

Datasheet for ABIN3085390

## PADI6 Protein (AA 1-694) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	PADI6
Protein Characteristics:	AA 1-694
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PADI6 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

### Product Details

Brand:	AliCE®
Sequence:	<p>MVSVEGRAMS FQSIHLSLD SPVHAVCVLG TEICDLSCG APQKCQCFTI HGSGRVLIDV</p> <p>ANTVISEKED ATIWWPLSDP TYATVKMTSP SPSVDADKVS VTYYPNEDA PVGTAVLYLT</p> <p>GIEVSLEVDI YRNGQVEMSS DKQAKKKWIW GPSGWGAILL VNCNPADVGQ QLEDKKTKKV</p> <p>IFSEEITNLS QMTLNVQGPS CILKKYRLVL HTSKEESKKA RVYWPQKDNS STFELVLGPD</p> <p>QHAYTLALLG NHLKETFYVE AIAFPSAEFS GLISYSVSLV EESQDPSIPE TVLYKDTVVF</p> <p>RVAPCVFIPC TQVPLEVYLC RELQLQGFVD TVTKLSEKSN SQVASVYEDP NRLGRWLQDE</p> <p>MAFCYTQAPH KTTSLILDTP QAADLDEFPM KYSLSPGIGY MIQDTECHKV ASMDSIGNLM</p> <p>VSPPVKVQGK EYPLGRVLIG SSFYPSAEGR AMSKTLRDFL YAQQVQAPVE LYSDWLMTGH</p> <p>VDEFMCFIPT DDKNEGKKGF LLLLASPSAC YKLFREKQKE GYGDALLFDE LRADQLLSNG</p> <p>REAKTIDQLL ADESLKKQNE YVEKCIHLNR DILKTELGLV EQDIIIPQL FCLEKLTNIP</p> <p>SDQQPKRSFA RPYFPDLLRM IVMGKNLIP KPFGPQIKGT CCLEEKICCL LEPLGFKCTF</p>

INDFDCYLTE VGDICACANI RRVPF AFKWW KMVP

**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:

- 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.

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### Purification:

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

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## Product Details

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

Grade: custom-made

## Target Details

Target: PADI6

Alternative Name: PADI6 ([PADI6 Products](#))

Background: Protein-arginine deiminase type-6 (EC 3.5.3.15) (Peptidyl arginine deiminase-like protein) (Peptidylarginine deiminase VI) (hPADVI) (Protein-arginine deiminase type VI),FUNCTION: Catalyzes the deimination of arginine residues of proteins (By similarity). May be involved in cytoskeletal reorganization in the egg and early embryo (PubMed:27545678). {ECO:0000250, ECO:0000269|PubMed:27545678}., FUNCTION: Catalyzes the deimination of arginine residues of proteins (By similarity). In oocytes, is released during cortical reaction and plays a role in preimplantation cleavage and early embryonic development (By similarity). May be involved in cytoskeletal reorganization in the egg and early embryo (PubMed:27545678). {ECO:0000250, ECO:0000250|UniProtKB:Q8K3V4, ECO:0000269|PubMed:27545678}.

Molecular Weight: 77.7 kDa

UniProt: [Q6TGC4](#)

## 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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## 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. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol <b>Might differ depending on protein.</b>
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months