

Datasheet for ABIN3130645

EFCAB5 Protein (AA 1-1406) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	EFCAB5
Protein Characteristics:	AA 1-1406
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This EFCAB5 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	<p>MLMQVEKKKL LSQADIPTKF DPINYLG EYL MRHNTHYIKD PGVSGYQRVM KEITEELKTH</p> <p>VPDTINNRIK KMKEKVKEKR EQREYISTVK VKVAGMRKQA LEEQFNEWVL NPKGMIPIVV</p> <p>YISSYITDLK SEVFEEFLKH LCHSAEEFRE IILTDMRRQM FAELFLQCDS GKVMALDRQR</p> <p>TLALLEAFYD QCSSTTRSL RNPQRWPFVE FEEIELIEFW GDMDIKKHIY EDFDALLKLM</p> <p>NMLVAEKLKLA ENKDLPPQ QQRDQELSSD STTEPETATQ LTSQQRSSRV SLTGQGGQKG</p> <p>PRKTSASKQG ASRGSAVEQG SRRSSGVNQT QQRGSVAEQG SRRSSAVEQT QQRGSVAEQG</p> <p>SRRSSTVEQT RQRGSVAEQG SRRSSTVEQT QQRGSVAEQG SRRSSGVNQT QQRGSVAEQG</p> <p>SRRSSAVEQT QQRGSVAEQG SRRSSAMEQE PQTAQDPNSD SLPEQESHRS SITEGSHRGS</p> <p>ISEPGQRRAS VTGQRRKSSV DSGSAGSRR GSGTDQGQHR GSVGQRKSGS ERKMSASEYG</p> <p>PHQESITEEP LTASEPGPQI DTIQELDEDS TPQLEDDSA LKESKTSSELT IETQEEKPLL</p> <p>LINEEQVPRD SKQPEVPTSS KKERPSGSPK KGRLSGTSKR DSQKDKACEP KPQHVEGKKW</p>

SGEFLICDWK IKHVKSEEEE QAKLICDDTR FTDLHATIRN FQTYKGIGKR SAFNGVSLDL
LQFVQLLET F VGEDTSFSL S KDLASFFQKN YSETKQEKIK ALEQARQNSS RIRRRILLQA
IFEKWDNDGS GFLDLNEVDD LLYTYKEGME RESMCKAKLH INFPEPSPGH EVKLSSKQFQ
RYIELVVSEL RGNEDDEVLES VVEFLMGSL E RSHVEGLRNC ARRKWLHQIQ YAAETSGVSL
EPVYTETFRV LTQDAEAHGN KKISAHISLL EENVFLPERG HVLLRNVACT LDDAPFVLNK
VLYRDMKGIS FTVVDEGKPI HVPQVQHHGN IFFWNSFRSK NEYNGSFLAL PLQDAYMRIF
GVLAVDTLRD PHEINIFLP EIKFYQGVAN AFSTAYHHVH SREHVLH SVM TGIRWLFSVT
SGITTITTCF IEPSSSEQEDY VLRNMMVTDC LGLAEIHTDP PTITRNACIF RDLFKCTDT
SEVILASSGG ETHIAIPLRQ RTKEAMGILD VNIGRSRMLL YQEYKDLQKM VKMIQNVSYE
ILGEFSGEIE KTMVIEMESA GEVKRAGILF FRTMLQELQE CLCLLDSDMF VSLLLYEHKY
HVDSILQDIT LQEVEANVAL VHDVLKGVIL FSQREKDSLS DLEEWKWK F HINKYLVEEI
CVLDPTASNV EVNVELVTSY IQAHSRTEVW NFRNIVIELL YHWINICLTL IELNMRQDVS
IIPPLPKKSA TSIYAISSER SIREKL

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:	EFCAB5
Alternative Name:	Efcab5 (EFCAB5 Products)
Background:	EF-hand calcium-binding domain-containing protein 5
Molecular Weight:	159.9 kDa
UniProt:	A0JP43

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:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> 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.</p> <p>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</p>

Application Details

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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