



Datasheet for ABIN3095843

## TAF5 Protein (AA 1-800) (Strep Tag)

1 Image



[Go to Product page](#)

### Overview

Quantity:	1 mg
Target:	TAF5
Protein Characteristics:	AA 1-800
Origin:	Human
Source:	Tobacco ( <i>Nicotiana tabacum</i> )
Protein Type:	Recombinant
Purification tag / Conjugate:	This TAF5 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Sequence: MAALAEEQTE VAVKLEPEGP PTLLPPQAGD GAGEGSGGTT NNGPNGGGN VAASSSTGGD  
GGTPKPTVAV SAAAPAGAAP VPAAAPDAGA PHDRQTLLAV LQFLRQSKLR EAEEALRREA  
GLLEEAVAGS GAPGEVDSAG AEVTSAALLSR VTASAPGPAA PDPPGTGASG ATVVSGSASG  
PAAPGKVGSV AVEDQPDVSA VLSAYNQQGD PTMYEEYYSG LKHFIECSLD CHRAELSQLF  
YPLFVHMYLE LVYNQHNEA KSFFEKFHGD QECYYQDDLRL VLSSLTKEH MKGNETMLDF  
RTSKFVLRIS RDSYQLLKRH LQEKNQNQIW NIVQEHLYID IFDGMPRSKQ QIDAMVGSLA  
GEAKREANKS KVFFGLLKEP EIEVPLDDDE EEGENEEGKP KKKKPKKDSI GSKSKKQDPN  
APPQNRIPLP ELKDSDKLDK IMNMKETTKR VRLGPDCLPS ICFYTFLNAY QGLTAVDVTD  
DSSLIAGGFA DSTVRVWSVT PKKLRSVKQA SDLSLIDKES DDVLERIMDE KTASELKILY  
GHSGPVGAS FSPDRNYLLS SSEDTGTVRLW SLQTFTCLVG YKGHNYPVWD TQFSPYGYYF  
VSGGHDRVVAR LWATDHYQPL RIFAGHLADV NCTRFPNSN YVATGSADRT VRLWDVLNGN  
CVRIFTGHKG PIHSLTFSPN GRFLATGATD GRVLLWDIGH GLMVGELKGH TDTVCSLRFS

## Product Details

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RDGEILASGS MDNTVRLWDA IKAFEDLETD DFTTATGHIN LPENSQELL GTYMTKSTPV  
VHLHFTRRNLL VLAAGAYSPQ

**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.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

## Product Details

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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:	TAF5
Alternative Name:	TAF5 ( <a href="#">TAF5 Products</a> )
Background:	Transcription initiation factor TFIID subunit 5 (Transcription initiation factor TFIID 100 kDa subunit) (TAF(II)100) (TAFII-100) (TAFII100), 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, PubMed:8758937, PubMed:8942982, PubMed:9045704). The TFIID complex structure can be divided into 3 modules TFIID-A, TFIID-B, and TFIID-C (PubMed:33795473). TAF5 is involved in two modules of TFIID, in TFIID-A together with TAF3 and TBP, and in TFIID-B with TAF8 (PubMed:33795473). Involved in contacts between TFIID and TFIIF in the PIC (PubMed:33795473). {ECO:0000269 PubMed:33795473, ECO:0000269 PubMed:8758937, ECO:0000269 PubMed:8942982, ECO:0000269 PubMed:9045704}.
Molecular Weight:	86.8 kDa
UniProt:	<a href="#">Q15542</a>

## Application Details

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Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies
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## Application Details

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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 <i>Nicotiana tabacum</i> 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!
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Restrictions:	For Research Use only
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## 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