

Datasheet for ABIN3096048

**TRIM33 Protein (AA 1-1127) (Strep Tag)**[Go to Product page](#)**1** Image

## Overview

Quantity:	1 mg
Target:	TRIM33
Protein Characteristics:	AA 1-1127
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TRIM33 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Sequence:	MAENKGGGEA ESGGGGSGSA PVTAGAAGPA AQEAEPPLTA VLVEEEEEEG GRAGAEGGAA GPDDGGVAAA SSGSAQAASS PAASVGTGVA GGAVSTPAPA PASAPAPGPS AGPPPGPPAS LLDTCAVCQQ SLQSRREAEP KLLPCLHSFC LRCLPEPERQ LSVPIPGGSN GDIQQVGVIR CPVCRQECRQ IDLVDNYFVK DTSEAPSSSD EKSEQVCTSC EDNASAVGFC VECGEWLCKT CIEAHQRVKF TKDHLIRKKE DVSESVGASG QRPVFCPVHK QEQLKLCFET CDRLTCRDCQ LLEHKEHRYQ FLEEFQNNQK GAIEENLLAKL LEKKNYVHFA ATQVQNRIKE VNETNKRVEQ EIKVAIFTLI NEINKKGKSL LQQLENVTK E RQM KLLQQQN DITGLSRQVK HVMNFTNWAI ASGSSTALLY SKRLITFQLR HILKARCDPV PAANGAIRFH CDPTFWAKNV VNLGNLVIES KPAPGYTPNV VVGQVPPGTN HISKTPGQIN LAQLRLQHMV QQVYAQKHQQ LQQMRMQQPP APVPTTTTTT QQHPRQAAPQ MLQQQPPRLI SVQTMQRGNM NCGAFQAHQM RLAQNAARIP GIPRHSGPQY SMMQPHLQRQ HSNPGHAGPF PVVSVHNTTI NPTSPTTATM ANANRGPTSP SVTAIELIPS VTNPENLPSL PDIPPIQLED AGSSSLDNLL SRYISGSHLP PQPTSTMNPS
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PGPSALSPGS SGLSNSHTPV RPPSTSSTGS RGSCGSSGRT AEKTSLSFKS DQVKVKQEPG  
TEDEICSFSG GVKQEKTEDG RRSACMLSSP ESSLTPLST NLHLESELDA LASLENHVKI  
EPADMNESCK QSGLSSLVNG KSPIRSLMHR SARIGGDGNN KDDDPNEDWC AVCQNGGDDL  
CCEKCPKVFH LTCHVPTLLS FPSGDWICTF CRDIGKPEVE YDCDNLQHSK KGKTAQGLSP  
VDQRKCERLL LYLYCHELSI EFQEPVPASI PNYYKIIKKP MDLSTVKKKL QKKHSQHYQI  
PDDFVADVRL IFKN CERFNE MMKV VQVYAD TQEINLKADS EVAQAGKAVA LYFEDKLTEI  
YSDRTFAPLP EFEQEEDDGE VTEDSDEDFI QPRRKRLKSD ERPVHIK

**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 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:

## Product Details

- 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.

Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):  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. 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.
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

Target:	TRIM33
Alternative Name:	TRIM33 ( <a href="#">TRIM33 Products</a> )
Background:	E3 ubiquitin-protein ligase TRIM33 (EC 2.3.2.27) (Ectodermin homolog) (RET-fused gene 7 protein) (Protein Rfg7) (RING-type E3 ubiquitin transferase TRIM33) (Transcription intermediary factor 1-gamma) (TIF1-gamma) (Tripartite motif-containing protein 33),FUNCTION: Acts as an E3 ubiquitin-protein ligase. Promotes SMAD4 ubiquitination, nuclear exclusion and degradation via the ubiquitin proteasome pathway. According to PubMed:16751102, does not promote a decrease in the level of endogenous SMAD4. May act as a transcriptional repressor. Inhibits the transcriptional response to TGF-beta/BMP signaling cascade. Plays a role in the control of cell proliferation. Its association with SMAD2 and SMAD3 stimulates erythroid differentiation of hematopoietic stem/progenitor (By similarity). Monoubiquitinates SMAD4 and acts as an inhibitor of SMAD4-dependent TGF-beta/BMP signaling cascade (Monoubiquitination of SMAD4 hampers its ability to form a stable complex with activated SMAD2/3 resulting in inhibition of TGF-beta/BMP signaling cascade). {ECO:0000250, ECO:0000269 PubMed:10022127, ECO:0000269 PubMed:15820681, ECO:0000269 PubMed:16751102, ECO:0000269 PubMed:19135894}.

## Target Details

Molecular Weight: 122.5 kDa

UniProt: [Q9UPN9](#)

## 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. 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