

Datasheet for ABIN3094580

## PLEKHA7 Protein (AA 1-1121) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	PLEKHA7
Protein Characteristics:	AA 1-1121
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PLEKHA7 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

### Product Details

Brand:	AliCE®
Sequence:	<p>MAAATVGRDT LPEHWSYGVC RDGRVFFIND QLRCTTWLHP RTGEPVNSGH MIRSDLPRGW</p> <p>EEGFTEEGAS YFIDHNQTT AFRHPVTGQF SPENSEFILQ EEPNPHMSKQ DRNQRPSSMV</p> <p>SETSTAGTAS TLEAKPGPKI IKSSSKVHSF GKRDQAIRRN PNPVVVRGW LHKQDSSGMR</p> <p>LWKRRWFVLA DYCLFYKDS REEAVLGSIP LPSYVISPA PEDRISRKYS FKAHVHTGMRA</p> <p>LIYNSSTAGS QAEQSGMRTY YFSADTQEDM NAWVRAMNQA AQVLSRSSLK RDMEKVERQA</p> <p>VPQANHTESE HECGRVGPGRH TRDCPHRGHD DIVNFERQEQ EGEQYRSQRD PLEGKRDRSK</p> <p>ARSPYSPAEE DALFMDLPTG PRGQQAQPQR AEKNGMLPAS YGPGEQNGTG GYQRAFPPT</p> <p>NPEKHSQRKS NLAQVEHWAR AQKGDSRSLP LDQTLPRQGP GQSLSPENY QTLPKSTRHP</p> <p>SGGSSPPPRN LPSDYKYAQD RASHLKMSSE ERRHRDGTW WQLYEWQQRQ QFRHGSPTAP</p> <p>ICLGSPEFTD QGRSRSMLEV PRSISVPPSP SDIPPPGPPR VFPPRRPHTP AERVTVKPPD</p> <p>QRRSVDISLG DSPRRARGHA VKNSSHVDRR SMPSMGYMTH TVSAPSLHGK SADDTYLQLK</p>

KDLEYLDLKM TGRDLLKDRS LKPVKIAESD TDVKLSIFCE QDRVLDQLED KIRALKENKD  
QLESVLEVLH RQMEQYRDQP QHLEKIAYQQ KLLQEDLVHI RAELSRESTE MENAWNEYLK  
LENDVEQLKQ TLQEQHRRAF FFQEKSIQK DLWRIEDVTA GLSANKENFR ILVESVKNPE  
RKTVP LFPHP PVPSLSTSES KPPPQSPPT SPVRTPLEVR LFPQLQTYVP YRPHPPQLRK  
VTSP LQSPTK AKPKVEDEAP PRPLPELYS PEDQPPAVPP LPREATIIRH TSVRGLKRQS  
DERKRDRELG QCVNGDSRVE LRSYVSEPEL ATLSGDMAQP SLGLVGPESR YQTLPGRGLS  
GSTSRLQQSS TIAPYVTLRR GLNAESSKAT FPRPKSALER LYSGDHQRGK MSAEEQLERM  
KRHHQKALVRE RKRTLGGQGER TGLPSSRYLS RPLPGDLGSV C

**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 in one-step affinity chromatography
- 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 try to ensure that you receive soluble 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:

## Product Details

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification: One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).

Purity: > 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

Grade: custom-made

## Target Details

Target: PLEKHA7

Alternative Name: PLEKHA7 ([PLEKHA7 Products](#))

Background: Pleckstrin homology domain-containing family A member 7 (PH domain-containing family A member 7),FUNCTION: Required for zonula adherens biogenesis and maintenance (PubMed:19041755). Acts via its interaction with CAMSAP3, which anchors microtubules at their minus-ends to zonula adherens, leading to the recruitment of KIFC3 kinesin to the junctional site (PubMed:19041755). Mediates docking of ADAM10 to zonula adherens through a PDZD11-dependent interaction with the ADAM10-binding protein TSPAN33 (PubMed:30463011). {ECO:0000269|PubMed:19041755, ECO:0000269|PubMed:30463011}.

Molecular Weight: 127.1 kDa

UniProt: [Q6IQ23](#)

Pathways: [Cell-Cell Junction Organization](#)

## 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.

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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.  
Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol **Might differ depending on protein.**

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months