Recombinant Chicken Tropomyosin alpha-1 chain (TPM1)

Product Code	CSB-EP024104CH
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P04268
Product Type	Recombinant Protein
Immunogen Species	Gallus gallus (Chicken)
Purity	>85% (SDS-PAGE)
Sequence	MDAIKKKMQM LKLDKENALD RAEQAEADKK AAEERSKQLE DELVALQKKL KGTEDELDKY SESLKDAQEK LELADKKATD AESEVASLNR RIQLVEEELD RAQERLATAL QKLEEAEKAA DESERGMKVI ENRAQKDEEK MEIQEIQLKE AKHIAEEADR KYEEVARKLV IIEGDLERAE ERAELSESKC AELEEELKTV TNNLKSLEAQ AEKYSQKEDK YEEEIKVLTD KLKEAETRAE FAERSVTKLE KSIDDLEDEL YAQKLKYKAI SEELDHALND MTSI
Source	E.coli
Target Names	TPM1
Protein Names	Recommended name: Tropomyosin alpha-1 chain Alternative name(s): Alpha-tropomyosin Tropomyosin-1
Expression Region	1-284
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full length protein
Target Details	This gene is a member of the tropomyosin family of highly conserved, widely distributed actin-binding proteins involved in the contractile system of striated and smooth muscles and the cytoskeleton of non-muscle cells. Tropomyosin is composed of two alpha-helical chains arranged as a coiled-coil. It is polymerized end to end along the two grooves of actin filaments and provides stability to the filaments. The encoded protein is one type of alpha helical chain that forms the predominant tropomyosin of striated muscle, where it also functions in association with the troponin complex to regulate the calcium-dependent interaction of actin and myosin during muscle contraction. In smooth muscle and non-muscle cells, alternatively spliced transcript variants encoding a range of isoforms have been described. Mutations in this gene are associated with type 3 familial hypertrophic cardiomyopathy.
Reconstitution	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.
Shelf Life	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.