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Datasheet for ABIN3096433

ZNF445 Protein (AA 1-1031) (Strep Tag)

1 Image

Overview

Quantity:	1 mg
Target:	ZNF445
Protein Characteristics:	AA 1-1031
Origin:	Human
Source:	Tobacco (<i>Nicotiana tabacum</i>)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ZNF445 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence: MPPGRWHAAY PAQAQSSRER GRLQTVKKEE EDESYPVQA ARPQTLNRPQ QELFRQLFRQ
LRYHESSGPL ETL SRLRELC RWWLRPDVLS KAQILELLVL EQFLSILPGE LRVVWQLHNP
ESGEEAVALL EELQRDL DGT SWRDPGPAQS PDVHWMGTGA LRSAQIWSLA SPLRSSSALG
DHLEPPYEIE ARDFLAGQSD TPAAQMPALF PREGCPGDQV TPTRSLTAQL QETMTFKDVE
VTFSQDEWGW LDSAQRNLYR DVML ENYRNM ASLVGPFTKP ALISWLEARE PWGLNMQAAQ
PKGPNVAAPT GDDLQSKTNK FILNQEPL EE AETLAVSSGC PATSVSEIG LRESFQQKSR
QKDQCENPIQ VRVKKEETNF SHRTGKDSEV SGSNSLDLKH VTYLRVSGRK ESLKHGCGKH
FRMSSHHDYD KKYGKGLRHM IGGFSLHQRI HSGLKGNKKD VCGKDFSLSS HHQRGQSLHT
VGVSFKCSDC GRTFSHSSHL AYHQRLLHTQE KAFKCRVCGK AFRWSSNCAR HEKIHTGVKP
YKCDLCEKAF RRLSAYRLHR ETHAKKKFLE LNQYRAALTY SSGFDHHLGD QSGEKLFDSC
QCRKSFHCKS YVLEHQRIHT QEKPYKCTKC RKTFRWRSNF TRHMRLHEEE KFYKQDECRE
GFRQSPDCSQ PQGAPAVEKT FLCQQCGKTF TRKKTLDVHQ RIHTGEKPYQ CSDCGKDFAY

RSAFIVHKKK HAMKRKPEGG PSFSQDTV FQ VPQSSHSKEE PYKCSQCGKA FRNHSFLLIH
QRVHTGEKPY KCRECGKA FR WSSNLYRHQR IHS LQKQYDC HESEKTPNVE PKILTGEKRF
WCQECGKTFT RKRTL LDHKG IHSGEKRYKC NLGKSYDRN YRLVNHQRIH STERPFKCQW
CGKEFIGRHT LSSHQRKHTR AAQAERSPPA RSSSQDTKLR LQKLPSEEM PLEDCKEACS
QSSRLTGLQD ISIGKKCHKC SICGKTFNKS SQLISHKRFH TRERPFKCSK CGKTFRWSSN
LARHMKNHIR D

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 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 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:	ZNF445
Alternative Name:	ZNF445 (ZNF445 Products)
Background:	Zinc finger protein 445 (ZFP445) (Zinc finger protein 168) (Zinc finger protein with KRAB and SCAN domains 15),FUNCTION: Transcription regulator required to maintain maternal and paternal gene imprinting, a process by which gene expression is restricted in a parent of origin-specific manner by epigenetic modification of genomic DNA and chromatin, including DNA methylation. Acts by controlling DNA methylation during the earliest multicellular stages of development at multiple imprinting control regions (ICRs) (PubMed:30602440). Acts together with ZFP57, but seems to be the major factor in human early embryonic imprinting maintenance. In contrast, in mice, ZFP57 plays the predominant role in imprinting maintenance (PubMed:30602440). {ECO:0000269 PubMed:30602440}.
Molecular Weight:	119.0 kDa
UniProt:	P59923

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
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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. 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