

Datasheet for ABIN3093119

## IREB2 Protein (AA 1-963) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	IREB2
Protein Characteristics:	AA 1-963
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This IREB2 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

### Product Details

Brand:	AliCE®
Sequence:	<p>MDAPKAGYAF EYLIETLND S SHKKFFDVSK LGTKYDVLPY SIRVLLEAAV RNCDFGLMKK</p> <p>EDVMNILDWK TKQSNVEVPF FPARVLLQDF TGIPAMVDFA AMREAVKTLG GDPEKVHPAC</p> <p>PTDLTVDHSL QIDFSKCAIQ NAPNPGGGDL QKAGKLSPLK VQPKKLPCRG QTTCRGSCDS</p> <p>GELGRNSGTF SSQIENTPIL CPFHLQVPPE PETVLKNQEV EFGRNRERLQ FFKWSSRVFK</p> <p>NVAVIPPGTG MAHQINLEYL SRVVFEEDL LFPDSVVGTD SHITMVNGLG ILGWGVGGIE</p> <p>TEAVMLGLPV SLTLPEVVG C ELTGSSNPFV TSIDVVLGIT KHLRQVGVAG KFVEFFGSGV</p> <p>SQLSIVDR TT IANMCPEYGA ILSFFPVDNV TLKHLEHTGF SKAKLESMET YLKAVKLFRN</p> <p>DQNSSGEPEY SQVIQINLNS IVPSVSGPKR PQDRVAVTDM KSDFQACLNE KVGFKGFQIA</p> <p>AEKQKDIVI HYEGSEYKLS HGSVVIAAVI SCTNNCNPSV MLAAGLLAKK AVEAGLRVKP</p> <p>YIRTSLSPGS GMVTHYLSSS GVLPYLSKLG FEIVGYGCSI CVGNTAPLSD AVLNAVQKGD</p> <p>LVTGILSGN KNFEGRLCDC VRANYLASPP LVVAYAIAGT VNIDFQTEPL GTDPTGKNIY</p>

LHDIWPSREE VHRVEEEHVI LSMFKALKDK IEMGNKRWNS LEAPDSVLFP WDLKSTYIRC  
PSFFDKLTKE PIALQAIENA HVLLYLGDSV TTDHISPAGS IARNSAAAKY LTNRGLTPRE  
FNSYGARRGN DAVMTRGTFA NIKLFNKF IG KPAPKTIHFP SGQTLDVFEA AELYQKEGIP  
LIILAGKKYG SGNSRDWAAK GPYLLGVKAV LAESYEKIHK DHLIGIGIAP LQFLPGENAD  
SLGLSGRETF SLTFPEELSP GITLNIQTST GKVFSVIASF EDDVEITLYK HGGLLNFFVAR KFS

**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.

## Product Details

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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

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Target:	IREB2
Alternative Name:	IREB2 ( <a href="#">IREB2 Products</a> )
Background:	<p>Iron-responsive element-binding protein 2 (IRE-BP 2) (Iron regulatory protein 2) (IRP2),FUNCTION: RNA-binding protein that binds to iron-responsive elements (IRES), which are stem-loop structures found in the 5'-UTR of ferritin, and delta aminolevulinic acid synthase mRNAs, and in the 3'-UTR of transferrin receptor mRNA. Binding to the IRE element in ferritin results in the repression of its mRNA translation. Binding of the protein to the transferrin receptor mRNA inhibits the degradation of this otherwise rapidly degraded mRNA. {ECO:0000269 PubMed:7983023}.</p>
Molecular Weight:	105.1 kDa
UniProt:	<a href="#">P48200</a>
Pathways:	<a href="#">Transition Metal Ion Homeostasis</a>

## Application Details

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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 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</p>

## Application Details

	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 <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