

Datasheet for ABIN3089566 ASMTL Protein (AA 1-621) (Strep Tag)



Overview

Quantity:	250 μg
Target:	ASMTL
Protein Characteristics:	AA 1-621
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ASMTL protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MVLCPVIGKL LHKRVVLASA SPRRQEILSN AGLRFEVVPS KFKEKLDKAS FATPYGYAME
	TAKQKALEVA NRLYQKDLRA PDVVIGADTI VTVGGLILEK PVDKQDAYRM LSRLSGREHS
	VFTGVAIVHC SSKDHQLDTR VSEFYEETKV KFSELSEELL WEYVHSGEPM DKAGGYGIQA
	LGGMLVESVH GDFLNVVGFP LNHFCKQLVK LYYPPRPEDL RRSVKHDSIP AADTFEDLSD
	VEGGGSEPTQ RDAGSRDEKA EAGEAGQATA EAECHRTRET LPPFPTRLLE LIEGFMLSKG
	LLTACKLKVF DLLKDEAPQK AADIASKVDA SACGMERLLD ICAAMGLLEK TEQGYSNTET
	ANVYLASDGE YSLHGFIMHN NDLTWNLFTY LEFAIREGTN QHHRALGKKA EDLFQDAYYQ
	SPETRLRFMR AMHGMTKLTA CQVATAFNLS RFSSACDVGG CTGALARELA REYPRMQVTV
	FDLPDIIELA AHFQPPGPQA VQIHFAAGDF FRDPLPSAEL YVLCRILHDW PDDKVHKLLS
	RVAESCKPGA GLLLVETLLD EEKRVAQRAL MQSLNMLVQT EGKERSLGEY QCLLELHGFH
	QVQVVHLGGV LDAILATKVA P

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN3089566 | 02/25/2025 | Copyright antibodies-online. All rights reserved. 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.

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).

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/4 | Product datasheet for ABIN3089566 | 02/25/2025 | Copyright antibodies-online. All rights reserved.

Product Details

Grade:

custom-made

Target Details

Target:	ASMTL
Alternative Name:	ASMTL (ASMTL Products)
Background:	Probable bifunctional dTTP/UTP pyrophosphatase/methyltransferase protein [Includes:
	dTTP/UTP pyrophosphatase (dTTPase/UTPase) (EC 3.6.1.9) (Nucleoside triphosphate
	pyrophosphatase) (Nucleotide pyrophosphatase) (Nucleotide PPase), N-acetylserotonin O- methyltransferase-like protein (ASMTL) (EC 2.1.1)],FUNCTION: Nucleoside triphosphate
	pyrophosphatase that hydrolyzes dTTP and UTP. Can also hydrolyze CTP and the modified
	nucleotides pseudo-UTP, 5-methyl-UTP (m(5)UTP) and 5-methyl-CTP (m(5)CTP). Has weak
	activity with dCTP, 8-oxo-GTP and N(4)-methyl-dCTP (PubMed:24210219). May have a dual role
	in cell division arrest and in preventing the incorporation of modified nucleotides into cellular
	nucleic acids (PubMed:24210219). In addition, the presence of the putative catalytic domain of
	S-adenosyl-L-methionine binding in the C-terminal region argues for a methyltransferase
	activity (Probable). {ECO:0000269 PubMed:24210219, ECO:0000305}.
Molecular Weight:	68.9 kDa
UniProt:	095671
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
	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

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 3/4 | Product datasheet for ABIN3089566 | 02/25/2025 | Copyright antibodies-online. All rights reserved.

Application Details

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 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