Datasheet for ABIN7555439

SF3B1 Protein (AA 1-1304) (His tag)

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Overview

Quantity:	1 mg
Target:	SF3B1
Protein Characteristics:	AA 1-1304
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SF3B1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant SF3B1 Protein expressed in mammalian cells.
Sequence:	MAKIAKTHED IEAQIREIQG KKAALDEAQG VGLDSTGYYD QEIYGGSDSR FAGYVTSIAA TELEDDDDDY SSSTSLLGQK KPGYHAPVAL LNDIPQSTEQ YDPFAEHRPP KIADREDEYK KHRRTMIISP ERLDPFADGG KTPDPKMNAR TYMDVMREQH LTKEEREIRQ QLAEKAKAGE LKVVNGAAAS QPPSKRKRRW DQTADQTPGA TPKKLSSWDQ AETPGHTPSL RWDETPGRAK GSETPGATPG SKIWDPTPSH TPAGAATPGR GDTPGHATPG HGGATSSARK NRWDETPKTE RDTPGHGSGW AETPRTDRGG DSIGETPTPG ASKRKSRWDE TPASQMGGST PVLTPGKTPI GTPAMNMATP TPGHIMSMTP EQLQAWRWER EIDERNRPLS DEELDAMFPE GYKVLPPPAG YVPIRTPARK LTATPTPLGG MTGFHMQTED RTMKSVNDQP SGNLPFLKPD DIQYFDKLLV DVDESTLSPE EQKERKIMKL LLKIKNGTPP MRKAALRQIT DKAREFGAGP LFNQILPLLM SPTLEDQERH LLVKVIDRIL YKLDDLVRPY VHKILVVIEP LLIDEDYYAR VEGREIISNL AKAAGLATMI STMRPDIDNM DEYVRNTTAR AFAVVASALG IPSLLPFLKA VCKSKKSWQA RHTGIKIVQQ IAILMGCAIL PHLRSLVEII EHGLVDEQQK VRTISALAIA ALAEAATPYG IESFDSVLKP

	LWKGIRQHRG KGLAAFLKAI GYLIPLMDAE YANYYTREVM LILIREFQSP DEEMKKIVLK VVKQCCGTDG VEANYIKTEI LPPFFKHFWQ HRMALDRRNY RQLVDTTVEL ANKVGAAEII SRIVDDLKDE AEQYRKMVME TIEKIMGNLG AADIDHKLEE QLIDGILYAF QEQTTEDSVM LNGFGTVVNA LGKRVKPYLP QICGTVLWRL NNKSAKVRQQ AADLISRTAV VMKTCQEEKL MGHLGVVLYE YLGEEYPEVL GSILGALKAI VNVIGMHKMT PPIKDLLPRL TPILKNRHEK VQENCIDLVG RIADRGAEYV SAREWMRICF ELLELLKAHK KAIRRATVNT FGYIAKAIGP HDVLATLLNN LKVQERQNRV CTTVAIAIVA ETCSPFTVLP ALMNEYRVPE LNVQNGVLKS LSFLFEYIGE MGKDYIYAVT PLLEDALMDR DLVHRQTASA VVQHMSLGVY GFGCEDSLNH LLNYVWPNVF ETSPHVIQAV MGALEGLRVA IGPCRMLQYC LQGLFHPARK VRDVYWKIYN SIYIGSQDAL IAHYPRIYND DKNTYIRYEL DYIL **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:	SF3B1
Alternative Name:	SF3B1 (SF3B1 Products)
Background:	Splicing factor 3B subunit 1 (Pre-mRNA-splicing factor SF3b 155 kDa subunit) (SF3b155) (Spliceosome-associated protein 155) (SAP 155),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:27720643, 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:32494006, PubMed:34822310). Within the 17S U2 SnRNP complex, SF3B1 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). 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). Together with other U2 snRNP complex components may also play a role in the selective processing of microRNAs (miRNAs) from the long primary miRNA transcript, pri-miR-17-92 (By similarity). {ECO:0000250|UniProtKB:Q99NB9, 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:	145.8 kDa
UniProt:	O75533
Pathways:	Chromatin Binding

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