

Datasheet for ABIN3136303

## TRERF1 Protein (AA 1-1205) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	TRERF1
Protein Characteristics:	AA 1-1205
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TRERF1 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

### Product Details

Brand:	AliCE®
Sequence:	<p>MGDQQLYKTN HVGHGGENLF YQQPPLGVHS GLGHSYGNTI SGAGMDAPQA SPISPHFPQD</p> <p>TRDGLGLPIG SKNLGQMDTS RQGGWGSAG PGNHVQLRSN LANSNMMWGT PTQVEPADGY</p> <p>QYTYSQASEI RTQKLTSGVL HKLDSFTQVF ANQNLRIQVN NMAQVLHTQS AVMDGASDSA</p> <p>LRQLLSQKPV EPSASAIASR YQQVPQQPHP GFTGGLPKPA LPVGQHAPQG HLYYDYQQPL</p> <p>AQMSMQGGQP LQAPQVLSGH MQLLQQHQYY PQPPPQQQA GLQRISVQEM QQQQPPQIR</p> <p>PSPPQQQQQL QLQQRQSSLQ IPQYYQPQM MQLHQEQQP SMHLQPPSYH RDPHQYTPEQ</p> <p>AHAVQLIQLG SMPQYYYQEP QQAYSHPLYP QSHLSQHQR EDGQLKTYSS DRQTPAMLSS</p> <p>HGDMGTSDTG VADPASSEMT RVTSTLPHQP LLSPSGIHLN NMGSQHQQPP SPSAMWPQMH</p> <p>LPDGRAQSGS PESSGQTKG VFGEQFDAKN KLTCSICLKE FKSLPALNGH MRSHGGMRAS</p> <p>PSLKQEEGEK APPPQPQPQP QPQQPLPPPP PPPPPQLPP EAERLTPMVM PVSVPVKLIP</p> <p>PKPSSQGFTN SVAATPAARD KPASSMSDDE MPVLEIPRKH PPIAAKVEEP LKNLPEKKKF</p>

RHRPEPLFIP PPPSSYTPNP TSYSGATLYQ SQLRSPRILG DHLLLDPAHE LPPYTTPPML  
SPVRQGSGLF SNVLISGHGP GVHPQLPLTP LTPTPRVLLC RSSIDGSNV TVTPGPGEQT  
VDVEPRINIG LRFQAEIPEL QDVSALAQDT HRATLVWKPW PELENQALQQ QVENLLNLCC  
SSALPGGGTN SEFALHSLFE AKGDVMATLE MLLLRKPVRL KCHPLANYHY AGSDKWTSLE  
RKLFNKALAT YSKDFIFVQK MVKSKTVAQC VEYYTWKKI MRLGRKHRTR LAEIIDDCMT  
SEEEEEEEEE EEDPEEDRKS IKEESEVAK SPEPPAPAL APTEGPPMQA VGQQPSGNFI  
CEMPNCGAVF SSRQALNGHA RIHGGTNQVA KTRGAIPSGK QKPGGTQSGY CSVKSSPSHS  
TTSGETDPTT IFPCKEKGKV FFKIKSRNAH MKTHRQQEEQ QRQKAQKAAF AAEMAATIER  
TTGPVGAPEL LPLDQLSLMK PVKDVDILDD DVVQQLGVMD EAEVVGTDLL LDDQDSVLLQ GDTL

**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!

## Product Details

### 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

## Target Details

Target: TRERF1

Alternative Name: Trerf1 ([TRERF1 Products](#))

Background: Transcriptional-regulating factor 1 (Transcriptional-regulating protein 132) (Zinc finger transcription factor TRP-132),FUNCTION: Binds DNA and activates transcription of CYP11A1. Interaction with CREBBP and EP300 results in a synergistic transcriptional activation of CYP11A1. {ECO:0000250|UniProtKB:Q96PN7}.

Molecular Weight: 132.4 kDa

UniProt: [Q8BXJ2](#)

Pathways: [Regulation of Hormone Metabolic Process](#), [Regulation of Hormone Biosynthetic Process](#), [Chromatin Binding](#)

## 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 **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