

Datasheet for ABIN3089785  
**BCAS3 Protein (AA 1-928) (Strep Tag)**



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1 Image

Overview

Quantity:	1 mg
Target:	BCAS3
Protein Characteristics:	AA 1-928
Origin:	Human
Source:	Tobacco ( <i>Nicotiana tabacum</i> )
Protein Type:	Recombinant
Purification tag / Conjugate:	This BCAS3 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Sequence: MNEAMATDSP RRRSRCTGGV VVRPQAVTEQ SYMESVVTFL QDVVPQAYSG TPLTEEKEKI  
 VWVRFENADL NDTSRNLEFH EIHSTGNEPP LLIMIGYSDG MQVWSIPIISG EAQELFSVRH  
 GPIRAARILP APQFGAQKCD NFAEKRPLLG VCKSIGSSGT SPPYCCVDLY SLRTGEMVKS  
 IQFKTPIYDL HCNKRILVVV LQEKIAAFDS CTFTKKFFVT SCYPCPGPNM NPIALGSRWL  
 AYAENKLIRC HQSRGGACGD NIQSYTATVI SAAKTLKSLG TMVGKVVTL TGTLPSPGVTE  
 DDVAIHSNSR RSPLVPGIIT VIDTETVGEQ QVLVSESDS DGIVAHFPAH EKPVCCMAFN  
 TSGMLLVTTD TLGHDFHFVQ ILTHPWSSSQ CAVHHLYTLH RGETEAKVQD ICFSHDCRWV  
 VVSTLRGTSH VFPINPYGGQ PCVRTHMSPR VVNRMRSRFQK SAGLEEIEQE LTSKQGGRCs  
 PVPGLSSSPS GSPLHGKLN S QDSYNNFTNN NPGNPRLSPL PSLMVMPLA QIKQPMTLGT  
 ITKRTGPYLF GAGCFSIKAP CKVKPPPQIS PSKSMGGEFC VAAIFGTSRS WFANNAGLKR  
 EKDQSKQVVV ESLYIISCYG TLVEHMMMEPR PLSTAPKISD DTPLEMMTSP RASWTLVRTP  
 QWNELQPPFN ANHPLLLAAD AVQYYQFLLA GLVPPGSPGP ITRHGSYDSL ASDHSGQEDE

EWLSQVEIVT HTGPHRRLWM GPQFQFKTIH PSGQTTVISS SSSVLQSHGP SDTPQPLLDF  
DTDDLNLNSL RIQPVRS DPV SMPGSSRPVS DRRGVSTVID AASGTFDRSV TLLEVCOSWP  
EGFGLRHMSS MEHTEEGLRE RLADAMAESP SRDVVGS GTE LQREGSIETL SNSSGSTSGS  
IPRNF DGYRS PLPTNESQPL SLFPTGFP

**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!

#### 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.

## Product Details

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- We use the ExPASy's ProtParam tool to determine the absorption coefficient of each protein.

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Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®): <ol style="list-style-type: none"><li>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.</li><li>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.</li></ol>
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:	BCAS3
Alternative Name:	BCAS3 ( <a href="#">BCAS3 Products</a> )
Background:	BCAS3 microtubule associated cell migration factor (Breast carcinoma-amplified sequence 3) (GAOB1),FUNCTION: Plays a role in angiogenesis. Participates in the regulation of cell polarity and directional endothelial cell migration by mediating both the activation and recruitment of CDC42 and the reorganization of the actin cytoskeleton at the cell leading edge. Promotes filipodia formation (By similarity). Functions synergistically with PELP1 as a transcriptional coactivator of estrogen receptor-responsive genes. Stimulates histone acetyltransferase activity. Binds to chromatin. Plays a regulatory role in autophagic activity. In complex with PHAF1, associates with the preautophagosomal structure during both non-selective and selective autophagy (PubMed:33499712). Probably binds phosphatidylinositol 3-phosphate (PtdIns3P) which would mediate the recruitment preautophagosomal structures (PubMed:33499712). {ECO:0000250 UniProtKB:Q8CCN5, ECO:0000269 PubMed:17505058, ECO:0000269 PubMed:33499712}.
Molecular Weight:	101.2 kDa
UniProt:	<a href="#">Q9H6U6</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.

**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!

**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)



**Image 1.** „Crystallography Grade“ protein due to multi-step, protein-specific purification process