

Datasheet for ABIN3096441

ZNF451 Protein (AA 1-1061) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	ZNF451
Protein Characteristics:	AA 1-1061
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ZNF451 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	<p>MGDPGSEIIE SVPPAGPEAS ESTTDENEDD IQFVSEGPLR PVLEYIDLVS SDDEEPSTSY</p> <p>TDENIKRKDH IDYQKDKVAL TLARLARHVE VEKQKKEKN RAFREKIDFQ HAHGLQELEF</p> <p>IRGHSDTEAA RLCVDQWLKM PGLKTGTINC GTKSSFRRGG HTWVSGKPIL CPIMHCNKEF</p> <p>DNGHLLLGHL KRFDHSPCDP TITLHGPFSS SFACVVCYKK FVTQQQYRDH LFDKEATDDG</p> <p>HNNNLLPQII QCFACPNCFL LFSRKEECSK HMSGKNHFHQ SFKLGDNKG I AHPISFPSFA</p> <p>KKLLISLCKD VPFQVKCVAC HKTLRSHMEL TAHFRVHCRN AGPVAVAEKS ITQVAEKFIL</p> <p>RGYCPDCNQV FVDETSTQNH KQNSGHKVRV INSVEESVLL YCHSSEGND PSSDLHLLLD</p> <p>QSKFSSLKRT MSIKESSSLE CIAIPKKKMN LKDKSHEGVA CVQKEKSVVK TWFCENQRF</p> <p>PSEDAVEKHV FSANTMGYKC VCGKVCDDG GVIRLHMSRI HGGAHLLNNFL FWCRTCKKEL</p> <p>TRKDTIMAHV TEFHNGHRYF YEMDEVEGET LPSSSTLDN LTANKPSSAI TVIDHSPANS</p> <p>SPRGKWQCRI CEDMFDSQEY VKQHCMSLAS HKFHRYS CAH CRKPFHKIET LYRHCQDEHD</p>

NEIKIKYFCG LCDLIFNVEE AFLSHYEEHH SIDYVVFVSEK TETSIKTEDD FPVIETSNQL
TCGCRESYIC KVN RKEDYSR CLQIMLDKGK LWFRCSLCSA TAQNL TDMNT HIHQVHKEKS
DEEEQQYVIK CGTCTKAFHD PESAQQH FHR KHCFLQKPSV AHFGSEKSNL YKFTASASHT
ERKLKQAINY SKSLDMEKGV ENDLSYQNie EEIVELPDLD YLRTMTHIVF VDFDNWSNFF
GHLPGHLNQG TFIWGFQGGN TNWKPPLNCK IYNYLNRIGC FFLHPRCSKR KDAADFAICM
HAGRLDEQLP KQIPFTILSG DQGfLELENQ FKKTQRPAHI LNP HHLEGDM MCallNSISD
TTKECDSDDN MGAKNTSIGE EFISTEDVEL EEAIRRSLEE M

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: ZNF451

Alternative Name: ZNF451 ([ZNF451 Products](#))

Background: E3 SUMO-protein ligase ZNF451 (EC 2.3.2.-) (Coactivator for steroid receptors) (E3 SUMO-protein transferase ZNF451) (Zinc finger protein 451),FUNCTION: E3 SUMO-protein ligase, has a preference for SUMO2 and SUMO3 and facilitates UBE2I/UBC9-mediated sumoylation of target proteins (PubMed:26524493, PubMed:26524494). Plays a role in protein SUMO2 modification in response to stress caused by DNA damage and by proteasome inhibitors (in vitro). Required for MCM4 sumoylation (By similarity). Has no activity with SUMO1 (PubMed:26524493). Preferentially transfers an additional SUMO2 chain onto the SUMO2 consensus site 'Lys-11' (PubMed:26524493). Negatively regulates transcriptional activation mediated by the SMAD4 complex in response to TGF-beta signaling. Inhibits EP300-mediated acetylation of histone H3 at 'Lys-9' (PubMed:24324267). Plays a role in regulating the transcription of AR targets (PubMed:18656483). {ECO:0000250|UniProtKB:Q8C0P7, ECO:0000269|PubMed:18656483, ECO:0000269|PubMed:24324267, ECO:0000269|PubMed:26524493, ECO:0000269|PubMed:26524494}.

Molecular Weight: 121.5 kDa

UniProt: [Q9Y4E5](#)

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

Application Details

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. 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