



[Go to Product page](#)

Datasheet for ABIN3092606

## FLII Protein (AA 1-1269) (Strep Tag)

### 1 Image

#### Overview

Quantity:	1 mg
Target:	FLII
Protein Characteristics:	AA 1-1269
Origin:	Human
Source:	Tobacco ( <i>Nicotiana tabacum</i> )
Protein Type:	Recombinant
Purification tag / Conjugate:	This FLII protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

#### Product Details

Sequence: MEATGVLPFV RGVDSLGNDF KGGYFPENVK AMTSLRWLKL NRTGLCYLPE ELAALQKLEH  
LSVSHNNLTT LHGELSSLPS LRAIVARANS LKNSGVPDDI FKDDLSVLD LSHNQLTECP  
RELENAKNML VLNLSHNSID TIPNQLFINL TDLLYDLSE NRLESPPQM RRLVHLQTLV  
LNGNPLLHAQ LRQLPAMTAL QTLHLRSTQR TQSNLPTSLE GLSNLADVLD SCNDLTRVPE  
CLYTLPSLRR LNLSSNQITE LSLCIDQWVH VETLNLNRNQ LTSLSAICK LSKLKKLYLN  
SNKLDLFDGLP SGIGKLTNLE EFMAANNLE LVPESLCRCP KLRKLVLNKN HLVTLPFAIH  
FLTEIEVLVDV RENPNLVMPP KPADRAAEWY NIDFSLQNQL RLAGASPATV AAAAAAGSGP  
KDPMARKMRL RRRKDSAQDD QAKQVLKGM S DVAQEKNNKQ EESADARAPS GKVRRWDQGL  
EKPRLDYSEF FTEDVGQLPG LTIWQIENFV PVLVEEAFHG KFYEADCYIV LKTFLDDSGS  
LNWEIYYWIG GEATLDKKAC SAIHAVNLRN YLGAECRTVR EEMGDESEEF LQVFDNDISY  
IEGGTASGFY TVEDTHYVTR MYRVYGGKNI KLEPVPLKGT SLDPRFVFL DRGLDIYVWR  
GAQATLSSTT KARLFAEKIN KNERKGAEI TLLVQGQELP EFWEALGGEP SEIKKHVPED

FWPPQPKLYK VGLGLGYLEL PQINYKLSVE HKQRPKVELM PRMRLQSLD DTRCVYILD  
WSDVFIWLGR KSPRLVRAAA LKLGQELCGM LHRPRHATVS RSLEGTEAQV FKAKFKNWDD  
VLTVDYTRNA EAVLQSPGLS GKVQRDAEKK DQMKADLTAL FLPRQPPMSL AEAEQLMEEW  
NEDLDGMEGF VLEGKKFARL PEEFEGHFYT QDCYVFLCRY WVPVEYEEEE KKEDKEEKAE  
GKEGEEATAE AEEKQPEEDF QCIVYFWQGR EASNMGWLTG TFSLQKKFES LFPQKLEVVR  
MTQQQENPKF LSHFKRKFII HRGKRKAVQG AQQPSLYQIR TNGSALCTRC IQINTDSSLL  
NSEFCILKV PFESEDNQGI VYAWVGRASD PDEAKLAEDI LNTMFDTSYS KQVINEGEEP  
ENFFWVGIGA QKPYDDDAEY MKHTRLFRCS NEKGYFAVTE KCSDFCQDDL ADDDIMLLDN  
GQEVYMWVGT QTSQVEIKLS LKACQVYIQH MRSKEHERPR RLRLVRKMGNE QHAFTRCFHA  
WSAFCKALA

**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 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 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 -

## Product Details

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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.

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Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALICE®): <ol style="list-style-type: none"><li>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.</li><li>2. 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.</li></ol>
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

## Target Details

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Target:	FLII
Alternative Name:	FLII ( <a href="#">FLII Products</a> )
Background:	Protein flightless-1 homolog,FUNCTION: May play a role as coactivator in transcriptional activation by hormone-activated nuclear receptors (NR) and acts in cooperation with NCOA2 and CARM1. Involved in estrogen hormone signaling. Involved in early embryonic development (By similarity). May play a role in regulation of cytoskeletal rearrangements involved in cytokinesis and cell migration, by inhibiting Rac1-dependent paxillin phosphorylation. {ECO:0000250, ECO:0000269 PubMed:14966289}.
Molecular Weight:	144.8 kDa
UniProt:	<a href="#">Q13045</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.

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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!

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**Restrictions:** For Research Use only

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## Handling

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**Format:** Liquid

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**Buffer:** The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.

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**Handling Advice:** Avoid repeated freeze-thaw cycles.

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**Storage:** -80 °C

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**Storage Comment:** Store at -80°C.

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**Expiry Date:** Unlimited (if stored properly)

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