

## Datasheet for ABIN3135662 FAN1 Protein (AA 1-1020) (Strep Tag)



Overview

Quantity:	250 µg
Target:	FAN1
Protein Characteristics:	AA 1-1020
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This FAN1 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

## Product Details

Brand:	AliCE®
Sequence:	MPSQRKSPDQ KRPRRSLSTS KTAKSQCHSI TSYFNSAPPA KLACSTCHKM VPRYDLIRHL
	DESCANNGVG DDVQVEPAQA GLMSPTVPTS DLPSGPLENV TPQKLSPPKR SLISVQCGSK
	LGIQQQTSPY FKDALVSKDQ NELPNQSVEI MPLGSLTSKL SRRYLNAKKS LAKNEGLASQ
	CPQTSPSTPG TSLTDNCPEM EDKDEVLNSS QKENIYSCAP LKEENASEQK VKNNKITGDE
	SQKASCGEPA LTPASAEHAS ILLSSDSTLV SNTKSSPGDT LVKQESARRA DVGLAEPLEV
	RSHKEVQMTF DAAAKTLVSG EAESNGPTDV DMSDMTTWSN NQELVREAGS VLHCPLEQGS
	SCGGPSETAQ LALSHPYYLR SFLVVLQALL GNEEDMKLFD EQEKAIITRF YQLSASGQKL
	YVRLFQRKLT WIKMSKLEYE EIASDLTPVV EELKDSGFLQ TESELQELSD VLELLSAPEL
	KALAKTFHLV SPGGQKQQLV DAFHKLAKQR SVCTWGKTQP GIRAVILKRA KDLAGRSLRV
	CKGPRAVFAR ILLLFSLTDS MEDEEAACGG QGQLSTVLLV NLGRMEFPQY TICRKTQIFR
	DREDLIRYAA AAHMLSDISA AMASGNWEDA KELARSAKRD WEQLKSHPSL RYHEALPPFL

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 ABIN3135662 | 02/25/2025 | Copyright antibodies-online. All rights reserved. RCFTVGWIYT RISSRAVEVL ERLHMYEEAV KELENLLSQK IYCPDSRGRW WDRLALNLHQ HLKRLEEAIR CIREGLADPH VRTGHRLSLY QRAVRLRESP SCRKYKHLFS RLPEVAVGDV KHVTITGRLC PQHGMGKSVF VMESGDGANP TTVLCSVEEL ALGYYRQSGF DQGIHGEGST FSTLCGLLLW DIIFMDGIPD VFRNAYQASP LDLLTDSFFA SREQALEARL QLIHSAPAES LRAWVGEAWQ AQQGRVASLV SWDRFTSLQQ AQDLVSCLGG PVLSGVCRRL AADFRHCRGG LPDLVVWNSQ SHHCKLVEVK GPSDRLSCKQ MIWLYELQKL GADVEVCHVV AVGAKSKGLG 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.

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 ABIN3135662 | 02/25/2025 | Copyright antibodies-online. All rights reserved. • 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:	FAN1
Alternative Name:	Fan1 (FAN1 Products)
Background:	Fanconi-associated nuclease 1 (EC 3.1.21) (EC 3.1.4.1) (FANCD2/FANCI-associated nuclease
	1) (mFAN1) (Myotubularin-related protein 15),FUNCTION: Nuclease required for the repair of
	DNA interstrand cross-links (ICL) recruited at sites of DNA damage by monoubiquitinated
	FANCD2. Specifically involved in repair of ICL-induced DNA breaks by being required for
	efficient homologous recombination, probably in the resolution of homologous recombination
	intermediates (By similarity). Not involved in DNA double-strand breaks resection. Acts as a 5'-
	exonuclease that anchors at a cut end of DNA and cleaves DNA successively at every third
	nucleotide, allowing to excise an ICL from one strand through flanking incisions
	(PubMed:24981866). Probably keeps excising with 3'-flap annealing until it reaches and
	unhooks the ICL. Acts at sites that have a 5'-terminal phosphate anchor at a nick or a 1- or 2-
	nucleotide flap and is augmented by a 3' flap (By similarity). Also has endonuclease activity
	toward 5'-flaps (PubMed:24981866). {ECO:0000250 UniProtKB:Q9Y2M0,
	ECO:0000269 PubMed:24981866}.
Molecular Weight:	112.9 kDa
UniProt:	Q69ZT1
Pathways:	DNA Damage Repair
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.

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## Application Details

Comment:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from
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	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

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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