

Datasheet for ABIN3073769

T-Box 18 Protein (TBX18) (AA 1-607) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	T-Box 18 (TBX18)
Protein Characteristics:	AA 1-607
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This T-Box 18 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), ELISA, Western Blotting (WB)

Product Details

Brand:	AlIcE®
Sequence:	<p>MAEKRRGSPC SMLSLKAHAF SVEALIGA EK QQQLQKKRRK LGAEAAAGAV DDGGCSRGGG</p> <p>AGEKGSSEGD EGAALPPPAG ATSGPARSGA DLERGAAGGC EDGFQQGASP LSPGGSPKG</p> <p>SPARSLARPG TPLPSPQAPR VDLQGAELWK RFHEIGTEMI ITKAGRRMFP AMRVKISGLD</p> <p>PHQYYIAMD IVPVDNKRYR VVYHSSKWMV AGNADSPVPP RVYIHPDSPA SGETWMRQVI</p> <p>SFDKLLTNN ELDDQGHIL HSMHKYQPRV HVIRKDCGDD LSPKPVPSG EGVKAFSFPE</p> <p>TVFTTVTAYQ NQQITRLKID RNPFAKGFRD SGRNRMGLEA LVESYAFWRP SLRTLTFEDI</p> <p>PGIPKQGNAS SSTLLQGTGN GVPATHPHLL SGSSCSPAF HLGPNSTQLC SLAPADYSAC</p> <p>ARSGLTNRY STSLAETYNR LTNQAGETFA PPRTPSYVGV SSSTSVNMSM GGTGDGDTFSC</p> <p>PQTSLSMQIS GMSPQLQYIM PSPSSNAFAT NQTHQGSYNT FRLHSPCALY GYNFSTSPKL</p> <p>AASPEKIVSS QGSFLGSSPS GTMTDRQMLP PVEGVHLLSS GGQQSFFDSR TLGSLTLSSS</p> <p>QVSAH MV</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: T-Box 18 (TBX18)

Alternative Name: TBX18 ([TBX18 Products](#))

Background: T-box transcription factor TBX18 (T-box protein 18),FUNCTION: Acts as a transcriptional repressor involved in developmental processes of a variety of tissues and organs, including the heart and coronary vessels, the ureter and the vertebral column. Required for embryonic development of the sino atrial node (SAN) head area. {ECO:0000250|UniProtKB:Q9EPZ6, ECO:0000269|PubMed:26235987}.

Molecular Weight: 64.8 kDa

UniProt: [095935](#)

Pathways: [Sensory Perception of Sound](#)

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.

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Restrictions: For Research Use only

Handling

Format: Liquid

Handling

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