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Datasheet for ABIN3096461

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

Overview

Quantity:	1 mg
Target:	ZNF281
Protein Characteristics:	AA 1-895
Origin:	Human
Source:	Tobacco (<i>Nicotiana tabacum</i>)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ZNF281 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence: MKIGSGFLSG GGGTGSSGGS GSGGGGSGGG GGGGSSGRRA EMEPTFPQGM VMFNHRLPPV
TSFTRPAGSA APPPQCVLSS STSAAPAAEP PPPPAPDMTF KKEPAASAAA FPSQRTSWG
LQSLVSIKQE KPADPEEQQS HHHHHHHHHYGLFAGAEERS PGLGGGEGGS HGVIQDLSIL
HQHVQQPAQ HHRDVLLSSS SRTDDHHGTE EPKQDTNVKK AKRPKPESQG IKAKRKPSAS
SKPSLVGDGE GAILSPSQKP HICDHCSAAF RSSYHLRRHV LIHTGERPFQ CSQCSMGFIQ
KYLQRHEKI HSREKPFQCD QCSMKFIQKY HMERHKRTHS GEKPYKCDTC QQYFSRTDRL
LKHRRTCGEV IVKGATSAEP GSSNHTNMGN LAVLSQGNTS SSRRKTKSKS IAIENKEQKT
GKTNESQISN NINMQSYSVE MPTVSSSGGI IGTGIDELQK RVPKLIFKKG SRKNTDKNYL
NFVSPLPDIV GQKSLSGKPS GSLGIVSNNS VETIGLLQST SGKQGQISSN YDDAMQFSKK
RRYLPTASSN SAFSINVGHM VSQQSVIQA GVSVDNEAP 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
SGSRVPMFTI 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 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.
- 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.

Product Details

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)

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 establishment 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 <i>Nicotiana tabacum</i> c.v.. This contains all the protein expression machinery needed to produce

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. 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)