Datasheet for ABIN3095538

FTSJ3 Protein (AA 1-847) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	FTSJ3
Protein Characteristics:	AA 1-847
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This FTSJ3 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MGKKGKVGKS RRDKFYHLAK ETGYRSRSAF KLIQLNRRFQ FLQKARALLD LCAAPGGWLQ VAAKFMPVSS LIVGVDLVPI KPLPNVVTLQ QDITTERCRQ ALRKELKTWK VDVVLNDGAP NVGASWVHDA YSQAHLTLMA LRLACDFLAR GGSFITKVFR SRDYQPLLWI FQQLFRRVQA TKPQASRHES AEIFVVCQGF LAPDKVDSKF FDPKFAFKEV EVQAKTVTEL VTKKKPKAEG YAEGDLTLYH RTSVTDFLRA ANPVDFLSKA SEIMVDDEEL AQHPATTEDI RVCCQDIRVL GRKELRSLLN WRTKLRRYVA KKLKEQAKAL DISLSSGEED EGDEEDSTAG TTKQPSKEEE EEEEEEQLNQ TLAEMKAQEV AELKRKKKKL LREQRKQRER VELKMDLPGV SIADEGETGM FSLSTIRGHQ LLEEVTQGDM SAADTFLSDL PRDDIYVSDV EDDGDDTSLD SDLDPEELAG VRGHQGLRDQ KRMRLTEVQD DKEEEEEENP LLVPLEEKAV LQEEQANLWF SKGSFAGIED DADEALEISQ AQLLFENRRK GRQQQQKQQL PQTPPSCLKT EIMSPLYQDE APKGTEASSG TEAATGLEGE EKDGISDSDS STSSEEEESW EPLRGKKRSR GPKSDDDGFE IVPIEDPAKH

RILDPEGLAL GAVIASSKKA KRDLIDNSFN RYTFNEDEGE LPEWFVQEEK QHRIRQLPVG KKEVEHYRKR WREINARPIK KVAEAKARKK RRMLKRLEQT RKKAEAVVNT VDISEREKVA QLRSLYKKAG LGKEKRHVTY VVAKKGVGRK VRRPAGVRGH FKVVDSRMKK DQRAQQRKEQ KKKHKRK

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:	FTSJ3
Alternative Name:	FTSJ3 (FTSJ3 Products)
Background:	Pre-rRNA 2'-O-ribose RNA methyltransferase FTSJ3 (EC 2.1.1.-) (Protein ftsJ homolog 3) (Putative rRNA methyltransferase 3),FUNCTION: RNA 2'-O-methyltransferase involved in the processing of the 34S pre-rRNA to 18S rRNA and in 40S ribosomal subunit formation. {ECO:0000255|HAMAP-Rule:MF_03163, ECO:0000269|PubMed:22195017}., FUNCTION: (Microbial infection) In case of infection by HIV-1 virus, recruited to HIV-1 RNA and catalyzes 2'-O-methylation of the viral genome, allowing HIV-1 virus to escape the innate immune system (PubMed:30626973). RNA 2'-O-methylation provides a molecular signature for discrimination of self from non-self and is used by HIV-1 to evade innate immune recognition by IFIH1/MDA5 (PubMed:30626973). Mediates methylation of internal residues of HIV-1 RNA, with a strong preference for adenosine (PubMed:30626973). Recruited to HIV-1 RNA via interaction with TARBP2/TRBP (PubMed:30626973). {ECO:0000269|PubMed:30626973}.
Molecular Weight:	96.6 kDa
UniProt:	Q8IY81

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 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

Application Details

	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