Datasheet for ABIN3096493

ZRANB3 Protein (AA 1-1079) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	ZRANB3
Protein Characteristics:	AA 1-1079
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ZRANB3 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MPRVHNIKKS LTPHISCVTN ESDNLLDFLP DRLRAKLLPF QKDGIIFALK RNGRCMVADE MGLGKTIQAI GITYFYKEEW PLLIVVPSSL RYPWTEEIEK WIPELSPEEI NVIQNKTDVR RMSTSKVTVL GYGLLTADAK TLIDALNNQN FKVVIVDESH YMKSRNATRS RILLPIVQKA RRAILLTGTP ALGRPEELFM QIEALFPQKF GRWTDYAKRY CNAHIRYFGK RPQWDCRGAS NLNELHQLLS DIMIRRLKTE VLTQLPPKVR QRIPFDLPSA AAKELNTSFE EWEKIMRTPN SGAMETVMGL ITRMFKQTAI AKAGAVKDYI KMMLQNDSLK FLVFAHHLSM LQACTEAVIE NKTRYIRIDG SVSSSERIHL VNQFQKDPDT RVAILSIQAA GQGLTFTAAS HVVFAELYWD PGHIKQAEDR AHRIGQCSSV NIHYLIANGT LDTLMWGMLN RKAQVTGSTL NGRKEKIQAE EGDKEKWDFL QFAEAWTPND SSEELRKEAL FTHFEKEKQH DIRSFFVPQP KKRQLMTSCD ESKRFREENT VVSSDPTKTA ARDIIDYESD VEPETKRLKL AASEDHCSPS EETPSQSKQI RTPLVESVQE AKAQLTTPAF PVEGWQCSLC TYINNSELPY CEMCETPQGS AVMQIDSLNH

IQDKNEKDDS QKDTSKKVQT ISDCEKQALA QSEPGQLADS KEETPKIEKE DGLTSQPGNE QWKSSDTLPV YDTLMFCASR NTDRIHIYTK DGKQMSCNFI PLDIKLDLWE DLPASFQLKQ YRSLILRFVR EWSSLTAMKQ RIIRKSGQLF CSPILALEEI TKQQTKQNCT KRYITKEDVA VASMDKVKNV GGHVRLITKE SRPRDPFTKK LLEDGACVPF LNPYTVQADL TVKPSTSKGY LQAVDNEGNP LCLRCQQPTC QTKQACKANS WDSRFCSLKC QEEFWIRSNN SYLRAKVFET EHGVCQLCNV NAQELFLRLR DAPKSQRKNL LYATWTSKLP LEQLNEMIRN PGEGHFWQVD HIKPVYGGGG QCSLDNLQTL CTVCHKERTA RQAKERSQVR RQSLASKHGS DITRFLVKK

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.

Product Details

- 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.

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:	ZRANB3
Alternative Name:	ZRANB3 (ZRANB3 Products)
Background:	DNA annealing helicase and endonuclease ZRANB3 (Annealing helicase 2) (AH2) (Zinc finger Ran-binding domain-containing protein 3) [Includes: DNA annealing helicase ZRANB3 (EC 3.6.4.-), Endonuclease ZRANB3 (EC 3.1.-.-)],FUNCTION: DNA annealing helicase and endonuclease required to maintain genome stability at stalled or collapsed replication forks by facilitating fork restart and limiting inappropriate recombination that could occur during template switching events (PubMed:21078962, PubMed:22704558, PubMed:22705370, PubMed:22759634, PubMed:26884333). Recruited to the sites of stalled DNA replication by polyubiquitinated PCNA and acts as a structure-specific endonuclease that cleaves the replication fork D-loop intermediate, generating an accessible 3'-OH group in the template of the leading strand, which is amenable to extension by DNA polymerase (PubMed:22759634). In addition to endonuclease activity, also catalyzes the fork regression via annealing helicase activity in order to prevent disintegration of the replication fork and the formation of double-strand breaks (PubMed:22705370, PubMed:22704558). {ECO:0000269|PubMed:21078962, ECO:0000269|PubMed:22704558, ECO:0000269|PubMed:22705370, ECO:0000269|PubMed:22759634, ECO:0000269|PubMed:26884333}.
Molecular Weight:	123.2 kDa
UniProt:	Q5FWF4

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