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Datasheet for ABIN3131928

**PIK3C2G Protein (AA 1-1506) (Strep Tag)**

## Overview

Quantity:	1 mg
Target:	PIK3C2G
Protein Characteristics:	AA 1-1506
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PIK3C2G protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Sequence:	MAYSWQTEPN RTEPQEDGSD TQQFHHTNQH LSSRQVRLGF DQLVEEINNKK TPLSESEKEE DTYFVPDAPN LGSKWPSIYE THPRYFSEFT SQSPDSSQLR FGKLSAIGFN PAVLPHTQLI HEGASWRNPS GKYHGIEYPR FDALPPSSTG QGECNPQGQS GTKHHNYCGE HEGNLPHHHS SYSIDSIPNR EKRRSGDVNL VEPSLEFSKD SFLPRTSENV SVESTAPIGC PIEIVEVPQG SNKNLASFCN KVKKIRESYH ASDINSNSGK IWAITTAYPS RLFADTKFRV KISIDNSAQL LLLMPHANYL VKDLIAEILL LCANEPLSPK EYLLSVCVGE EFLQMDHSLG SHKIFQKNKS VIQLHLQKNR DTPGKLSRKS EDDHSPFHLN QLLEFTHIWK ISRQCLSTVM KKYNLHVEHL LKPQKDMEEK HLSSMVSGNQ HTSQPHVNNV LEEVKNICSV LGCIETKQVS DAVKELNLIL QRPSQNFHQN SETSKKGFI E RVTAELRSI YQLIDVYCSC FCTDFQPVHT PGGVSHVHAG LQSHLSFTVC SLHNPETWA HSYKAFFSFC WLTYAGKKLC QVKSCRPLPV TKSFSLLVNW NEIINFPLEI KSLPRESMLV IKLFGIDSAT HSTNLLAWTC LPLFPRQESV LGSRLFSVTL QSEPPPIEMIA PGVWDGSQPS PLTLQIDFPD AGWEYLPES EENRTDHEEP PRECLKHIAK
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LSQKKSPLLL SEEKRRYLWF YRLYCENNENS SLPLVLGSAP GWDEETVSEM HAILRRWTF  
HPWEALGLLT SRFPDQDIRE VAVQQLDTLL TDELLDCLPQ LVQAVKFEWN LESPLVELLP  
RRPLQSIRVA HCLYWLLRDA QGEAYFKSWY QELLAALQFC AGEALNEELS KEQKLVKLLG  
DIGEKVKSAS DPQRKDVLLK EIGSLEEFFK DIKTCHLPLN PALCIKGIDR DACSYFTSNA  
SPLKITFINA NPMGKNISVI FKAGDDLQD MLALQIIQVM DNAWLQEGLD MQMITYGCLS  
TGRAQGFIEP VPDVTLAKI HLHSGLIGPL KENTIKKWFS QHNHLKEDYE KALRNFFYSC  
AGWCVVTFIL GVCDRHNDNI MLTKSGHMFH IDFGKFLGHA QTGGGIKDR APFIFTSEME  
YFITEGGKNI QHFQDFVELC CRAYNIVRKH SQLLSLLEM MLHAGLPELR GIEDLKYYHN  
NLRPQDQDLE ATSHFTKKIK ESLECFPVKL NNIHTLAQM PALSLAKPAP QTLLQESCIL  
NKTRTIQRTV ILGFSKTHSN LYLMEVTCSD NRRSLTKKSF EQFYRLHSQM QKQFSSLALP  
EFPWWHLPF TDSDHKRIRD LSHYVEQVLR GSYEVANSDC VLSFFLSEHI QPTLEDSPFV  
DPGENSLDKS PKVQLLMTYE DSRLTILVKH LKNIHLPDGS VPSAHVEIYL LPHPSEVRRK  
KTKCVPKCTD PTYNEIVVYD EVLGLQGHVL MLIVKSKTVF VGAVNIQLCS VPLNEEKWYP LGNSII

**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

## Product Details

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:	PIK3C2G
Alternative Name:	Pik3c2g ( <a href="#">PIK3C2G Products</a> )
Background:	Phosphatidylinositol 3-kinase C2 domain-containing subunit gamma (PI3K-C2-gamma) (PtdIns-3-kinase C2 subunit gamma) (EC 2.7.1.137) (EC 2.7.1.154) (Phosphoinositide 3-kinase-C2-gamma),FUNCTION: Generates phosphatidylinositol 3-phosphate (PtdIns3P) and phosphatidylinositol 3,4-bisphosphate (PtdIns(3,4)P2) that act as second messengers (PubMed:9514948). May play a role in SDF1A-stimulated chemotaxis. {ECO:0000269 PubMed:20536348, ECO:0000269 PubMed:9514948}.
Molecular Weight:	171.6 kDa
UniProt:	<a href="#">070167</a>

## Target Details

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Pathways: [Inositol Metabolic Process](#)

## 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)