

Datasheet for ABIN3130890 TTLL3 Protein (AA 1-927) (Strep Tag)



Overview

Quantity:	250 µg
Target:	TTLL3
Protein Characteristics:	AA 1-927
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TTLL3 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MQGVSSALLL SAGQLGPGAA WYRQEGSSEC SWLRRSQPSE LRTNFSSRWP WPRNSESRRS
	ERLQWPGPAS AKPEVASCGD SRRDYSSLPA RHLSSARESS MPGALGTVNP QPVRTLVPPT
	LDEPLPDALR PPDDSLLLWR GLTKGPNHMG RLRNAKIHVE RAVKQKKIFM IHGRYPVIRC
	LLRQRGWVEK KMVHPPGTAL PAPQKDLDSS MLGDSDATED EDEEENEMFR ESQLLDLDGF
	LEFDDLDGIH ALMSRMVRNE TPYLIWTTRR DVLDCRFLSK DQMINHYARA GSFTTKVGLC
	LNLRNLPWFD EADADSFFPR CYRLGAEDDK KAFIEDFWLT AARNVLKLVV KLEEKSQSIS
	IQAREEEAPE DTQPKKQEKK LVTVSSDFVD EALSACQEHL SSIAHKDIDK DPNSPLYLSP
	DDWSQFLQRY YQIVHEGAEL RYLEVQVQRC EDILQQLQNV VPQLDMEGDR NIWIVKPGAK
	SRGRGIMCMN RLDEMLKLVD CNPMLMKDGK WIVQKYIERP LLIFGTKFDL RQWFLVTDWN
	PLTVWFYRDS YIRFSTQPFS LKNLDNSVHL CNNSIQRHLE ASCHRHPMLP PDNMWSSQRF
	QAHLQEVDAP KAWSSVIVPG MKAAVIHALQ TSQDNVQCRK ASFELYGADF VFGEDFQPWL

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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 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.

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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:	TTLL3
Alternative Name:	Ttll3 (TTLL3 Products)
Background:	Tubulin monoglycylase TTLL3 (EC 6.3.2) (Tubulintyrosine ligase-like protein 3),FUNCTION:
	Monoglycylase which modifies alpha- and beta-tubulin, adding a single glycine on the gamma-
	carboxyl groups of specific glutamate residues to generate monoglycine side chains within the
	C-terminal tail of tubulin (PubMed:19524510). Not involved in elongation step of the
	polyglycylation reaction (PubMed:19524510). Preferentially glycylates a beta-tail peptide over
	the alpha-tail, although shifts its preference toward alpha-tail as beta-tail glutamylation
	increases (By similarity). Competes with polyglutamylases for modification site on beta-tubulin
	substrate, thereby creating an anticorrelation between glycylation and glutamylation reactions
	(PubMed:33414192). Together with TTLL8, mediates microtubule glycylation of primary and
	motile cilia, which is essential for their stability and maintenance (PubMed:23897886,
	PubMed:25180231). Involved in microtubule glycylation of primary cilia in colon which controls
	cell proliferation of epithelial cells and plays an essential role in colon cancer development
	(PubMed:25180231). Together with TTLL8, glycylates sperm flagella which regulates axonemal
	dynein motor activity, thereby controlling flagellar beat, directional sperm swimming and male
	fertility (PubMed:33414192). {ECO:0000250 UniProtKB:B2GUB3,
	EC0:0000269 PubMed:19524510, EC0:0000269 PubMed:23897886,
	EC0:0000269 PubMed:25180231, EC0:0000269 PubMed:33414192}.
Molecular Weight:	104.4 kDa
UniProt:	A4Q9E5
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

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Application Detai	ls
	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	
Format:	Liquid

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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