Datasheet for ABIN3096461

ZNF281 Protein (AA 1-895) (Strep Tag)

Go to Product page

Overview

Quantity:	250 µg
Target:	ZNF281
Protein Characteristics:	AA 1-895
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ZNF281 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MKIGSGFLSG GGGTGSSGGS GSGGGGSGGG GGGGSSGRRA EMEPTFPQGM VMFNHRLPPV TSFTRPAGSA APPPQCVLSS STSAAPAAEP PPPPAPDMTF KKEPAASAAA FPSQRTSWGF LQSLVSIKQE KPADPEEQQS HHHHHHHHYG GLFAGAEERS PGLGGGEGGS HGVIQDLSIL HQHVQQQPAQ HHRDVLLSSS SRTDDHHGTE EPKQDTNVKK AKRPKPESQG IKAKRKPSAS SKPSLVGDGE GAILSPSQKP HICDHCSAAF RSSYHLRRHV LIHTGERPFQ CSQCSMGFIQ KYLLQRHEKI HSREKPFGCD QCSMKFIQKY HMERHKRTHS GEKPYKCDTC QQYFSRTDRL LKHRRTCGEV IVKGATSAEP GSSNHTNMGN LAVLSQGNTS SSRRKTKSKS IAIENKEQKT GKTNESQISN NINMQSYSVE MPTVSSSGGI IGTGIDELQK RVPKLIFKKG SRKNTDKNYL NFVSPLPDIV GQKSLSGKPS GSLGIVSNNS VETIGLLQST SGKQGQISSN YDDAMQFSKK RRYLPTASSN SAFSINVGHM VSQQSVIQSA GVSVLDNEAP LSLIDSSALN AEIKSCHDKS GIPDEVLQSI LDQYSNKSES QKEDPFNIAE PRVDLHTSGE HSELVQEENL SPGTQTPSND

KASMLQEYSK YLQQAFEKST NASFTLGHGF QFVSLSSPLH NHTLFPEKQI YTTSPLECGF GQSVTSVLPS SLPKPPFGML FGSQPGLYLS ALDATHQQLT PSQELDDLID SQKNLETSSA FQSSSQKLTS QKEQKNLESS TGFQIPSQEL ASQIDPQKDI EPRTTYQIEN FAQAFGSQFK SGSRVPMTFI TNSNGEVDHR VRTSVSDFSG YTNMMSDVSE PCSTRVKTPT SQSYR

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:	ZNF281
Alternative Name:	ZNF281 (ZNF281 Products)
Background:	Zinc finger protein 281 (GC-box-binding zinc finger protein 1) (Transcription factor ZBP-99) (Zinc finger DNA-binding protein 99),FUNCTION: Transcription repressor that plays a role in regulation of embryonic stem cells (ESCs) differentiation. Required for ESCs differentiation and acts by mediating autorepression of NANOG in ESCs: binds to the NANOG promoter and promotes association of NANOG protein to its own promoter and recruits the NuRD complex, which deacetylates histones. Not required for establishement and maintenance of ESCs (By similarity). Represses the transcription of a number of genes including GAST, ODC1 and VIM. Binds to the G-rich box in the enhancer region of these genes. {ECO:0000250, ECO:0000269|PubMed:10448078, ECO:0000269|PubMed:12771217}.
Molecular Weight:	96.9 kDa
UniProt:	Q9Y2X9
Pathways:	Embryonic Body Morphogenesis

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

Application 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!
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