

Datasheet for ABIN3096049

## TRIM37 Protein (AA 1-964) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	TRIM37
Protein Characteristics:	AA 1-964
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TRIM37 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

### Product Details

Brand:	AliCE®
Sequence:	<p>MDEQSVESIA EVFRCFICME KLRDARLCPH CSKLCCFSCI RRWLTEQRAQ CPHCRAPLQL</p> <p>RELVNCRWAE EVTQQLDTLQ LCSLTKEEN EKDKCENHHE KLSVFCWTCK KCICHQCALW</p> <p>GGMHGGHTFK PLAEIYEQHV TKVNEEVAKL RRRLMELISL VQEVERNVEA VRNAKDERVR</p> <p>EIRNAVEMMI ARLDTQLKNK LITLMGQKTS LTQETELLES LLQEVEHQLR SCSKSELISK</p> <p>SSEILMMFQQ VHRKPMASFV TTPVPPDFTS ELVPSYDSAT FVLENFSTLR QRADPVYSPP</p> <p>LQVSGLCWRL KVYPDGNGVV RGYYSVFLE LSAGLPETSK YEYRVEMVHQ SCNDPTKNII</p> <p>REFASDFEVG ECWGYNRFFR LDLLANEGYL NPQNDTVILR FQVRSPTFFQ KSRDQHWYIT</p> <p>QLEAAQTSYI QQINNLERL TIELSRTQKS RDLSPPDNHL SPQNDDALET RAKKSACSDM</p> <p>LLEGGPTTAS VREAKEDEED EEKIQNEDYH HELSDGDLDL DLVYEDEVNQ LDGSSSSASS</p> <p>TATSNTTEEND IDEETMSGEN DVEYNNMELE EGELMEDAAA AGPAGSSHGY VGSSSRISRR</p> <p>THLCSAATSS LLDIDPLILI HLLDLKDRSS IENLWGLQPR PPASLLQPTA SYSRKDKDQR</p>

KQQAMWRVPS DLKMLKRLKT QMAEVRMKT DVKNTLSEIK SSSAASGDMQ TSLFSADQAA  
LAACGTENSG RLQDLGMELL AKSSVANCYI RNSTNKKSNS PKPARSSVAG SLSLRRVADP  
GENSRSKGDC QTLSEGGSPGS SQSGSRHSSP RALIHGSIGD ILPKTEDRQC KALDSDAVVV  
AVFSGLPAGE KRRKMVTLGA NAKGGHLEGL QMTDLENNSE TGELQPVLP E GASAAPEEGM  
SSSDIECDT ENEEQEEHTS VGGFHDSFMV MTQPPDEDTH SSFPDGEQIG PEDLSFNTDE NSGR

**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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### 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 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:

- 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.

## 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: TRIM37

Alternative Name: TRIM37 ([TRIM37 Products](#))

Background: E3 ubiquitin-protein ligase TRIM37 (EC 2.3.2.27) (Mulibrey nanism protein) (RING-type E3 ubiquitin transferase TRIM37) (Tripartite motif-containing protein 37), FUNCTION: E3 ubiquitin-protein ligase required to prevent centriole reduplication (PubMed:15885686, PubMed:23769972). Probably acts by ubiquitinating positive regulators of centriole reduplication (PubMed:23769972). Mediates monoubiquitination of 'Lys-119' of histone H2A (H2AK119Ub), a specific tag for epigenetic transcriptional repression: associates with some Polycomb group (PcG) multiprotein PRC2-like complex and mediates repression of target genes (PubMed:25470042). Also acts as a positive regulator of peroxisome import by mediating monoubiquitination of PEX5 at 'Lys-472': monoubiquitination promotes PEX5 stabilisation by preventing its polyubiquitination and degradation by the proteasome (PubMed:28724525). Has anti-HIV activity (PubMed:24317724). {ECO:0000269|PubMed:15885686, ECO:0000269|PubMed:23769972, ECO:0000269|PubMed:24317724, ECO:0000269|PubMed:25470042, ECO:0000269|PubMed:28724525}.

Molecular Weight: 107.9 kDa

UniProt: [O94972](#)

## 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.

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## Application Details

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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 <b>Might differ depending on protein.</b>
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months