

Datasheet for ABIN3096433

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



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Overview

Quantity:	250 µg
Target:	ZNF445
Protein Characteristics:	AA 1-1031
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ZNF445 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AlIcE®
Sequence:	<p>MPPGRWHAAY PAQAQSSRER GRLQTVKKEE EDESYPVQA ARPQTLNRPQ QELFRQLFRQ</p> <p>LRHYESSGPL ETL SRLREL C RWWLRPDVLS KAQILELLVL EQFLSILPGE LRVVWQLHNP</p> <p>ESGEEAVALL EELQRDL DGT SWRDPGPAQS PDVHWMGTGA LRSAQIWSLA SPLRSSSALG</p> <p>DHLEPPYEIE ARDFLAGQSD TPAAQMPALF PREGCPGDQV TPTRSLTAQL QETMTFKDVE</p> <p>VTFSQDEWGW LDSAQRNLYR DVML ENYRNM ASLVGPFTKP ALISWLEARE PWGLNMQAAQ</p> <p>PKGNPVAAPT GDDLQSKTNK FILNQEPLEE AETLAVSSGC PATSVSEGIG LRESFQQKSR</p> <p>QKDQCENPIQ VRVKKEETNF SHRTGKDSEV SGSNSLDLKH VTYLRVSGRK ESLKHGCGKH</p> <p>FRMSSHHDYDY KKYGKGLRHM IGGFSLHQRI HSGLKGNKKD VCGKDFSLSS HHQRGQSLHT</p> <p>VGVSFKCSDC GRTFSHSSHL AYHQLRHTQE KAFKCRVCGK AFRWSSNCAR HEKIHTGVKP</p> <p>YKCDLCEKAF RRLSAYRLHR ETHAKKKFLE LNQYRAALTY SSGFDHHLGD QSGEKLFDSCS</p> <p>QCRKSFHCKS YVLEHQRIHT QEKPYKCTKC RKTFRWRSNF TRHMRLHEEE KFYKQDECRE</p>

GFRQSPDCSQ PQGAPAVEKT FLCQQCGKTF TRKKTLDVHQ RIHTGEKPYQ CSDCGKDFAY
RSAFIVHKKK HAMKRKPEGG PSFSQDTVQ VPQSSHSKEE PYKCSQCGKA FRNHSFLLIH
QRVHTGEKPY KCRECGKAFR WSSNLYRHQR IHSLQKQYDC HESEKTPNVE PKILTGEKRF
WCQECGKTFT RKRTLDDHKG IHSGEKRYKC NLGKSYDRN YRLVNHQRIH STERPFCQW
CGKEFIGRHT LSSHQRKHTR AAQAERSPPA RSSSQDTKLR LQKLKPSEEM PLEDCKEACS
QSSRLTGLQD ISIGKKCHKC SICGKTFNKS SQLISHKRFH TRERPFCCK SKGKTFRWSSN
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 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: 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 guarantee though.

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Application Details

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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