

Datasheet for ABIN3095890  
TCOF1 Protein (AA 1-1488) (Strep Tag)



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Overview

Quantity:	1 mg
Target:	TCOF1
Protein Characteristics:	AA 1-1488
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TCOF1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MAEARKRREL LPLIYHHLLR AGYVRAAREV KEQSGQKCFL AQPVTLLDIY THWQQTSELG RKRKAEDDAA LQAKKTRVSD PISTSESSEE EEEAEAETAK ATPRLASTNS SVLGADLPSS MKEKAKAETE KAGKTGNSMP HPATGKTVAN LLSGKSPRKS AEPSANTTLV SETEEEGSVP AFGAAAKPGM VSAGQADSSS EDTSSSSDET DVEGKPSVKP AQVKASSVST KESPAKKAAP APGKVGDVTP QVKG GALPPA KRAKKPEEES ESSEEGSESE EEAPAGTRSQ VKASEKILQV RAASAPAKGT PGKGATPAPP GKAGAVASQT KAGKPEEDSE SSSEESSDSE EETPAAKALL QAKASGKTSQ VGAASAPAKE SPRKGAAPAP PGKTGPAVAK AQAGKREEDS QSSSEESDSE EEAPAQAKPS GKAPQVRAAS APAKESPRKG AAPAPPRKTG PAAAQVQVGK QEEDSRSSSE ESDSDREALA AMNAAQVKPL GKSPQVKPAS TMGMGPLGKG AGPVPPGKVG PATPSAQVGK WEEDSESSSE ESSDSSDGEV PTAVAPAQEK SLGNILQAKP TSSPAKGPPQ KAGPVAVQVK AEKPMDNSES SEESSDSADS EEAPAAMTAA QAKPALKIPQ TKACPKKTNT TASAKVAPVR VGTQAPRKAG TATSPAGSSP AVAGGTQRPA EDSSSSEESD SEEEKTGLAV TVGQAKSVGK
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GLQVKAASVP VKGSLGQGTA PVLPGKTGPT VTQVKAQEKQE DSESSEESD SEAAAASPAQ  
VKTSVKKTQA KANPAAARAP SAKGTISAPG KVVTAQAQAK QRSPSKVKPP VRNPQNSTVL  
ARGPASVPSV GKAVATAAQA QTGPEEDSGS SEESDSEEE AETLAQVKPS GKTHQIRAAL  
APAKESPRKG APTPPGKTG PSAAQAGKQD DSGSSSEESD SDGEAPAAVT SAQVIKPPLI  
FVDPNRSPAG PAATPAQAQA ASTPRKARAS ESTARSSSE SEDEDVIPAT QCLTPGIRTN  
VVTMPTAHPR IAPKASMAGA SSSKESSRIS DGKKQEGPAT QVSKKNPASL PLTQAALKVL  
AQKASEAQPP VARTQPSSGV DSAVGTLPAT SPQSTSVQAK GTNKLKPKL PEVQQATKAP  
ESSDDSEDSS DSSSGSEEDG EGPQGAHSAH TLGPTPSRTE TLVEETAAES SEDDVVAPSQ  
SLLSGYMTPG LTPANSQASK ATPKLDSSPS VSSTLAAKDD PDGKQEAQKQ QAAGMLSPKT  
GGKEAASGTT PQKSRKPKKG AGNPQASTLA LQSNITQCLL GQPWPLNEAQ VQASVVKVLT  
ELLEQERKKV VDTTKESSRK GWESRKRKLS GDQPAARTPR SKKKKKLGAG EGGEASVSPE  
KTSTTSKGKA KRDKASGDVK EKKKGKSLGS QGAKDEPEEE LQKGMGTVEG GDQSNPKSKK  
EKKKSDKRKK DKEKKEKKKK AKKASTKDSE SPSQKKKKKK KKTAEQTV

**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

## Product Details

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 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:	TCOF1
Alternative Name:	TCOF1 ( <a href="#">TCOF1 Products</a> )
Background:	Treacle protein (Treacher Collins syndrome protein),FUNCTION: Nucleolar protein that acts as a regulator of RNA polymerase I by connecting RNA polymerase I with enzymes responsible for ribosomal processing and modification (PubMed:12777385, PubMed:26399832). Required for neural crest specification: following monoubiquitination by the BCR(KBTBD8) complex, associates with NOLC1 and acts as a platform to connect RNA polymerase I with enzymes responsible for ribosomal processing and modification, leading to remodel the translational program of differentiating cells in favor of neural crest specification (PubMed:26399832). {ECO:0000269 PubMed:12777385, ECO:0000269 PubMed:26399832}.

## Target Details

Molecular Weight: 152.1 kDa

UniProt: [Q13428](#)

## 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