Datasheet for ABIN3136572

FANCI Protein (AA 1-1330) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	FANCI
Protein Characteristics:	AA 1-1330
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This FANCI protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MDLKILSLAT DKTTDKLQEF LQTLKDDDLA SLLQNQAVKG RAVGTLLRAV LKGSPCSEED GALRRYKIYS CCIQLVESGD LQQDVASEII GLLMLEVHHF PGPLLVDLAS DFVGAVREDR LVNGKSLELL PIILTALATK KEVLACGKGD LNGEEYKRQL IDTLCSVRWP QRYMIQLTSV FKDVCLTPEE MNLVVAKVLT MFSKLNLQEI PPLVYQLLVL SSKGSRRSVL DGIIAFFREL DKQHREEQSS DELSELITAP ADELYHVEGT VILHIVFAIK LDCELGRELL KHLKAGQQGD PSKCLCPFSI ALLLSLTRIQ RFEEQVFDLL KTSVVKSFKD LQLLQGSKFL QTLVPQRTCV STMILEVVRN SVHSWDHVTQ GLIEFGFILM DSYGPKKILD GKAVEIGTSL SKMTNQHACK LGANILLETF KIHEMIRQEI LEQVLNRVVT RTSSPINHFL DLFSDIIMYA PLILQNCSKV TETFDYLTFL PLQTVQGLLK AVQPLLKISM SMRDSLILVL RKAMFASQLD ARKSAVAGFL LLLKNFKVLG SLPSSQCTQS IGVTQVRVDV HSRYSAVANE TFCLEIIDSL KRSLGQQADI RLMLYDGFYD VLRRNSQLAS SIMQTLFSQL KQFYEPEPDL LPPLKLGACV LTQGSQIFLQ EPLDHLLSCI

QHCLAWYKSR VVPLQQGDEG EEEEEELYSE LDDMLESITV RMIKSELEDF ELDKSADFSQ NTNVGIKNNI CACLIMGVCE VLMEYNFSIS NFSKSKFEEI LSLFTCYKKF SDILSEKAGK GKAKMTSKVS DSLLSLKFVS DLLTALFRDS IQSHEESLSV LRSSGEFMHY AVNVTLQKIQ QLIRTGHVSG PDGQNPDKIF QNLCDITRVL LWRYTSIPTS VEESGKKEKG KSISLLCLEG LQKTFSVVLQ FYQPKVQQFL QALDVMGTEE EEAGVTVTQR ASFQIRQFQR SLLNLLSSEE DDFNSKEALL LIAVLSTLSR LLEPTSPQFV QMLSWTSKIC KEYSQEDASF CKSLMNLFFS LHVLYKSPVT LLRDLSQDIH GQLGDIDQDV EIEKTDHFAV VNLRTAAPTV CLLVLSQAEK VLEEVDWLIA KIKGSANQET LSDKVTPEDA SSQAVPPTLL IEKAIVMQLG TLVTFFHELV QTALPSGSCV DTLLKGLSKI YSTLTAFVKY YLQVCQSSRG IPNTVEKLVK LSGSHLTPVC YSFISYVQNK SSDAPKCSEK EKAAVSTTMA KVLRETKPIP NLVFAIEQYE KFLIQLSKKS KVNLMQHMKL STSRDFKIKG SVLDMVLRED EEDENEEGTA SAHTQQDREP AKKRRKKCLS

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 -

Product Details

	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. • 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:	FANCI
Alternative Name:	Fanci (FANCI Products)
Background:	Fanconi anemia group I protein homolog (Protein FACI),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:0000250|UniProtKB:Q9NVI1}.
Molecular Weight:	149.3 kDa
UniProt:	Q8K368
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:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from

Application Details

	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 **Might differ depending on protein.**
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months