

Datasheet for ABIN3137042

SYCP2 Protein (AA 1-1500) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	SYCP2
Protein Characteristics:	AA 1-1500
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SYCP2 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AlIcE®
Sequence:	MPVRPDLQQL EKCIDDALRK NDFKPLLALL QIDICEDVKI KCSKQFLRKL DDLCIRELNK KDIQTVSSIL ISIGRCSKNI FILGQAGLQT MIKQGLVQKM VSWFENSKEI ILNQQQSKDE AVMNMIEDLF DLLMVIYDIS DEGKNQVLES FIPQICALVI DSRVNFCIQQ EALKKMNLML DRIPQDANKI LSNQEMLTLM SNMGERILDV GDYELQVGIV EALCRMTEK RRQELAYEWF SMDFIANAFK EIKDCEFETD CRIFLNLVNG ILGDKRRVYT FPCLSAFLGK YELQIPSDEK LEEFWIDFNL GSHTLSFYIA GDEEDHQWEA VTPPEEKVQM YNIEVRESKK LLTLTLKNIV KISKKEGKEL LFYFDESLEI TNVTKKVFGG NKYKEFTRKQ GISVAKTSIH VLFDASGSQI LVPESQPSPV KENLIHLKEK SDIQKKLVNP LELGNSSSQD EITTPSRKKM SEASMIVPDT DRYTVRSPIL LINTSTPRRS REPLQAINSV EKAIVSKTSES GMDYAASPKS RQSDGRKRWN NРАНHNKTTA VIQNKQYEDN ESPDQNFNEI EDTLSNVSSA VGKVDKPVLP GVLDISKNTT HSRWACWTPV TTIKLCNNQR SRALPGDTCT QDTGVNKKCT KQKSVSDDDS EETQKGKYSK

DVIKCNKSDE AEFCEIRNIQE QNHPKYSQKK NTANAKKSDW HIESETTYKS VLLNKTTEES
LIYKKTCLVS KDVNTTICDK SPSRKSQRNH TKSRELMS LTSCLEEEIP VRENSKGKRF
TGASESLINQ ISRRYNPSDS MMSTRKLKEP QDGSFGSKKP DLQFNKVQRK SYRKLKATVV
NVTSECPLDD VYNFSLNGAD EPIKLGIEQ FQATTREASM DNSLKLKVNH DEHDPFLKTK
DKRMLSYEKK TLLSDTETEC GCDDSKTDIS WLKEPKTKRL MDYSRNKNTT KYKSRKSRSS
MEKGQPRPTM VLNKNMKND YEVVVDGRTR LPRRATKTKK NYKDLSTSES ESESEKECSY
LFKDKLPTKE ETIHSRAQTK KLPEKQKQVF NSEALKGQPS EEQKNSSRLR EGREDSLCLS
SASVSRSSSS VEVMRCTEKI TERDFTQDYD YITKSLSPYP KAPSPEFLNG NNSVVGRGQS
PRISETSAMC VRKSYSPASG PPFSPRHTPT KNNSVVMKK ANSVINNQRT QHCNSYSDVS
SNSSEKLYME PESPECDNH MQNKREGNHA ASPLSLSEK IEKMWFDMPES ENTHVSGPSQ
RGSKRMYLE DDELSNSNEA EEEAEEREH LLSKKRCQWE NSDQHTFKTS LSTPDFSVPK
DWQQELQGAG MFYDNISDY KRKTDSQHKI MDDFTTKTLK LTQQHLMAMT SQAQGRDEN
VEKFQVTLTD ELEKVEKDSQ TLRDLEKELV DIEEKLKQKM RAYHRCERER FRVLKTSLDK
SFLVNSVYE ESVFTSEMCL MKANMKMLQD KLLKEMHEEE VLNIRRLGLQS LFKAHEGNDA

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 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

Product Details

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 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:	SYCP2
Alternative Name:	Sycp2 (SYCP2 Products)
Background:	Synaptonemal complex protein 2 (SCP-2) (Synaptonemal complex lateral element protein),FUNCTION: Major component of the axial/lateral elements of synaptonemal complexes (SCS) during meiotic prophase. Plays a role in the assembly of synaptonemal complexes (PubMed:16717126). Required for normal meiotic chromosome synapsis during oocyte and spermatocyte development and for normal male and female fertility (PubMed:16717126). Required for insertion of SYCP3 into synaptonemal complexes (PubMed:16717126). May be involved in the organization of chromatin by temporarily binding to DNA scaffold attachment regions. Requires SYCP3, but not SYCP1, in order to be incorporated into the axial/lateral elements. {ECO:0000269 PubMed:11463847, ECO:0000269 PubMed:16717126}.
Molecular Weight:	172.1 kDa
UniProt:	Q9CUU3
Pathways:	M Phase

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: 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

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.
Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol **Might differ depending on protein.**

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months