

Datasheet for ABIN3089961

## Chromosome 6 Open Reading Frame 170 (C6ORF170) (AA 1-1257) protein (Strep Tag)



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### 1 Image

#### Overview

Quantity:	1 mg
Target:	Chromosome 6 Open Reading Frame 170 (C6ORF170)
Protein Characteristics:	AA 1-1257
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	Strep Tag
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

#### Product Details

Sequence:	<p>MAHFSSDQA MLQAMLRRLF QSVKEKITGA PSLECAEEIL LHLEETDENF HNYEFVKYLR          QHIGNTLGSM IEEEMKCTS DRNQGEECGY DTVVQVTKR TQESKEYKEM MHYLKNIMIA          VVSMINKFE EDETRNQRQ KKIQKEKSHS YRTDNCSDSD SSLNQSYKFC QGKLQLILDQ          LDPGQPKEVR YEALQTLCSA PPSDVLNCEN WTTLCEKLTV SLSDPDPVFS DRILKFAQT          FLLSPLHMTK EIYTSIAKYL ESYFLSRENH IPTLSAGVDI TNPNMTRLLK KVRLLENEYQK          EAPSFWRHP EKYMEEIVES TSLLLTVKHN QSHVVSQKIL DPIYFFALVD TKAVWFKKWM          HAHYSRTTVL RLLETKYKSL VTTAIQQCVQ YFEMCKTRKA DETLGHSKHC RNKQKTFYYL          GQELQYIYFI HSLCCLGRLL IYKQGRKLF IKLKNKKGLV SLIDLLVLFT QLIYSPSCP          KMTSAAHSEN YSPASMVTEV LWLSDQKEC AVECLYNNIV IETLLQPIHN LMKGNEASPN          CSETALIHIA GILARIASVE EGLILLLYGA NMNSSEESPT GAHIIAQFSK KLLDEDISIF SGSEMLPVVK          GAFISVCRHI YSTCEGLQVL ITYNLHESIA KAWKKTSLLS ERIPTPVEGS DSVSSVSQES          QNIMAWEDNL LDDLLHFAAT PKGLLLLQRT GAINCEVTFI FNRYAKKLQV SRHKKFGYGV</p>
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LVTRVASTAA GGIALKKSGF INELITELWS NLEYGRDDVR VTHPRTPVD PIDRSCQKSF  
LALVNLLSYP AIYELVRNQD LPNKTEYSLR EVPTCVIDII DRLIILNSEA KIRSLFNIEQ SHIFGLRDFI  
IDGLSVERNHLVLRINLVGG PLERILPPRL LEKSDNPYPW PMFSSYPLPN CYLSDITRNA  
GIKQDNDLKD LLLCLKISDK QTEWIENCQR QFCKMMKAKP DIISGEALIE LLEKFVHLHT  
ESPSECYFPS VEYTATDANV KNESLSSVQQ LGIKMTVRYG KFLSLLKDGA ENDLTWVLKH  
CERFLKQQQT SIKSSLLCLQ GNYAGHDWFV SSLFMIMLGD KEKTFQFLHQ FSRLLSAFL  
WLPRLHISSY LPNDTVESGI HPVYFCSTHY IEMLLKAELP LVFSAFHMSG FAPSQICLQW  
ITQCFWNYLD WIEICHYIAT CVFLGPDYQV YICIAVFKHL QDILQHTQT QDLQVFLKEE  
ALHGFRVSDY FEYMEILEQN YRTVLLRDMR NIRLQST

**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!

## Product Details

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### 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

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### Target:

Chromosome 6 Open Reading Frame 170 (C6ORF170)

### Alternative Name:

TBC1D32 ([C6ORF170 Products](#))

### Background:

Protein broad-minded (TBC1 domain family member 32),FUNCTION: Required for high-level Shh responses in the developing neural tube. Together with CDK20, controls the structure of the primary cilium by coordinating assembly of the ciliary membrane and axoneme, allowing GLI2 to be properly activated in response to Shh signaling (By similarity). {ECO:0000250}.

### Molecular Weight:

144.8 kDa

### UniProt:

[Q96NH3](#)

## 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.

## 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