Datasheet for ABIN3095777

TAF1C Protein (AA 1-869) (Strep Tag)

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Overview

Quantity:	1 mg
Target:	TAF1C
Protein Characteristics:	AA 1-869
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TAF1C protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MDFPSSLRPA LFLTGPLGLS DVPDLSFMCS WRDALTLPEA QPQNSENGAL HVTKDLLWEP ATPGPLPMLP PLIDPWDPGL TARDLLFRGG CRYRKRPRVV LDVTEQISRF LLDHGDVAFA PLGKLMLENF KLEGAGSRTK KKTVVSVKKL LQDLGGHQPW GCPWAYLSNR QRRFSILGGP ILGTSVASHL AELLHEELVL RWEQLLLDEA CTGGALAWVP GRTPQFGQLV YPAGGAQDRL HFQEVVLTPG DNPQFLGKPG RIQLQGPVRQ VVTCTVQGES KALIYTFLPH WLTCYLTPGP FHPSSALLAV RSDYHCAVWK FGKQWQPTLL QAMQVEKGAT GISLSPHLPG ELAICSRSGA VCLWSPEDGL RQIYRDPETL VFRDSSSWRW ADFTAHPRVL TVGDRTGVKM LDTQGPPGCG LLLFRLGAEA SCQKGERVLL TQYLGHSSPK CLPPTLHLVC TQFSLYLVDE RLPLVPMLKW NHGLPSPLLL ARLLPPPRPS CVQPLLLGGQ GGQLQLLHLA GEGASVPRLA GPPQSLPSRI DSLPAFPLLE PKIQWRLQER LKAPTIGLAA VVPPLPSAPT PGLVLFQLSA AGDVFYQQLR PQVDSSLRRD AGPPGDTQPD CHAPTASWTS QDTAGCSQWL KALLKVPLAP PVWTAPTFTH RQMLGSTELR REEEEGQRLG VLRKAMARGQ LLLQRDLGSL PAAEPPPAPE SGLEDKLSER

LGEAWAGRGA AWWERQQGRT SEPGRQTRRP KRRTQLSSSF SLSGHVDPSE DTSSPHSPEW PPADALPLPP TTPPSQELTP DACAQGVPSE QRQMLRDYMA KLPPQRDTPG CATTPPHSQA SSVRATRSQQ HTPVLSSSQP LRKKPRMGF

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 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

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)

Target Details

Target:	TAF1C
Alternative Name:	TAF1C (TAF1C Products)
Background:	TATA box-binding protein-associated factor RNA polymerase I subunit C (RNA polymerase I-specific TBP-associated factor 110 kDa) (TAFI110) (TATA box-binding protein-associated factor 1C) (TBP-associated factor 1C) (Transcription initiation factor SL1/TIF-IB subunit C),FUNCTION: Component of the transcription factor SL1/TIF-IB complex, which is involved in the assembly of the PIC (pre-initiation complex) during RNA polymerase I-dependent transcription. The rate of PIC formation probably is primarily dependent on the rate of association of SL1/TIF-IB with the rDNA promoter. SL1/TIF-IB is involved in stabilization of nucleolar transcription factor 1/UBTF on rDNA. Formation of SL1/TIF-IB excludes the association of TBP with TFIID subunits. Recruits RNA polymerase I to the rRNA gene promoter via interaction with RRN3. {ECO:0000269|PubMed:11250903, ECO:0000269|PubMed:11283244, ECO:0000269|PubMed:15970593}.
Molecular Weight:	95.2 kDa
UniProt:	Q15572

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

Application Details

	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)