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Datasheet for ABIN3136002  
**FNBP1 Protein (AA 1-616) (Strep Tag)**

### Overview

Quantity:	1 mg
Target:	FNBP1
Protein Characteristics:	AA 1-616
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This FNBP1 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

### Product Details

Sequence: MSWGTELWDQ FDNLEKHTQW GIDILEKYIK FVKERTEIEL SYAKQLRNLS KKYQPKKNSK  
EEEEYKYTAC KAFLSTLNEM NDYAGQHEVI SENMTSQITV DLMRYVQELK QERKSNFHDG  
RKAQQHIETC WKQLESSKRR FERDCKEADR AQQYFEKMDA DINVTKADVE KARQQAQIRQ  
QMAEDSKADY SLILQRFNQE QWEYYHTHIP NIFQKIQEME ERRIVRIGES MKTYAEVDRQ  
VIPIIGKCLD GIVKAAESID QKNDSQLVVE AYKSGFEPPEG DIFEDYTQP MKRTVSDNSL  
SSSKEGKPEL RFGGKSRGKL WPFIKKNKLM SLLTSPHQPP PPPPASASPS AVPNGPQSPK  
QPKEPLSHRF NEFMTSKPKI HCFRSLKRGL SLKLGVTPED FSNFPPEQRR KKLQQKVDDL  
NREIQKETDQ RDAITKMKDV YLKNPQM GDP ASLDQKLTEV TQNIKLRLE AQKFEAWLAE  
VEGRLPARSE QARRQSGLYD GQTHQTVTNC AQDRESPDGS YTEEQSQESE HKVLAPDFDD  
EFDDEEPLPA IGTCKALYTF EGQNEGTISV VEGETLSVIE EDKGDGWTRI RRNEDEEGYV  
PTSYVEVYLD KNAKGS

**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 - 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
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## Product Details

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- capture material. Eluate fractions are analyzed by SDS-PAGE.
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.

Purity:  $\geq 80\%$  as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Endotoxin Level: Low Endotoxin less than 1 EU/mg ( $< 0.1$  ng/mg)

## Target Details

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Target: FNBP1

Alternative Name: Fnbp1 ([FNBP1 Products](#))

Background: Formin-binding protein 1 (Formin-binding protein 17),FUNCTION: Required to coordinate membrane tubulation with reorganization of the actin cytoskeleton during the late stage of clathrin-mediated endocytosis. Binds to lipids such as phosphatidylinositol 4,5-bisphosphate and phosphatidylserine and promotes membrane invagination and the formation of tubules. Also enhances actin polymerization via the recruitment of WASL/N-WASP, which in turn activates the Arp2/3 complex. Actin polymerization may promote the fission of membrane tubules to form endocytic vesicles. May act as a link between RND2 signaling and regulation of the actin cytoskeleton. May be required for the lysosomal retention of FASLG/FASL (By similarity). {ECO:0000250}.

Molecular Weight: 71.3 kDa

UniProt: [Q80TY0](#)

## 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.

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.

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## Application Details

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Restrictions: For Research Use only

## Handling

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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)