

Datasheet for ABIN3088948

## WTX Protein (AA 1-1135) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	WTX (AMER1)
Protein Characteristics:	AA 1-1135
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This WTX protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

### Product Details

Brand:	AliCE®
Sequence:	<p>METQKDEAAQ AKGAAASGST REQTAKEGAK NKAAEATEGP TSEPSSSGPG RLKKTAMKLF</p> <p>GGKKGICTLP SFFGGGRSKG SGKGSSKKGL SKSKTHDGLS EAAHGPEDEVV SEGTGFSLPL</p> <p>PELPCQFPSS QSAHGALETG SRCKTSVAGA TEKAVAEKFP SMPKPKKGLK GFFSSIRRH</p> <p>KSKVTGAEQS EPGAKGP</p>

PSVMGLAAGV SGTSQISHRG ITSAPPTAS SEPDRDFRP LEKRYEGTCS KKDQSTCLMQ  
LFQSDAMFEP DMQEANFGGS PRRAYPTYSP PEDPEEEVE KEGNATVSFS QALVEFTSNG  
NLFSSMSCSS DSDSSFTQNL PELPPMVTFD IADVERDGEG KCEENPEFHN DEDLAASLEA  
FELGYYHKHA FNNYHSRFYQ GLPWGVSSLP RYLGLPGLHP RPPPAAMALN RRSRLDTAE  
TLEMELNSH LVQGYLESDE LQAQQEDSDE EDEEEEGEW SRDSPLSLYT EPPGAYDWPA  
WAPCPLPVGP GPAWISPNQL DRPSSQSPYR QATCCIPPMT MSISLVPES RAPGESGPQL  
ARPSHLHLP GPCYNLQQA SQSMRARPRD VLLPVDEPSC SSSSGGFSPS PLPQAKPVG  
THGIPQLPRV RPEHPQPQPT HYGPSLDLS KERAEGASL ATSYSSTAMN GNLA

**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.**

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### 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:

## Product Details

- 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).

Grade: custom-made

## Target Details

Target: WTX (AMER1)

Alternative Name: AMER1 ([AMER1 Products](#))

Background: APC membrane recruitment protein 1 (Amer1) (Protein FAM123B) (Wilms tumor gene on the X chromosome protein),FUNCTION: Regulator of the canonical Wnt signaling pathway. Acts by specifically binding phosphatidylinositol 4,5-bisphosphate (PtdIns(4,5)P2), translocating to the cell membrane and interacting with key regulators of the canonical Wnt signaling pathway, such as components of the beta-catenin destruction complex. Acts both as a positive and negative regulator of the Wnt signaling pathway, depending on the context: acts as a positive regulator by promoting LRP6 phosphorylation. Also acts as a negative regulator by acting as a scaffold protein for the beta-catenin destruction complex and promoting stabilization of Axin at the cell membrane. Promotes CTNNB1 ubiquitination and degradation. Involved in kidney development. {ECO:0000269|PubMed:17510365, ECO:0000269|PubMed:17925383, ECO:0000269|PubMed:19416806, ECO:0000269|PubMed:21304492, ECO:0000269|PubMed:21498506}.

Molecular Weight: 124.0 kDa

UniProt: [Q5JTC6](#)

## 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

## Application Details

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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!

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Restrictions: For Research Use only

## Handling

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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