

Datasheet for ABIN3096458

ZFYVE9 Protein (AA 1-1425) (Strep Tag)



[Go to Product page](#)

1 Image

Overview

Quantity:	1 mg
Target:	ZFYVE9
Protein Characteristics:	AA 1-1425
Origin:	Human
Source:	Tobacco (<i>Nicotiana tabacum</i>)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ZFYVE9 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), ELISA, SDS-PAGE (SDS)

Product Details

Sequence:	MENYFQAEAY NLDKVLDEFE QNEDETVSST LLDTKWINKIL DPPSHRLSFN PTLASVNESA VSNESQPQLK VFLAHSAPL TTEEDHCAN GQDCNLNPEI ATMWIDENAV AEDQLIKRNY SWDDQCSAVE VGEKCKGNLA CLPDEKNVLV VAVMHNCDKR TLQNDLQDCN NYNSQSLMDA FSCSLDNENR QTDQFSFSIN ESTEKDMNSE KQMDPLNRPK TEGRSVNHL C PTSSDSLASV CSPSQLKDDG SIGRDPSMSA ITSLTVDSVI SSQGTGCPA VKKQENYIPD EDLTGKISSP RTDLGSPNSF SHMSEGILMK KEPAEESTTE ESLRSGPLLL LKPDMPNGSG RNNDCERCSD CLVPNEVRAD ENEGYEHEET LGTTEFLNMT EHFSESQDMT NWKLTCLNEM NDSQVNEEKE KFLQISQPED TNGDSSGQCV GLADAGLDLK GTCISESEEC DFSTVIDTPA ANYLSNGCDS YGMQDPGVSF VPKTLPSKED SVTEEKEIEE SKSECYSNIY EQRGNEATEG SGLLLNSTGD LMKKNYLHNF CSQVPSVLGQ SSPKVVASLP SISVPFGGAR PKQPSNLKLQ IPKPLSDHLQ NDFPANSINN TKNKNDILGK AKLGENSATN VCSPSLGNIS NVDTNGEHLE SYEAEISTRP CLALAPDSPD NDLRAGQFGI SARKPFTTLG EVAPVWVPDS QAPNCMKCEA RFTFTKRRHH
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CRACGKVFCA SCCSLKCKLL YMDRKEARVC VICHSVLMNA QAWENMMSAS SQSPNPNNPA
EYCSTIPPLQ QAQASGALSS PPPTVMVPG VLKHPGAEVA QPREQRRVWF ADGILPNGEV
ADAAKLTMNG TSSAGTLAVS HDPVKPVTTS PLPAETDIDL FSGSITQVGS PVGSAMNLIP
EDGLPPILIS TGVKGDYAVE EKPSQISVMQ QLEDGGPDPL VFVLNANLLS MVKIVNYVNR
KCWCFTTKGM HAVGQSEIVI LLQCLPDEKC LPKDIFNHFV QLYRDALAGN VVSNLGHSEFF
SQSFLGSKEH GGFLYVTSTY QSLQDLVLPT PPYLFILIQ KWETPWAKVF PIRLMLRLGA
EYRLYPCPLF SVRFRKPLFG ETGHTIMNLL ADFRNYQYTL PVVQGLVDDM EVRKTSIKIP
SNRYNEMMKA MNKSNEHVLA GGACFNEKAD SHLVCVQNDG GNYQTQAISI HNQPRKVTGA
SFFVFSGALK SSSGYLAKSS IVEDGVMVQI TAENMDSLRLQ ALREMKDFTI TCGKADAEPP
QEHIHIQWVD DDKNVSKGVV SPIDGKSMET ITNVKIFHGS EYKANGKVIR WTEVFFLEND
DQHNCLSDPA DHSRLTEHVA KAFCLALCPH LKLLKEDGMT KLGLRVTLDS DQVGYQAGSN
GQPLPSQYMN DLDSALVPVI HGGACQLSEG PVVMELIFYI LENIV

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 by multi-step, protein-specific process to ensure correct folding and modification.
- 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 will ensure that you receive a correctly folded 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

Product Details

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 in several dilutions and is measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®): <ol style="list-style-type: none">1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE.2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade

Target Details

Target:	ZFYVE9
Alternative Name:	ZFYVE9 (ZFYVE9 Products)
Background:	Zinc finger FYVE domain-containing protein 9 (Mothers against decapentaplegic homolog-interacting protein) (Madh-interacting protein) (Novel serine protease) (NSP) (Receptor activation anchor) (hSARA) (Smad anchor for receptor activation),FUNCTION: Early endosomal protein that functions to recruit SMAD2/SMAD3 to intracellular membranes and to the TGF-beta receptor. Plays a significant role in TGF-mediated signaling by regulating the subcellular location of SMAD2 and SMAD3 and modulating the transcriptional activity of the SMAD3/SMAD4 complex. Possibly associated with TGF-beta receptor internalization. {ECO:0000269 PubMed:15356634, ECO:0000269 PubMed:9865696}.
Molecular Weight:	156.4 kDa

Target Details

UniProt: [O95405](#)

Pathways: [Protein targeting to Nucleus](#)

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 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. If you have a special request, please contact us.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: Unlimited (if stored properly)



Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process