

Datasheet for ABIN3136108

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



[Go to Product page](#)

Overview

Quantity:	250 µg
Target:	IREB2
Protein Characteristics:	AA 1-963
Origin:	Mouse
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>MDSPSAGYTF EYLIETLNGN SQKKFFNVPK LGGTKYDILP YSIRVLLEAA VRNCDGFLMK</p> <p>KEDVMNILDW KTKQSNVEVP FFPARVVLQD FTGIPAMVDF AAMREAVKTL GGDPKKVHPA</p> <p>CPTDLTV DHS LQIDFSKCAI QNAPNPGGGD LQKAGKLSPL KVQSKKLPCR GQTTCRGSCD</p> <p>SGELSRNSGT FSSQIENTPV LCPFHLQPVP EPETVLKNQE VEFGRNRERL QFFKWSSGAF</p> <p>KNVAVIPPGT GMAHQVNLEY LSRVVFETD LLFPDSVVG TDSHITMVNGL GILGWGVGGI</p> <p>ETEAVMLGLP VTLTLPEVVG CELTGSSNAF VTSIDIVLGI TKHLRQVGVA GKFVEFFGSG</p> <p>VSQLSIVDRT TIANMCPEYG AILSFFPVDN VTLRHLEHTG FDKTKLESME KYLKAVKLFR</p> <p>NDENSSEPEY SQVIQINLNS IVASVSGPKR PQDRVAVTDM KSDFQACLNE KVGFKGFQVA</p> <p>AEKQSDTVSV RYDGSEYKLS HGSVVIAAVI SCTNNCNPSV MLAAGLLAKK AVEIGLRVKP</p> <p>YIRTSLSPGS GMVTHYLSSS GVLPLYSLKG FDIVGYGCST CVGNTAPLSE AVLNAVQGD</p> <p>LVTGVLSGN KHFEGRLCD VRANYLASPP LVVAYAIAGT VNIDFQTEPL GTDSTGKEIY</p>

LHDIWPSREE VHQMEEEHVI LSMFKTLKEK VEMGNKRWNS LEAPDSVLFP WDVKSTYIRC
PSFFDKLTKE PAASQPIENA HVLLYLGDSV TTDHISPAGS IARSSAAAKY LTNRGLTPRE
FNSYGARRGN DAVMTRGTFA NIKLFNKFIF KPAPKTIHFP SGQTLDFVEA AELYQKEGIP
LIILAGKKYG SGNSRDWAAK GPYLLGVKAV LAESYEKIHK DHLIGIGIAP LEFLPGENAD
SLGLSGREVF SLSFPEELFP GITLNIKTST GKEFSVIASF ANDVEITLYK HGLLNFVAR KFL

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.

Product Details

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:	IREB2
Alternative Name:	Ireb2 (IREB2 Products)
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:0000250 UniProtKB:P48200}.</p>
Molecular Weight:	104.9 kDa
UniProt:	Q811J3
Pathways:	Transition Metal Ion Homeostasis

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 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 **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