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Datasheet for ABIN7564949

**SYCP2 Protein (AA 1-1500) (His tag)**

## Overview

Quantity:	1 mg
Target:	SYCP2
Protein Characteristics:	AA 1-1500
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SYCP2 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant Sypc2 Protein expressed in mammalian cells.
Sequence:	MPVRPDLQQL EKCIDDALRK NDFKPLLALL QIDICEDVKI KCSKQFLRKL DDLICRELNK 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 VTVPEEKVQM YNIEVRESKK LLTLTLKNIV KISKKEGKEL LFYFDESLEI TNVTKKVFGG NKYKEFTRKQ GISVAKTSIH VLFDASGSQI LVPESQPSPV KENLIHLKEK SDIQKLVNP LELGNSSSQD EITTPSRKKM SEASMIVPDT DRYTVRSPIL LINTSTPRRS REPLQAINSV EKAIVSKTSES GMDYAASPKS RQSDGRKRWN NRANHNKTTA VIQNKQYEDN ESPDQNFNEI EDTLSNVSSA VGKVDKPVLP GVLDISKNTT HSRWACWTPV TTIKLCNNQR SRALPGDTCT QDTGVNKKCT KQKSVSDDDS EETQKGKYSK DVIKCNKSDE AEFCEIRNIQE QNHPKYSQKK NTANAKKSDW HIESETTYKS VLLNKTTES

LIYKKTCVLS KDVNTTICDK SPSRKSKRNH TKSRELKEMSE LTSCLEEIP VRENSKGKRF  
TGASESLINQ ISRRYNPSDS MMSTRKLKEP QDGSFGSKKP DLQFNKVQRK SYRKLKATVV  
NVTSECPLDD VYNFSLNGAD EPVIKLGIQE FQATTREASM DNSLKLKLVKNH DEHDPFLKTK  
DKRMLSYEKK TLLSDTETEC GCDDSKTDIS WLKEPKTKRL MDYSRNKNTT KYKSRKSRSS  
MEKGQPRPTM VLNKNSMKND YEVVVDGRTR LPRRATKTKK NYKDLSTSES ESESEKECSY  
LFKDKLPTKE ETIHSRAQTK KLPEKQKQVF NSEALKGQPS EEQKNSSRLR EGREDSLCLS  
SASVSRSSSS VEVMRCTEKI TERDFTQDYD YITKSLSPYP KAPSPEFLNG NNSVVGRGQS  
PRISETSAMC VRKSYSPASG PPFSPRHTPT KNNSVVMKK ANSVINNQRT QHCNSYSQVS  
SNSSEKLYME PESPECDNH MQNKREGNHA ASPLSLSEK IEKMWFDMPS ENTHVSGPSQ  
RGSKRMYLE DDELSNSNEA EVEEAEREH LLSKKRCQWE NSDQHTFKTS LSTPDFSVPK  
DWQQLQGAG MFYDNISSDY KRKTDSQHKI MDDFTTKTLK LTQQHLMAMT SQAQGRDEN  
VEKFQVTLTD ELEKVEKDSQ TLRDLEKELV DIEEKLQKM RAYHRCERER FRVLKTSLDK  
SFLVNSVYE ESFTSEMCL MKANMKMLQD KLLKEMHEEE VLNIRRGLOS LFKAHEGNDA

**Sequence without tag. The proposed Purification-Tag is based on experiences 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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Specificity: If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

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Characteristics: Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

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Purity: > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

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Grade: custom-made

## Target Details

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Target:	SYCP2
Alternative Name:	Sypc2 ( <a href="#">SYCP2 Products</a> )
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:	<a href="#">Q9CUU3</a>
Pathways:	<a href="#">M Phase</a>

## Application Details

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Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

## Handling

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Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months