

Datasheet for ABIN3130794

CTCFL Protein (AA 1-636) (Strep Tag)



[Go to Product page](#)

Overview

Quantity:	250 µg
Target:	CTCFL
Protein Characteristics:	AA 1-636
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CTCFL protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), ELISA, Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MAAAEVPVPS GYFTQIKEQK LKPGDLEEEK EEDGVQRVEA QEGVVKEVEA ENSCLLLEAR APVESDRRIL TLQTVHLESQ DVHLQGLGWL SVPHSEELSG TVPEAEGILQ LPSVLWLDPE PQLSLQHCVT VSIPEELYPP EELQRIHFHL LRENVLMAGE NPETPDLDE STALKKPEED EKDQLPPQGE TDKREERLLL LEMKPKEGKD DEIVLTISHL SLEEQDPPA ANQTSVPGAK AAKPKRRRQT KGKPQSFQCD TCPFTSSKLS TFNRHIKHS NERPHLCHLC LKAFRTVTLL RNHVNTHTGT RPHKCRDCDM AFVTSGELVR HRRYKHTYEK PFKCSLCKYA SVEASKMKRH IRSHTGERPF QCCQCAYASR DSYKLKRHMR THSGEKPYEC PTCHVRFTQS GTMKIHIAQK HGENVPKYEC PHCATIARK SDLRVHLRNL HSQSPEEMKC RYCPAGFHER YALIQHQRTN KNEKKFKCKQ CDYACKQERC LKAHMRMHTG EKPFSCLACN KHFRQKQLLT VHLLRKYHDPN FVPNLHLCLK CDKRFSSRSN LQRHRKKCDP EHETLAPNKD RRPVTRTQAS EGEAGHKEGE PQCPGEQALG HQGEAAGSQS PDHGLTCEII FNMMMDK

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 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).

Product Details

Grade: custom-made

Target Details

Target: CTCFL

Alternative Name: Ctcfl ([CTCFL Products](#))

Background: Transcriptional repressor CTCFL (Brother of the regulator of imprinted sites) (CCCTC-binding factor) (CTCF paralog) (CTCF-like protein),FUNCTION: Testis-specific DNA binding protein responsible for insulator function, nuclear architecture and transcriptional control, which probably acts by recruiting epigenetic chromatin modifiers. Plays a key role in gene imprinting in male germline, by participating in the establishment of differential methylation at the IGF2/H19 imprinted control region (ICR). Directly binds the unmethylated H19 ICR and recruits the PRMT7 methyltransferase, leading to methylate histone H4 'Arg-3' to form H4R3sme2. This probably leads to recruit de novo DNA methyltransferases at these sites. Seems to act as tumor suppressor. In association with DNMT1 and DNMT3B, involved in activation of BAG1 gene expression by binding to its promoter. Required for dimethylation of H3 lysine 4 (H3K4me2) of MYC and BRCA1 promoters. {ECO:0000269|PubMed:17048991}.

Molecular Weight: 73.1 kDa

UniProt: [A2APF3](#)

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!

Application Details

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