Datasheet for ABIN7555517

SF3B2 Protein (AA 1-895) (His tag)

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Overview

Quantity:	1 mg
Target:	SF3B2
Protein Characteristics:	AA 1-895
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SF3B2 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant SF3B2 Protein expressed in mammalian cells.
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

Product Details

	EEEEEESDED KPDETGFITP ADSGLITPGG FSSVPAGMET PELIELRKKK IEEAMDGSET PQLFTVLPEK RTATVGGAMM GSTHIYDMST VMSRKGPAPE LQGVEVALAP EELELDPMAM TQKYEEHVRE QQAQVEKEDF SDMVAEHAAK QKQKKRKAQP QDSRGGSKKY KEFKF **Sequence without tag. The proposed Purification-Tag is based on experiences 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.**
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalian cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. • 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. If you are not interested in a full length protein, please contact us for individual protein fragments. 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.
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, 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

Target Details

	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:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months