tpm3
<b>Protein Names</b>	Recommended name: Tropomyosin alpha-3 chain Alternative name(s): Gamma-tropomyosin Tropomyosin-3 Tropomyosin-5
<b>Expression Region</b>	2-248
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full Length of Mature Protein
<b>Target Details</b>	This gene encodes a member of the tropomyosin family of actin-binding proteins involved in the contractile system of striated and smooth muscles and the cytoskeleton of non-muscle cells. Tropomyosins are dimers of coiled-coil proteins that polymerize end-to-end along the major groove in most actin filaments. They provide stability to the filaments and regulate access of other actin-binding proteins. In muscle cells, they regulate muscle contraction by controlling the binding of myosin heads to the actin filament. Mutations in this gene result in autosomal dominant nemaline myopathy, and oncogenes formed by chromosomal translocations involving this locus are associated with cancer. Multiple transcript variants encoding different isoforms have been found for this gene.
<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a



concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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**Shelf Life**

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