

Datasheet for ABIN3096145

## TTLL8 Protein (AA 1-850) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	TTLL8
Protein Characteristics:	AA 1-850
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TTLL8 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

### Product Details

Brand:	AliCE®
Sequence:	<p>MEPERKGLSL ASSSDGDGRE ENKLKQGISQ DLASSSRLDR YKIARQLTEK AIKEKKIFSI</p> <p>YGHYPVVRAA LRRKGWVEKK FHFLPKVIPD VEDEGARVND DTCAKVKENQ EMALEKTDNI</p> <p>HDVMSRLVKN EMPYLLWTIK RDIIDYHSLT YDQMLNHYAK TASFTTKIGL CVNMRSPLPWY</p> <p>VPANPDSFFP RCYSLCTESE QQEFLEDFRR TMASSILKWV VSHQSCSRSS RSKPRDQREE</p> <p>AGSSDLSSRQ DAENAEAKLR GLPGQLVDIA CKVCQAYLGQ LEHEDIDTSA DAVEDLTEAE</p> <p>WEDLTQQYYS LVHGDafISN SRNYFSQCQA LLNRITSVNP QTDIDGLRNI WIKPAAKSR</p> <p>GRDIVCMDRV EEILELAAAD HPLSRDNKWV VQKYIETPLL ICDTKFDIRQ WFLVTDWNPL</p> <p>TIWFYKESYL RFSTQRFSLD KLSAHLN NAVQKYLKND VGRSPLPAH NMWTSTRFQE</p> <p>YLQRQGRGAV WGSVIYPSMK KAIAHAMKVA QDHVEPRKNS FELYGADFVL GRDFRPWLIE</p> <p>INSSPTMHPS TPVTAQLCAQ VQEDTIKAV DRSCDIGNFE LLWRQPVVEP PPFGSGLDCV</p> <p>AGVSVRRARR QVLPVCNLKA SASLLDAQPL KARGPSAMPD PAQGPPSPAL QRDGLGLKEEK</p>

GLPLALLAPL RGAAESGGAA QPTRTKAAGK VELPACPCRH VDSQAPNTGV PVAQPAKSWD  
PNQLNAHPLE PVLRLKTAEGALRPPPGGK GEGTVCSRLP HHGHHVAACQ TTGTTWDGGP  
GVCFLRQLLA SELPMGPGLP RDPRAPPCLV CRGLLPPAGP CKRCRSFCAA VLQGASFVRL  
GGRSCSPRTP

**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:

- 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.

## Product Details

Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).
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Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
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Grade:	custom-made
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## Target Details

Target:	TTLL8
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Alternative Name:	TTLL8 ( <a href="#">TTLL8 Products</a> )
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Background:	Protein monoglycylase TTLL8 (EC 6.3.2.-) (Tubulin--tyrosine ligase-like protein 8),FUNCTION: Monoglycylase which modifies both tubulin and non-tubulin proteins, adding a single glycine to the gamma-carboxyl groups of specific glutamate residues to generate monoglycine side chains within the C-terminal tail of target proteins. Not involved in elongation step of the polyglycylation reaction. Preferentially monoglycylates alpha-tubulin over beta-tubulin. Together with TTLL3, mediates microtubule glycylation of primary and motile cilia, which is essential for their stability and maintenance. Together with TTLL3, glycylates sperm flagella which regulates axonemal dynein motor activity, thereby controlling flagellar beat, directional sperm swimming and male fertility. Monoglycylates non-tubulin proteins such as ANP32A, ANP32B, SET, NCL and NAP1. {ECO:0000250 UniProtKB:A4Q9F1}.
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Molecular Weight:	94.7 kDa
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UniProt:	<a href="#">A6PVC2</a>
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## 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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Comment:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> 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.</p> <p>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</p>
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Application Details

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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 <b>Might differ depending on protein.</b>
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months