

Datasheet for ABIN3091691

CLIP1 Protein (AA 1-1438) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	CLIP1
Protein Characteristics:	AA 1-1438
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CLIP1 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	<p>MSMLKPSGLK APTKILKPGS TALKTPTAVV APVEKTISSE KASSTPSSET QEEFVDDFRV</p> <p>GERVWVNGNK PGFIQFLGET QFAPGQWAGI VLDEPIGKND GSVAGVRYFQ CEPLKGIFTR</p> <p>PSKLTRKVQA EDEANGLQTT PASRATSPLC TSTASMVSSS PSTPSNIPQK PSQPAAKEPS</p> <p>ATPPISNLTK TASESISNLS EAGSIKKGER ELKIGDRVLV GGTAGVVRV LGETDFAKGE</p> <p>WCGVELDEPL GKNDGAVAGT RYFQCQPKYG LFAPVHKVTK IGFPSTTPAK AKANAVRRVM</p> <p>ATTSASLKRS PSASSLSSMS SVASSVSSRP SRTGLLTETS SRYARKISGT TALQEALKEK</p> <p>QQHIEQLLAE RDLERAQVAK ATSHVGEIEQ ELALARDGHD QHVLELEAKM DQLRTMVEAA</p> <p>DREKVELLNQ LEEERKRVED LQFRVEEESI TKGDLEQKSQ ISEDPENTQT KLEHARIKEL</p> <p>EQSLLFEKTK ADKLQRELED TRVATVSEKS RIMELEKDLA LRVQEVAELR RRLESNKPAG</p> <p>DVDMSLSLLQ EISSLQEKLE VTRTDHQREI TSLKEHFGAR EETHQKEIKA LYTATEKLSK</p> <p>ENESLKSLE HANKENSQVI ALWWSKLETA IASHQQAMEE LKVSFSKGLG TETAFAELK</p>

TQIEKMRLDY QHEIENLQNN QDSERAAHAK EMEALRAKLM KVIKEKENSLEAIRSKLDDKA
EDQHLVEMED TLNKLQEAEL KVKELEVLQA KCNEQTKVID NFTSQLKATE EKLLDLALR
KASSEKSEM KKLRRQLEAA EKQIKHLEIE KNAESSKASS ITRELQGREL KLTNLQENLS
EVSQVKETLE KELQILKEKF AEASEEAVSV QRSMQETVNL HQKEEQFNM LSSDLEKLRE
NLADMEAKFR EKDEREEQLI KAKEKLENDI AEIMKMSGDN SSQLTKMNDE LRLKERDVEE
LQLKLTANE NASFLQKSIE DMTVKAESQ QEAACKHEEE KKELERKLSL LEKKMETSHN
QCQELKARYE RATSETKTKH EEILQNLQKT LLDTEKDLKG AREENSGLLQ ELEELRKQAD
KAKAAQTAED AMQIMEQMTK EKTETLASLE DTKQTNALQ NELDTLKENN LKNVEELNKS
KELLTVENQK MEEFRKEIET LKQAAAQKSQ QLSALQEENV KLAELGRSR DEVTSHQKLE
EERSVLNNQL LEMKKRESKF IKDADEEKAS LQKSISITSA LKTEKDAELE KLRNEVTVLR
GENASAKSLH SVVQTLESDEK VKLELKVKNL ELQLKENKRQ LSSSSGNTDT QAEDERAQE
SQIDFLNSVI VDLQRKNQDL KMKVEMMSEA ALNGNGDDL NYSDDQEKQ SKKKPRLFCF
ICDCFDLHDT EDCPTQAQMS EDPHSTHHG SRGEERPYCE ICEMFGHWAT NCNDDETF

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

Product Details

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

Target Details

Target:	CLIP1
Alternative Name:	CLIP1 (CLIP1 Products)
Background:	<p>CAP-Gly domain-containing linker protein 1 (Cytoplasmic linker protein 1) (Cytoplasmic linker protein 170 alpha-2) (CLIP-170) (Reed-Sternberg intermediate filament-associated protein) (Restin),FUNCTION: Binds to the plus end of microtubules and regulates the dynamics of the microtubule cytoskeleton. Promotes microtubule growth and microtubule bundling. Links cytoplasmic vesicles to microtubules and thereby plays an important role in intracellular vesicle trafficking. Plays a role macropinocytosis and endosome trafficking.</p> <p>{ECO:0000269 PubMed:12433698, ECO:0000269 PubMed:17563362, ECO:0000269 PubMed:17889670}.</p>
Molecular Weight:	162.2 kDa
UniProt:	P30622
Pathways:	Microtubule Dynamics

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

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

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