

# Datasheet for ABIN3121915 TESPA1 Protein (AA 1-458) (Strep Tag)



Overview

Quantity:	250 µg
Target:	TESPA1
Protein Characteristics:	AA 1-458
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TESPA1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

# Product Details

Brand:	AliCE®
Sequence:	MEASVLSPTS WEKRRAWLRQ SRNWQTQVLE EEAAAALQDA LDPEPSSLDD VFQEGNPINK
	IEDWLQGCGC RDTEEGLSEE SGQSNYSGYS SHGTSFEDDL SLGAEATLLS TNGNLFSRNF
	LQTPRLCQLL DLGSSLASSS MTGGTNKTSS SISEILDQVQ EDAEDILFSL GFGHENHKDT
	SRIPARFFSN PSQAKGINFQ LFLKSQVQRM EMEDPCLMLA SRFKQVQTLA VTADAFFCLY
	SYVSKTPVQK FTPSNMFWNF DPTDVPSIRI LAPEPEPYSP RERLRRAISK MCLYTGSRDR
	LSSSYNNPKK NSLDQIVWEV MDRVKGEKIQ QDPEHRQALG EESVPPIQNT NPSTSSLPCV
	SYPKEETQGD MCHAHALARP GPQYHINSTQ VRRQLWVLQD INEKPRSAEN ESPWERKSKA
	RKNLFQRVPV DKNIKSLNLP TIQQKQNQGQ ARHELTNL
	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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## Product Details

### 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).
Grade:	custom-made

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## Target Details

Target:	TESPA1
Alternative Name:	Tespa1 (TESPA1 Products)
Background:	Protein TESPA1 (Thymocyte-expressed positive selection-associated protein 1),FUNCTION: May play a role in the regulation of inositol 1,4,5-trisphosphate receptor-mediated Ca(2+) release and mitochondrial Ca(2+) uptake via the mitochondria-associated endoplasmic reticulum membrane (MAM) compartment (By similarity). Required for the development and maturation of T-cells, its function being essential for the late stages of thymocyte development. Plays a role in T-cell antigen receptor (TCR)-mediated activation of the ERK and NFAT signaling pathways, possibly by serving as a scaffolding protein that promotes the assembly of the LAT signalosome in thymocytes. {EC0:0000250, EC0:0000269 PubMed:22561606}.
Molecular Weight:	51.8 kDa
UniProt:	Q3U132
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 needed is the DNA that codes for the desired protein!
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.

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# Handling

	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