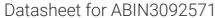
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# FBXL2 Protein (AA 1-423) (Strep Tag)



**Image** 



Go to Product page

#### Overview

Quantity:	1 mg
Target:	FBXL2
Protein Characteristics:	AA 1-423
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This FBXL2 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

#### **Product Details**

Sequence:

MVFSNNDEGL INKKLPKELL LRIFSFLDIV TLCRCAQISK AWNILALDGS NWQRIDLFNF
QTDVEGRVVE NISKRCGGFL RKLSLRGCIG VGDSSLKTFA QNCRNIEHLN LNGCTKITDS
TCYSLSRFCS KLKHLDLTSC VSITNSSLKG ISEGCRNLEY LNLSWCDQIT KDGIEALVRG
CRGLKALLLR GCTQLEDEAL KHIQNYCHEL VSLNLQSCSR ITDEGVVQIC RGCHRLQALC
LSGCSNLTDA SLTALGLNCP RLQILEAARC SHLTDAGFTL LARNCHELEK MDLEECILIT
DSTLIQLSIH CPKLQALSLS HCELITDDGI LHLSNSTCGH ERLRVLELDN CLLITDVALE
HLENCRGLER LELYDCQQVT RAGIKRMRAQ LPHVKVHAYF APVTPPTAVA GSGQRLCRCC VIL

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 by multi-step, protein-specific process to ensure correct folding and modification.
- 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 will ensure that you receive a correctly folded 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 posttranslational 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 in several dilutions and is measured against its specific reference buffer.
- · We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

### Purification:

Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):

- 1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE.
- Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

## **Product Details**

Purity:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade

Grade:	Crystallography grade
Target Details	
Target:	FBXL2
Alternative Name:	FBXL2 (FBXL2 Products)
Background:	F-box/LRR-repeat protein 2 (F-box and leucine-rich repeat protein 2) (F-box protein
	FBL2/FBL3),FUNCTION: Calcium-activated substrate recognition component of the SCF (SKP1-
	cullin-F-box protein) E3 ubiquitin-protein ligase complex, SCF(FBXL2), which mediates the
	ubiquitination and subsequent proteasomal degradation of target proteins (PubMed:22020328,
	PubMed:22323446). Unlike many F-box proteins, FBXL2 does not seem to target
	phosphodegron within its substrates but rather calmodulin-binding motifs and is thereby
	antagonized by calmodulin (PubMed:22020328, PubMed:22323446). This is the case for the
	cyclins CCND2 and CCND3 which polyubiquitination and subsequent degradation are inhibited
	by calmodulin (PubMed:22020328, PubMed:22323446). Through CCND2 and CCND3
	degradation induces cell-cycle arrest in G(0) (PubMed:22020328, PubMed:22323446).
	SCF(FBXL2) also mediates PIK3R2 ubiquitination and proteasomal degradation thereby
	regulating phosphatidylinositol 3-kinase signaling and autophagy (PubMed:23604317). PCYT1A
	monoubiquitination by SCF(FBXL2) and subsequent degradation regulates synthesis of
	phosphatidylcholine, which is utilized for formation of membranes and of pulmonary surfactant
	(By similarity). The SCF(FBXL2) complex acts as a regulator of inflammation by mediating
	ubiquitination and degradation of TRAF proteins (TRAF1, TRAF2, TRAF3, TRAF4, TRAF5 and
	TRAF6) (By similarity). The SCF(FBXL2) complex acts as a negative regulator of the NLRP3
	inflammasome by mediating ubiquitination and degradation of NLRP3 (PubMed:26037928).
	{ECO:0000250 UniProtKB:Q8BH16, ECO:0000269 PubMed:22020328,
	ECO:0000269 PubMed:22323446, ECO:0000269 PubMed:23604317,
	ECO:0000269 PubMed:26037928}.
Molecular Weight:	47.1 kDa
UniProt:	Q9UKC9

## **Application Details**

Application Notes:

In addition to the applications listed above we expect the protein to work for functional studies

## **Application Details**

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	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. If you have a special request,
	please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)



**Image 1.** "Crystallography Grade" protein due to multi-step, protein-specific purification process