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Datasheet for ABIN3095765

## SYCP2 Protein (AA 1-1530) (Strep Tag)

### 1 Image

#### Overview

Quantity:	1 mg
Target:	SYCP2
Protein Characteristics:	AA 1-1530
Origin:	Human
Source:	Tobacco ( <i>Nicotiana tabacum</i> )
Protein Type:	Recombinant
Purification tag / Conjugate:	This SYCP2 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

#### Product Details

Sequence:	<p>MPIRPDLQQL EKCIDDALRK NDFKPLKTL QIDICEDVKI KCSKQFFHKV DNLICRELNK EDIHNVSAI VSVGRCGKNI SVLGQAGLLT MIKQGLIQKM VAWFEKSKDI IQSQGNSKDE AVLNMIEDLV DLLLVIHDVS DEGKKQVVES FVPRICSLVI DSRVNICIQQ EIIKKMNAML DKMPQDARKI LSNQEMLILM SSMGERILDA GDYDLQVGIV EALCRMTEK QRQELAHQWF SMDFIAKAFK RIKDSEFETD CRIFLNLVNG MLGDKRRVFT FPCLSAFLDK YELQIPSDEK LEEFWIDFNL GSQTLSEFYIA GNDDDHQWEA VTPPEEKVQI YSIEVRESKK LLTIILKNTV KISKREGKEL LLYFDASLEI TNVTQKIFGA TKHRESIRKQ GISVAKTSLH ILFDASGSQI LVPESQISPV GEELVSLKEK SKSPKEFAKP SKYIKNSDKG NRRNSQLEKT TPSKRKMSEA SMIVSGADRY TMRSPVLFNS TSIPRRRRRI KPPLQMTSSA EKPSVSQTSE NRVDNAASLK SRSSEGRHRR DNIDKHIKTA KCVENTENKN VEFPNQNFSE LQDVIPDSQA AEKRDHTILP GVLDNICGNK IHSKWACWTP VTNIELCNNQ RASTSSGDTL NQDIVINKKL TKQKSSSSIS DHNSEGTGKV KYYKEQTDHI KIDKAEVEVC KKHNNQQNHP KYSGQKNTEN AKQSDWPVES ETTFKSVLLN</p>
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KTIEESLIYR KKYILSKDVN TATCDKNPSA SKNVQSHRKA EKELTSELNS WDSKQKKMRE  
KSKGKEFTNV AESLISQINK RYKTKDDIKS TRKLKESLIN SGFSNKPVVQ LSKEKVQKKS  
YRKLKTTFVN VTSECPVNDV YNFNLNGADD PIIKLGIQEF QATAKEACAD RSIRLVGPRN  
HDELKSSVKT KDKKIITNHQ KKNLFSDET EYRCDDSKTD ISWLREPKSK PQLIDYSRNK  
NVKNHKSQGS RSSLEKGQPS SKMTPSKNIT KKMDKTIPEG RIRLPRKATK TTKNYKDLSN  
SESECEQEFS HSFKENIPVK EENIHSRMKT VKLPKKQKQV FCAETEKELS KQWKNSLLK  
DAIRDNCLDL SPRSLSGSPS SIEVTRCIEK ITEKDFTQDY DCITKSISPY PKTSSLESLN  
SNSGVGGTIK SPKNNEKNFL CASESCSPIP RPLFLPRHTP TKSNTIVNRK KISSLVLTQE  
TQNSNSYSYDV SSYSSEERFM EIESPHINEN YIQSKREESH LASSLSKSSE GREKTWFDMP  
CDATHVSGPT QHLSRKRIYI EDNLSNSNEV EMEEKGERRA NLLPKKLCKI EDADHHIHKM  
SESVSSLSTN DFSIPWETWQ NEFAGIEMTY ETYERLNSEF KRRNNIRHKM LSYFTTQSWK  
TAQQHLRTMN HQSQDSRIKK LDKFQFIIIE ELENFEKDSQ SLKDLEKEFV DFWEKIFQKF  
SAYQKSEQQR LHLLKTSKAK SVFCNTDSEE TVFTSEMCLM KEDMKVLQDR LLKDMLEEEEL  
LNVRRELMVS FMSHERNANV

**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.

## Product Details

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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!

### 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:	SYCP2
Alternative Name:	SYCP2 ( <a href="#">SYCP2 Products</a> )
Background:	Synaptonemal complex protein 2 (SCP-2) (Synaptonemal complex lateral element protein) (hsSCP2),FUNCTION: Major component of the axial/lateral elements of synaptonemal complexes (SCS) during meiotic prophase. Plays a role in the assembly of synaptonemal complexes. Required for normal meiotic chromosome synapsis during oocyte and spermatocyte development and for normal male and female fertility. Required for insertion of SYCP3 into synaptonemal complexes. May be involved in the organization of chromatin by temporarily binding to DNA scaffold attachment regions. Requires SYCP3, but not SYCP1, in

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## Target Details

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order to be incorporated into the axial/lateral elements. {ECO:0000250|UniProtKB:Q9CUU3}.

Molecular Weight: 175.6 kDa

UniProt: [Q9BX26](#)

Pathways: [M Phase](#)

## 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