

Datasheet for ABIN3090495

## CASS4 Protein (AA 1-786) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	CASS4
Protein Characteristics:	AA 1-786
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CASS4 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Brand:	AliCE®
Sequence:	<p>MKGTGIMDCA PKALLARALY DNCPDCSDEL AFSRGDILTI LEQHVPESSEG WWKCLLHGRQ</p> <p>GLAPANRLQI LTEVAADRPC PPFLRGLEEA PASSEETYQV PTLPRPPTPG PVYEQMRSWA</p> <p>EGPQPPTAQV YEFDPPTSA RIICEKTLSE PKQAILTLPR PVRASLPTLP SQVYDVPTQH</p> <p>RGPVVLKEPE KQQLYDIPAS PKKAGLHPPD SQASGQGVPL ISVTTLRRGG YSTLPNPQKS</p> <p>EWIYDTPVSP GKASVRNTPL TSFAEESRPH ALPSSSSTFY NPPSGRSRSL TPQLNNNVPM</p> <p>QKKLSLPEIP SYGFLVPRGT FPLDEDVSYK VPSSFLIPRV EQQNTKPNY DIPKATSSVS</p> <p>QAGKELEKAK EVSENSAGHN SSWFSRRTTS PSPEPDRLSG SSSDSRASIV SSCSTTSTDD</p> <p>SSSSSSEESA KELSLLDVA KETVMALQHK VVSSVAGLML FVSRKWRFRD YLEANIDAIH</p> <p>RSTDHIEESV REFLDFARGV HGTACNLTDN NLQNRIRDQM QTISNSYRIL LETKESLDNR</p> <p>NWPLEVLVTD SVQNSPDDLE RFVMVARMPL EDIKRFASIV IANGRLLFKR NCEKEETVQL</p> <p>TPNAEFKCEK YIQPPQRETE SHQKSTPSTK QREDEHSEL LKKNRANICG QNPGPLIPQP</p>

SSQQTPERKP RLSEHCRLYF GALFKAISAF HGSLSSSQPA EIITQSKLVI MVGQKLVDTL  
CMETQERDVR NEILRGSSHL CSLLKDVALA TKNAVLTYPS PAALGHLQAE AEKLEQHTRQ  
FRGTLG

**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 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.

Purification:

One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression

## Product Details

System (ALiCE®).

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

Grade: custom-made

## Target Details

Target: CASS4

Alternative Name: CASS4 ([CASS4 Products](#))

Background: Cas scaffolding protein family member 4 (HEF-like protein) (HEF1-EFS-p130Cas-like protein) (HEPL),FUNCTION: Docking protein that plays a role in tyrosine kinase-based signaling related to cell adhesion and cell spreading. Regulates PTK2/FAK1 activity, focal adhesion integrity, and cell spreading. {ECO:0000269|PubMed:18256281}.

Molecular Weight: 87.1 kDa

UniProt: [Q9NQ75](#)

## 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.

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

Format: Liquid

# Handling

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