

Datasheet for ABIN3093223

ZBTB33 Protein (AA 1-672) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	ZBTB33
Protein Characteristics:	AA 1-672
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ZBTB33 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AlIcE®
Sequence:	<p>MESRKLISAT DIQYSGSLLN SLNEQRGHGL FCDVTVIVED RKFRAHKNIL SASSTYFHQL</p> <p>FSVAGQVVEL SFIRAEIFAE ILNYIYSSKI VRVRSDLLDE LIKSGQLLGV KFIAELGVPL SQVKSISGTA</p> <p>QDGNTEPLPP DSGDKNLVIQ KSKDEAQDNG ATIMPIITES FLSAEDYEM KKIIVTDSDD</p> <p>DDDDVIFCSE ILPTKETLPS NNTVAQVQSN PGPVAISDVA PSASNNSPPL TNITPTQKLP</p> <p>TPVNQATLSQ TQGSEKLLVS SAPTHLTPNI ILLNQTPLST PPNVSSSLPN HMPSSINLLV</p> <p>QNQQTPNSAI LTGNKANEEEE EEEIDDDDD TISSPDSAV SNTSLVPQAD TSQNTSFDGS</p> <p>LIQKMQIPTL LQEPLNSLK ISDIITRNTN DPGVGSKHLM EGQKIITLDT ATEIEGLSTG</p> <p>CKVYANIGED TYDIVIPVKD DPDEGEARLE NEIPKTSGSE MANKRMKVKH DDHYELIVDG</p> <p>RVYYICIVCK RSYVCLTSLR RHFNIHSWEK KYPCRYCEKV FPLAEYRTKH EIHHTGERRY</p> <p>QCLACGKSFY NYQFMSSHIK SVHSQDPSGD SKLYRLHPCR SLQIRQYAYL SDRSSTIPAM</p> <p>KDDGIGYKVD TGKEPPVGTT TSTQNKPMTW EDIFIQQEND SIFKQNVTDG STEFEFIIPE SY</p>

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.

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).

Product Details

Grade: custom-made

Target Details

Target: ZBTB33

Alternative Name: ZBTB33 ([ZBTB33 Products](#))

Background: Transcriptional regulator Kaiso (Zinc finger and BTB domain-containing protein 33),FUNCTION: Transcriptional regulator with bimodal DNA-binding specificity. Binds to methylated CpG dinucleotides in the consensus sequence 5'-CGCG-3' and also binds to the non-methylated consensus sequence 5'-CTGCNA-3' also known as the consensus kaiso binding site (KBS). Recruits the N-CoR repressor complex to promote histone deacetylation and the formation of repressive chromatin structures in target gene promoters. May contribute to the repression of target genes of the Wnt signaling pathway. May also activate transcription of a subset of target genes by the recruitment of CTNND2. Represses expression of MMP7 in conjunction with transcriptional corepressors CBFA2T3, CBFA2T2 and RUNX1T1 (PubMed:23251453). {ECO:0000269|PubMed:11445535, ECO:0000269|PubMed:14527417, ECO:0000269|PubMed:15548582, ECO:0000269|PubMed:15817151, ECO:0000269|PubMed:16354688, ECO:0000269|PubMed:23251453}.

Molecular Weight: 74.5 kDa

UniProt: [Q86T24](#)

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 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

Application Details

	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