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Datasheet for ABIN3092967  
**SYNCRIP Protein (AA 2-623) (His tag)**

### Overview

Quantity:	1 mg
Target:	SYNCRIP
Protein Characteristics:	AA 2-623
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SYNCRIP protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

### Product Details

Sequence: ATEHVNGNGT EEPMDTTSV IHSNFQTL DAGLPQKVAE KLDEIYVAGL VAHSDLDERA  
IEALKEFNED GALAVLQQFK DSDLSHVQNK SAFLCGVMKT YRQREKQGTK VADSSKGPDE  
AKIKALLERT GYTLDVTTGQ RKYGGPPPDS VYSGQQPSVG TEIFVGKIPR DLFEDELVPL  
FEKAGPIWDL RLMMDPLTGL NRGYAFVTFE TKEAAQEAVK LYNNHEIRSG KHIGVCISVA  
NNRLFVGSIP KSKTKEQILE EFSKVTEGLT DVILYHQPDD KKKNRGFCFL EYEDHKATAAQ  
ARRRLMSGKV KVGWNVGTVE WADPIEDPDP EVMKVKVLF VRNLANTVTE EILEKAFSQF  
GKLERVKKLL DYAFIHFDER DGAVKAMEEM NGKDLEGENI EIVFAKPPDQ KRKERKAQRQ  
AAKNQMYDDY YYYGPPHMPP PTRGRGRGGR GGYGYPPDYY GYEDYYDYYG YDYHNYRGGY  
EDPYYGYEDF QVGARGRGRG GARGAAPSRG RGAAPPRGRA GYSQRGGPGS ARGVARGARG  
AQQQRGRGVR GARGGRGGNV GGKRAKADGYN QPDSKRRQTN NQNWGSQPIA QQPLQGGDHS  
GNYGYKSENQ EFYQDTFGQQ WK

**Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a**

### **special request, please contact us.**

#### Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Human SYNCRIP Protein (raised in E. Coli) purified by multi-step, protein-specific process to ensure crystallization grade.
- 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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

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.

The concentration of the protein is calculated using its specific absorption coefficient. We use the ExPASy's ProtParam tool to determine the absorption coefficient of each protein.

#### Purification:

Two step purification of proteins expressed in bacterial culture:

1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
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.

#### Purity:

>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

#### Sterility:

0.22 µm filtered

#### Endotoxin Level:

Endotoxin has not been removed. Please contact us if you require endotoxin removal.

#### Grade:

Crystallography grade

## Target Details

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Target: SYNCRIP

Alternative Name: SYNCRIP ([SYNCRIP Products](#))

Background: Heterogenous nuclear ribonucleoprotein (hnRNP) implicated in mRNA processing mechanisms. Component of the CRD-mediated complex that promotes MYC mRNA stability. Isoform 1, isoform 2 and isoform 3 are associated in vitro with pre-mRNA, splicing intermediates and mature mRNA protein complexes. Isoform 1 binds to apoB mRNA AU-rich sequences. Isoform 1 is part of the APOB mRNA editosome complex and may modulate the postranscriptional C to U RNA-editing of the APOB mRNA through either by binding to A1CF (APOBEC1 complementation factor), to APOBEC1 or to RNA itself. May be involved in translationally coupled mRNA turnover. Implicated with other RNA-binding proteins in the cytoplasmic deadenylation/translational and decay interplay of the FOS mRNA mediated by the major coding-region determinant of instability (mCRD) domain. Interacts in vitro preferentially with poly(A) and poly(U) RNA sequences. Isoform 3 may be involved in cytoplasmic vesicle-based mRNA transport through interaction with synaptotagmins. Component of the GAIT (gamma interferon-activated inhibitor of translation) complex which mediates interferon-gamma-induced transcript-selective translation inhibition in inflammation processes. Upon interferon-gamma activation assembles into the GAIT complex which binds to stem loop-containing GAIT elements in the 3'-UTR of diverse inflammatory mRNAs (such as ceruplasmin) and suppresses their translation, seems not to be essential for GAIT complex function.

{ECO:0000269|PubMed:11051545, ECO:0000269|PubMed:11134005, ECO:0000269|PubMed:11352648, ECO:0000269|PubMed:11574476, ECO:0000269|PubMed:19029303, ECO:0000269|PubMed:23071094}.

Molecular Weight: 70.4 kDa Including tag.

UniProt: [O60506](#)

## 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: In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.

## Application Details

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Restrictions: For Research Use only

## Handling

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Format: Liquid

Buffer: 100 mM NaCl, 20 mM Hepes, 10% glycerol. pH value 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: Unlimited (if stored properly)