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Datasheet for ABIN3093411  
**PHKA2 Protein (AA 1-1235) (Strep Tag)**

### Overview

Quantity:	1 mg
Target:	PHKA2
Protein Characteristics:	AA 1-1235
Origin:	Human
Source:	Tobacco ( <i>Nicotiana tabacum</i> )
Protein Type:	Recombinant
Purification tag / Conjugate:	This PHKA2 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Sequence: MRSRSNSGVR LDGYARLVQQ TILCYQNPVT GLLSASHEQK DAWVRDNIYS ILAVWGLGMA  
YRKNADRDED KAKAYELEQN VVKLMRGLLQ CMMRQVAKVE KFKHTQSTKD SLHAKYNTAT  
CGTVVGDDQW GHLQVDATSL FLLFLAQMTA SGLRIIFTLD EVAFIQNLVF YIEAAYKVAD  
YGMWERGDKT NQGIPELNAS SVGMAKAALE AIDELDLFGA HGGKRSVIHV LPDEVEHCQS  
ILFSMLPRAS TSKEIDAGLL SIISFPAFAV EDVNLVNVTK NEIISKLQGR YGCCRFRLRDG  
YKTPREDPNR LHYDPAELKL FENIECEWPV FWTYFIIDGV FSGDAVQVQE YREALGILI  
RGKNGIRLVP ELYAVPPNKV DEEYKNPHTV DRVPMGKVPK LWGQSLYILS SLLAEGFLAA  
GEIDPLNRRF STSVKPDVVV QVTVLAENNH IKDLLRKHGV NVQSIADIHP IQVQPGRILS  
HIYAKLGRNK NMNLSGRPYR HIGVLGTSKL YVIRNQIFTF TPQFTDQHHF YLALDNEMIV  
EMLRIELAYL CTCWRMTGRP TLTFPISRTM LTNDGSDIHS AVLSTIRKLE DGYFGGARVK  
LGNLSEFLTTF SFYTYLTFLD PDCDEKLFND ASEGTFSPDS DSDLVGYLED TCNQESQDEL  
DHYINHLLQS TSLRSYLPPL CKNTEDRHVF SAIHSTRDIL SVMAKAKGLE VPFVPMTLPT

KVLSAHRKSL NLVDSPQPLL EKVPESEDFQW PRDDHGDVDC EKLVEQLKDC SNLQDQADIL  
YILYVIKGPS WDTNLSGQHG VTVQNLLGEL YGKAGLNQEW GLIRYISGLL RKKVEVLAEA  
CTDLLSHQKQ LTVGLPPEPR EKIIASPLPP EELTKLIYEA SGQDISIAVL TQEIVVYLAM  
YVRAQPSLFV EMLRLRIGLI IQVMATELAR SLNCSGEEAS ESLMNLSPFD MKNLLHHILS  
GKEFGVERSV RPIHSSTSSP TISIHEVGHT GVTKTERSGI NRLRSEMKOM TRRFSADEQF  
FSVGQAASSS AHSSKSARSS TPSSPTGTSS SDSGGHHIGW GERQGQWLRR RRLDGAINRV  
PVGFYQRVWK ILQKCHGLSI DGYVLPSTT REMTPHEIKF AVHVESVLNR VPQPEYRQLL  
VEAIMVLTLL SDTEMTSIGG IIVHDQIVQM ASQLFLQDQV SIGAMDTLEK DQATGICHFF  
YDSAPSGAYG TMTYLTRAVAL SYLQELLPNS GCQMQ

**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)

## Target Details

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### Target:

PHKA2

### Alternative Name:

PHKA2 ([PHKA2 Products](#))

### Background:

Phosphorylase b kinase regulatory subunit alpha, liver isoform (Phosphorylase kinase alpha L subunit),FUNCTION: Phosphorylase b kinase catalyzes the phosphorylation of serine in certain substrates, including troponin I. The alpha chain may bind calmodulin.

### Molecular Weight:

138.4 kDa

### UniProt:

[P46019](#)

### Pathways:

[Cellular Glucan 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

## Application Details

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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!

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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)