Datasheet for ABIN3135931

FBXO11 Protein (AA 1-930) (Strep Tag)

Go to Product page

Overview

Quantity:	250 µg
Target:	FBXO11
Protein Characteristics:	AA 1-930
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This FBXO11 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), ELISA, Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MNSVRAANRR PRRVSRPRPV QQQQQQPPQQ PPPQPPQQQP PPQPPQQPPQ QQPPPPPQQQ PPPPPPPPPP PPQDRNNAGE RDDVPADMVA EESGPGAQNS PYQLRRKTLL PKRTACPTKS SMEGASTSTT ENFGHRAKRA RVSGKSQDLS AAPAEQYLQE KLPDEVVLKI FSYLLEQDLC RAACVCKRFS ELANDPILWK RLYMEVFEYT RPMMHPEPGK FYQINPEEYE HPNPWKESFQ QLYKGAHVKP GFAEHFYSNP ARYKGRENML YYDTIEDALG GVQEAHFDGL IFVHSGIYTD EWIYIESPIT MIGAAPGKVA DKVIIENTRD STFVFMEGSE DAYVGYMTIR FNPDDKSAQH HNAHHCLEIT VNCSPIIDHC IIRSTCTVGS AVCVSGQGAC PTIKHCNISD CENVGLYITD HAQGIYEDNE ISNNALAGIW VKNHGNPIIR RNHIHHGRDV GVFTFDHGMG YFESCNIHRN RIAGFEVKAY ANPTVVRCEI HHGQTGGIYV HEKGRGQFIE NKIYANNFAG VWITSNSDPT IRGNSIFNGN QGGVYIFGDG RGLIEGNDIY GNALAGIQIR TNSCPIVRHN KIHDGQHGGI YVHEKGQGVI EENEVYSNTL AGVWVTTGST PVLRRNRIHS GKQVGVYFYD NGHGVLEDND

IYNHMYSGVQ IRTGSNPKIR RNKIWGGQNG GILVYNSGLG CIEDNEIFDN AMAGVWIKTD SNPTLRRNKI HDGRDGGICI FNGGRGLLEE NDIFRNAQAG VLISTNSHPV LRKNRIFDGF AAGIEITNHA TATLEGNQIF NNRFGGLFLA SGVNVTMKDN KIMNNQDAIE KAVSRGQCLY KISSYTSYPM HDFYRCHTCN TTDRNAICVN CIKKCHQGHD VEFIRHDRFF CDCGAGTLSN PCTLAGEPTH DTDTLYDSAP PIESNTLQHN

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:	FBXO11
Alternative Name:	Fbxo11 (FBXO11 Products)
Background:	F-box only protein 11,FUNCTION: Substrate recognition component of a SCF (SKP1-CUL1-F-box protein) E3 ubiquitin-protein ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of target proteins, such as DTL/CDT2, BCL6 and PRDM1/BLIMP1. The SCF(FBXO11) complex mediates ubiquitination and degradation of BCL6, thereby playing a role in the germinal center B-cells terminal differentiation toward memory B-cells and plasma cells. The SCF(FBXO11) complex also mediates ubiquitination and degradation of DTL, an important step for the regulation of TGF-beta signaling, cell migration and the timing of the cell-cycle progression and exit. Binds to and neddylates phosphorylated p53/TP53, inhibiting its transcriptional activity. Plays a role in the regulatiom of erythropoiesis but not myelopoiesis or megakaryopoiesis. Mechanistically, activates erythroid genes by mediating the degradation of BAHD1, a heterochromatin-associated protein that recruits corepressors to H3K27me3 marks. Participates in macrophage cell death and inflammation in response to bacterial toxins by regulating the expression of complement 5a receptor 1/C5AR1 and IL-1beta. Acts as a critical regulator to determine the level of MHC-II by mediating the recognition of degron at the P/S/T domain of CIITA leading to its ubiquitination and subsequent degradation via the proteasome. Participates in the antiviral repsonse by initiating the activation of TBK1-IRF3-IFN-I axis. Mediates the 'Lys-63'-linked ubiquitination of TRAF3 to strengthen the interaction between TRAF3 and TBK1. {ECO:0000250|UniProtKB:Q86XK2}.
Molecular Weight:	103.7 kDa
UniProt:	Q7TPD1
Pathways:	Sensory Perception of Sound

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:	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