

# Datasheet for ABIN3095635 TUT1 Protein (AA 1-874) (Strep Tag)



Overview

Quantity:	250 µg
Target:	TUT1
Protein Characteristics:	AA 1-874
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TUT1 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

# Product Details

Brand:	AliCE®
Sequence:	MAAVDSDVES LPRGGFRCCL CHVTTANRPS LDAHLGGRKH RHLVELRAAR KAQGLRSVFV
	SGFPRDVDSA QLSEYFLAFG PVASVVMDKD KGVFAIVEMG DVGAREAVLS QSQHSLGGHR
	LRVRPREQKE FQSPASKSPK GAAPDSHQLA KALAEAADVG AQMIKLVGLR ELSEAERQLR
	SLVVALMQEV FTEFFPGCVV HPFGSSINSF DVHGCDLDLF LDLGDLEEPQ PVPKAPESPS
	LDSALASPLD PQALACTPAS PPDSQPPASP QDSEALDFET PSSSLAPQTP DSALASETLA
	SPQSLPPASP LLEDREEGDL GKASELAETP KEEKAEGAAM LELVGSILRG CVPGVYRVQT
	VPSARRPVVK FCHRPSGLHG DVSLSNRLAL HNSRFLSLCS ELDGRVRPLV YTLRCWAQGR
	GLSGSGPLLS NYALTLLVIY FLQTRDPPVL PTVSQLTQKA GEGEQVEVDG WDCSFPRDAS
	RLEPSINVEP LSSLLAQFFS CVSCWDLRGS LLSLREGQAL PVAGGLPSNL WEGLRLGPLN
	LQDPFDLSHN VAANVTSRVA GRLQNCCRAA ANYCRSLQYQ RRSSRGRDWG LLPLLQPSSP
	SSLLSATPIP LPLAPFTQLT AALVQVFREA LGCHIEQATK RTRSEGGGTG ESSQGGTSKR

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 ABIN3095635 | 02/26/2025 | Copyright antibodies-online. All rights reserved. LKVDGQKNCC EEGKEEQQGC AGDGGEDRVE EMVIEVGEMV QDWAMQSPGQ PGDLPLTTGK HGAPGEEGQP SHAALAERGP KGHEAAQEWS QGEAGKGASL PSSASWRCAL WHRVWQGRRR ARRRLQQQTK EGAGGGAGTR AGWLATEAQV TQELKGLSGG EERPETEPLL SFVASVSPAD RMLTVTPLQD PQGLFPDLHH FLQVFLPQAI RHLK

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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Product Details	
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:	TUT1
Alternative Name:	TUT1 (TUT1 Products)
Background:	Speckle targeted PIP5K1A-regulated poly(A) polymerase (Star-PAP) (EC 2.7.7.19) (RNA-binding
	motif protein 21) (RNA-binding protein 21) (U6 snRNA-specific terminal uridylyltransferase 1)
	(U6-TUTase) (EC 2.7.7.52),FUNCTION: Poly(A) polymerase that creates the 3'-poly(A) tail of
	specific pre-mRNAs (PubMed:18288197, PubMed:21102410). Localizes to nuclear speckles
	together with PIP5K1A and mediates polyadenylation of a select set of mRNAs, such as
	HMOX1 (PubMed:18288197). In addition to polyadenylation, it is also required for the 3'-end
	cleavage of pre-mRNAs: binds to the 3'UTR of targeted pre-mRNAs and promotes the
	recruitment and assembly of the CPSF complex on the 3'UTR of pre-mRNAs
	(PubMed:21102410). In addition to adenylyltransferase activity, also has uridylyltransferase
	activity (PubMed:16790842, PubMed:18288197, PubMed:28589955). However, the ATP ratio is
	higher than UTP in cells, suggesting that it functions primarily as a poly(A) polymerase
	(PubMed:18288197). Acts as a specific terminal uridylyltransferase for U6 snRNA in vitro:
	responsible for a controlled elongation reaction that results in the restoration of the four 3'-
	terminal UMP-residues found in newly transcribed U6 snRNA (PubMed:16790842,
	PubMed:18288197, PubMed:28589955). Not involved in replication-dependent histone mRNA
	degradation. {EC0:0000269 PubMed:16790842, EC0:0000269 PubMed:18288197,
	ECO:0000269 PubMed:21102410, ECO:0000269 PubMed:28589955}.
Molecular Weight:	93.8 kDa
UniProt:	Q9H6E5
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 Details

Restrictions:	For Research Use only
	needed is the DNA that codes for the desired protein!
	something that functions like a cell, but without the constraints of a living system - all that's
	components needed for protein production (amino acids, cofactors, etc.) are added to produce
	mitochondria to drive the reaction. During our lysate completion steps, the additional
	protein production are removed, leaving only the protein production machinery and the
	During lysate production, the cell wall and other cellular components that are not required for
	modifications.
	even the most difficult-to-express proteins, including those that require post-translational
	Nicotiana tabacum c.v This contains all the protein expression machinery needed to produce
Comment:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from

HandlingFormat:LiquidBuffer:The buffer composition is at the discretion of the manufacturer.<br/>Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.Handling Advice:Avoid repeated freeze-thaw cycles.Storage:-80 °CStorage Comment:Store at -80°C.Expiry Date:12 months