

Datasheet for ABIN3093330

## SPAG9 Protein (AA 1-1321) (Strep Tag)



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### 1 Image

#### Overview

Quantity:	1 mg
Target:	SPAG9
Protein Characteristics:	AA 1-1321
Origin:	Human
Source:	Tobacco ( <i>Nicotiana tabacum</i> )
Protein Type:	Recombinant
Purification tag / Conjugate:	This SPAG9 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

#### Product Details

Sequence: MELEDGWVYQ EEPGGSGAVM SERVSLAGS IYREFERLIG RYDEEVKEL MPLVVAVLEN  
LDSVFAQDQE HQVELELLRD DNEQLITQYE REKALRKHAE EKFI EFEDSQ EQEKKDLQTR  
VESLESQTRQ LELKAKNYAD QISRLEERA ELKKEYNALH QRHTEMIHNY MEHLERTKLH  
QLSGSDQLES TAHSRIRKER PISLGIFPLP AGDGLLTPDA QKGGETPGSE QWK FQELSQP  
RSHTSLKVS N SPEPQKAVEQ EDELS DVSQ GSKATTPAST ANSDVATIPT DTPLKEENEG  
FVKVTDAPNK SEISKHIEVQ VAQETRVST GSAENEEKSE VQAIESTPE LDMDKDL SGY  
KGSSTPTKGI ENKAFDRNTE SLFEELSSAG SGLIGDVDEG ADLLGMGREV ENLILENTQL  
LETKNALNIV KNDLIAKVDE LTCEKDV LQG ELEAVKQAKL KLEEK NRELE EELRKARAEA  
EDARQKAKDD DDSDIPTAQR KRFRTRVEMAR VLMERNQYKE RLMELQEAVR WTEMIRASRE  
NPAMQEKKRS SIWQFFSRLF SSSSNTTKKP EPPVNLKYNA PTSHVTPSVK KRSSTLSQLP  
GDKSKAFDFL SEETEASLAS RREQKREQYR QVKAHVQKED GRVQAFGWSL PQKYKQVTNG  
QGENKMKNLP VPVYLRPLDE KDTSMKLWCA VGVNLSGGKT RDGGSVVGAS VFYKDVAGLD

TEGSKQRSAS QSSLDKLDQE LKEQKELKN QEELSSLVWI CTSTHSATKV LIIDAVQPGN  
ILDSFTVCNS HVLCIASVPG ARETDYPAGE DLSESGQVDK ASLCGSMTSN SSAETDSSLG  
GITVVGCSAE GVTGAATSPS TNGASPVMDK PPEMEAENSE VDENVPTAEE ATEATEGNAG  
SAEDTVDISQ TGVYTEHVFT DPLGVQIPED LSPVYQSSND SDAYKDQISV LPNEQDLVRE  
EAQMSSLLP TMWLGAQNGC LYVHSSVAQW RKCLHSIKLK DSILSIVHVK GIVLVALADG  
TLAIFHRGVD GQWDLSNYHL LDLGRPHHSI RCMTVVHDKV WCGYRNKIYV VQPKAMKIEK  
SFDAHPRKES QVRQLAWVGD GVVWSIRLDS TLRLYHAHTY QHLQDV DIEP YVSKMLGTGK  
LGFSFVRITA LMVSCNRLWV GTGNGVIISI PLTETNKTSG VPGNRPGSVI RYVGDENSDK  
VTPGTFIPYC SMAHAQLCFH GHRDAVKFFV AVPGQVISVQ SSSSGTDLTG DKAGPSAQEP  
GSQTPLKSML VISGGEGYID FRMGDEGGES ELLGEDLPLE PSVTKAERSH LIVWQVMYGN E

**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 -

## Product Details

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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.

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Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALICE®): <ol style="list-style-type: none"><li>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.</li><li>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.</li></ol>
Purity:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade

## Target Details

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Target:	SPAG9
Alternative Name:	SPAG9 ( <a href="#">SPAG9 Products</a> )
Background:	C-Jun-amino-terminal kinase-interacting protein 4 (JIP-4) (JNK-interacting protein 4) (Cancer/testis antigen 89) (CT89) (Human lung cancer oncogene 6 protein) (HLC-6) (JNK-associated leucine-zipper protein) (JLP) (Mitogen-activated protein kinase 8-interacting protein 4) (Proliferation-inducing protein 6) (Protein highly expressed in testis) (PHET) (Sperm surface protein) (Sperm-associated antigen 9) (Sperm-specific protein) (Sunday driver 1),FUNCTION: The JNK-interacting protein (JIP) group of scaffold proteins selectively mediates JNK signaling by aggregating specific components of the MAPK cascade to form a functional JNK signaling module (PubMed:14743216). Regulates lysosomal positioning by acting as an adapter protein which links PIP4P1-positive lysosomes to the dynein-dynactin complex (PubMed:29146937). Assists PIKFYVE selective functionality in microtubule-based endosome-to-TGN trafficking (By similarity). {ECO:0000250 UniProtKB:Q58A65, ECO:0000269 PubMed:14743216,

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## Target Details

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ECO:0000269|PubMed:29146937}.

Molecular Weight: 146.2 kDa

UniProt: [O60271](#)

Pathways: [Regulation of Muscle Cell Differentiation](#)

## 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.

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 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

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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.

Expiry Date: Unlimited (if stored properly)



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