

## Datasheet for ABIN3120964 TBX3 Protein (AA 1-741) (Strep Tag)



Overview

Quantity:	250 µg
Target:	TBX3
Protein Characteristics:	AA 1-741
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TBX3 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

### Product Details

Brand:	AliCE®
Sequence:	MSLSMRDPVI PGTSMAYHPF LPHRAPDFAM SAVLGHQPPF FPALTLPPNG AAALSLPGAL
	AKPIMDQLVG AAETGIPFSS LGPQAHLRPL KTMEPEEDVE DDPKVHLEAK ELWDQFHKRG
	TEMVITKSGR RMFPPFKVRC SGLDKKAKYI LLMDIIAADD CRYKFHNSRW MVAGKADPEM
	PKRMYIHPDS PATGEQWMSK VVTFHKLKLT NNISDKHGFT LAFPSDHATW QGNYSFGTQT
	ILNSMHKYQP RFHIVRANDI LKLPYSTFRT YLFPETEFIA VTAYQNDKIT QLKIDNNPFA
	KGFRDTGNGR REKRKQLTLQ SMRVFEERHK KETSDESSSE QAAFNCFAQA SSPAVSIVGT
	SNLKDLCPSE AESDAEAESK EEHGPEACDA AKISTTTAEE PGRDKGSPAT RAQLFPAEPS
	RARDTARLDK ASPDSRHSPA TISSSTRVPG ADERRSPGRE GPVATKVDEA RAIPAKDAFA
	PLSVQTDATA HLAQGPLPGL GFAPGLAGQQ FFNGHPLFLH PGQFAMGGAF SSMAAGMGPL
	LATVSGASTG VSGLESTAMA SAAAAQGLSG ASAATLPFHL QQHVLASQGL AMSPFGSLFP
	YPYTYMAAAA AASTAAASSS VHRHPFLNLN SMRPRLRYSP YSIPVPVPDS SSLLATALPS

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# MASAAGPLDG KAAALAASPA SVAVDSGSEL NSRSSTLSSG SVSLSPKLCS EKEAATSELQ SIQRLVSGLE AKPDRSCSGS 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:

- 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:

Key Benefits:

- 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 posttranslational 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®).

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### Product Details

 Purity:
 > 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

 Grade:
 custom-made

## Target Details

Target:	TBX3
Alternative Name:	Tbx3 (TBX3 Products)
Background:	T-box transcription factor TBX3 (T-box protein 3),FUNCTION: Transcriptional repressor involved in developmental processes (By similarity). Binds to the palindromic T site 5'- TTCACACCTAGGTGTGAA-3' DNA sequence, or a half-site, which are present in the regulatory region of several genes (By similarity). Probably plays a role in limb pattern formation (By similarity). Required for mammary placode induction, and maintenance of the mammary buds during development (PubMed:16222716). Involved in branching morphogenesis in both developing lungs and adult mammary glands, via negative modulation of target genes, acting redundantly with TBX2 (PubMed:27720610, PubMed:16222716). Required, together with TBX2, to maintain cell proliferation in the embryonic lung mesenchyme, perhaps acting downstream of SHH, BMP and TGFbeta signaling (PubMed:27720610). Involved in modulating early inner ea development, acting independently of, and also redundantly with, TBX2 in different subregions of the developing ear (PubMed:33795231). Acts as a negative regulator of PML function in cellular senescence (By similarity). {EC0:0000250 UniProtKB:015119,
	ECO:0000269 PubMed:16222716, ECO:0000269 PubMed:27720610, ECO:0000269 PubMed:33795231}.
Molecular Weight:	79.2 kDa
UniProt:	P70324
Pathways:	Hormone Transport, Stem Cell Maintenance, Regulation of Muscle Cell Differentiation, Skeletal Muscle Fiber Development
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

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	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	
Handling Format:	Liquid
	Liquid The buffer composition is at the discretion of the manufacturer.
Format:	·
Format:	The buffer composition is at the discretion of the manufacturer.
Format: Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol <b>Might differ depending on protein.</b>
Format: Buffer: Handling Advice:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol <b>Might differ depending on protein.</b> Avoid repeated freeze-thaw cycles.