

Datasheet for ABIN7555422
SF3B3 Protein (AA 1-1217) (His tag)



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Overview

Quantity:	1 mg
Target:	SF3B3
Protein Characteristics:	AA 1-1217
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SF3B3 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant SF3B3 Protein expressed in mammalian cells.
Sequence:	MFLYNLTLQR ATGISFAIHG NFSGTKQEI VVSRGKILEL LRPDPNTGKV HLLTVEVFG VIRSLMAFRL TGGTKDYIVV GSDSGRIVIL EYQPSKNMFE KIHQETFQKS GCRRIVPGQF LAVDPKGRAV MISAIEKQKL VYILNRDAAA RTISSPLEA HKANTLVYHV VGVVDVGFENP MFACLEMDYE EADNDPTGEA AANTQQTLTF YELDLGLNHV VRKYSEPLEE HGNFLITVPG GSDGPSGVLI CSENYITYKN FGDQPDIRCP IPRRRNDLDD PERGMIFVCS ATHKTKSMFF FLAQTEQGDI FKITLETDED MVTEIRLYKF DTPVAAAAMC VLKGTGFLVA SEFGNHLYLQ IAHLGDDDEE PEFSSAMPLE EGDTEFFQPR PLKNLVLVDE LDSLSPILFC QIADLANEDT PQLYVACGRG PRSSLRVLRH GLEVSEMAVS ELPGNPNAVW TVRRHIEDEF DAYIIVSFVN ATLVLSIGET VEEVTDSGFL GTTPTLSCSL LGDDALVQVY PDGIRHIRAD KRVNEWKTPG KKTIVKCAVN QRQVIALTG GELVYFEMDP SGQLNEYTER KEMSADVCM SLANVPPGEG RSRFLAVGLV DNTVRIISLD PSDCLQPLSM QALPAQPESL CIVEMGGTEK QDELGERGSI GFLYLNIGLQ NGVLLRVLVD PVTGDLSLTR TRYLGSRPVK LFRVRMQGQE AVLAMSSRSW

Product Details

LSYSYQSRFH LTPLSYETLE FASGFASEQC PEGIVAISTN TLRILALEKL GAVFNQVAFP
LQYTPRKFI HPESNNLIII ETDHNAYTEA TKAQRKQMA EEMVEAAGED ERELAEMA
AFLNENLPES IFGAPKAGNG QWASVIRVMN PIQGNTLDLV QLEQNEAAFS VAVCRFSNTG
EDWYVLVGA KDLILNPRSV AGGFVYTYKL VNNGEKLEFL HKTPVEEVPA AIAPFQGRVL
IGVGKLLRVY DLGKKKLLRK CENKHIANI SGIQTIGHRV IVSDVQESFI WVRYKRNEQ
LIIFADDTYP RWVTTASLLD YDTVAGADKF GNICVRLPP NTNDEVEDP TGNKALWDRG
LLNGASQAE VIMNYHVGET VLSLQKTTLI PGGSESLVYT TLGGIGILV PFTSHEDHDF
FQHVEMHLRS EHPPLCGRDH LSFERSYFPV KNVIDGDLCE QFNSMEPNKQ KNVSEELDR
T PPEVSKKLED IRTRYAF **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: SF3B3

Alternative Name: SF3B3 ([SF3B3 Products](#))

Target Details

Background: Splicing factor 3B subunit 3 (Pre-mRNA-splicing factor SF3b 130 kDa subunit) (SF3b130) (STAF130) (Spliceosome-associated protein 130) (SAP 130),FUNCTION: Component of the 17S U2 SnRNP complex of the spliceosome, a large ribonucleoprotein complex that removes introns from transcribed pre-mRNAs (PubMed:10490618, PubMed:10882114, PubMed:27720643, PubMed:28781166, 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, SF3B3 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:10490618, ECO:0000269|PubMed:10882114, ECO:0000269|PubMed:12234937, ECO:0000269|PubMed:15146077, ECO:0000269|PubMed:27720643, ECO:0000269|PubMed:28781166, ECO:0000269|PubMed:32494006, ECO:0000269|PubMed:33509932, ECO:0000269|PubMed:34822310}.

Molecular Weight: 135.6 kDa

UniProt: [Q15393](#)

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.

Handling

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months