

Datasheet for ABIN3095653  
**STXBP5L Protein (AA 1-1186) (Strep Tag)**



[Go to Product page](#)

1 Image

Overview

Quantity:	1 mg
Target:	STXBP5L
Protein Characteristics:	AA 1-1186
Origin:	Human
Source:	Tobacco ( <i>Nicotiana tabacum</i> )
Protein Type:	Recombinant
Purification tag / Conjugate:	This STXBP5L protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	<p>MKKFNFRKVL DGLTASSPGS GSSSGSNSGG GAGSGSVHPA GTAGVLREEI QETLTSEYFQ              ICKTVRHGFP HQPTALAFDP VQKILAIGTR TGAIRILGRP GVDCYQCQES GAAVLQLQFL              INEGALVSAS SDDTLHLWNL RQKRPAIHS LKFNRRITY CHLPFQSKWL YVGTERGNTH              IVNIESFILS GYVIMWNKAI ELSTKTHPGP VVHLSDSPRD EGKLLIGYEN GTVVFWDLKS              KRAELRVYYD EAIHSIDWHH EGKQFMCSSHS DGSLTLWNLK SPSRPFQTTI PHGKSQREGR              KSESCKPILK VEYKTCKNSE PFIIFSGGLS YDKACRRPSL TIMHGKAITV LEMDHPIVEF              LTLCETPYPN EFQEPYAVVV LLEKDLIVVD LTQSNFPIPE NPYPMDIHES PVTCTAYFAD              CPPDLILVLY SIGVKHKKQG YSNKEWPISG GAWNLAQTY PEIITGHAD GSIKFDWASA              ITLQMLYKLV TSKVFEKQKV GEGKQTCEIV EEDPFAIQMI YWCPESRIFC VSGVSAYVII              YKFSRHEITT EIVSLEVLRLQ YDVEDIITPE PETSPPFPDL SAQLPSSRSL SGSTNTVASE              GVTKDSIPCL NVKTRPVRMP PGYQAEVLIQ LVWVDGEPPEQ QITSLAVSSA YGIVAFGNCN              GLAVVDFIQK TVLLSMGTID LYRSSDLYQR QPRSPRKNKQ FIADNFCMRG LSNFYPDLTk</p>
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RIRTSYQSLT ELNDSPVPLE LERCKSPSTSD HVNGHCTSPT SQSCSSGKRL SSADVSKVNR  
WGPRPPFRK AQSAACMEIS LPVTTEENRE NSYNRSRSSH ISSIDKDSKE AITALYFMDS  
FARKNDSTIS PCLFVGTSLG MVLIIISLNL LADEQRFTEP VMVLPSGTFL SLKGAVLTFS  
CMDRMGGLMQ PPYEVWRDPN NIDENEKSWR RKMVMNSSSA SQEIGDHQYT IICSEKQAKV  
FSLPSQTCLY VHNITETSFI LQANVVVMCS SACLACFCAN GHIMIMSLPS LRPMLDVNYL  
PLTDMRIART FCFTNEGQAL YLVSPTEIQR LTYSQEMCDN LQDMLGDLFT PIETPEAQRN  
GFLKGLFGGS GQTFDREELF GEASAGKASR SLAQHIPGPG SIEGMKGAAG GVMGELTRAR  
IALDERGQRL GELEEKTAGM MTSAEAFSKH AHELMLKYKD KKWYQF

**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.**

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### Characteristics:

#### Key Benefits:

- Made in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified by multi-step, protein-specific process to ensure correct folding and modification.
- 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 will ensure that you receive a correctly folded 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!

## Product Details

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### Concentration:

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

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### Purification:

Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):

1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE.
2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

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### Purity:

>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

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### Endotoxin Level:

Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)

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### Grade:

Crystallography grade

## Target Details

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### Target:

STXBP5L

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### Alternative Name:

STXBP5L ([STXBP5L Products](#))

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### Background:

Syntaxin-binding protein 5-like (Lethal(2) giant larvae protein homolog 4) (Tomosyn-2),FUNCTION: Plays a role in vesicle trafficking and exocytosis inhibition. In pancreatic beta-cells, inhibits insulin secretion probably by interacting with and regulating STX1A and STX4, key t-SNARE proteins involved in the fusion of insulin granules to the plasma membrane. Also plays a role in neurotransmitter release by inhibiting basal acetylcholine release from axon terminals and by preventing synaptic fatigue upon repetitive stimulation (By similarity). Promotes as well axonal outgrowth (PubMed:25504045). {ECO:0000250|UniProtKB:Q5DQR4, ECO:0000269|PubMed:25504045}.

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### Molecular Weight:

131.9 kDa

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### UniProt:

[Q9Y2K9](#)

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### Pathways:

[Negative Regulation of Hormone Secretion](#), [Carbohydrate Homeostasis](#)

## Application Details

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**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.

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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!

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**Restrictions:** For Research Use only

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## Handling

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**Format:** Liquid

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**Buffer:** The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.

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**Handling Advice:** Avoid repeated freeze-thaw cycles.

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**Storage:** -80 °C

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**Storage Comment:** Store at -80°C.

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**Expiry Date:** Unlimited (if stored properly)

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**Image 1.** „Crystallography Grade“ protein due to multi-step, protein-specific purification process