

Datasheet for ABIN3096472

**Zinc Finger, BED-Type Containing 6 (ZBED6) (AA 1-979)
protein (Strep Tag)**[Go to Product page](#)

Overview

Quantity:	250 µg
Target:	Zinc Finger, BED-Type Containing 6 (ZBED6)
Protein Characteristics:	AA 1-979
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	Strep Tag
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MSVCTLSVPV SSLSPGRRCN TFSDSGILGC VPINSNTDEE DVVEEKMVAE GVNKEAKQPA KKKRRKKGLRI KGKRRRKKLI LAKKFSKDLG SGRP VADAPA LLASNDPEQD EESLFESNIE KQIYLPSTRA KTSIVWHFFH VDPQYTWRAI CNLCEKSVSR GKPGSHLGTS TLQRHLQARH SPHWTRANKF GVASGEEDFT LDVSLPSSG SNGSFEYIPT DPLDDNRMGK KHKDSASDAL RAERGRFLIK SNIVKHALIP GTRAKTSAVW NFFYTD PQHI SRAVCNICKR SVSRGRPGSH LGTSTLQRHL QATHPIHWAV ANKDSGAVAN GLDEAETERS DLLSDTLHGE KSTGSQDLTA EDLSDSDSDE PMLEVENRSE SPIPVAEQGT LMRAQERETT CCGNPVSSHI SQAIQMIVE DMHPYNYFST PAFQRFMQIV APDYRLPSET YFFTKAVPQL YDCVREKIFL TLENVQSQKI HLTVDIWTHD PSTDYFIVTV HWVSLETASF LNNGRIPDFR KWAVLCVTGL AKDCLITNIL QELNDQIGLW LSPNFLIPSF IVSDNSSNVV HAIKDGGFTH VPCFLHCLNM VIQDFFCEHK SIENMLVAAR KTCHHFSSSV KARQILQEFQ NDHQLPWKNL KQDETGHWIS TFYMLKWLLE

HCYSVHHS LG RASGVLTSL QWTLMTYVCD ILKPFEEATQ KVSVKTAGLN QVLPLIHLL
LSLQKLREDF QVRGITQALN LVDSLCLKLE TDTLLSAMLK SKPCILATLL DPCFKNSLED
FFPQGADLET YKQFLAEEVC NYMESSPEIC QIPTSEASCP SVTVGADSFT SSLKEGTSSS
GSVDSSAVDN VALGSKSFMF PSAVAVDEY FKEKYSEFSG GDDPLIYWQR KISIWPALTQ
VAIQYLSCPM CSWQSECIFT KNSHFHPKQI MSLDFDNIEQ LMFLKMNLKN VNYDYSTLVL
SWDPEQNEVV QSSEKEILP

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.

Product Details

- 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: Zinc Finger, BED-Type Containing 6 (ZBED6)

Alternative Name: ZBED6

Background: Zinc finger BED domain-containing protein 6,FUNCTION: Transcriptional repressor which binds to the consensus sequence 5'-GCTCGC-3', transcription regulation may be tissue-specific (By similarity). Regulates the expression of target genes such as: IGF2, PGAP6/TMEM8, ENHO, and PIANP (By similarity). Acts as a transcriptional repressor of growth factor IGF2, thereby negatively regulating postnatal growth of muscles and internal organs, especially in females (By similarity). Negatively regulates myoblast differentiation and myoblast mitochondrial activity via its regulation of IGF2 transcription (By similarity). Negatively regulates the cell cycle of myoblasts, potentially via transcriptional regulation of the E2F family of transcription factors such as: E2F1 and E2F2 (By similarity). Positively regulates the cell cycle and survival of pancreatic beta cells (PubMed:24043816). Binds to the CDH2 gene and may directly repress CDH2 transcription (By similarity). Probably by controlling CDH2 expression, regulates pancreatic beta cell adhesion, and formation of cell-to-cell junctions between pancreatic beta cells and neural crest stem cells (By similarity). May also play a role in embryonic beta cell differentiation (By similarity). May play a role in insulin sensitivity and glucose clearance (By similarity). {ECO:0000250|UniProtKB:D2EAC2, ECO:0000269|PubMed:24043816}.

Molecular Weight: 110.0 kDa

UniProt: [P86452](#)

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.

Application Details

Comment:	<p>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 even the most difficult-to-express proteins, including those that require post-translational modifications.</p> <p>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!</p>
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	<p>The buffer composition is at the discretion of the manufacturer.</p> <p>Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.</p>
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months