

Datasheet for ABIN3094301

**PIK3C2B Protein (AA 1-1634) (Strep Tag)**[Go to Product page](#)**1** Image

## Overview

Quantity:	1 mg
Target:	PIK3C2B
Protein Characteristics:	AA 1-1634
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PIK3C2B protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

## Product Details

Sequence:	MSSTQGNGEH WKSLESVGIS RKELAMAEAL QMEYDALSRL RHDKEENRAK QNADPSLISW DEPGVDFYSK PAGRRTDLKL LRGLSGSDPT LNYNSLSPQE GPPNHSTSQG PQPGSDPWPK GSLSGDYLYI FDGSDGGVSS SPGPGDIEGS CKKLSPPPLP PRASIWDTPP LPPRKGSPSS SKISQPSDIN TFSLVEQLPG KLEHRILEE EEVLGGGGQG RLLGSVDYDG INDAILRLNL KSTYDAEMLR DATRGWKEGR GPLDFSKDTS GKPVARSKTM PPQVPPRTYA SRYGNRKNAT PGKNRRISAA PVGSRPHTVA NGHELFEVSE ERDEEVA AFC HMLDILRSGS DIQDYFLTGY VWSAVTPSPE HLGDEVNLKV TVLCDRLQEA LTFTCNCSST VDLLIYQTLQ YTHDDLNRND VGDFVLKPCG LEEFLQNKHA LGSHEYIQC RKFDIDIRLQ LMEQKVVRSD LARTVNDDQS PSTLNYLVHL QERPVKQTIS RQALSLLFDT YHNEVDAFLL ADGDFPLKAD RVVQSVKAIC NALAAVETPE ITSALNQLPP CPSRMQPKIQ KDPSVLAVRE NREKVVEALT AAILDLVELY CNTFNADFQT AVPGSRKHDL VQEACHFARS LAFTVYATHR IPIIWATSYE DFYLSCSLSH GGKELCSPLQ TRRAHFSKYL FHLIVWDQQI CFPVQVNRLP RETLLCATLY ALPIPPPGSS
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SEANKQRRVP EALGWVTTPL FNFRQVLTCTG RKLGLWPAT QENPSARWSA PNFHQPDSEI  
LQIDFPTSAF DIKFTSPPGD KFSPTYEFGS LREEDQRKLK DIMQKESLYW LTDADKKRLW  
EKRYCHSEV SSLPLVLASA PSWEWACLPD IYVLLKQWTH MNHQDALGLL HATFPDQEV  
RMAVQWIGSL SDAELLDYLP QLVQALKYEC YLDSPLVRFL LKRAVSDLRV THYFFWLLKD  
GLKDSQFSIR YQYLLAALLC CCGKGLREEF NRQCWLNAL AKLAQQVREA APSARQGILR  
TGLEEVQFF ALNGSCLPL SPSLLVKGIV PRDCSYFNSN AVPLKLSFQN VDPLGENIRV  
IFKCGDDLRLQ DMLTLQMIRI MSKIWVQEGE DMRMVIFRCF STGRGRGMVE MIPNAETLRK  
IQVEHGVTS FKDRPLADWL QKHNPGEDEY EKAIVENFIYS CAGCCVATYV LGICDRHNDN  
IMLKTTHGMF HIDFGRFLGH AQMFGNIKRD RAPFVFTSDM AYVINGGDKP SSRFHDFVDL  
CCQAYNLIRK HTHLFLNLLG LMLSCGIPEL SDLEDLYVY DALRPQDTEA NATTYFTRLI  
ESSLGSVATK LNFFIHNLAQ MKFTGSDDLRL TLSFASRTHL LKSSGRISDV FLCRHEKIFH  
PNKGYIYVVK VMRENTHEAT YIQRTEEFQ ELHNKLRLLF PSSHLPSFPS RFVIGRSRGE  
AVAERRREEL NGYIWHLIHA PPEVAECDLV YTFHPLPRD EKAMGTSPAP KSSDGTWARP  
VGKVGGEVKL SISKNNKLF IMVMHIRGLQ LLQDGNPDY YVKIYLLPDY QKTTKRKTKV  
ARKTCNPTYN EMLVYDGIPK GDLQRELQL SVLSEQGFWE NVLLGEVNIR LRELDLAQEK  
TGWFFALGSRS HGTL

**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

## Product Details

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.
- 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:	PIK3C2B
Alternative Name:	PIK3C2B ( <a href="#">PIK3C2B Products</a> )
Background:	Phosphatidylinositol 4-phosphate 3-kinase C2 domain-containing subunit beta (PI3K-C2-beta) (PtdIns-3-kinase C2 subunit beta) (EC 2.7.1.137) (EC 2.7.1.154) (C2-PI3K) (Phosphoinositide 3-kinase-C2-beta),FUNCTION: Phosphorylates PtdIns and PtdIns4P with a preference for PtdIns (PubMed:10805725, PubMed:9830063, PubMed:11533253). Does not phosphorylate PtdIns(4,5)P2 (PubMed:9830063). May be involved in EGF and PDGF signaling cascades (PubMed:10805725). {ECO:0000269 PubMed:10805725, ECO:0000269 PubMed:11533253,

## Target Details

	ECO:0000269 PubMed:9830063}.
Molecular Weight:	184.8 kDa
UniProt:	<a href="#">O00750</a>
Pathways:	<a href="#">Inositol Metabolic Process</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:	<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

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