Datasheet for ABIN3095477

SF3B2 Protein (AA 1-895) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	SF3B2
Protein Characteristics:	AA 1-895
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SF3B2 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MATEHPEPPK AELQLPPPPP PGHYGAWAAQ ELQAKLAEIG APIQGNREEL VERLQSYTRQ TGIVLNRPVL RGEDGDKAAP PPMSAQLPGI PMPPPPLGLP PLQPPPPPPP PPPGLGLGFP MAHPPNLGPP PPLRVGEPVA LSEEERLKLA QQQAALLMQQ EERAKQQGDH SLKEHELLEQ QKRAAVLLEQ ERQQEIAKMG TPVPRPPQDM GQIGVRTPLG PRVAAPVGPV GPTPTVLPMG APVPRPRGPP PPPGDENREM DDPSVGPKIP QALEKILQLK ESRQEEMNSQ QEEEEMETDA RSSLGQSASE TEEDTVSVSK KEKNRKRRNR KKKKKPQRVR GVSSESSGDR EKDSTRSRGS DSPAADVEIE YVTEEPEIYE PNFIFFKRIF EAFKLTDDVK KEKEKEPEKL DKLENSAAPK KKGFEEEHKD SDDDSSDDEQ EKKPEAPKLS KKKLRRMNRF TVAELKQLVA RPDVVEMHDV TAQDPKLLVH LKATRNSVPV PRHWCFKRKY LQGKRGIEKP PFELPDFIKR TGIQEMREAL QEKEEQKTMK SKMREKVRPK MGKIDIDYQK LHDAFFKWQT KPKLTIHGDL YYEGKEFETR LKEKKPGDLS DELRISLGMP VGPNAHKVPP PWLIAMQRYG PPPSYPNLKI PGLNSPIPES

CSFGYHAGGW GKPPVDETGK PLYGDVFGTN AAEFQTKTEE EEIDRTPWGE LEPSDEESSE EEEEEESDED KPDETGFITP ADSGLITPGG FSSVPAGMET PELIELRKKK IEEAMDGSET PQLFTVLPEK RTATVGGAMM GSTHIYDMST VMSRKGPAPE LQGVEVALAP EELELDPMAM TQKYEEHVRE QQAQVEKEDF SDMVAEHAAK QKQKKRKAQP QDSRGGSKKY KEFKF

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.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Product Details

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:	SF3B2
Alternative Name:	SF3B2 (SF3B2 Products)
Background:	Splicing factor 3B subunit 2 (Pre-mRNA-splicing factor SF3b 145 kDa subunit) (SF3b145) (Spliceosome-associated protein 145) (SAP 145),FUNCTION: Component of the 17S U2 SnRNP complex of the spliceosome, a large ribonucleoprotein complex that removes introns from transcribed pre-mRNAs (PubMed:12234937, PubMed:32494006, PubMed:34822310). The 17S U2 SnRNP complex (1) directly participates in early spliceosome assembly and (2) mediates recognition of the intron branch site during pre-mRNA splicing by promoting the selection of the pre-mRNA branch-site adenosine, the nucleophile for the first step of splicing (PubMed:12234937, PubMed:32494006, PubMed:34822310). Within the 17S U2 SnRNP complex, SF3B2 is part of the SF3B subcomplex, which is required for 'A' complex assembly formed by the stable binding of U2 snRNP to the branchpoint sequence in pre-mRNA (PubMed:12234937, PubMed:27720643). Sequence independent binding of SF3A and SF3B subcomplexes upstream of the branch site is essential, it may anchor U2 snRNP to the pre-mRNA (PubMed:12234937). May also be involved in the assembly of the 'E' complex (PubMed:10882114). Also acts as a component of the minor spliceosome, which is involved in the splicing of U12-type introns in pre-mRNAs (PubMed:15146077, PubMed:33509932). {ECO:0000269|PubMed:10882114, ECO:0000269|PubMed:12234937, ECO:0000269|PubMed:15146077, ECO:0000269|PubMed:27720643, ECO:0000269|PubMed:32494006, ECO:0000269|PubMed:33509932, ECO:0000269|PubMed:34822310}.
Molecular Weight:	100.2 kDa
UniProt:	Q13435

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

Application Details

	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 **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