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Datasheet for ABIN3096515

**ZC3H4 Protein (AA 1-1303) (Strep Tag)**

## Overview

Quantity:	1 mg
Target:	ZC3H4
Protein Characteristics:	AA 1-1303
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ZC3H4 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

## Product Details

Sequence:	MEAAPGTPPP PPSEPPPPS PPPSTPSPP PCSPDARPAT PHLLHHRLPL PDDREDGELE EGELEDGAE ETQDTSGGPE RSRKEKGEEKH HSDSDEEKSH RRLKRKRKKE REKEKRRSKK RRKSKHKRHA SSSDDFSDFS DDSDFSPSEK GHRKYREYSP PYAPSHQQYP PSHATPLPKK AYSKMDSKSY GMYEDYENEQ YGEYEGDEEE DMGKEDYDDF TKELNQYRRA KEGSSRGRGS RGRGRGYRGR GSRGGSRRGR MGRGSRGRGR GSMGGDHPED EEDFYEEEMD YGESEEPMGD DDYDEYSKEL NQYRRSKDSR GRGLSRGRGR GSRGRGKGMG RGRGRGGSRG GMNKGGMNDD EDFYDEDMGD GGGGSYRSRD HDKPHQQSDK KGVICKYFV EGRCTWGDHC NFSHDIPLPK KRELCKFYIT GFCARAENCP YMHGDFPCKL YHTTGNCING DDCMFSDHPL TEETRELLDK MLADDAEAGA EDEKEVEELK KQGINPLPKP PPGVGLLPTP PRPPGPQAPT SPNGRPMQGG PPPPPPPPPP PPGPPQMPMP VHEPLSPQQL QQQDMYNKKI PSLFEIVVRP TGQLAEKLGV RFPGGGGPPG PMGPGPNMGP PGPMGGPMHP DMHPDMHPDM HPDMHADMDHA DMPMPGPMNP GPPMGGGGPP MMPYGGDPS HSGMMPIPP AQNFYENFYQ QQEGMEMEPG
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LLGDAEDYGH YEELPGEPGE HLFPEHPLEP DSFSEGGPPG RPKPGAGVPD FLPSAQRALY  
LRIQQKQEE EERARRLAES SKQDRENEEG DTGNWYSSDE DEGGSSVTSI LKTLRQQTSS  
RPPASVGELS SSGLGDPRLQ KGHPTGSRLA DPRLSRDPRL TRHVEASGGS GPGDSGSPSD  
RLARALPTSK PEGSLHSSPV GPSSSKGSGP PPTEEEEGER ALREKAVNIP LDPLPGHPLR  
DPRSQLQQFS HIKKDVTLK PSFARTVLWN PEDLIPLIP KQDAVPPVPA ALQSMPTLDP  
RLHRAATAGP PNARQRPAS TDSSTQGANL PDFELLSRIL KTVNATGSSA APGSSDKPSD  
PRVRKAPTD PRLQKPTDSTA SSRAAKPGPA EAPSPTASPS GDASPPATAP YDPRVLAAGG  
LGQGGGGGQS SVLSGISLYD PRTPNAGGKA TEPAADTGAQ PKGAEGNGKS SASKAKEPPF  
VRKSALEQPE TGKAGADGGT PTDRYNSYNR PRPKAAAAA ATTATPPPEG APPQPGVHNL  
PVPTLFGTVK QTPKTGSGSP FAGNSPAREG EQDAASLKDV FKGFDPTASP FCQ

**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 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 -

Product Details

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.
- 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®):  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. 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:	>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

Target:	ZC3H4
Alternative Name:	ZC3H4 ( <a href="#">ZC3H4 Products</a> )
Background:	Zinc finger CCCH domain-containing protein 4,FUNCTION: RNA-binding protein that suppresses transcription of long non-coding RNAs (lncRNAs) (PubMed:33913806, PubMed:33767452). LncRNAs are defined as transcripts more than 200 nucleotides that are not translated into protein (PubMed:33913806, PubMed:33767452). Together with WDR82, part of a transcription termination checkpoint that promotes transcription termination of lncRNAs and their subsequent degradation by the exosome (PubMed:33913806, PubMed:33767452). The transcription termination checkpoint is activated by the inefficiently spliced first exon of lncRNAs (PubMed:33767452). {ECO:0000269 PubMed:33767452, ECO:0000269 PubMed:33913806}.
Molecular Weight:	140.3 kDa
UniProt:	<a href="#">Q9UPT8</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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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>
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Restrictions:	For Research Use only
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## 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)