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## Datasheet for ABIN3095731 STAT5B Protein (AA 1-787) (Strep Tag)



Overview

Image

Quantity:	1 mg
Target:	STAT5B
Protein Characteristics:	AA 1-787
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This STAT5B protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

### Product Details

Sequence:	MAVWIQAQQL QGEALHQMQA LYGQHFPIEV RHYLSQWIES QAWDSVDLDN PQENIKATQL
	LEGLVQELQK KAEHQVGEDG FLLKIKLGHY ATQLQNTYDR CPMELVRCIR HILYNEQRLV
	REANNGSSPA GSLADAMSQK HLQINQTFEE LRLVTQDTEN ELKKLQQTQE YFIIQYQESL
	RIQAQFGPLA QLSPQERLSR ETALQQKQVS LEAWLQREAQ TLQQYRVELA EKHQKTLQLL
	RKQQTIILDD ELIQWKRRQQ LAGNGGPPEG SLDVLQSWCE KLAEIIWQNR QQIRRAEHLC
	QQLPIPGPVE EMLAEVNATI TDIISALVTS TFIIEKQPPQ VLKTQTKFAA TVRLLVGGKL
	NVHMNPPQVK ATIISEQQAK SLLKNENTRN DYSGEILNNC CVMEYHQATG TLSAHFRNMS
	LKRIKRSDRR GAESVTEEKF TILFESQFSV GGNELVFQVK TLSLPVVVIV HGSQDNNATA
	TVLWDNAFAE PGRVPFAVPD KVLWPQLCEA LNMKFKAEVQ SNRGLTKENL VFLAQKLFNN
	SSSHLEDYSG LSVSWSQFNR ENLPGRNYTF WQWFDGVMEV LKKHLKPHWN DGAILGFVNK
	QQAHDLLINK PDGTFLLRFS DSEIGGITIA WKFDSQERMF WNLMPFTTRD FSIRSLADRL
	GDLNYLIYVF PDRPKDEVYS KYYTPVPCES ATAKAVDGYV KPQIKQVVPE FVNASADAGG

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN3095731 | 04/16/2024 | Copyright antibodies-online. All rights reserved. GSATYMDQAP SPAVCPQAHY NMYPQNPDSV LDTDGDFDLE DTMDVARRVE ELLGRPMDSQ WIPHAQS

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 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 posttranslational 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 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.

# **Product Details** Two step purification of proteins expressed in Almost Living Cell-Free Expression System Purification: (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. >80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot. Purity: Endotoxin Level: Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg) Grade: Crystallography grade Target Details Target: STAT5B

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies
Application Details	
	Hormone Metabolic Process, Regulation of Leukocyte Mediated Immunity, Positive Regulation of Immune Effector Process, CXCR4-mediated Signaling Events, Activated T Cell Proliferation
Pathways:	JAK-STAT Signaling, RTK Signaling, Response to Growth Hormone Stimulus, C21-Steroid
UniProt:	P51692
Molecular Weight:	89.9 kDa
	ECO:0000269 PubMed:8732682}.
	differentiation. {EC0:0000269 PubMed:20702587, EC0:0000269 PubMed:29844444,
	activates PRL-induced transcription. Positively regulates hematopoietic/erythroid
	responses to the cytokine KITLG/SCF and other growth factors. Binds to the GAS element and
	signal transduction and activation of transcription (PubMed:29844444). Mediates cellular
Background:	Signal transducer and activator of transcription 5B,FUNCTION: Carries out a dual function:
Alternative Name:	STAT5B (STAT5B Products)
Target:	STATOR

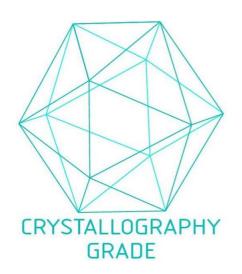
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies
	as well. As the protein has not been tested for functional studies yet we cannot offer a
	guarantee though.
Comment:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from
	Nicotiana tabacum c.v This contains all the protein expression machinery needed to produce

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	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!
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request,
	please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.

Images

Expiry Date:



Unlimited (if stored properly)

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

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