

Datasheet for ABIN3089969

## BUB1B Protein (AA 1-1050) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	BUB1B
Protein Characteristics:	AA 1-1050
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This BUB1B protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Brand:	AliCE®
Sequence:	MAAVKKEGGA LSEAMSLEGD EWELSKENVQ PLRQGRIMST LQGALAQESA CNNTLQQQKR AFEYEIRFYT GNDPLDVWDR YISWTEQNYP QGGKESNMST LLERAVEALQ GEKRYYS DPR FLNLWLKLGR LCNEPLDMYS YLHNQGIGVS LAQFYISWAE EYEARENFRK ADAIFQEGIQ QKAEPLERLQ SQHRQFQARV SRQTLLEK EEEEEVFESS VPQRSTLAEL KSKGKKTARA PIIRVGGALK APSQNRGLQN PFPQMQMNS RITVFDENAD EASTAELSKP TVQPWIAPPM PRAKENELQA GPWNTGRSLE HRPRGNTASL IAVPAVLPSF TPYVEETARQ PVMT PCKIEP SINHILSTRK PGKEEGDPLQ RVQSHQQASE EKKEKMMYCK EKİYAGVGEF SFEEIRAEVF RKKLKEQREA ELLTSAEKRA EMQKQIEEME KKLKEIQTQ QERTGDQEE TMPTKETTKL QIASESQKIP GMTLSSVCQ VNCCARETSL AENIWQEQPH SKGPSVPFSI FDEFLLSEKK NKSPPADPPR VLAQRRPLAV LKTSSESITSN EDVSPDVCDE FTGIEPLSED AIITGFRNVT ICPNPEDTCD FARAARFVST PFHEIMSLKD LPSDPERLLP EEDLDVKTSE DQQTACGTIY

SQTLSIKKLS PIIEDSREAT HSSGFSGSSA SVASTSSIKC LQIPEKLELT NETSENPTQS  
PWCSQYRRQL LKSLPELSAS AELCIEDRPM PKLEIEKEIE LGNEDYCIKR EYLICEDYKL  
FWVAPRNSAE LTVIKVSSQP VPWDFYINLK LKERLNEDFD HFCSCYQYQD GCIVWHQYIN  
CFTLQDLLQH SEYITHEITV LIYNLLTIV EMLHKAIEIVH GDLSPRCLIL RNRIHDPYDC  
NKNNQALKIV DFSYSVDLRV QLDVFTLSGF RTVQILEGQK ILANCSSPYQ VDLFGIADLA  
HLLLKEHLQ VFWDGSFWKL SQNISELKDG ELWNKFFVRI LNANDEATVS VLGELAAEMN  
GVFDTTFQSH LNKALWKVGK LTSPGALLFQ

**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.

## Product Details

- 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

Target:	BUB1B
Alternative Name:	BUB1B ( <a href="#">BUB1B Products</a> )
Background:	Mitotic checkpoint serine/threonine-protein kinase BUB1 beta (EC 2.7.11.1) (MAD3/BUB1-related protein kinase) (hBUBR1) (Mitotic checkpoint kinase MAD3L) (Protein SSK1),FUNCTION: Essential component of the mitotic checkpoint. Required for normal mitosis progression. The mitotic checkpoint delays anaphase until all chromosomes are properly attached to the mitotic spindle. One of its checkpoint functions is to inhibit the activity of the anaphase-promoting complex/cyclosome (APC/C) by blocking the binding of CDC20 to APC/C, independently of its kinase activity. The other is to monitor kinetochore activities that depend on the kinetochore motor CENPE. Required for kinetochore localization of CENPE. Negatively regulates PLK1 activity in interphase cells and suppresses centrosome amplification. Also implicated in triggering apoptosis in polyploid cells that exit aberrantly from mitotic arrest. May play a role for tumor suppression. {ECO:0000269 PubMed:10477750, ECO:0000269 PubMed:11702782, ECO:0000269 PubMed:14706340, ECO:0000269 PubMed:15020684, ECO:0000269 PubMed:19411850, ECO:0000269 PubMed:19503101}.
Molecular Weight:	119.5 kDa
UniProt:	<a href="#">O60566</a>

## 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

Application Details

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!

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