

Datasheet for ABIN3095381  
**SH3BP4 Protein (AA 1-963) (Strep Tag)**



[Go to Product page](#)

## Overview

Quantity:	250 µg
Target:	SH3BP4
Protein Characteristics:	AA 1-963
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SH3BP4 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Brand:	AliCE®
Sequence:	MAAQRIRAAN SNGLPRCKSE GTLIDLSEGF SETSFNDIKV PSPSALLVDN PTPFGNAKEV IAIKDYCPTN FTTLKFSKGD HLYVLDTSGG EWWYAHNTTE MGYIPSSYVQ PLNYRNSTLS DSGMIDNLPD SPDEVAKELE LLGGWTDDKK VPGRMYSNNP FWNGVQTNPF LNGNVPVMPS LDELNPKSTV DLLLF DAGTS SFTESSATT NSTGNIFDEL PVTNGLHAEP PVRRDNPFFR SKRSYLSSEL SVLQAKSDAP TSSSFFTGLK SPAPEQFQSR EDFRTAWLNH RKLARSCHDL DLLGQSPGWG QTQAVETNIV CKLDSSGGAV QLPDTSISIH VPEGHVAPGE TQQISMKALL DPPELNSDR SCSISPVLEV KLSNLEVKTS IILEMKVSAE IKNDLFSKST VGLQCLRSDS KEGPYVSVPL NCSCGDTVQA QLHNLEPCMY VAVVAHGPSI LYPSTVWDFI NKKVTVGLYG PKHIHPSFKT VVTIFGHDC A PKTLLVSEVT RQAPNPAPVA LQLWGKHQFV LSRPQDLKVC MFSNMTNIEV KASEQAKVVR GFQLKLGKVS RLIFPITSQN PNELSDFTLR VQVKDDQEAI LTQFCVQTPQ PPPKSAIKPS GQRRFLKKNE VGKIILSPFA TTTKYPTFQD RVPSSLKFGK

LLKTVVRQNK NHYLLEYKKG DGIALLSEER VRLRGQLWTK EWYIGYYQGR VGLVHTKNVL  
VVGRARPSLC SGPELSTSVL LEQILRPCKF LTYIYASVRT LLMENISSWR SFADALGYVN  
LPLTFFCRAE LDSEPERVAS VLEKLKEDCN NTENKERKSF QKELVMALLK MDCQGLVRL  
IQDFVLLTTA VEVAQRWREL AEKLAKVSKQ QMDAYESPHR DRNGVVDSEA MWKPAYDFLL  
TWSHQIGDSY RDVIQELHLG LDKMKNPITK RWKHLTGTLI LVNSLDVLR AAFSPADQDD FVI

**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 - 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.

## Product Details

---

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:	SH3BP4
Alternative Name:	SH3BP4 ( <a href="#">SH3BP4 Products</a> )
Background:	SH3 domain-binding protein 4 (EH-binding protein 10) (Transferrin receptor-trafficking protein),FUNCTION: May function in transferrin receptor internalization at the plasma membrane through a cargo-specific control of clathrin-mediated endocytosis. Alternatively, may act as a negative regulator of the amino acid-induced TOR signaling by inhibiting the formation of active Rag GTPase complexes. Preferentially binds inactive Rag GTPase complexes and prevents their interaction with the mTORC1 complex inhibiting its relocalization to lysosomes and its activation. Thereby, may indirectly regulate cell growth, proliferation and autophagy. {ECO:0000269 PubMed:16325581, ECO:0000269 PubMed:22575674}.
Molecular Weight:	107.5 kDa
UniProt:	<a href="#">Q9P0V3</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 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

## Application Details

---

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

---