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Datasheet for ABIN3090410

## CHAF1A Protein (AA 1-956) (Strep Tag)

### 1 Image

#### Overview

Quantity:	1 mg
Target:	CHAF1A
Protein Characteristics:	AA 1-956
Origin:	Human
Source:	Tobacco ( <i>Nicotiana tabacum</i> )
Protein Type:	Recombinant
Purification tag / Conjugate:	This CHAF1A protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

#### Product Details

Sequence: MLEELECGAP GARGAATAMD CKDRPAFPVK KLIQARLPFK RLNLVPKGKA DDMSDDQGTS  
VQSKSPDLEA SLDTLENNCH VGSDIDFRPK LVNGKGPLDN FLRNRIETSI GQSTVIIDL  
EDSNEQPDSL VDHNKLNSEA SPSREAINGQ REDTGDQQGL LKAIQNDKLA FPGETLSDIP  
CKTEEEGVGC GGAGRRGDSQ ECSPRSCPEL TSGPRMCPRK EQDSWSEAGG ILFKGKVP  
VLQDILAVRP PQIKSLPATP QGKNMTPESI VLESFPEEDS VLSHSSLSSP SSTSSPEGPP  
APPKQHSSTS PFPTSTPLRR ITKKFVKGST EKNKLRLQRD QERLGKQLKL RAEREEKEKL  
KEEAKRAKEE AKKKKEEKEE LKEKERREKR EKDEKEKA EKQLKEERRKE RQEALAKLE  
EKRRKKEEKR LREEEKRIKA EKAEITRFFQ KPKTPQAPKT LAGSCGKFAP FEIKEHMLVA  
PRRRTAFHPD LCSQLDQLLQ QQSSEFSFLK DLKGRQPLRS GPTHVSTRNA DIFNSD  
VIV ERGKGDGVPE RRFKGRMKLL QFCENHRPAY WGTWNKKTAL IRARDPWAQD TKLLDYE  
VDS DEEWEEEEPG ESLSHSEGDD DDDMGEDEDE DDGFFVPHGY LSEDEGVTEE CADPEN  
HKVR QKLKAKWEDE FLAKGKRFRV LQPVKIGCVW AADRDCAGDD LKVLQQFAAC FLETLPAQEE

QTPKASKRER RDEQILAQLL PLLHGNVNGS KVIIREFQEH CRRGLLSNHT GSPRSPSTTY  
LHTPTSEDA AIPSKSRLKR LISENSVYEK RPDFRMCWYV HPQVLQSFQQ EHLVPCQWS  
YVTSVPSAPK EDSGSPSTG PSQGTPISLK RKSAGSMCIT QFMKKRRHDG QIGAEDMDGF  
QADTEEEEEEGDCMIVDVP DAAEVQAPCG AASGAGGGVG VDTGKATLTA SPLGAS

**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 - 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.

## Product Details

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- We use the ExPASy's ProtParam tool to determine the absorption coefficient of each protein.

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:	CHAF1A
Alternative Name:	CHAF1A ( <a href="#">CHAF1A Products</a> )
Background:	Chromatin assembly factor 1 subunit A (CAF-1 subunit A) (Chromatin assembly factor I p150 subunit) (CAF-I 150 kDa subunit) (CAF-I p150) (hp150),FUNCTION: Core component of the CAF-1 complex, a complex that is thought to mediate chromatin assembly in DNA replication and DNA repair. Assembles histone octamers onto replicating DNA in vitro. CAF-1 performs the first step of the nucleosome assembly process, bringing newly synthesized histones H3 and H4 to replicating DNA, histones H2A/H2B can bind to this chromatin precursor subsequent to DNA replication to complete the histone octamer. It may play a role in heterochromatin maintenance in proliferating cells by bringing newly synthesized cbx proteins to heterochromatic DNA replication foci. {ECO:0000250 UniProtKB:Q5R1T0}.
Molecular Weight:	106.9 kDa
UniProt:	<a href="#">Q13111</a>

## 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.
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## Application Details

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Comment:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> 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.</p> <p>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!</p>
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)

## Images

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