

Datasheet for ABIN3093983

## MYBPC3 Protein (AA 1-1274) (Strep Tag)



[Go to Product page](#)

### Overview

Quantity:	250 µg
Target:	MYBPC3
Protein Characteristics:	AA 1-1274
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MYBPC3 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

### Product Details

Brand:	AliCE®
Sequence:	<p>MPEPGKKPVS AFSKKPRSV E VAAGSPAVFE AETERAGVKV RWQRGGS DIS ASNKYGLATE</p> <p>GTRHTLTVRE VGPADQGSYA VIAGSSKVKF DLKVIEAEKA EPMLAPAPAP AEATGAPGEA</p> <p>PAPAAELGES APSPKGSSSA ALNGPTPGAP DDPIGLFVMR PQDGEVT VGG SITFSARVAG</p> <p>ASLLKPPVVK WFKGKWVDLS SKVGQHLQLH DSYDRASKVY L FELHITDAQ PAFTGSYRCE</p> <p>VSTKDKFDCS NFNLTVHEAM GTGDLDLLSA FRRTSLAGGG RRISDSHEDT GILDFSSLLK</p> <p>KRDSFRTPRD SKLEAPAEED VWEILRQAPP SEYERIAFYQ GVTDLRGMLK RLKGMRRDEK</p> <p>KSTAFQKKLE PAYQVSKGHK IRLTVELADH DAEVKWLKNG QEIQMSGSKY IFESIGAKRT</p> <p>LTISQCSLAD DAAYQCVVGG EKCSTELFK EPPVLITRPL EDQLVMVGQR VEFECVSEE</p> <p>GAQVKWLKDG VELTREETFK YRFKKGQRH HLIINEAMLE DAGHYALCTS GGQALAEIV</p> <p>QEKKLEVYQS IADLMVGAKD QAVFKCEVSD ENVRGVWLKN GKELVPDSRI KVSHIGRVHK</p> <p>LTIDDVTPAD EADYSFVPEG FACNLSAKLH FMEVKIDFVP RQEPPIHLD CPGRIPTIV</p>

VVAGNKLRLD VPISGDPAPT VIWQKAITQG NKAPARPAPD APEDTGDSDE WVFDKLLCE  
TEGRVRVETT KDRSIFTVEG AEKEDEGVYT VTVKNPVGED QVNLTVKVID VPDAPAAPKI  
SNVGEDSCTV QWEPPAYDGG QPILGYILER KKKKSYRWMR LNFDLIQELS HEARRMIEGV  
VYEMRVYAVN AIGMSRPSPA SQPFMPIGPP SEPTHLAVED VSDTTVSLKW RPPERVGAGG  
LDGYSVEYCP EGCSEWVAAL QGLTEHTSIL VKDLPTGARL LFRVRAHNMA GPGAPVTTTE  
PVTVQEILQR PRLQLPRHLR QTIQKKVGEP VNLLIPFQGK PRPQVTWTKE GQPLAGEEVS  
IRNSPTDIL FIRAARRVHS GTYQVTVRIE NMEDKATLVL QVVDKPSPPQ DLRVTDAWGL  
NVALEWKPPQ DVGNTLWGY TVQKADKKTW EWFTVLEHYR RTHCVPELI IGNGYYFRVF  
SQNMVGFSR AATTKEPVFI PRPGITYEPP NYKALDFSEA PSFTQPLVNR SVIAGYTAML  
CCAVRGSPKP KISWFKNGLD LGEDARFRMF SKQGVLTLEI RKPCPFDGGI YVCRATNLQG  
EARCECRLEV RVPQ

**Sequence without tag. The proposed Strep-Tag is based on experience s with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**

---

### Characteristics:

#### Key Benefits:

- Made in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified in one-step affinity chromatography
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a **made-to-order protein** and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

The big advantage of ordering our **made-to-order proteins** in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

#### Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from *Nicotiana tabacum* c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.
- During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system -

## Product Details

---

all that's needed is the DNA that codes for the desired protein!

### Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

---

Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).
---------------	--

---

Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
---------	--

---

Grade:	custom-made
--------	-------------

---

## Target Details

---

Target:	MYBPC3
---------	--------

---

Alternative Name:	MYBPC3 ( <a href="#">MYBPC3 Products</a> )
-------------------	--

---

Background:	Myosin-binding protein C, cardiac-type (Cardiac MyBP-C) (C-protein, cardiac muscle isoform),FUNCTION: Thick filament-associated protein located in the crossbridge region of vertebrate striated muscle a bands. In vitro it binds MHC, F-actin and native thin filaments, and modifies the activity of actin-activated myosin ATPase. It may modulate muscle contraction or may play a more structural role.
-------------	---

---

Molecular Weight:	140.8 kDa
-------------------	-----------

---

UniProt:	<a href="#">Q14896</a>
----------	------------------------

---

## Application Details

---

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
--------------------	--

---

Comment:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.
----------	--

During lysate production, the cell wall and other cellular components that are not required for

---

## Application Details

---

protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Restrictions: For Research Use only

## Handling

---

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.  
Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol **Might differ depending on protein.**

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months