

[Go to Product page](#)

Datasheet for ABIN3096482

ZHX3 Protein (AA 1-956) (Strep Tag)

Overview

Quantity:	1 mg
Target:	ZHX3
Protein Characteristics:	AA 1-956
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ZHX3 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	<p>MASKRKSTTP CMIPVKTVVL QDASMEAQPA ETLPEGPQQD LPPEASAASS EAAQNPSSTD</p> <p>GSTLANGHRS TLDGYLYSCK YCDFRSHDMT QFVGHMNSEH TDFNKDPTFV CSGCSFLAKT</p> <p>PEGLSLHNAT CHSGEASFVW NVAKPDNHVV VEQSIPESTS TPDLAGEPSA EGADGQAEII</p> <p>ITKTPIMKIM KGKAEAKKIH TLKENVPSQP VGEALPKLST GEMEVREGDH SFINGAVPVS</p> <p>QASASSAKNP HAANGPLIGT VPVLPAGIAQ FLSLQQQPPV HAQHHVHQPL PTAKALPKVM</p> <p>IPLSSIPTYN AAMDNSNFLK NSFHKFPYPT KAELCYLTVV TKYPPEQLKI WFTAQRLKQG</p> <p>ISWSPEEIED ARKKMFNTVI QSVQPQTITV LNTPLVASAG NVQHLIQAAL PGHVVGQPEG</p> <p>TGGGLLVTPQ LMANGLQATS SPLPLTVTSV PKQPGVAPIN TVCSNTTSAV KVVNAAQSL</p> <p>TACPSITSQA FLDASIYKNK KSHEQLSALK GSFCRNQFPG QSEVEHLTKV TGLSTREVRK</p> <p>WFSDDRYHCR NLKGSRAMIP GDHSSIIIDS VPEVSFSPSS KVPEVTCIPT TATLATHPSA</p> <p>KRQSWHQTPD FTPTKYKERA PEQLRALESS FAQNPLPLDE ELDRLRSETK MTRREIDSWF</p> <p>SERRKKVNAE ETKKAEENAS QEEEEAAEDE GGEEDLASEL RVSGENGSL E MPSSHILAER</p>
-----------	---

KVSPKINLK NLRVTEANGR NEIPGLGACD PEDDESINKLA EQLPGKVSCK KTAQQRHLLR
QLFVQTQWPS NQDYDSIMAQ TGLPRPEVVR WFGDSRYALK NGQLKWYEDY KRGNFPPGLL
VIAPGNRELL QDYMYTHKML YEEDLQNLCD KTQMSSQVVK QWFAEKMGE TRAVADTGSE
DQPGTGELT AVHKGMGDTY SEVSENSES EPRVPEASSE PFDTSPPQAG RQLETD

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.

Product Details

- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®): 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)
Grade:	Crystallography grade

Target Details

Target:	ZHX3
Alternative Name:	ZHX3 (ZHX3 Products)
Background:	Zinc fingers and homeoboxes protein 3 (Triple homeobox protein 1) (Zinc finger and homeodomain protein 3),FUNCTION: Acts as a transcriptional repressor. Involved in the early stages of mesenchymal stem cell (MSC) osteogenic differentiation. Is a regulator of podocyte gene expression during primary glomerula disease. Binds to promoter DNA. {ECO:0000269 PubMed:12659632, ECO:0000269 PubMed:21174497}.
Molecular Weight:	104.7 kDa
UniProt:	Q9H4I2

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.

Application Details

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. 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)