

Datasheet for ABIN3092546

FBX011 Protein (AA 1-927) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	FBX011
Protein Characteristics:	AA 1-927
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This FBX011 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), ELISA, Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	<p>MNSVRAANRR PRRVSRPRPV QQQQQQPPQQ PPPQPPQQP PQQQPPPPPPQ QQQQQQPPPP</p> <p>PPPPPLPQE RNNVGERDDD VPADMVAEES GPQAQNSPYQ LRRKTLLPKR TACPTKNSME</p> <p>GASTSTTENF GHRAKRARVS GKSQDLSAAP AEQYLQEKLP DEVVLKIFSY LLEQDLCRAA</p> <p>CVCKRFSELA NDPILWKRLY MEVFEYTRPM MHPEPGKFYQ INPEEYHPN PWKESFQQLY</p> <p>KGAHVKPGFA EHFYSNPARY KGRENMLYYD TIEDALGGVQ EAHFDGLIFV HSGIYTDEWI</p> <p>YIESPITMIG AAPGKVADKV IIENTRDSTF VFMEGSEDAY VGYMTIRFNP DDKSAQHHNA</p> <p>HHCLEITVNC SPIIDHCIIR STCTVGSVC VSGQGACPTI KHCNISDCEN VGLYITDHAQ</p> <p>GIYEDNEISN NALAGIWWKN HGNPIIRRNH IHHGRDVGVF TFDHGMGYFE SCNIHRNRIA</p> <p>GFEVKAYANP TVVRCEIHHG QTGGIYVHEK GRGQFIENKI YANNFAGVWI TSNSDPTIRG</p> <p>NSIFNGNQGG VYIFGDGRGL IEGNDIYGNA LAGIQIRTNS CPIVRHNKIH DGQHGGIYVH</p> <p>EKGQGVIEEN EVYSNTLAGV WTTTGSTPVL RRNRIHSGKQ VGVYFYDNGH GVLEDNDIYN</p>

HMYSGVQIRT GSNPKIRRNK IWGGQNGGIL VYNSGLGCIE DNEIFDNAMA GVWIKTDSNP
TLRRNKIHDG RDGGICIFNG GRGLLEENDI FRNAQAGVLI STNSHPILRK NRIFDGFAAG
IEITNHATAT LEGNQIFNNR FGGLFLASGV NVTMKDNKIM NNQDAIEKAV SRGQCLYKIS
SYTSYPMHDF YRCHTCNTTD RNAICVNCIK KCHQGHDFEF IRHDRFFCDC GAGTLSNPCT
LAGEPTHDTD TLYDSAPPIE SNTLQHN

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:	FBX011
Alternative Name:	FBX011 (FBX011 Products)
Background:	<p>F-box only protein 11 (Protein arginine N-methyltransferase 9) (Vitiligo-associated protein 1) (VIT-1),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(FBX011) 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(FBX011) 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 regulation 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 (PubMed:33156908). 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 (PubMed:33156908). 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 (PubMed:37279268). Participates in the antiviral response 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 (PubMed:36897010). {ECO:0000269 PubMed:17098746, ECO:0000269 PubMed:22113614, ECO:0000269 PubMed:23478441, ECO:0000269 PubMed:23478445, ECO:0000269 PubMed:23892434, ECO:0000269 PubMed:24613396, ECO:0000269 PubMed:33156908, ECO:0000269 PubMed:36897010, ECO:0000269 PubMed:37279268}.</p>

Target Details

Molecular Weight:	103.6 kDa
UniProt:	Q86XK2
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:	<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 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!</p>
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	<p>The buffer composition is at the discretion of the manufacturer.</p> <p>Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.</p>
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months