

Datasheet for ABIN3092578
FANCI Protein (AA 1-1328) (Strep Tag)[Go to Product page](#)

1 Image

Overview

Quantity:	1 mg
Target:	FANCI
Protein Characteristics:	AA 1-1328
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This FANCI protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MDQKILSLAA EKTADKLQEF LQTLREGDLT NLLQNQAVKG KVAGALLRAI FKGSPCSEEA GTLRRRKIYT CCIQLVESGD LQKEIASEII GLLMLEAHHF PGPLLVELAN EFISAVREGS LVNGKSLELL PIILTALATK KENLAYGKGV LSGEECKKQL INTLCSGRWD QQYVIQLTSM FKDVPLTAE VEFVVEKALS MFSKMNLQEI PPLVYQLLVL SSKGSRKSVL EGIIAFFSAL DKQHNEEQSG DELLDVVTVP SGELRHVEGT IILHIVFAIK LDYELGRELK KHLKVGQQGD SNNNLSPFSI ALLLSVTRIQ RFQDQVLDLL KTSVVKSFKD LQLLQGSKFL QNLVPHRSYV STMILEVVKN SVHSDHVTQ GLVELGFILM DSYGPKKVL D GKTITSPSL SRMPNQHACK LGANILLET F KIHEMIRQEI LEQVLNRVVT RASSPISHFL DLLSNIVMYA PLVLQSCSSK VTEAFDYSF LPLQTVQRLL KAVQPLLKVS MSMRDCLILV LRKAMFANQL DARKSAVAGF LLLLKNFKVL GSLSSSQCSQ SLSVSQVHVD VSHYNSVAN ETFLEIMDS LRRCLSQQAD VRLMLYEGFY DVLRRNSQLA NSVMQTLLSQ LKQFYEPKPD LLPPLKLEAC ILTQGDKISL QEPLDYLLCC IQHCLAWYKN TVIPLQQGEE EEEEEAFYE DLDDILESIT NRMKSELED
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FELDKSADFS QSTSIGIKNN ICAFLVMGVC EVLIEYNFSI SSFSKNRFED ILSLFMCYKK
LSDILNEKAG KAKTKMANKT SDSLLSMKFV SLLTALFRD SIQSHQESLS VLRSSNEFMR
YAVNVALQKV QQLKETGHVS GPDGQNPEKI FQNLCDITRV LLWRYTSIPT SVEESGKKEK
GKSISLLCLE GLQKIFSAVQ QFYQPKIQF LRALDVTDK GEEREDADVS VTQRTAFQIR
QFQRSLNLL SSQEEDFNSK EALLLVTVLT SLSKLLEPSS PQFVQMLSWT SKICKENSRE
DALFCKSLMN LLFSLHVSYSK SPVILLRDLS QDIHGHLGDI DQDVEVEKTN HFAIVNLRTA
APTVCLLVLS QAEKVLEEVD WLITKLKGQV SQETLSEEAS SQATLPNQPV EKAIIMQLGT
LLTFFHELVQ TALPSGSCVD TLLKDLCKMY TTLTALVRY LQVCQSSGGI PKNMEKLVKL
SGSHLTPLCY SFISYVQNKS KSLNYTGEKK EKPAAVATAM ARVLRETKPI PNLIFAIEQY
EKFLIHLSKK SKVNLMQHMK LSTSRDFKIK GNILDMVLRE DGEDENEEGT ASEHGGQNKE
PAKKKRKK

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 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

Product Details

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. 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:	>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

Target:	FANCI
Alternative Name:	FANCI (FANCI Products)
Background:	Fanconi anemia group I protein (Protein FANCI),FUNCTION: Plays an essential role in the repair of DNA double-strand breaks by homologous recombination and in the repair of interstrand DNA cross-links (ICLs) by promoting FANCD2 monoubiquitination by FANCL and participating in recruitment to DNA repair sites. Required for maintenance of chromosomal stability. Specifically binds branched DNA: binds both single-stranded DNA (ssDNA) and double-stranded DNA (dsDNA). Participates in S phase and G2 phase checkpoint activation upon DNA damage. {ECO:0000269 PubMed:17412408, ECO:0000269 PubMed:17452773, ECO:0000269 PubMed:17460694, ECO:0000269 PubMed:19111657, ECO:0000269 PubMed:25862789}.
Molecular Weight:	149.3 kDa

Target Details

UniProt:	Q9NV11
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.
Comment:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> 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.</p> <p>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!</p>
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