

Datasheet for ABIN3136258

## CLASP2 Protein (AA 1-1286) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	CLASP2
Protein Characteristics:	AA 1-1286
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CLASP2 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Brand:	AliCE®
Sequence:	<p>MRRICKRIC DYKSFDDDES VDGNRPSAA SAFKVPAPKT PGNPVSSARK PGSAGGPKVG</p> <p>GPSKEGGAGA VEDDDFIKAF TDVPSVQIYS SRELEETLNK IREILSDDKH DWDQRANALK</p> <p>KIRSLVAGA AQYDCFFQHL RLLDGALKLS AKDLRSQVVR EACITVAHLS TVLGNKFDHG</p> <p>AEAIVPTLFN LVPNSAKVMA TSGCAAIRFI IRHTHVPRLI PLITSNCTSK SVPVRRRSFE</p> <p>FLDLLLQEWQ THSLERHAAV LVETIKKGIH DADAEARVEA RKTVMGLRNH FPGEAETLYN</p> <p>SLEPSYQKSL QTYLKSSGSV ASLPQSDRSS SSSQESLNRP FSSKWSTANP STVAGRVSVG</p> <p>GSKANPLPGS LQRSRSDIDV NAAAGAKAHH AAGQAVRSGR LGAGALNPGS YASLEDTSKD</p> <p>MDGTASDDGR VRAKLSTPLV AVGNAKTDSR GRSRTKMVSQ SQPGSRSGSP GRVLTITALS</p> <p>TVSSGAQRVL VNSASAQKRS KIPRSQGCSR EASPSRLSVA RSSRIPRPSV SQGCSREASR</p> <p>ESSRDTSPVR SFQPLPGGYG ISQSSRLSSS VSAMRVLNTG SDVEEAVADA LLLGDIRTKK</p> <p>KPARRRYESY GMHSDDDANS DASSACSERS YSSRNIGIPT YMRQTEDVAE VLNRCASSNW</p>

SERKEGLLLGL QNLLKNQRTL SRIELKRLCE IFTRMFADPH GKVFSMFLET LVDFIQVHKD  
DLQDWLFVLL TQLLKKMGAD LLGSVQAKVQ KALDITRESF PNDLQFNILM RFTVDQTQTP  
SLKVKVAILK YIETLAKQMD PRDFTNSSET RLAVSRVITW TTEPKSSDVR KAAQSVLISL  
FELNTPEFTM LLGALPKTFQ DGATKLLHNH LRNTGNGTQS SMGSPLTRPT PRSPANWSSP  
LTSPNTSQN TLSPSAFDYD TENMNSEDIY SSLRGVTEAI QNFSFRSQED MSEPVRRDPK  
KEDGDTICSG PGMSDPRAGG DAADGSQPAL DNKASLLHSM PLHSSPRSRD YNPYNYSDSI  
SPFNKSALKE AMFDDDDADQF PDDLSDHSD LVAELLKELS NHNERIEERK IALYELMKLT  
QEEFSVWDE HFKTILLLLL ETLGDKEPTI RALALKVLKE ILRHQPARFK NYAELTVMKT  
LEAHKDPHKE VVRSAAEAAS VLATISPEQ CIKVLCPPIQ TADYPINLAA IKMQTKVIER  
VSKETLNMLL PEIMPGLIQG YDNSESSVRK ACVFCLVAVH AVIGDELKPH LSQLTGSKMK  
LLNLYIKRAQ TGSAGADPTA DVSGQS

**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 -

## Product Details

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 System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

## Target Details

Target:	CLASP2
Alternative Name:	Clasp2 ( <a href="#">CLASP2 Products</a> )
Background:	CLIP-associating protein 2 (Cytoplasmic linker-associated protein 2),FUNCTION: Microtubule plus-end tracking protein that promotes the stabilization of dynamic microtubules. Involved in the nucleation of noncentrosomal microtubules originating from the trans-Golgi network (TGN). Required for the polarization of the cytoplasmic microtubule arrays in migrating cells towards the leading edge of the cell. May act at the cell cortex to enhance the frequency of rescue of depolymerizing microtubules by attaching their plus-ends to cortical platforms composed of ERC1 and PHLDB2. This cortical microtubule stabilizing activity is regulated at least in part by phosphatidylinositol 3-kinase signaling. Also performs a similar stabilizing function at the kinetochore which is essential for the bipolar alignment of chromosomes on the mitotic spindle. Acts as a mediator of ERBB2-dependent stabilization of microtubules at the cell cortex. {ECO:0000250 UniProtKB:O75122, ECO:0000269 PubMed:16914514}.
Molecular Weight:	140.7 kDa
UniProt:	<a href="#">Q8BRT1</a>
Pathways:	<a href="#">Microtubule Dynamics</a> , <a href="#">Maintenance of Protein Location</a>

## Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies
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## Application Details

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as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

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### Comment:

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### Restrictions:

For Research Use only

## Handling

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### Format:

Liquid

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### 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.**

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### Handling Advice:

Avoid repeated freeze-thaw cycles.

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### Storage:

-80 °C

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### Storage Comment:

Store at -80°C.

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### Expiry Date:

12 months