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Datasheet for ABIN3094417

## PARD3B Protein (AA 1-1205) (Strep Tag)

### Overview

Quantity:	1 mg
Target:	PARD3B
Protein Characteristics:	AA 1-1205
Origin:	Human
Source:	Tobacco ( <i>Nicotiana tabacum</i> )
Protein Type:	Recombinant
Purification tag / Conjugate:	This PARD3B protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Sequence: MKVTVCFGR T GIVVPCKEGQ LRVGELTQQA LQRYLKTREK GPGYWVKIHH LEYTDGGILD  
PDDVLADVVE DKDKLIAVFE EQEPLHKIES PSGNPADRQS PDAFETEVAQ QLAAFKPIGG  
EIEVTPSALK LGTPLLVRSS SDPVPGPAD TQPSASHPGG QSLKLVVPS TQNLREVL  
NGVQTELLTS PRTKDTLSDM TRTVEISGEG GPLGIHVVPF FSSLSGRILG LFIKIEDNS  
RSKREGLFHE NECIVKINNV DLVDKTFQA QDVFRQAMKS PSVLLHVLPP QNREQYEKSV  
IGSLNIFGNN DGVLKTKVPP PVHGKSGLKT ANLTGTDSPE TDASASLQQN KSPRVPLGG  
KPSSPSLSPL MGFGSNKNAK KIKIDLKKG EPLGFTVVTR DSSIHGPGPI FVKNILPKGA  
AIKDGRLLQSG DRILEVNGRD VTGRTQEELV AMLRSTKQGE TASLVIARQE GHFLPRELKG  
EPDCCALSLE TSEQLTFEIP LNDSGSAGLG VSLKGNKSRE TGTDLGIKIFK SIIHGGAFFK  
DGRLRMNDQL IAVNGESLLG KSNHEAMETL RRSMSMEGNI RGMIVLVLR RPERPMEDPA  
ECGAFSKPCF ENCQNAVTTT RRNDNSILHP LGTCSPQDKQ KGLLLPNDGW AESEVPPSPT  
PHSALGLGLE DYSHSSGVDS AVYFPDQHIN FRSVTPARQP ESINLKASKS MDLVPDESKV

HSLAGQKSES PSKDFGPTLG LKKSSSLESL QTAVAEVRKN DLPFHRPRPH MVRGRGCNES  
FRAAIDKSYD GPEEIEADGL SDKSSHSGQG ALNCESAPQG NSELEDMENK ARKVKKTKEK  
EKKKEKGKLL VKEKKRKEEN EDPERKIKKK GFGAMLRFGK KKEDKGGKAE QKGTCLKHGGL  
REEELEKMKE ERERIGAKHQ ELREKQARGL LDYATGAIGS VYDMDDDEMD PNYARVNHFR  
EPCTSANVFR SPSPPRAGPF GYPRDGHPLS PERDHLEGLY AKVNKPYHPL VPADSGRPTG  
GSTDRIQKLR KEYYQARREG FPLYEDDEGR ARPSEYDLLW VPGRGPDGNA HNLRFEGMER  
QYASLPRGGP ADPVDYLPAA PRGLYKEREL PYPGAHPMH PPKGSYPRPT ELRVADLRYP  
QHYP PPPAPQ HKGPFQDVP PSPPQHQRMP AYQETGRPGP RGGSPDQYPY RTQDSRQKNP  
MTAAV

**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:

PARD3B

### Alternative Name:

PARD3B ([PARD3B Products](#))

### Background:

Partitioning defective 3 homolog B (Amyotrophic lateral sclerosis 2 chromosomal region candidate gene 19 protein) (PAR3-beta) (Partitioning defective 3-like protein) (PAR3-L protein),FUNCTION: Putative adapter protein involved in asymmetrical cell division and cell polarization processes. May play a role in the formation of epithelial tight junctions.

### Molecular Weight:

132.5 kDa

### UniProt:

[Q8TEW8](#)

## 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:

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## Application Details

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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)