

Datasheet for ABIN3092023

## NSP5 Protein (AA 1-1068) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	NSP5 (SPECC1)
Protein Characteristics:	AA 1-1068
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This NSP5 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

### Product Details

Brand:	AliCE®
Sequence:	<p> MRSAAKPWNP AIRAGGHGPD RVRPLPAASS GMKSSKSSTS LAFESRLSRL KRASSEDTLN  KPGSTAASGV VRLKKTATAG AISEL TESRL RSGTGAFTTT KRTGIPAPRE FSVTVSRERS  VPRGPSNPRK SVSSPTSSNT PTPTKHLRTP STKPKQENEG GEKAALESQV RELAEAKAK  DSEINRLRSE LKKYKEKRTL NAEGTDALGP NVDGTSVSPG DTEPMIRALE EKNKNFQKEL  SDLEENRVL KEKLIYLEHS PNSEGAASHT GDSSCPTSIT QESSFGSPTG NQMSSDIDEY  KKNIHGNA LR TSGSSSSDVT KASLSPDASD FEHITAETPS RPLSSTSNPF KSSKCSTAGS  SPNSVSELSL ASLTEKIQKM EENHHSTAE LQATLQELSD QQMVQELTA ENEKLVDEKT  ILETSFHQHR ERAEQLSQEN EKLMNLLQER VKNEEPTTQE GKIELEQKC TGILEQGRFE  REKLLNIQQQ LTCSLRKVEE ENQGALEMIK RLKEENEKLN EFLELERHNN NMAKTLEEC  RVTLEGLKME NGSLKSHLQG EKQKATEASA VEQTAESCEV QEMLKVARAE KDILLESCNE  LRQELLKANG EIKHVSSLLA KVEKDYSYLK EICDHQAEQL SRTSLKLQEK ASEDADAEIKD </p>

MKETIFELED QVEQHRAVKL HNNQLISELE SSVIKLEEQK SDLERQLKTL TKQMKEETEE  
WRRFQADLQT AVVVANDIKC EAQQELRTVK RKLLEEEKN ARLQKELGDV QGHGRVVTSR  
AAPPVDEEP ESSEVDAAGR WPGVCVSRST PTPESATTV KSLIKSFDLG RPPGAGQNIS  
VHKTPRSPLS GIPVRTAPAA AVSPMQRHST YSSVRPASRG VTQRLDLPDL PLSDILKGRT  
ETLKPDPLR KSPSLESLSR PPSLGFGDTR LLSASTRAWK PQSKLSVERK DPLAALAREY  
GGSKRNALLK WCQKKTQGYA NIDITNFSSS WSDGLAFCAL LHTYLPAPHIP YQELNSQEKK  
RNLLAFEAA ESVGIKPSLE LSEMLYTDPR DWQSVMQYVA QIYKYFET

**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 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.

## Product Details

- 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:	NSP5 (SPECC1)
Alternative Name:	SPECC1 ( <a href="#">SPECC1 Products</a> )
Background:	Cytospin-B (Nuclear structure protein 5) (NSP5) (Sperm antigen HCMOGT-1) (Sperm antigen with calponin homology and coiled-coil domains 1)
Molecular Weight:	118.6 kDa
UniProt:	<a href="#">Q5M775</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:	<p>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.</p> <p>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!</p>
Restrictions:	For Research Use only

## Handling

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Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol <b>Might differ depending on protein.</b>
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months