

# Datasheet for ABIN3135978 FNIP2 Protein (AA 1-1108) (Strep Tag)



Overview

Quantity:	250 µg
Target:	FNIP2
Protein Characteristics:	AA 1-1108
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This FNIP2 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

## Product Details

Brand:	AliCE®
Sequence:	MAPTLLQKLF NKRGGGAASA QARPPKEEPA FSWSCSEFGL SDIRLLVYQD CERRGRQVMF
	DSRAVQKMEE AAAQKAEDVP IKMSARCCQE SSSSSGSSSS GSSSSHGFGG SLQHAKQQLP
	KYQYTRPASD VSMLGEMMFG SVAMSYKGST LKIHYIRSPP QLMISKVFSA TMGSFCGSTN
	NLQDSFEYIN QDPQAGKLNT NQYNLGPFRT GSNLAHSTPV DMPSRGQNED RDSGIARSAS
	LSSLLITPFP SPSSSTSSSS SYQRRWLRSQ TTSLENGIFP RRSTDETFSL AEETCSSNPA
	MVRRKKIAIS IIFSLCEREA AQRDFQDFFF SHFPLFESHM NRLKGAIEKA MISCRKISES
	SLRVQFYVSR LMEALGEFRG TIWNLYSVPR IAEPVWLTMM SNTLEKNQLC QRFLKEFILL
	IEQVNKNQFF AALLTAVLTY HLAWVPTVMP VDHPPIKAFS EKRTSQSVNM LAKTHPYNPL
	WAQLGDLYGA IGSPVRLTRT VVIGKQKDLV QRILYVLTYF LRCSELQENQ LSWSGNPSED
	DQVINGSKII TALEKGEVEE SEYVVVTVSS EPALVPPILP QGTAERRSPE PTVVAEISEG
	VNTSELGHKP EKNRCKRPEQ NSEASSMGFQ EAEPDSSWIP QGIFCEDKQN DQEATQDCSS

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN3135978 | 02/26/2025 | Copyright antibodies-online. All rights reserved.

	SPPSCEVPRV RRRMDQQTLH SKLHGETLKK RAEQSAAWPC PDRHSQEDPP VEKVTFHIGS
	SISPESDFES RTKRMEERLK ACGHFHGASA SASSSMDTGL TQEQQGSGCS FKADFEKDIT
	PQDHSSGGEG VSEDRGLRAN MTHAVGQLSQ VDGPLAHSLC AAESGRRLLE QTRDVQLKGY
	KGPSSEPVPN RCRQQGGLLI AADVPYGDAS GKGNYRSEGD IPRNESLDSA LGDSDDEACV
	LALLELGHSC DRTEESLEVE LPLPRSQSTS KANVRNFGRS LLAGYCATYM PDLVLHGTSS
	DEKLKQCLAA DLVHTVHHPV LDEPIAEAVC IIADTDKWTV QVATSQRKVT DTMKLGQDVL
	VSSQVSSLLQ SILQLYKLHL PADFCIMHLE DRLQEMYLKS KMLSEYLRGH TRVHVKELSV
	VLGIESNDLP LLTAIASTHS PYVAQILL
	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.
Ob and a taniation	
Characteristics:	Key Benefits:
Characteristics:	<ul><li>Key Benefits:</li><li>Made in Germany - from design to production - by highly experienced protein experts.</li></ul>
Characteristics:	·
Characteristics:	<ul> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> </ul>
Characteristics:	<ul> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> <li>Protein expressed with ALiCE® and purified in one-step affinity chromatography</li> </ul>

• 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 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:

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/4 | Product datasheet for ABIN3135978 | 02/26/2025 | Copyright antibodies-online. All rights reserved.

- 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.

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:	FNIP2
Alternative Name:	Fnip2 (FNIP2 Products)
Background:	Folliculin-interacting protein 2 (06-methylguanine-induced apoptosis 1 protein),FUNCTION:
	Binding partner of the GTPase-activating protein FLCN: involved in the cellular response to
	amino acid availability by regulating the non-canonical mTORC1 signaling cascade controlling
	the MiT/TFE factors TFEB and TFE3 (PubMed:23582324). Required to promote FLCN
	recruitment to lysosomes and interaction with Rag GTPases, leading to activation of the non-
	canonical mTORC1 signaling (By similarity). In low-amino acid conditions, component of the
	lysosomal folliculin complex (LFC) on the membrane of lysosomes, which inhibits the GTPase-
	activating activity of FLCN, thereby inactivating mTORC1 and promoting nuclear translocation
	of TFEB and TFE3 (By similarity). Upon amino acid restimulation, disassembly of the LFC
	complex liberates the GTPase-activating activity of FLCN, leading to activation of mTORC1 and
	subsequent inactivation of TFEB and TFE3 (By similarity). Together with FLCN, regulates
	autophagy: following phosphorylation by ULK1, interacts with GABARAP and promotes
	autophagy (By similarity). In addition to its role in mTORC1 signaling, also acts as a co-
	chaperone of HSP90AA1/Hsp90: inhibits the ATPase activity of HSP90AA1/Hsp90, leading to
	activate both kinase and non-kinase client proteins of HSP90AA1/Hsp90 (By similarity). Acts as
	a scaffold to load client protein FLCN onto HSP90AA1/Hsp90 (By similarity). Competes with
	the activating co-chaperone AHSA1 for binding to HSP90AA1, thereby providing a reciprocal
	regulatory mechanism for chaperoning of client proteins (By similarity). May play a role in the
	signal transduction pathway of apoptosis induced by 06-methylguanine-mispaired lesions
	(PubMed:19137017). {ECO:0000250 UniProtKB:Q8TF40, ECO:0000250 UniProtKB:Q9P278,
	ECO:0000269 PubMed:19137017, ECO:0000269 PubMed:23582324}.

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 3/4 | Product datasheet for ABIN3135978 | 02/26/2025 | Copyright antibodies-online. All rights reserved.

Target Details	
Molecular Weight:	122.5 kDa
UniProt:	Q80TD3
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 <b>Might differ depending on protein.</b>
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.

Expiry Date:

12 months

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 4/4 | Product datasheet for ABIN3135978 | 02/26/2025 | Copyright antibodies-online. All rights reserved.