



[Go to Product page](#)

Datasheet for ABIN3095797

## TAF3 Protein (AA 1-929) (Strep Tag)

### 1 Image

#### Overview

Quantity:	1 mg
Target:	TAF3
Protein Characteristics:	AA 1-929
Origin:	Human
Source:	Tobacco ( <i>Nicotiana tabacum</i> )
Protein Type:	Recombinant
Purification tag / Conjugate:	This TAF3 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

#### Product Details

Sequence: MCEYSRSLR RVSV AQICQA LGWDSVQLSA CHLLTDVLQR YLQQLGRGCH RYSELYGRTD  
PILDDVGEAF QLMGVSLHEL EDYIHNI EPV TFPHQIPSFP VSKNNVLQFP QPGSKDAEER  
KEYIPDY LPP IVSSQEEEE EQVPTDGGTS AEAMQVPLEE DDELEEEEEI NDENFLGKRP  
LDSPEAEELP AMKRPRLLST KGDTLDVLL EAREPLSSIN TQKIPMLSP VHVQDSTDLA  
PPSPEPPMLA PVAKSQMPTA KPLETKSFTP KTKTKTSSPG QKTKSPKTAQ SPAMVGSPIR  
SPKTVSKEKK SPGRSKSPKS PKSPKVTHI PQTPVRPETP NRTPSATLSE KISKETIQVK  
QIQTPPDAGK LNSENQPKKA VVADKTIEAS IDAVIARACA EREPDPFEFS SGSESEGDI F  
TSPKRISGPE CTPPKASTSA NNFTKSGSTP LPLSGGTSSS DNSWTMDASI DEVVRKAKLG  
TPSNMPPNFP YISSPSVSP TPEPLHKVYE EKTKLPSSVE VKKKLLKELK TKMKKKEKQR  
DREREKDKNK DKSKEKDKVK EKEKDKETGR ETKYPWKEFL KEEADPYKF KIKEFEDVDP  
KVKLDGLVR KEKEKHKDKK KDREKGGKDK DKREKEKVKD KGREDKMKAP APPLVLPPE  
LALPLFSPAT ASRVPAMLPS LLPVLPEKLF EEEKEVKEKE KKKDKKEKKK KKEKEKEKKE

KEREKEKRER EKREKEKEKH KHEKIKVEPV ALAPSPVIPR LTLRVGAGQD KIVISKVVPA  
PEAKPAPSQN RPKTPPPAPA PAPGMLVSP APVPLPLLAQ AAAGPALLPS PGPAASGASA  
KAPVRSVTE TVSTYVIRDE WGNQIWICPG CNKPDDGSPM IGCDDCDDWY HWPCVGIMTA  
PPEEMQWFCP KCANKKKDKK HKKRKHRAH

**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 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:

- 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.

## Product Details

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- 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®): <ol style="list-style-type: none"><li>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.</li><li>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.</li></ol>
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

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Target:	TAF3
Alternative Name:	TAF3 ( <a href="#">TAF3 Products</a> )
Background:	<p>Transcription initiation factor TFIID subunit 3 (140 kDa TATA box-binding protein-associated factor) (TBP-associated factor 3) (Transcription initiation factor TFIID 140 kDa subunit) (TAF(II)140) (TAF140) (TAFII-140) (TAFII140),FUNCTION: The TFIID basal transcription factor complex plays a major role in the initiation of RNA polymerase II (Pol II)-dependent transcription (PubMed:33795473). TFIID recognizes and binds promoters with or without a TATA box via its subunit TBP, a TATA-box-binding protein, and promotes assembly of the pre-initiation complex (PIC) (PubMed:33795473). The TFIID complex consists of TBP and TBP-associated factors (TAFs), including TAF1, TAF2, TAF3, TAF4, TAF5, TAF6, TAF7, TAF8, TAF9, TAF10, TAF11, TAF12 and TAF13 (PubMed:33795473). The TFIID complex structure can be divided into 3 modules TFIID-A, TFIID-B, and TFIID-C (PubMed:33795473). TAF3 forms the TFIID-A module together with TAF5 and TBP (PubMed:33795473). Required in complex with TBPL2 for the differentiation of myoblasts into myocytes (PubMed:11438666). The TAF3-TBPL2 complex replaces TFIID at specific promoters at an early stage in the differentiation process (PubMed:11438666). {ECO:0000269 PubMed:11438666, ECO:0000269 PubMed:33795473}.</p>
Molecular Weight:	103.6 kDa
UniProt:	<a href="#">Q5VWG9</a>

## Target Details

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Pathways: [Proton Transport](#), [Ribonucleoside Biosynthetic Process](#), [Maintenance of Protein Location](#)

## Application Details

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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

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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