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Datasheet for ABIN3096062

## TTLL7 Protein (AA 1-887) (Strep Tag)

### 1 Image

#### Overview

Quantity:	1 mg
Target:	TTLL7
Protein Characteristics:	AA 1-887
Origin:	Human
Source:	Tobacco ( <i>Nicotiana tabacum</i> )
Protein Type:	Recombinant
Purification tag / Conjugate:	This TTLL7 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

#### Product Details

Sequence: MPSLPQEGVI QGPSPLDLNT ELPYQSTMKR KVRKKKKKGT ITANVAGTKF EIVRLVIDEM  
GFMKTPDEDE TSNLIWCDSA VQQEKISELQ NYQRINHFPG MGEICRKDFL ARNMTKMIKS  
RPLDYTFVPR TWIFPAEYQ FQNYVKELKK KRKQKTFIVK PANGAMGHGI SLIRNGDKLP  
SQDHLIVQEY IEKPFLMEGY KFDLRIYILV TSCDPLKIFL YHDGLVRMGT EKYIPPNESN  
LTQLYMHLTN YSVNKHNEHF ERDETENKGS KRSIKWFTEF LQANQHDAK FWSIDISELVV  
KTLIVAEPHV LHAYRMCRPG QPPGSESVCF EVLGFIDILLD RKLKPWLEI NRAPSGTDQ  
KIDYDVKRGV LLNALKLLNI RTSDKRRNLA KQKAEARRL YGQNSIKRLL PGSSDWEQQR  
HQLERRKEEL KERLAQVRKQ ISREEHENRH MGNRYRRIYPP EDKALLEKYE NLLAVAFQTF  
LSGRAASFQR ELNNPLKRMK EEDILDLEQ CEIDDEKLMG KTTKTRGPKP LCSMPESTEI  
MKRPKYCSSD SSYDSSSSSS ESDENEKEEY QNKKREKQVT YNLKPSNHYK LIQPSSIRR  
SVSCPRSISA QSPSSGDTRP FSAQQMISVS RPTSASRSHS LNRASSYMRH LPHSNDACST  
NSQVSESLRQ LKTKEQEDDL TSQTLFVLKD MKIRFPGKSD AESELLIEDI IDNWKYHKTK

VASYWLIKLD SVKQRKVLDI VKTSIRTVLP RIWKVPDVEE VNLYRIFNRV FNRLLSRGG  
GLWNCFCDSG SSWESIFNKS PEVVTPLQLQ CCQRLVELCK QCLLVVYKYA TDKRGSLSGI  
GPDWGNSRYL LPGSTQFFLR TPTYNLKYNS PGMTRSNVLF TSTRYGHL

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

## Product Details

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Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®): <ol style="list-style-type: none"><li>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.</li><li>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.</li></ol>
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

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Target:	TLL7
Alternative Name:	TLL7 ( <a href="#">TLL7 Products</a> )
Background:	<p>Tubulin polyglutamylase TLL7 (EC 6.3.2.-) (Testis development protein NYD-SP30) (Tubulin-tyrosine ligase-like protein 7),FUNCTION: Polyglutamylase which modifies tubulin, generating polyglutamate side chains of variable lengths on the gamma-carboxyl group of specific glutamate residues within the C-terminal tail of tubulin (PubMed:16901895, PubMed:25959773). Mediates both ATP-dependent initiation and elongation steps of the polyglutamylation reaction (PubMed:16901895, PubMed:25959773). Preferentially modifies the beta-tubulin tail over an alpha-tail (PubMed:16901895, PubMed:25959773). Competes with monoglycylase TLL3 for modification site on beta-tubulin substrate, thereby creating an anticorrelation between glycylation and glutamylation reactions (By similarity). Required for neurite growth, responsible for the strong increase in tubulin polyglutamylation during postnatal neuronal maturation (By similarity). {ECO:0000250 UniProtKB:A4Q9F0, ECO:0000250 UniProtKB:F7E540, ECO:0000269 PubMed:16901895, ECO:0000269 PubMed:25959773}.</p>
Molecular Weight:	103.0 kDa
UniProt:	<a href="#">Q6ZT98</a>

## Application Details

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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
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## Application Details

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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.

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

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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)



**Image 1.** „Crystallography Grade“ protein due to multi-step, protein-specific purification process