

Datasheet for ABIN3137359

## CHAF1A Protein (AA 1-911) (Strep Tag)



[Go to Product page](#)

### Overview

Quantity:	250 µg
Target:	CHAF1A
Protein Characteristics:	AA 1-911
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CHAF1A protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

### Product Details

Brand:	AliCE®
Sequence:	<p>MLEEPEATR TAAAVDCKDR PGFPVKRLIQ ARLPFKRLNL VPKEKVEEDT SPKAAVESKV</p> <p>PDLQLSLGTF ESQCHTGS HV GLSTKLVG GQ GPIDSFLRAT IKPVPSVII DLTENCSDIP</p> <p>DSPEGHSELS PDTAGVTTV EGA AKQ QEHS AAELCLLETP SDITCHMEEE PGSPGDPKRT</p> <p>GDCQAGSLQS CPELTPGSRT CPTKELSSWS KAGDLLFIEK VPVWLEDIL ATKPSIASLP</p> <p>MMSLDRSVTS ESEILESCPE DDSILSHSST NSSPTSSPE GPSTPPEHRG GRSSPSTPAC</p> <p>RVAKNFVKGS TEKGRSKLHR DREQQREEKE KLREEIRRAK EEARKKKEEE KELKEKERRE</p> <p>KREKDEKEKA EKQRLKEEKR KERQEALEAK LEEKRKKEEE KRLREEEKRL REEEKRIKAE</p> <p>KAEITRFFQK PKTPQAPKTL AGSCGKFAPF EIKEHMLVAP RCRAALDQDL CDQLDQLLQQ</p> <p>QSVASTFLSD LKSRLPLRSG PTRVCGHDTD IMNRDVVIVE SSKVDGVSER KKFGRMKLLQ</p> <p>FSENHRPAYW GTWNKKTAAI RPRNPWAQDK DLLDYEVDS D DEWEEEEEPGE SLSHSEGDED</p> <p>DDVGEDEDED DGFFVPHGYL SEDEGVTEEC ADPENHKVHQ KLKAKEWDEL LAKGKRFRVL</p>

QPVHVGCVWA SEAANCTSSD LKLLQQFTAC LLDVASPDEP EPGASRREKR DQHILAQLLP  
LLHGNVNGSK VIIHEFQEQC RRGLLTLPSP TPHLQMPNLE DAVAVPSKAR LKRLISENSA  
YEKRPNFRMC WYVHPEVLKS FGQECLPVPC QWTYITTMPS APREDSGSAS TEGPGQSTPM  
LLKRKPAATM CITQFMKKRR YDGQVGSGDM DGFQADTEED EEDDTDCMII DVPDVGSDVS  
EAPIAPTLC K

**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 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 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.

## Product Details

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Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).
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Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
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Grade:	custom-made
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## Target Details

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Target:	CHAF1A
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Alternative Name:	Chaf1a ( <a href="#">CHAF1A Products</a> )
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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),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}.
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Molecular Weight:	101.9 kDa
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UniProt:	<a href="#">Q9QWF0</a>
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## 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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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</p>
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Application Details

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 <b>Might differ depending on protein.</b>
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months