

Datasheet for ABIN3136340

## TAF5 Protein (AA 1-801) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	TAF5
Protein Characteristics:	AA 1-801
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TAF5 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

### Product Details

Brand:	AliCE®
Sequence:	MAALAEQTE VAVKLEPEGP PTLLPPQAGD GAGEGSGGTP NNGPNGGGGG NVAVAAAAGG DGGTPKPGVA VSAAAPAGAA PVPAAPAEAG APHDRQTLLA VLQFLRQSNL REAEEALRRE ARLLEEAVAG SGAPGELDGA GAEAASALLS RVTASVPGSA APEPPGTGAS VTSVFSGSAS GPAAPGKVAS VAVEDQPDVS AVLSAYNQQG DPTMYEEYYS GLKHFI ECSL DCHRAELSQL FYPLFVHMYL ELVYNQHENE AKSFFEKFHG DQECYYQDDL RVLSSLTKKE HMKGNETMLD FRTSKFVLRI YRDSYQLLKR HLQEKQNNQI WNIVQEHLIY DIFDGMPSRK QQIDAMVGSL AGEAKREANK SKVFFGLLKE PEIEVPLDDE DEEGENEEGK PKKKKPKKDS IGSKSKKQDP NAPPQNR IPL PELKDSKLD KIMNMKETTK RVRLGPDCLP SICFYTFLNA YQGLTAVDVT DDSSLIAGGF ADSTVRVWSV TPKKLRSVKQ ASDLSLIDKE SDDVLERIMD EKTASELKIL YGHSGPVYGA SFSPDRNYLL SSEDGTVRL WSLQTFTCLV GYKGHNYPVW DTQFSPYGY FVSGGHDRVA RLWATDHYQP LRIFAGHLAD VNCTRYHPNS NYVATGSADR TVRLWDVLNG

NCVRIFTGHK GPIHSLTFSP NGRFLATGAT DGRVLLWDIG HGLMVGELKG HTDTCVSLRF  
SRDGEILASG SMDNTVRLWD AVKAFEDLET DDFTTATGHI NLPENSQELL LGTYMTKSTP  
VVHLHFTRRN LVLAAGAYSP Q

**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 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.

Purification:

One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression

## Product Details

System (ALiCE®).

Purity: > 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

Grade: custom-made

## Target Details

Target: TAF5

Alternative Name: Taf5 ([TAF5 Products](#))

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. 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). 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. The TFIID complex structure can be divided into 3 modules TFIID-A, TFIID-B, and TFIID-C. TAF5 is involved in two modules of TFIID, in TFIID-A together with TAF3 and TBP, and in TFIID-B with TAF8. Involved in contacts between TFIID and TFIIF in the PIC. {ECO:0000250|UniProtKB:Q15542}.

Molecular Weight: 87.0 kDa

UniProt: [Q8C092](#)

## 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.

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Application Details

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.  
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