

Datasheet for ABIN3091857

## CLUH Protein (AA 1-1309) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	CLUH
Protein Characteristics:	AA 1-1309
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CLUH protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

### Product Details

Brand:	AliCE®
Sequence:	<p>MLLNGDCPES LKKEAAAAEP PRENGLDEAG PGDETTGQEV IVIQDTGFSV KILAPGIEPF</p> <p>SLQVSPQEMV QEIHQVLMR EDTCHRTCFS LHL DGNVLDH FSELRSVEGL QEGSVLRVVE</p> <p>EPYTVREARI HVRHVRDLLK SLDP SDAFNG VDCNSLSFLS VFTDGD LGDS GKRKKGLEMD</p> <p>PIDCTPPEYI LPGSRERPLC PLQPQNRDWK PLQCLKVLT M SGWNPPPGNR KMHGDL MYLF</p> <p>VITAEDRQVS ITASTRG FYL NQSTAYHFNP KPASPRFLSH SLVELLNQIS PTFKKNFAVL</p> <p>QKKRVQRHPF ERIATPFQVY SWTAPQAEHA MDCVRAEDAY TSRLGYEEHI PGQTRDWNEE</p> <p>LQTTRELPRK NLPERLLRER AIFKVHSDFT AAATRGAMAV IDGNVMAINP SEETKMQMFI</p> <p>WNNIFFSLGF DVRDHYKDFG GDVAAYVAPT NDLNGVRTYN AVDVEGLYTL GTVVVDYRGY</p> <p>RVTAQSIIPG ILERDQEQSV IYGSIDFGKT VVSHPRYLEL LERTSRPLKI LRHQVLNDRD</p> <p>EEVELCSSVE CKGIIGNDGR HYILDLLRTF PPDNLNLPVP GEELPEECAR AGFPRAHRHK</p> <p>LCCLRQELVD AFVEHRYLLF MKLAALQLMQ QNASQLETPS SLENGGPSSL ESKSEDPPGQ</p>

EAGSEEEGSS ASGLAKVKEL AETIAADDGT DPRSREVIRN ACKAVGSISS TAFDIRFNPD  
IFSPGVRFP E SCQDEV RDQK QLLKDAA AFL LSCQIPGLVK DCMEHAVLPV DGATLAEVMR  
QRGINMRYLG KVLELVLRSP ARHQLDHVFK IGIGELITRS AKHIFKTYLQ GVELSGLSAA  
ISHFLNCFLS SYPNPVAHLP ADELVSKKRN KRRKNRPPGA ADNTAWAVMT PQELWKNICQ  
EAKNYFDFDL ECETVDQAVE TYGLQKITLL REISLKTGIQ VLLKEYSFDS RHKPAFTEED  
VLNIFPVVKH VNPKASDAFH FFQSGQAKVQ QGFLKEGCEL INEALNLFNN VYGAMHVETC  
ACLRLLARLH YIMGDYAEAL SNQQKAVLMS ERVMGTEHPN TIQEYMH LAL YCFASSQLST  
ALSLLYRARY LMLLVFGEDH PEMALLDNNI GLVLHGVM EY DLSLRFL ENA LAVSTKYHGP  
KALKVALSHH LVARVYESKA EFRSALQHEK EGYTIYKTQL GEDHEKTKES SEYLKCLTQQ  
AVALQRTMNE IYRNGSSANI PPLKFTAPSM ASVLEQLNVI NGILFIPLSQ KDLENLKA EV  
ARRHQLQEAS RNRDRAE EPM ATEPAPAGAP GDLGSQPPAA KDPSPSVQG

**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 -

## Product Details

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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).
Grade:	custom-made

## Target Details

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Target:	CLUH
Alternative Name:	CLUH ( <a href="#">CLUH Products</a> )
Background:	Clustered mitochondria protein homolog,FUNCTION: mRNA-binding protein involved in proper cytoplasmic distribution of mitochondria. Specifically binds mRNAs of nuclear-encoded mitochondrial proteins in the cytoplasm and regulates transport or translation of these transcripts close to mitochondria, playing a role in mitochondrial biogenesis. {ECO:0000255 HAMAP-Rule:MF_03013, ECO:0000269 PubMed:25349259}.
Molecular Weight:	146.7 kDa
UniProt:	<a href="#">O75153</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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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