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Datasheet for ABIN7563799

**STXBP5L Protein (AA 1-1185) (His tag)**

## Overview

Quantity:	1 mg
Target:	STXBP5L
Protein Characteristics:	AA 1-1185
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This STXBP5L protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

## Product Details

Purpose:	Custom-made recombinat Stxbp5l Protein expressed in mammalian cells.
Sequence:	MKKFNFRKVL DGLTASSPGS GSSSGSNSGG AGSGSVHPGG TAGLPREEIQ ESLTSDYFQI CKTVRHGFPY QPTALAFDPV QKILAIGTRT GAIRILGRPG VDCYQCQHESG AAVLQLQFLI NEGALVSASS DDTLHLWNL RQKRPAILHSL KFNRRERITYC HLPFQSKWLY VGTERGNTHI VNIESFILSG YVIMWNKAIE LSTKTHPGPV VHLSDSPRDE GKLLIGYENG TVVFWDLKSK RAELRVYYDE AIHSIDWHHE GKQFMCSHSD GSLTLWNLKS PSRPFQTTVP HGKSQREGRK SESCKPILKV EYKTCRNSEP FIFSGGLSY DKACRRPSLT IMHGKAITVL EMDHPIVEFL TLCETYPNE FQEPYAVAVL LEKD LIVVDL TQTNFPIFEN PYPMDIHESP VTCTAYFADC PPDLILVLYS IGVKHKKQGY SNKEWPVSGG AWNLGAQTYP EIITGHADG TIKFWDASAM TLQMLYKLLK SKVFEKQKAG EGKQTCELVE EDPFAVQMIY WCPESTRFCV SGVSAYVIIY KFSRHEVTTE IVSLEVR LQC DVEDIITPEP ETSPPFPDLS SQLPPSRSL S GSTNTVSSEG VTKDSIPCLS VKTRPV RMPP GYQADLVIQL VWVDGEPQQ ITSLSISSAY GIVAFGNCTG

## Product Details

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LVVWDFIQKT VLLSMGTIDL YRSSDLYQRQ PRSPRKNRQF IADNFCMRGL SNFYPDLTR  
IRTSYQSLTE LNDSVPLEL ERCKSPTS DH VNGHCTSPTS QSCSSGKRLS SADVSKVNRW  
GPGRPPFRKA QSAACMEISL PVTTEETREN SYNRSR SSSI SSIDKDSKEA ITALYFMESF  
ARKNDSTVSP CLFVGTSLGM VVLISLNLPS SDEQRFTEPV VVLPSTGFLS LKGAVLTFSC  
MDRTGSLMQP PYEVWRDPNN TDENEKTWKR KLVMNYSSSS QEMGDHQYTI ICSEKQAKVF  
SLPSQTCLYV HNITETSFIL QADVVMCNS ACLACFCANG HIMIMSLPSL RPMLDVNYLP  
LTDMRIARTF CFTNEGQALY LVSPTEIQLR TYSQEMCDNI QDMLGDLFTP IETPEAQNRG  
FLKGLFGGSG QTFDREELFG EASAGKASRS LAQHIPGPGS IEGMKGAAGG VMGELTRARI  
ALDERGQRLG ELEEKTAGMM TSAEAFSKHA HELMLKYKDK KWYQF **Sequence without tag.**

**The proposed Purification-Tag is based on experiences 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 to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

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### Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

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### Grade:

custom-made

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## 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-

## Target Details

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2),FUNCTION: Plays a role in vesicle trafficking and exocytosis inhibition (PubMed:25002582). 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 (PubMed:21998599). Also plays a role in neurotransmitter release by inhibiting basal acetylcholine release from axon terminals and by preventing synaptic fatigue upon repetitive stimulation (PubMed:24744148). Promotes as well axonal outgrowth (By similarity). {ECO:0000250|UniProtKB:Q9Y2K9, ECO:0000269|PubMed:21998599, ECO:0000269|PubMed:24744148, ECO:0000269|PubMed:25002582}.

Molecular Weight: 131.8 kDa

UniProt: [Q5DQR4](#)

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.

Restrictions: For Research Use only

## Handling

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Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months